Attention, astronomical year style is used: The year -9400 in astronomical counting style is the year 9401 BCE in historical counting style.

opposition	-9400 Feb 17 j 22:55	20°♊19'03	2°38'17
min. Earth dist.	-9400 Feb 18 j 05:41	20°♊18'35	29.31395 AU
direct	-9400 May 08 j 20:08	18°♊55'22	
evening set	-9400 Aug 05 j 13:16	20°♊50'01	
conjunction	-9400 Aug 20 j 13:34	21°♊23'48	2°29'04
minimum elong	-9400 Aug 20 j 13:33	21°♊23'48	2°29'37
max. Earth dist.	-9400 Aug 20 j 07:59	21°♊23'16	31.31029 AU
morning rise	-9400 Sep 04 j 13:05	21°♊57'32	
retrograde	-9400 Dec 01 j 12:39	23°♊51'55	
opposition	-9399 Feb 19 j 11:40	22°♊29'17	2°40'11
min. Earth dist.	-9399 Feb 19 j 16:08	22°♊28'59	29.31092 AU
direct	-9399 May 11 j 08:16	21°♊05'39	
evening set	-9399 Aug 07 j 22:11	23°♊00'12	
conjunction	-9399 Aug 22 j 22:09	23°♊33'58	2°30'45
minimum elong	-9399 Aug 22 j 22:08	23°♊33'58	2°31'19
max. Earth dist.	-9399 Aug 22 j 17:14	23°♊33'30	31.30767 AU
morning rise	-9399 Sep 06 j 21:38	24°♊07'42	
retrograde	-9399 Dec 04 j 01:04	26°♊02'13	
opposition	-9398 Feb 22 j 00:30	24°♊39'31	2°41'52
min. Earth dist.	-9398 Feb 22 j 04:27	24°♊39'15	29.30890 AU
direct	-9398 May 13 j 17:41	23°♊15'56	
evening set	-9398 Aug 10 j 07:04	25°♊10'24	
conjunction	-9398 Aug 25 j 06:55	25°♊44'09	2°32'13
minimum elong	-9398 Aug 25 j 06:54	25°♊44'09	2°32'46
max. Earth dist.	-9398 Aug 25 j 03:58	25°♊43'53	31.30605 AU
morning rise	-9398 Sep 09 j 06:10	26°♊17'53	
retrograde	-9398 Dec 06 j 11:44	28°♊12'32	
opposition	-9397 Feb 24 j 13:10	26°♊49'48	2°43'19
min. Earth dist.	-9397 Feb 24 j 15:31	26°♊49'39	29.30760 AU
direct	-9397 May 16 j 05:19	25°♊26'17	
evening set	-9397 Aug 12 j 16:03	27°♊20'42	
conjunction	-9397 Aug 27 j 15:32	27°♊54'26	2°33'27
minimum elong	-9397 Aug 27 j 15:32	27°♊54'26	2°34'02
max. Earth dist.	-9397 Aug 27 j 12:47	27°♊54'10	31.30507 AU
morning rise	-9397 Sep 11 j 14:54	28°♊28'10	
	-9397 Nov 01 j 13:51	0°♋	
retrograde	-9397 Dec 09 j 00:29	0°♋22'58	
	-9396 Jan 16 j 16:40	30°℞♊	
opposition	-9396 Feb 27 j 02:06	29°♊00'12	2°44'32
min. Earth dist.	-9396 Feb 27 j 03:28	29°♊00'07	29.30688 AU
direct	-9396 May 17 j 15:45	27°♊36'46	
evening set	-9396 Aug 14 j 00:48	29°♊31'07	
	-9396 Aug 26 j 21:01	0°♋	
conjunction	-9396 Aug 29 j 00:16	0°♋04'51	2°34'29
minimum elong	-9396 Aug 29 j 00:16	0°♋04'51	2°35'03
max. Earth dist.	-9396 Aug 28 j 23:40	0°♋04'47	31.30431 AU
morning rise	-9396 Sep 12 j 23:26	0°♋38'35	
retrograde	-9396 Dec 10 j 11:32	2°♋33'32	
opposition	-9395 Feb 28 j 15:08	1°♋10'45	2°45'31
min. Earth dist.	-9395 Feb 28 j 15:47	1°♋10'42	29.30599 AU
	-9395 Apr 21 j 20:33	30°℞♊	
direct	-9395 May 20 j 04:49	29°♊47'24	
	-9395 Jun 16 j 19:54	0°♋	
evening set	-9395 Aug 16 j 09:53	1°♋41'41	
conjunction	-9395 Aug 31 j 09:03	2°♋15'25	2°35'17
minimum elong	-9395 Aug 31 j 09:03	2°♋15'25	2°35'52
max. Earth dist.	-9395 Aug 31 j 08:22	2°♋15'21	31.30324 AU
morning rise	-9395 Sep 15 j 08:24	2°♋49'09	
retrograde	-9395 Dec 13 j 00:30	4°♋44'16	

opposition	-9394 Mar 03 j 03:55	3°♋21'26	2°46'16
min. Earth dist.	-9394 Mar 03 j 03:09	3°♋21'29	29.30462 AU
direct	-9394 May 22 j 15:31	1°♋58'10	
evening set	-9394 Aug 18 j 18:50	3°♋52'24	
conjunction	-9394 Sep 02 j 18:01	4°♋26'07	2°35'52
minimum elong	-9394 Sep 02 j 18:01	4°♋26'07	2°36'26
max. Earth dist.	-9394 Sep 02 j 18:47	4°♋26'11	31.30126 AU
morning rise	-9394 Sep 17 j 17:16	4°♋59'52	
retrograde	-9394 Dec 15 j 10:07	6°♋55'07	
opposition	-9393 Mar 05 j 17:01	5°♋32'16	2°46'46
min. Earth dist.	-9393 Mar 05 j 16:22	5°♋32'19	29.30208 AU
direct	-9393 May 25 j 03:33	4°♋09'04	
evening set	-9393 Aug 21 j 03:52	6°♋03'13	
conjunction	-9393 Sep 05 j 02:54	6°♋36'56	2°36'14
minimum elong	-9393 Sep 05 j 02:54	6°♋36'56	2°36'49
max. Earth dist.	-9393 Sep 05 j 03:59	6°♋37'02	31.29811 AU
morning rise	-9393 Sep 20 j 02:16	7°♋10'42	
retrograde	-9393 Dec 17 j 21:41	9°♋06'05	
opposition	-9392 Mar 07 j 06:04	7°♋43'11	2°47'02
min. Earth dist.	-9392 Mar 07 j 03:41	7°♋43'21	29.29820 AU
direct	-9392 May 26 j 15:09	6°♋20'02	
evening set	-9392 Aug 22 j 12:55	8°♋14'06	
conjunction	-9392 Sep 06 j 11:56	8°♋47'49	2°36'22
minimum elong	-9392 Sep 06 j 11:56	8°♋47'49	2°36'57
max. Earth dist.	-9392 Sep 06 j 13:46	8°♋48'00	31.29344 AU
morning rise	-9392 Sep 21 j 11:25	9°♋21'36	
retrograde	-9392 Dec 19 j 08:42	11°♋17'08	
opposition	-9391 Mar 09 j 19:15	9°♋54'10	2°47'04
min. Earth dist.	-9391 Mar 09 j 17:13	9°♋54'18	29.29289 AU
direct	-9391 May 29 j 01:24	8°♋31'02	
evening set	-9391 Aug 24 j 21:50	10°♋25'00	
conjunction	-9391 Sep 08 j 20:57	10°♋58'43	2°36'17
minimum elong	-9391 Sep 08 j 20:58	10°♋58'43	2°36'53
max. Earth dist.	-9391 Sep 08 j 23:50	10°♋59'00	31.28750 AU
morning rise	-9391 Sep 23 j 20:34	11°♋32'32	
retrograde	-9391 Dec 21 j 19:53	13°♋28'10	
opposition	-9390 Mar 12 j 08:15	12°♋05'07	2°46'52
min. Earth dist.	-9390 Mar 12 j 04:28	12°♋05'23	29.28620 AU
direct	-9390 May 31 j 13:29	10°♋42'01	
evening set	-9390 Aug 27 j 06:50	12°♋35'52	
conjunction	-9390 Sep 11 j 05:52	13°♋09'36	2°35'59
minimum elong	-9390 Sep 11 j 05:52	13°♋09'36	2°36'33
max. Earth dist.	-9390 Sep 11 j 08:50	13°♋09'53	31.28028 AU
morning rise	-9390 Sep 26 j 05:46	13°♋43'25	
retrograde	-9390 Dec 24 j 08:18	15°♋39'11	
opposition	-9389 Mar 14 j 21:16	14°♋16'02	2°46'25
min. Earth dist.	-9389 Mar 14 j 17:22	14°♋16'18	29.27870 AU
direct	-9389 Jun 02 j 22:48	12°♋52'56	
evening set	-9389 Aug 29 j 15:36	14°♋46'41	
conjunction	-9389 Sep 13 j 14:52	15°♋20'26	2°35'27
minimum elong	-9389 Sep 13 j 14:53	15°♋20'26	2°36'02
max. Earth dist.	-9389 Sep 13 j 19:46	15°♋20'54	31.27261 AU
morning rise	-9389 Sep 28 j 14:51	15°♋54'16	
retrograde	-9389 Dec 26 j 19:11	17°♋50'08	
opposition	-9388 Mar 16 j 10:18	16°♋26'53	2°45'44
min. Earth dist.	-9388 Mar 16 j 04:50	16°♋27'15	29.27092 AU
direct	-9388 Jun 04 j 10:22	15°♋03'48	
evening set	-9388 Aug 31 j 00:26	16°♋57'27	

Attention, astronomical year style is used: The year -9388 in astronomical counting style is the year 9389 BCE in historical counting style.

conjunction	-9388 Sep 14 j 23:38	17°♓31'12	2°34'43	
minimum elong	-9388 Sep 14 j 23:39	17°♓31'12	2°35'16	
max. Earth dist.	-9388 Sep 15 j 04:42	17°♓31'41	31.26502 AU	
morning rise	-9388 Sep 30 j 00:03	18°♓05'04		
retrograde	-9388 Dec 28 j 08:24	20°♓01'03		
opposition	-9387 Mar 18 j 23:20	18°♓37'43	2°44'49	
min. Earth dist.	-9387 Mar 18 j 16:53	18°♓38'09	29.26366 AU	
direct	-9387 Jun 06 j 20:47	17°♓14'38		
evening set	-9387 Sep 02 j 09:12	19°♓08'12		
conjunction	-9387 Sep 17 j 08:43	19°♓41'58	2°33'44	
minimum elong	-9387 Sep 17 j 08:44	19°♓41'58	2°34'18	
max. Earth dist.	-9387 Sep 17 j 15:58	19°♓42'39	31.25805 AU	
morning rise	-9387 Oct 02 j 09:15	20°♓15'51		
retrograde	-9387 Dec 30 j 20:05	22°♓11'57		
opposition	-9386 Mar 21 j 12:10	20°♓48'33	2°43'40	
min. Earth dist.	-9386 Mar 21 j 04:47	20°♓49'02	29.25707 AU	
direct	-9386 Jun 09 j 09:20	19°♓25'31		
evening set	-9386 Sep 04 j 18:05	21°♓19'00		
conjunction	-9386 Sep 19 j 17:39	21°♓52'47	2°32'33	
minimum elong	-9386 Sep 19 j 17:40	21°♓52'47	2°33'06	
max. Earth dist.	-9386 Sep 20 j 01:07	21°♓53'30	31.25200 AU	
morning rise	-9386 Oct 04 j 18:39	22°♓26'42		
retrograde	-9385 Jan 02 j 09:29	24°♓22'56		
opposition	-9385 Mar 24 j 01:05	22°♓59'28	2°42'17	
min. Earth dist.	-9385 Mar 23 j 15:54	23°♓00'05	29.25143 AU	
direct	-9385 Jun 11 j 19:33	21°♓36'29		
evening set	-9385 Sep 07 j 02:45	23°♓29'55		
conjunction	-9385 Sep 22 j 02:37	24°♓03'43	2°31'08	
minimum elong	-9385 Sep 22 j 02:38	24°♓03'43	2°31'42	
max. Earth dist.	-9385 Sep 22 j 11:50	24°♓04'35	31.24668 AU	
morning rise	-9385 Oct 07 j 03:52	24°♓37'40		
retrograde	-9384 Jan 04 j 19:45	26°♓34'03		
opposition	-9384 Mar 25 j 14:12	25°♓10'32	2°40'39	
min. Earth dist.	-9384 Mar 25 j 04:43	25°♓11'11	29.24636 AU	
direct	-9384 Jun 13 j 07:33	23°♓47'38		
evening set	-9384 Sep 08 j 11:38	25°♓40'59		
conjunction	-9384 Sep 23 j 11:44	26°♓14'49	2°29'30	
minimum elong	-9384 Sep 23 j 11:45	26°♓14'49	2°30'03	
max. Earth dist.	-9384 Sep 23 j 21:46	26°♓15'46	31.24196 AU	
morning rise	-9384 Oct 08 j 13:25	26°♓48'48		
retrograde	-9383 Jan 06 j 08:21	28°♓45'19		
opposition	-9383 Mar 28 j 03:05	27°♓21'47	2°38'47	
min. Earth dist.	-9383 Mar 27 j 15:41	27°♓22'33	29.24166 AU	
direct	-9383 Jun 15 j 19:13	25°♓58'56		
evening set	-9383 Sep 10 j 20:34	27°♓52'13		
conjunction	-9383 Sep 25 j 20:56	28°♓26'05	2°27'39	
minimum elong	-9383 Sep 25 j 20:57	28°♓26'05	2°28'12	
max. Earth dist.	-9383 Sep 26 j 07:47	28°♓27'07	31.23716 AU	
morning rise	-9383 Oct 10 j 23:05	29°♓00'07		
	-9383 Nov 09 j 11:56	0°♌		
retrograde	-9382 Jan 08 j 20:00	0°♌56'47		
	-9382 Mar 13 j 19:41	30°℞♓		
opposition	-9382 Mar 30 j 16:11	29°♓33'12	2°36'41	
min. Earth dist.	-9382 Mar 30 j 05:06	29°♓33'57	29.23666 AU	
direct	-9382 Jun 18 j 05:31	28°♓10'26		
	-9382 Sep 11 j 13:53	0°♌		
evening set	-9382 Sep 13 j 05:33	0°♌03'39		
conjunction	-9382 Sep 28 j 06:17	0°♌37'32	2°25'35	
minimum elong	-9382 Sep 28 j 06:17	0°♌37'32	2°26'05	
max. Earth dist.	-9382 Sep 28 j 18:21	0°♌38'41	31.23191 AU	
morning rise	-9382 Oct 13 j 08:45	1°♌11'37		
retrograde	-9381 Jan 11 j 06:59	3°♌08'24		
opposition	-9381 Apr 02 j 05:06	1°♌44'47	2°34'22	
min. Earth dist.	-9381 Apr 01 j 16:20	1°♌45'39	29.23087 AU	
direct	-9381 Jun 20 j 17:04	0°♌22'04		
evening set	-9381 Sep 15 j 14:45	2°♌15'13		
conjunction	-9381 Sep 30 j 15:41	2°♌49'08	2°23'18	
minimum elong	-9381 Sep 30 j 15:41	2°♌49'08	2°23'49	
max. Earth dist.	-9381 Oct 01 j 03:35	2°♌50'16	31.22562 AU	
morning rise	-9381 Oct 15 j 18:45	3°♌23'15		
retrograde	-9380 Jan 13 j 19:29	5°♌20'11		
opposition	-9380 Apr 03 j 18:18	3°♌56'30	2°31'48	
min. Earth dist.	-9380 Apr 03 j 05:40	3°♌57'22	29.22401 AU	
direct	-9380 Jun 22 j 02:01	2°♌33'49		
evening set	-9380 Sep 16 j 23:48	4°♌26'53		
conjunction	-9380 Oct 02 j 01:17	5°♌00'50	2°20'48	
minimum elong	-9380 Oct 02 j 01:18	5°♌00'50	2°21'18	
max. Earth dist.	-9380 Oct 02 j 14:45	5°♌02'07	31.21810 AU	
morning rise	-9380 Oct 17 j 04:43	5°♌35'00		
retrograde	-9379 Jan 15 j 07:01	7°♌32'02		
opposition	-9379 Apr 06 j 07:21	6°♌08'17	2°29'02	
min. Earth dist.	-9379 Apr 05 j 17:40	6°♌09'13	29.21560 AU	
direct	-9379 Jun 24 j 13:30	4°♌45'36		
evening set	-9379 Sep 19 j 09:10	6°♌38'35		
conjunction	-9379 Oct 04 j 10:54	7°♌12'34	2°18'06	
minimum elong	-9379 Oct 04 j 10:55	7°♌12'34	2°18'37	
max. Earth dist.	-9379 Oct 04 j 23:50	7°♌13'48	31.20906 AU	
morning rise	-9379 Oct 19 j 15:02	7°♌46'47		
retrograde	-9378 Jan 17 j 20:41	9°♌43'54		
opposition	-9378 Apr 08 j 20:16	8°♌20'04	2°26'03	
min. Earth dist.	-9378 Apr 08 j 06:18	8°♌21'00	29.20583 AU	
direct	-9378 Jun 26 j 23:38	6°♌57'22		
evening set	-9378 Sep 21 j 18:19	8°♌50'15		
conjunction	-9378 Oct 06 j 20:39	9°♌24'16	2°15'13	
minimum elong	-9378 Oct 06 j 20:39	9°♌24'16	2°15'42	
max. Earth dist.	-9378 Oct 07 j 11:09	9°♌25'39	31.19865 AU	
morning rise	-9378 Oct 22 j 01:12	9°♌58'31		
retrograde	-9377 Jan 20 j 08:40	11°♌55'43		
opposition	-9377 Apr 11 j 09:16	10°♌31'46	2°22'51	
min. Earth dist.	-9377 Apr 10 j 18:53	10°♌32'44	29.19479 AU	
direct	-9377 Jun 29 j 11:38	9°♌09'03		
evening set	-9377 Sep 24 j 03:25	11°♌01'50		
conjunction	-9377 Oct 09 j 06:05	11°♌35'53	2°12'08	
minimum elong	-9377 Oct 09 j 06:06	11°♌35'53	2°12'37	
max. Earth dist.	-9377 Oct 09 j 20:34	11°♌37'15	31.18743 AU	
morning rise	-9377 Oct 24 j 11:21	12°♌10'10		
retrograde	-9376 Jan 22 j 22:04	14°♌07'26		
opposition	-9376 Apr 12 j 22:12	12°♌43'22	2°19'27	
min. Earth dist.	-9376 Apr 12 j 06:28	12°♌44'26	29.18331 AU	
direct	-9376 Jun 30 j 22:04	11°♌20'38		
evening set	-9376 Sep 25 j 12:36	13°♌13'18		
conjunction	-9376 Oct 10 j 15:49	13°♌47'24	2°08'51	
minimum elong	-9376 Oct 10 j 15:50	13°♌47'24	2°09'18	
max. Earth dist.	-9376 Oct 11 j 07:38	13°♌48'53	31.17589 AU	
morning rise	-9376 Oct 25 j 21:38	14°♌21'44		
	-9376 Nov 13 j 00:06	15°♌		
retrograde	-9375 Jan 24 j 09:23	16°♌19'04		
	-9375 Apr 12 j 07:35	15°℞♌		
opposition	-9375 Apr 15 j 11:01	14°♌54'53	2°15'51	
min. Earth dist.	-9375 Apr 14 j 19:16	14°♌55'57	29.17190 AU	
direct	-9375 Jul 03 j 10:14	13°♌32'07		
	-9375 Sep 16 j 10:25	15°♌		

Attention, astronomical year style is used: The year -9375 in astronomical counting style is the year 9376 BCE in historical counting style.

evening set	-9375 Sep 27 j 21:47	15°♌24'42		
conjunction	-9375 Oct 13 j 01:32	15°♌58'50	2°05'24	
minimum elong	-9375 Oct 13 j 01:33	15°♌58'50	2°05'51	
max. Earth dist.	-9375 Oct 13 j 18:09	16°♌00'24	31.16490 AU	
morning rise	-9375 Oct 28 j 07:59	16°♌33'13		
retrograde	-9374 Jan 26 j 22:42	18°♌30'37		
opposition	-9374 Apr 17 j 23:42	17°♌06'21	2°12'04	
min. Earth dist.	-9374 Apr 17 j 06:02	17°♌07'33	29.16119 AU	
direct	-9374 Jul 05 j 22:12	15°♌43'35		
evening set	-9374 Sep 30 j 07:00	17°♌36'05		
conjunction	-9374 Oct 15 j 11:11	18°♌10'16	2°01'45	
minimum elong	-9374 Oct 15 j 11:12	18°♌10'16	2°02'10	
max. Earth dist.	-9374 Oct 16 j 04:34	18°♌11'54	31.15460 AU	
morning rise	-9374 Oct 30 j 18:18	18°♌44'42		
retrograde	-9373 Jan 29 j 10:13	20°♌42'12		
opposition	-9373 Apr 20 j 12:30	19°♌17'51	2°08'04	
min. Earth dist.	-9373 Apr 19 j 18:57	19°♌19'03	29.15141 AU	
direct	-9373 Jul 08 j 08:37	17°♌55'06		
evening set	-9373 Oct 02 j 16:12	19°♌47'32		
conjunction	-9373 Oct 17 j 21:04	20°♌21'45	1°57'55	
minimum elong	-9373 Oct 17 j 21:05	20°♌21'45	1°58'21	
max. Earth dist.	-9373 Oct 18 j 16:00	20°♌23'33	31.14550 AU	
morning rise	-9373 Nov 02 j 04:45	20°♌56'16		
retrograde	-9372 Jan 31 j 21:33	22°♌53'51		
min. Earth dist.	-9372 Apr 21 j 05:41	21°♌30'47	29.14268 AU	
opposition	-9372 Apr 22 j 01:09	21°♌29'27	2°03'53	
direct	-9372 Jul 09 j 20:04	20°♌06'44		
evening set	-9372 Oct 04 j 01:33	21°♌59'07		
conjunction	-9372 Oct 19 j 06:52	22°♌33'23	1°53'55	
minimum elong	-9372 Oct 19 j 06:52	22°♌33'24	1°54'19	
max. Earth dist.	-9372 Oct 20 j 01:48	22°♌35'11	31.13727 AU	
morning rise	-9372 Nov 03 j 15:24	23°♌07'57		
retrograde	-9371 Feb 02 j 10:04	25°♌05'40		
opposition	-9371 Apr 24 j 13:57	23°♌41'14	1°59'31	
min. Earth dist.	-9371 Apr 23 j 18:28	23°♌42'33	29.13477 AU	
direct	-9371 Jul 12 j 04:48	22°♌18'33		
evening set	-9371 Oct 06 j 10:57	24°♌10'54		
conjunction	-9371 Oct 21 j 17:01	24°♌45'14	1°49'45	
minimum elong	-9371 Oct 21 j 17:02	24°♌45'14	1°50'08	
max. Earth dist.	-9371 Oct 22 j 13:45	24°♌47'11	31.12965 AU	
morning rise	-9371 Nov 06 j 02:04	25°♌19'51		
retrograde	-9370 Feb 04 j 21:49	27°♌17'40		
min. Earth dist.	-9370 Apr 26 j 05:50	25°♌54'37	29.12715 AU	
opposition	-9370 Apr 27 j 02:27	25°♌53'13	1°54'57	
direct	-9370 Jul 14 j 15:39	24°♌30'35		
evening set	-9370 Oct 08 j 20:36	26°♌22'55		
conjunction	-9370 Oct 24 j 03:06	26°♌57'17	1°45'24	
minimum elong	-9370 Oct 24 j 03:07	26°♌57'17	1°45'46	
max. Earth dist.	-9370 Oct 24 j 23:29	26°♌59'12	31.12220 AU	
morning rise	-9370 Nov 08 j 13:01	27°♌31'58		
retrograde	-9369 Feb 07 j 11:46	29°♌29'54		
opposition	-9369 Apr 29 j 15:12	28°♌05'25	1°50'14	
min. Earth dist.	-9369 Apr 28 j 18:16	28°♌06'51	29.11959 AU	
direct	-9369 Jul 17 j 00:55	26°♌42'50		
evening set	-9369 Oct 11 j 06:09	28°♌35'08		
conjunction	-9369 Oct 26 j 13:23	29°♌09'34	1°40'54	
minimum elong	-9369 Oct 26 j 13:24	29°♌09'34	1°41'16	
max. Earth dist.	-9369 Oct 27 j 11:18	29°♌11'38	31.11441 AU	
morning rise	-9369 Nov 10 j 23:52	29°♌44'18		
	-9369 Nov 18 j 04:48	0°♍		
retrograde	-9368 Feb 10 j 00:19	1°♍42'21		
min. Earth dist.	-9368 Apr 30 j 06:51	0°♍19'17	29.11137 AU	
opposition	-9368 May 01 j 03:58	0°♍17'51	1°45'20	
	-9368 May 12 j 03:11	30°℞♌		
direct	-9368 Jul 18 j 11:56	28°♌55'17		
	-9368 Sep 19 j 16:51	0°♍		
evening set	-9368 Oct 12 j 16:06	0°♍47'34		
conjunction	-9368 Oct 27 j 23:53	1°♍22'02	1°36'15	
minimum elong	-9368 Oct 27 j 23:54	1°♍22'02	1°36'35	
max. Earth dist.	-9368 Oct 28 j 21:23	1°♍24'04	31.10591 AU	
morning rise	-9368 Nov 12 j 11:12	1°♍56'51		
retrograde	-9367 Feb 11 j 14:34	3°♍54'59		
opposition	-9367 May 03 j 16:33	2°♍30'26	1°40'17	
min. Earth dist.	-9367 May 02 j 18:39	2°♍31'55	29.10230 AU	
direct	-9367 Jul 20 j 21:30	1°♍07'53		
evening set	-9367 Oct 15 j 02:05	3°♍00'07		
conjunction	-9367 Oct 30 j 10:33	3°♍34'39	1°31'28	
minimum elong	-9367 Oct 30 j 10:34	3°♍34'39	1°31'47	
max. Earth dist.	-9367 Oct 31 j 08:40	3°♍36'44	31.09622 AU	
morning rise	-9367 Nov 14 j 22:34	4°♍09'31		
retrograde	-9366 Feb 14 j 03:20	6°♍07'44		
min. Earth dist.	-9366 May 05 j 07:55	4°♍44'34	29.09193 AU	
opposition	-9366 May 06 j 05:16	4°♍43'07	1°35'05	
direct	-9366 Jul 23 j 09:42	3°♍20'33		
evening set	-9366 Oct 17 j 12:01	5°♍12'45		
conjunction	-9366 Nov 01 j 21:10	5°♍47'20	1°26'32	
minimum elong	-9366 Nov 01 j 21:11	5°♍47'20	1°26'49	
max. Earth dist.	-9366 Nov 02 j 19:32	5°♍49'26	31.08544 AU	
morning rise	-9366 Nov 17 j 09:52	6°♍22'15		
retrograde	-9365 Feb 16 j 18:01	8°♍20'31		
opposition	-9365 May 08 j 17:49	6°♍55'48	1°29'45	
min. Earth dist.	-9365 May 07 j 19:13	6°♍57'21	29.08053 AU	
direct	-9365 Jul 25 j 22:09	5°♍33'14		
evening set	-9365 Oct 19 j 22:07	7°♍25'21		
conjunction	-9365 Nov 04 j 07:51	7°♍59'59	1°21'29	
minimum elong	-9365 Nov 04 j 07:52	7°♍59'59	1°21'46	
max. Earth dist.	-9365 Nov 05 j 06:18	8°♍02'06	31.07369 AU	
morning rise	-9365 Nov 19 j 21:23	8°♍34'58		
retrograde	-9364 Feb 19 j 05:52	10°♍33'17		
min. Earth dist.	-9364 May 09 j 08:35	9°♍09'58	29.06853 AU	
opposition	-9364 May 10 j 06:24	9°♍08'28	1°24'17	
direct	-9364 Jul 27 j 08:56	7°♍45'51		
evening set	-9364 Oct 21 j 08:07	9°♍37'54		
conjunction	-9364 Nov 05 j 18:40	10°♍12'35	1°16'18	
minimum elong	-9364 Nov 05 j 18:41	10°♍12'35	1°16'33	
max. Earth dist.	-9364 Nov 06 j 18:15	10°♍14'49	31.06173 AU	
morning rise	-9364 Nov 21 j 08:51	10°♍47'38		
retrograde	-9363 Feb 20 j 17:41	12°♍45'57		
opposition	-9363 May 12 j 18:45	11°♍21'03	1°18'42	
min. Earth dist.	-9363 May 11 j 19:31	11°♍22'39	29.05649 AU	
direct	-9363 Jul 29 j 21:16	9°♍58'23		
evening set	-9363 Oct 23 j 18:24	11°♍50'23		
conjunction	-9363 Nov 08 j 05:26	12°♍25'07	1°11'01	
minimum elong	-9363 Nov 08 j 05:27	12°♍25'07	1°11'15	
max. Earth dist.	-9363 Nov 09 j 04:36	12°♍27'18	31.04993 AU	
morning rise	-9363 Nov 23 j 20:29	13°♍00'13		
retrograde	-9362 Feb 23 j 06:16	14°♍58'34		
min. Earth dist.	-9362 May 14 j 08:05	13°♍35'09	29.04510 AU	
opposition	-9362 May 15 j 07:00	13°♍33'35	1°12'59	
direct	-9362 Aug 01 j 07:02	12°♍10'53		
evening set	-9362 Oct 26 j 04:31	14°♍02'49		

Attention, astronomical year style is used: The year -9362 in astronomical counting style is the year 9363 BCE in historical counting style.

conjunction	-9362 Nov 10 j 16:23	14°♑37'36	1°05'38
minimum elong	-9362 Nov 10 j 16:23	14°♑37'36	1°05'50
max. Earth dist.	-9362 Nov 11 j 17:14	14°♑39'57	31.03906 AU
morning rise	-9362 Nov 26 j 07:59	15°♑12'45	
retrograde	-9361 Feb 25 j 17:29	17°♑11'09	
opposition	-9361 May 17 j 19:14	15°♑46'05	1°07'10
min. Earth dist.	-9361 May 16 j 19:08	15°♑47'45	29.03471 AU
direct	-9361 Aug 03 j 18:34	14°♑23'22	
evening set	-9361 Oct 28 j 14:48	16°♑15'16	
conjunction	-9361 Nov 13 j 03:12	16°♑50'06	1°00'09
minimum elong	-9361 Nov 13 j 03:12	16°♑50'06	1°00'21
max. Earth dist.	-9361 Nov 14 j 03:41	16°♑52'24	31.02940 AU
morning rise	-9361 Nov 28 j 19:42	17°♑25'19	
retrograde	-9360 Feb 28 j 06:15	19°♑23'45	
min. Earth dist.	-9360 May 18 j 07:07	18°♑00'19	29.02567 AU
opposition	-9360 May 19 j 07:32	17°♑58'38	1°01'15
direct	-9360 Aug 05 j 03:46	16°♑35'54	
evening set	-9360 Oct 30 j 01:11	18°♑27'47	
conjunction	-9360 Nov 14 j 14:23	19°♑02'40	0°54'34
minimum elong	-9360 Nov 14 j 14:24	19°♑02'40	0°54'44
max. Earth dist.	-9360 Nov 15 j 16:25	19°♑05'07	31.02093 AU
morning rise	-9360 Nov 30 j 07:30	19°♑37'56	
retrograde	-9359 Mar 01 j 17:46	21°♑36'26	
opposition	-9359 May 21 j 19:37	20°♑11'17	0°55'14
min. Earth dist.	-9359 May 20 j 18:59	20°♑12'59	29.01768 AU
direct	-9359 Aug 07 j 14:02	18°♑48'33	
evening set	-9359 Nov 01 j 11:47	20°♑40'27	
conjunction	-9359 Nov 17 j 01:36	21°♑15'23	0°48'54
minimum elong	-9359 Nov 17 j 01:37	21°♑15'23	0°49'04
max. Earth dist.	-9359 Nov 18 j 03:20	21°♑17'48	31.01358 AU
morning rise	-9359 Dec 02 j 19:31	21°♑50'42	
retrograde	-9358 Mar 04 j 08:12	23°♑49'15	
min. Earth dist.	-9358 May 23 j 06:17	22°♑25'51	29.01068 AU
opposition	-9358 May 24 j 07:46	22°♑24'06	0°49'07
direct	-9358 Aug 09 j 23:25	21°♑01'22	
evening set	-9358 Nov 03 j 22:23	22°♑53'17	
conjunction	-9358 Nov 19 j 12:51	23°♑28'16	0°43'08
minimum elong	-9358 Nov 19 j 12:51	23°♑28'16	0°43'16
max. Earth dist.	-9358 Nov 20 j 15:21	23°♑30'45	31.00680 AU
morning rise	-9358 Dec 05 j 07:25	24°♑03'38	
retrograde	-9357 Mar 06 j 21:00	26°♑02'16	
opposition	-9357 May 26 j 20:01	24°♑37'06	0°42'56
min. Earth dist.	-9357 May 25 j 19:05	24°♑38'49	29.00405 AU
direct	-9357 Aug 12 j 10:44	23°♑14'24	
evening set	-9357 Nov 06 j 09:16	25°♑06'19	
conjunction	-9357 Nov 22 j 00:26	25°♑41'22	0°37'19
minimum elong	-9357 Nov 22 j 00:27	25°♑41'22	0°37'26
max. Earth dist.	-9357 Nov 23 j 03:09	25°♑43'52	31.00038 AU
morning rise	-9357 Dec 07 j 19:41	26°♑16'47	
retrograde	-9356 Mar 08 j 12:04	28°♑15'29	
min. Earth dist.	-9356 May 27 j 06:12	26°♑52'05	28.99747 AU
opposition	-9356 May 28 j 08:05	26°♑50'18	0°36'40
direct	-9356 Aug 13 j 22:22	25°♑27'36	
evening set	-9356 Nov 07 j 20:27	27°♑19'34	
conjunction	-9356 Nov 23 j 12:11	27°♑54'40	0°31'26
minimum elong	-9356 Nov 23 j 12:11	27°♑54'40	0°31'31
max. Earth dist.	-9356 Nov 24 j 14:34	27°♑57'09	30.99352 AU
morning rise	-9356 Dec 09 j 08:12	28°♑30'09	
	-9355 Jan 27 j 07:10	0°♎	
retrograde	-9355 Mar 11 j 01:03	0°♎28'54	
	-9355 Apr 23 j 18:38	30°℞♑	
opposition	-9355 May 30 j 20:20	29°♑03'43	0°30'21
min. Earth dist.	-9355 May 29 j 19:40	29°♑05'25	28.99027 AU
direct	-9355 Aug 16 j 08:48	27°♑41'02	
evening set	-9355 Nov 10 j 07:42	29°♑33'01	
	-9355 Nov 22 j 09:38	0°♎	
conjunction	-9355 Nov 26 j 00:12	0°♎08'09	0°25'30
minimum elong	-9355 Nov 26 j 00:12	0°♎08'09	0°25'34
max. Earth dist.	-9355 Nov 27 j 03:05	0°♎10'41	30.98589 AU
morning rise	-9355 Dec 11 j 20:43	0°♎43'42	
retrograde	-9354 Mar 13 j 14:41	2°♎42'29	
min. Earth dist.	-9354 Jun 01 j 06:55	1°♎19'02	28.98204 AU
opposition	-9354 Jun 02 j 08:19	1°♎17'17	0°23'58
	-9354 Aug 01 j 00:45	30°℞♑	
direct	-9354 Aug 18 j 21:16	29°♑54'35	
	-9354 Sep 05 j 10:31	0°♎	
evening set	-9354 Nov 12 j 19:11	1°♎46'35	
conjunction	-9354 Nov 28 j 12:10	2°♎21'47	0°19'32
minimum elong	-9354 Nov 28 j 12:10	2°♎21'47	0°19'34
max. Earth dist.	-9354 Nov 29 j 13:52	2°♎24'12	30.97715 AU
morning rise	-9354 Dec 14 j 09:29	2°♎57'23	
retrograde	-9353 Mar 16 j 04:41	4°♎56'11	
opposition	-9353 Jun 04 j 20:32	3°♎30'57	0°17'34
min. Earth dist.	-9353 Jun 03 j 20:06	3°♎32'38	28.97280 AU
direct	-9353 Aug 21 j 07:32	2°♎08'13	
evening set	-9353 Nov 15 j 06:30	4°♎00'13	
conjunction	-9353 Dec 01 j 00:18	4°♎35'28	0°13'32
minimum elong	-9353 Dec 01 j 00:18	4°♎35'28	0°13'33
behind sun begin	-9353 Nov 30 j 20:44	4°♎35'09	
behind sun end	-9353 Dec 01 j 03:53	4°♎35'47	
max. Earth dist.	-9353 Dec 02 j 02:55	4°♎37'58	30.96745 AU
morning rise	-9353 Dec 16 j 22:08	5°♎11'07	
retrograde	-9352 Mar 17 j 16:18	7°♎09'56	
min. Earth dist.	-9352 Jun 05 j 07:46	5°♎46'22	28.96259 AU
opposition	-9352 Jun 06 j 08:32	5°♎44'39	0°11'08
direct	-9352 Aug 22 j 19:45	4°♎21'52	
evening set	-9352 Nov 16 j 18:12	6°♎13'53	
conjunction	-9352 Dec 02 j 12:29	6°♎49'10	0°07'32
minimum elong	-9352 Dec 02 j 12:29	6°♎49'10	0°07'31
behind sun begin	-9352 Dec 02 j 06:34	6°♎48'38	
behind sun end	-9352 Dec 02 j 18:24	6°♎49'42	
max. Earth dist.	-9352 Dec 03 j 13:56	6°♎51'33	30.95708 AU
morning rise	-9352 Dec 18 j 11:06	7°♎24'51	
retrograde	-9351 Mar 20 j 04:57	9°♎23'41	
opposition	-9351 Jun 08 j 20:23	7°♎58'20	0°04'41
min. Earth dist.	-9351 Jun 07 j 20:02	8°♎00'01	28.95213 AU
direct	-9351 Aug 25 j 05:29	6°♎35'29	
evening set	-9351 Nov 19 j 05:49	8°♎27'31	
conjunction	-9351 Dec 05 j 00:49	9°♎02'50	0°01'29
minimum elong	-9351 Dec 05 j 00:48	9°♎02'50	0°01'28
behind sun begin	-9351 Dec 04 j 18:17	9°♎02'15	
behind sun end	-9351 Dec 05 j 07:19	9°♎03'25	
max. Earth dist.	-9351 Dec 06 j 03:15	9°♎05'19	30.94658 AU
morning rise	-9351 Dec 20 j 23:52	9°♎38'34	
desc. node	-9350 Mar 03 j 11:02	11°♎31'22	
retrograde	-9350 Mar 22 j 16:12	11°♎37'24	
min. Earth dist.	-9350 Jun 10 j 08:04	10°♎13'40	28.94182 AU
opposition	-9350 Jun 11 j 08:13	10°♎11'59	-0°01'47
direct	-9350 Aug 27 j 16:04	8°♎49'05	
evening set	-9350 Nov 21 j 17:25	10°♎41'08	
conjunction	-9350 Dec 07 j 12:54	11°♎16'30	-0°04'40
minimum elong	-9350 Dec 07 j 12:54	11°♎16'30	0°04'43

Attention, astronomical year style is used: The year -9350 in astronomical counting style is the year 9351 BCE in historical counting style.

behind sun begin	-9350 Dec 07 j 06:32	11°♎15'56	
behind sun end	-9350 Dec 07 j 19:16	11°♎17'04	
max. Earth dist.	-9350 Dec 08 j 14:45	11°♎18'55	30.93670 AU
morning rise	-9350 Dec 23 j 12:38	11°♎52'16	
retrograde	-9349 Mar 25 j 06:02	13°♎51'06	
opposition	-9349 Jun 13 j 20:00	12°♎25'39	-0°08'14
min. Earth dist.	-9349 Jun 12 j 19:16	12°♎27'23	28.93243 AU
direct	-9349 Aug 30 j 01:49	11°♎02'42	
evening set	-9349 Nov 24 j 05:15	12°♎54'47	
conjunction	-9349 Dec 10 j 01:19	13°♎30'11	-0°10'41
minimum elong	-9349 Dec 10 j 01:19	13°♎30'11	0°10'44
behind sun begin	-9349 Dec 09 j 20:20	13°♎29'44	
behind sun end	-9349 Dec 10 j 06:19	13°♎30'38	
max. Earth dist.	-9349 Dec 11 j 03:41	13°♎32'39	30.92773 AU
morning rise	-9349 Dec 26 j 01:34	14°♎05'59	
retrograde	-9348 Mar 26 j 17:57	16°♎04'50	
min. Earth dist.	-9348 Jun 14 j 07:39	14°♎41'02	28.92412 AU
opposition	-9348 Jun 15 j 07:42	14°♎39'21	-0°14'41
direct	-9348 Aug 31 j 13:10	13°♎16'21	
evening set	-9348 Nov 25 j 17:10	15°♎08'29	
conjunction	-9348 Dec 11 j 13:52	15°♎43'56	-0°16'41
minimum elong	-9348 Dec 11 j 13:52	15°♎43'56	0°16'46
max. Earth dist.	-9348 Dec 12 j 16:15	15°♎46'24	30.92012 AU
morning rise	-9348 Dec 27 j 14:38	16°♎19'46	
retrograde	-9347 Mar 29 j 08:19	18°♎18'38	
opposition	-9347 Jun 17 j 19:17	16°♎53'08	-0°21'06
min. Earth dist.	-9347 Jun 16 j 18:16	16°♎54'53	28.91709 AU
direct	-9347 Sep 03 j 00:40	15°♎30'06	
evening set	-9347 Nov 28 j 05:16	17°♎22'18	
conjunction	-9347 Dec 14 j 02:23	17°♎57'48	-0°22'41
minimum elong	-9347 Dec 14 j 02:22	17°♎57'48	0°22'47
max. Earth dist.	-9347 Dec 15 j 04:30	18°♎00'15	30.91356 AU
morning rise	-9347 Dec 30 j 03:41	18°♎33'40	
retrograde	-9346 Mar 31 j 21:10	20°♎32'33	
min. Earth dist.	-9346 Jun 19 j 07:01	19°♎08'44	28.91114 AU
opposition	-9346 Jun 20 j 06:56	19°♎07'03	-0°27'31
direct	-9346 Sep 05 j 10:49	17°♎44'01	
evening set	-9346 Nov 30 j 17:24	19°♎36'17	
conjunction	-9346 Dec 16 j 15:10	20°♎11'49	-0°28'39
minimum elong	-9346 Dec 16 j 15:09	20°♎11'49	0°28'47
max. Earth dist.	-9346 Dec 17 j 17:55	20°♎14'19	30.90816 AU
morning rise	-9345 Jan 01 j 16:50	20°♎47'44	
retrograde	-9345 Apr 03 j 11:49	22°♎46'37	
opposition	-9345 Jun 22 j 18:26	21°♎21'09	-0°33'53
min. Earth dist.	-9345 Jun 21 j 17:45	21°♎22'52	28.90608 AU
direct	-9345 Sep 07 j 23:38	19°♎58'06	
evening set	-9345 Dec 03 j 05:49	21°♎50'27	
conjunction	-9345 Dec 19 j 03:56	22°♎26'01	-0°34'35
minimum elong	-9345 Dec 19 j 03:55	22°♎26'01	0°34'45
max. Earth dist.	-9345 Dec 20 j 05:33	22°♎28'25	30.90332 AU
morning rise	-9344 Jan 04 j 06:14	23°♎01'58	
retrograde	-9344 Apr 05 j 02:28	25°♎00'52	
min. Earth dist.	-9344 Jun 23 j 06:35	23°♎37'04	28.90144 AU
opposition	-9344 Jun 24 j 06:06	23°♎35'25	-0°40'12
direct	-9344 Sep 09 j 10:30	22°♎12'22	
evening set	-9344 Dec 04 j 18:27	24°♎04'48	
conjunction	-9344 Dec 20 j 17:12	24°♎40'25	-0°40'28
minimum elong	-9344 Dec 20 j 17:12	24°♎40'25	0°40'39
max. Earth dist.	-9344 Dec 21 j 19:26	24°♎42'52	30.89859 AU
morning rise	-9343 Jan 05 j 19:45	25°♎16'24	
retrograde	-9343 Apr 07 j 14:39	27°♎15'18	
opposition	-9343 Jun 26 j 17:30	25°♎49'53	-0°46'29
min. Earth dist.	-9343 Jun 25 j 17:59	25°♎51'32	28.89651 AU
direct	-9343 Sep 11 j 22:42	24°♎26'48	
evening set	-9343 Dec 07 j 07:22	26°♎19'20	
conjunction	-9343 Dec 23 j 06:25	26°♎54'58	-0°46'18
minimum elong	-9343 Dec 23 j 06:25	26°♎54'58	0°46'30
max. Earth dist.	-9343 Dec 24 j 06:59	26°♎57'16	30.89338 AU
morning rise	-9342 Jan 08 j 09:31	27°♎30'59	
retrograde	-9342 Apr 10 j 04:37	29°♎29'53	
min. Earth dist.	-9342 Jun 28 j 06:28	28°♎06'04	28.89100 AU
opposition	-9342 Jun 29 j 05:08	28°♎04'28	-0°52'41
direct	-9342 Sep 14 j 08:58	26°♎41'21	
evening set	-9342 Dec 09 j 20:09	28°♎33'57	
conjunction	-9342 Dec 25 j 19:46	29°♎09'38	-0°52'04
minimum elong	-9342 Dec 25 j 19:46	29°♎09'38	0°52'17
max. Earth dist.	-9342 Dec 26 j 20:44	29°♎11'58	30.88727 AU
morning rise	-9341 Jan 10 j 23:06	29°♎45'40	
	-9341 Jan 17 j 14:14	0°♏	
retrograde	-9341 Apr 12 j 16:39	1°♏44'33	
opposition	-9341 Jul 01 j 16:45	0°♏19'08	-0°58'48
min. Earth dist.	-9341 Jun 30 j 18:54	0°♏20'40	28.88438 AU
	-9341 Jul 13 j 03:09	30°℞♎	
direct	-9341 Sep 16 j 20:15	28°♎55'57	
	-9341 Nov 18 j 15:52	0°♏	
evening set	-9341 Dec 12 j 09:17	0°♏48'38	
conjunction	-9341 Dec 28 j 09:17	1°♏24'19	-0°57'46
minimum elong	-9341 Dec 28 j 09:16	1°♏24'19	0°57'59
max. Earth dist.	-9341 Dec 29 j 08:41	1°♏26'31	30.88021 AU
morning rise	-9340 Jan 13 j 13:06	2°♏00'23	
retrograde	-9340 Apr 14 j 06:01	3°♏59'14	
min. Earth dist.	-9340 Jul 02 j 06:32	2°♏35'18	28.87690 AU
opposition	-9340 Jul 03 j 04:09	2°♏33'47	-1°04'50
direct	-9340 Sep 18 j 06:57	1°♏10'31	
evening set	-9340 Dec 13 j 22:29	3°♏03'15	
conjunction	-9340 Dec 29 j 22:55	3°♏38'58	-1°03'21
minimum elong	-9340 Dec 29 j 22:55	3°♏38'58	1°03'37
max. Earth dist.	-9340 Dec 30 j 22:04	3°♏41'08	30.87222 AU
morning rise	-9339 Jan 15 j 03:01	4°♏15'03	
retrograde	-9339 Apr 16 j 16:54	6°♏13'50	
opposition	-9339 Jul 05 j 15:36	4°♏48'21	-1°10'46
min. Earth dist.	-9339 Jul 04 j 19:20	4°♏49'47	28.86872 AU
direct	-9339 Sep 20 j 18:19	3°♏25'00	
evening set	-9339 Dec 16 j 11:36	5°♏17'48	
conjunction	-9338 Jan 01 j 12:27	5°♏53'32	-1°08'51
minimum elong	-9338 Jan 01 j 12:26	5°♏53'32	1°09'09
max. Earth dist.	-9338 Jan 02 j 10:55	5°♏55'38	30.86399 AU
morning rise	-9338 Jan 17 j 16:49	6°♏29'37	
retrograde	-9338 Apr 19 j 06:30	8°♏28'21	
min. Earth dist.	-9338 Jul 07 j 06:05	7°♏04'18	28.86059 AU
opposition	-9338 Jul 08 j 02:47	7°♏02'50	-1°16'36
direct	-9338 Sep 23 j 06:00	5°♏39'22	
evening set	-9338 Dec 19 j 00:54	7°♏32'15	
conjunction	-9337 Jan 04 j 02:00	8°♏08'00	-1°14'15
minimum elong	-9337 Jan 04 j 02:00	8°♏08'00	1°14'33
max. Earth dist.	-9337 Jan 04 j 23:51	8°♏10'03	30.85598 AU
morning rise	-9337 Jan 20 j 06:43	8°♏44'06	
retrograde	-9337 Apr 21 j 18:33	10°♏42'47	
opposition	-9337 Jul 10 j 14:02	9°♏17'14	-1°22'18
min. Earth dist.	-9337 Jul 09 j 18:47	9°♏18'35	28.85311 AU
direct	-9337 Sep 25 j 16:32	7°♏53'40	
evening set	-9337 Dec 21 j 14:07	9°♏46'38	

Attention, astronomical year style is used: The year -9336 in astronomical counting style is the year 9337 BCE in historical counting style.

conjunction	-9336 Jan 06 j 15:44	10°♑22'24	-1°19'32
minimum elong	-9336 Jan 06 j 15:43	10°♑22'24	1°19'51
max. Earth dist.	-9336 Jan 07 j 13:49	10°♑24'28	30.84898 AU
morning rise	-9336 Jan 22 j 20:37	10°♑58'31	
retrograde	-9336 Apr 23 j 08:30	12°♑57'08	
min. Earth dist.	-9336 Jul 11 j 05:18	11°♑32'58	28.84669 AU
opposition	-9336 Jul 12 j 01:06	11°♑31'34	-1°27'53
direct	-9336 Sep 27 j 05:55	10°♑07'56	
evening set	-9336 Dec 23 j 03:40	12°♑01'00	
conjunction	-9335 Jan 08 j 05:26	12°♑36'47	-1°24'42
minimum elong	-9335 Jan 08 j 05:25	12°♑36'47	1°25'02
max. Earth dist.	-9335 Jan 09 j 02:13	12°♑38'44	30.84311 AU
morning rise	-9335 Jan 24 j 10:40	13°♑12'55	
	-9335 Mar 30 j 09:30	15°♑	
retrograde	-9335 Apr 25 j 22:06	15°♑11'30	
	-9335 May 22 j 14:05	15°℞♑	
opposition	-9335 Jul 14 j 12:11	13°♑45'56	-1°33'21
min. Earth dist.	-9335 Jul 13 j 17:30	13°♑47'15	28.84170 AU
direct	-9335 Sep 29 j 17:03	12°♑22'14	
evening set	-9335 Dec 25 j 17:04	14°♑15'24	
conjunction	-9334 Jan 10 j 19:18	14°♑51'13	-1°29'44
minimum elong	-9334 Jan 10 j 19:17	14°♑51'13	1°30'05
max. Earth dist.	-9334 Jan 11 j 16:45	14°♑53'14	30.83878 AU
	-9334 Jan 14 j 17:07	15°♑	
morning rise	-9334 Jan 27 j 00:34	15°♑27'21	
retrograde	-9334 Apr 28 j 10:45	17°♑25'54	
opposition	-9334 Jul 16 j 23:12	16°♑00'22	-1°38'39
min. Earth dist.	-9334 Jul 16 j 04:16	16°♑01'43	28.83813 AU
	-9334 Aug 25 j 13:53	15°℞♑	
direct	-9334 Oct 02 j 05:28	14°♑36'38	
	-9334 Nov 08 j 04:03	15°♑	
evening set	-9334 Dec 28 j 06:34	16°♑29'55	
conjunction	-9333 Jan 13 j 08:57	17°♑05'46	-1°34'38
minimum elong	-9333 Jan 13 j 08:56	17°♑05'46	1°34'59
max. Earth dist.	-9333 Jan 14 j 04:56	17°♑07'38	30.83592 AU
morning rise	-9333 Jan 29 j 14:35	17°♑41'55	
retrograde	-9333 May 01 j 01:14	19°♑40'25	
opposition	-9333 Jul 19 j 10:18	18°♑14'57	-1°43'49
min. Earth dist.	-9333 Jul 18 j 16:01	18°♑16'14	28.83603 AU
direct	-9333 Oct 04 j 16:07	16°♑51'11	
evening set	-9333 Dec 30 j 20:16	18°♑44'36	
conjunction	-9332 Jan 15 j 23:03	19°♑20'28	-1°39'23
minimum elong	-9332 Jan 15 j 23:03	19°♑20'28	1°39'46
max. Earth dist.	-9332 Jan 16 j 19:37	19°♑22'24	30.83425 AU
morning rise	-9332 Feb 01 j 04:42	19°♑56'38	
retrograde	-9332 May 02 j 13:38	21°♑55'07	
opposition	-9332 Jul 20 j 21:13	20°♑29'42	-1°48'49
min. Earth dist.	-9332 Jul 20 j 03:45	20°♑30'57	28.83482 AU
direct	-9332 Oct 06 j 03:24	19°♑05'56	
evening set	-9331 Jan 01 j 10:16	20°♑59'30	
conjunction	-9331 Jan 17 j 13:12	21°♑35'23	-1°44'00
minimum elong	-9331 Jan 17 j 13:11	21°♑35'23	1°44'24
max. Earth dist.	-9331 Jan 18 j 08:10	21°♑37'09	30.83337 AU
morning rise	-9331 Feb 02 j 19:05	22°♑11'33	
retrograde	-9331 May 05 j 03:07	24°♑10'00	
opposition	-9331 Jul 23 j 08:13	22°♑44'40	-1°53'40
min. Earth dist.	-9331 Jul 22 j 15:02	22°♑45'53	28.83419 AU
direct	-9331 Oct 08 j 14:06	21°♑20'53	
evening set	-9330 Jan 04 j 00:14	23°♑14'36	
conjunction	-9330 Jan 20 j 03:24	23°♑50'29	-1°48'27
minimum elong	-9330 Jan 20 j 03:23	23°♑50'29	1°48'52
max. Earth dist.	-9330 Jan 20 j 22:07	23°♑52'14	30.83255 AU
morning rise	-9330 Feb 05 j 09:16	24°♑26'40	
retrograde	-9330 May 07 j 14:07	26°♑25'06	
opposition	-9330 Jul 25 j 19:17	24°♑59'50	-1°58'21
min. Earth dist.	-9330 Jul 25 j 03:39	25°♑00'56	28.83335 AU
direct	-9330 Oct 11 j 00:55	23°♑36'00	
evening set	-9329 Jan 06 j 14:24	25°♑29'52	
conjunction	-9329 Jan 22 j 17:49	26°♑05'46	-1°52'44
minimum elong	-9329 Jan 22 j 17:48	26°♑05'46	1°53'10
max. Earth dist.	-9329 Jan 23 j 11:11	26°♑07'24	30.83148 AU
morning rise	-9329 Feb 07 j 23:48	26°♑41'56	
retrograde	-9329 May 10 j 04:20	28°♑40'19	
opposition	-9329 Jul 28 j 06:10	27°♑15'07	-2°02'50
min. Earth dist.	-9329 Jul 27 j 14:35	27°♑16'13	28.83199 AU
direct	-9329 Oct 13 j 11:57	25°♑51'14	
evening set	-9328 Jan 09 j 04:48	27°♑45'13	
conjunction	-9328 Jan 25 j 08:22	28°♑21'08	-1°56'51
minimum elong	-9328 Jan 25 j 08:21	28°♑21'08	1°57'18
max. Earth dist.	-9328 Jan 26 j 00:29	28°♑22'39	30.82956 AU
morning rise	-9328 Feb 10 j 14:27	28°♑57'18	
	-9328 Mar 13 j 00:44	0°♐	
retrograde	-9328 May 11 j 15:39	0°♐55'38	
	-9328 Jul 11 j 23:57	30°℞♑	
opposition	-9328 Jul 29 j 17:17	29°♑30'27	-2°07'09
min. Earth dist.	-9328 Jul 29 j 03:43	29°♑31'24	28.82974 AU
direct	-9328 Oct 14 j 22:39	28°♑06'29	
evening set	-9327 Jan 10 j 19:09	0°♐00'36	
	-9327 Jan 10 j 12:37	0°♐	
conjunction	-9327 Jan 26 j 23:01	0°♐36'31	-2°00'47
minimum elong	-9327 Jan 26 j 23:00	0°♐36'31	2°01'15
max. Earth dist.	-9327 Jan 27 j 14:29	0°♐37'58	30.82689 AU
morning rise	-9327 Feb 12 j 05:03	1°♐12'40	
retrograde	-9327 May 14 j 04:46	3°♐10'54	
opposition	-9327 Aug 01 j 04:04	1°♐45'44	-2°11'15
min. Earth dist.	-9327 Jul 31 j 14:34	1°♐46'41	28.82675 AU
direct	-9327 Oct 17 j 12:34	0°♐21'41	
evening set	-9326 Jan 13 j 09:38	2°♐15'54	
conjunction	-9326 Jan 29 j 13:31	2°♐51'49	-2°04'33
minimum elong	-9326 Jan 29 j 13:30	2°♐51'49	2°05'02
max. Earth dist.	-9326 Jan 30 j 03:09	2°♐53'06	30.82366 AU
morning rise	-9326 Feb 14 j 19:43	3°♐27'58	
retrograde	-9326 May 16 j 17:30	5°♐26'06	
opposition	-9326 Aug 03 j 14:59	4°♐00'56	-2°15'10
min. Earth dist.	-9326 Aug 03 j 03:07	4°♐01'46	28.82362 AU
direct	-9326 Oct 20 j 00:11	2°♐36'46	
evening set	-9325 Jan 15 j 23:48	4°♐31'05	
conjunction	-9325 Feb 01 j 04:02	5°♐07'01	-2°08'06
minimum elong	-9325 Feb 01 j 04:01	5°♐07'01	2°08'35
max. Earth dist.	-9325 Feb 01 j 17:48	5°♐08'18	30.82055 AU
morning rise	-9325 Feb 17 j 10:07	5°♐43'09	
retrograde	-9325 May 19 j 06:13	7°♐41'09	
opposition	-9325 Aug 06 j 01:43	6°♐16'00	-2°18'52
min. Earth dist.	-9325 Aug 05 j 14:05	6°♐16'49	28.82071 AU
direct	-9325 Oct 22 j 13:18	4°♐51'44	
evening set	-9324 Jan 18 j 14:22	6°♐46'08	
conjunction	-9324 Feb 03 j 18:34	7°♐22'04	-2°11'28
minimum elong	-9324 Feb 03 j 18:33	7°♐22'04	2°11'59
max. Earth dist.	-9324 Feb 04 j 06:21	7°♐23'10	30.81794 AU
morning rise	-9324 Feb 20 j 00:49	7°♐58'12	
retrograde	-9324 May 20 j 20:33	9°♐56'05	
opposition	-9324 Aug 07 j 12:22	8°♐30'56	-2°22'22

Attention, astronomical year style is used: The year -9324 in astronomical counting style is the year 9325 BCE in historical counting style.

min. Earth dist.	-9324 Aug 07 j 01:40	8°♐31'41	28.81871 AU
direct	-9324 Oct 24 j 01:29	7°♐06'34	
evening set	-9323 Jan 20 j 04:47	9°♐01'05	
conjunction	-9323 Feb 05 j 09:16	9°♐37'01	-2°14'38
minimum elong	-9323 Feb 05 j 09:15	9°♐37'01	2°15'08
max. Earth dist.	-9323 Feb 05 j 21:28	9°♐38'10	30.81636 AU
morning rise	-9323 Feb 21 j 15:19	10°♐13'08	
retrograde	-9323 May 23 j 08:14	12°♐10'54	
opposition	-9323 Aug 09 j 23:05	10°♐45'46	-2°25'38
min. Earth dist.	-9323 Aug 09 j 13:11	10°♐46'28	28.81782 AU
direct	-9323 Oct 26 j 14:16	9°♐21'20	
evening set	-9322 Jan 22 j 19:09	11°♐15'57	
conjunction	-9322 Feb 07 j 23:36	11°♐51'53	-2°17'36
minimum elong	-9322 Feb 07 j 23:36	11°♐51'53	2°18'07
max. Earth dist.	-9322 Feb 08 j 10:12	11°♐52'52	30.81619 AU
morning rise	-9322 Feb 24 j 05:46	12°♐27'59	
retrograde	-9322 May 25 j 21:32	14°♐25'39	
opposition	-9322 Aug 12 j 09:43	13°♐00'34	-2°28'41
min. Earth dist.	-9322 Aug 11 j 23:53	13°♐01'16	28.81852 AU
direct	-9322 Oct 29 j 01:51	11°♐36'04	
evening set	-9321 Jan 25 j 09:36	13°♐30'48	
conjunction	-9321 Feb 10 j 14:15	14°♐06'44	-2°20'21
minimum elong	-9321 Feb 10 j 14:15	14°♐06'44	2°20'52
max. Earth dist.	-9321 Feb 11 j 00:52	14°♐07'44	30.81753 AU
morning rise	-9321 Feb 26 j 20:15	14°♐42'50	
retrograde	-9321 May 28 j 08:50	16°♐40'23	
opposition	-9321 Aug 14 j 20:21	15°♐15'22	-2°31'31
min. Earth dist.	-9321 Aug 14 j 11:52	15°♐15'58	28.82068 AU
direct	-9321 Oct 31 j 12:55	13°♐50'50	
evening set	-9320 Jan 28 j 00:12	15°♐45'41	
conjunction	-9320 Feb 13 j 04:57	16°♐21'38	-2°22'53
minimum elong	-9320 Feb 13 j 04:56	16°♐21'38	2°23'26
max. Earth dist.	-9320 Feb 13 j 14:17	16°♐22'31	30.82043 AU
morning rise	-9320 Feb 29 j 10:59	16°♐57'43	
retrograde	-9320 May 29 j 22:42	18°♐55'11	
opposition	-9320 Aug 16 j 06:55	17°♐30'15	-2°34'06
min. Earth dist.	-9320 Aug 15 j 22:14	17°♐30'52	28.82417 AU
direct	-9320 Nov 02 j 00:10	16°♐05'41	
evening set	-9319 Jan 29 j 14:55	18°♐00'41	
conjunction	-9319 Feb 14 j 19:41	18°♐36'38	-2°25'12
minimum elong	-9319 Feb 14 j 19:41	18°♐36'38	2°25'45
max. Earth dist.	-9319 Feb 15 j 04:13	18°♐37'26	30.82428 AU
morning rise	-9319 Mar 03 j 01:35	19°♐12'43	
retrograde	-9319 Jun 01 j 09:18	21°♐10'06	
opposition	-9319 Aug 18 j 17:36	19°♐45'16	-2°36'28
min. Earth dist.	-9319 Aug 18 j 10:47	19°♐45'45	28.82849 AU
direct	-9319 Nov 04 j 10:38	18°♐20'40	
evening set	-9318 Feb 01 j 05:37	20°♐15'50	
conjunction	-9318 Feb 17 j 10:33	20°♐51'47	-2°27'18
minimum elong	-9318 Feb 17 j 10:32	20°♐51'47	2°27'51
max. Earth dist.	-9318 Feb 17 j 18:24	20°♐52'31	30.82883 AU
morning rise	-9318 Mar 05 j 16:19	21°♐27'51	
retrograde	-9318 Jun 03 j 22:09	23°♐25'09	
opposition	-9318 Aug 21 j 04:10	22°♐00'26	-2°38'35
min. Earth dist.	-9318 Aug 20 j 21:27	22°♐00'54	28.83309 AU
direct	-9318 Nov 06 j 23:35	20°♐35'49	
evening set	-9317 Feb 03 j 20:28	22°♐31'08	
conjunction	-9317 Feb 20 j 01:20	23°♐07'05	-2°29'10
minimum elong	-9317 Feb 20 j 01:20	23°♐07'05	2°29'42
max. Earth dist.	-9317 Feb 20 j 07:21	23°♐07'39	30.83323 AU
morning rise	-9317 Mar 08 j 07:08	23°♐43'08	
retrograde	-9317 Jun 06 j 10:39	25°♐40'21	
opposition	-9317 Aug 23 j 14:57	24°♐15'43	-2°40'27
min. Earth dist.	-9317 Aug 23 j 10:07	24°♐16'04	28.83735 AU
direct	-9317 Nov 09 j 10:37	22°♐51'04	
evening set	-9316 Feb 06 j 11:23	24°♐46'32	
conjunction	-9316 Feb 22 j 16:29	25°♐22'30	-2°30'48
minimum elong	-9316 Feb 22 j 16:29	25°♐22'29	2°31'22
max. Earth dist.	-9316 Feb 22 j 21:57	25°♐23'00	30.83703 AU
morning rise	-9316 Mar 09 j 22:02	25°♐58'32	
retrograde	-9316 Jun 07 j 23:22	27°♐55'38	
opposition	-9316 Aug 25 j 01:34	26°♐31'06	-2°42'05
min. Earth dist.	-9316 Aug 24 j 21:25	26°♐31'23	28.84065 AU
direct	-9316 Nov 10 j 23:51	25°♐06'23	
evening set	-9315 Feb 08 j 02:29	27°♐01'59	
conjunction	-9315 Feb 24 j 07:27	27°♐37'56	-2°32'13
minimum elong	-9315 Feb 24 j 07:27	27°♐37'56	2°32'46
max. Earth dist.	-9315 Feb 24 j 10:24	27°♐38'13	30.83986 AU
morning rise	-9315 Mar 12 j 13:02	28°♐13'58	
	-9315 May 16 j 00:43	0°♑	
retrograde	-9315 Jun 10 j 13:29	0°♑10'57	
	-9315 Jul 06 j 04:34	30°℞♐	
opposition	-9315 Aug 27 j 12:19	28°♐46'28	-2°43'28
min. Earth dist.	-9315 Aug 27 j 09:29	28°♐46'40	28.84313 AU
direct	-9315 Nov 13 j 12:30	27°♐21'42	
evening set	-9314 Feb 10 j 17:10	29°♐17'24	
conjunction	-9314 Feb 26 j 22:21	29°♐53'21	-2°33'23
minimum elong	-9314 Feb 26 j 22:21	29°♐53'21	2°33'58
max. Earth dist.	-9314 Feb 27 j 01:13	29°♐53'37	30.84187 AU
	-9314 Mar 01 j 21:38	0°♑	
morning rise	-9314 Mar 15 j 03:39	0°♑29'21	
retrograde	-9314 Jun 13 j 00:59	2°♑26'13	
opposition	-9314 Aug 29 j 23:01	1°♑01'46	-2°44'36
min. Earth dist.	-9314 Aug 29 j 21:28	1°♑01'53	28.84480 AU
	-9314 Oct 09 j 09:56	30°℞♐	
direct	-9314 Nov 16 j 02:06	29°♐36'56	
	-9314 Dec 23 j 06:13	0°♑	
evening set	-9313 Feb 13 j 08:07	1°♑32'44	
conjunction	-9313 Mar 01 j 13:12	2°♑08'41	-2°34'20
minimum elong	-9313 Mar 01 j 13:12	2°♑08'41	2°34'54
max. Earth dist.	-9313 Mar 01 j 13:49	2°♑08'44	30.84342 AU
morning rise	-9313 Mar 17 j 18:33	2°♑44'40	
retrograde	-9313 Jun 15 j 14:31	4°♑41'22	
opposition	-9313 Sep 01 j 09:27	3°♑16'58	-2°45'29
min. Earth dist.	-9313 Sep 01 j 08:28	3°♑17'03	28.84632 AU
direct	-9313 Nov 18 j 14:30	1°♑52'03	
evening set	-9312 Feb 15 j 22:57	3°♑47'56	
conjunction	-9312 Mar 03 j 04:12	4°♑23'53	-2°35'02
minimum elong	-9312 Mar 03 j 04:12	4°♑23'53	2°35'38
max. Earth dist.	-9312 Mar 03 j 04:34	4°♑23'55	30.84487 AU
morning rise	-9312 Mar 19 j 09:16	4°♑59'51	
retrograde	-9312 Jun 17 j 02:04	6°♑56'24	
opposition	-9312 Sep 02 j 20:04	5°♑32'03	-2°46'07
min. Earth dist.	-9312 Sep 02 j 20:44	5°♑32'00	28.84795 AU
direct	-9312 Nov 20 j 02:44	4°♑07'02	
evening set	-9311 Feb 17 j 13:44	6°♑03'00	
conjunction	-9311 Mar 05 j 18:54	6°♑38'57	-2°35'31
minimum elong	-9311 Mar 05 j 18:54	6°♑38'57	2°36'05
max. Earth dist.	-9311 Mar 05 j 17:41	6°♑38'51	30.84685 AU
morning rise	-9311 Mar 21 j 23:55	7°♑14'54	
retrograde	-9311 Jun 19 j 15:10	9°♑11'18	

Attention, astronomical year style is used: The year -9311 in astronomical counting style is the year 9312 BCE in historical counting style.

opposition	-9311 Sep 05 j 06:28	7°♓46'59	-2°46'29
min. Earth dist.	-9311 Sep 05 j 06:58	7°♓46'57	28.85036 AU
direct	-9311 Nov 22 j 14:47	6°♓21'54	
evening set	-9310 Feb 20 j 04:26	8°♓17'57	
conjunction	-9310 Mar 08 j 09:37	8°♓53'54	-2°35'45
minimum elong	-9310 Mar 08 j 09:37	8°♓53'54	2°36'20
max. Earth dist.	-9310 Mar 08 j 07:47	8°♓53'44	30.84970 AU
morning rise	-9310 Mar 24 j 14:26	9°♓29'50	
retrograde	-9310 Jun 22 j 00:49	11°♓26'04	
opposition	-9310 Sep 07 j 17:00	10°♓01'49	-2°46'37
min. Earth dist.	-9310 Sep 07 j 19:11	10°♓01'40	28.85391 AU
direct	-9310 Nov 25 j 01:50	8°♓36'40	
evening set	-9309 Feb 22 j 19:00	10°♓32'49	
conjunction	-9309 Mar 11 j 00:17	11°♓08'45	-2°35'45
minimum elong	-9309 Mar 11 j 00:17	11°♓08'45	2°36'19
max. Earth dist.	-9309 Mar 10 j 21:46	11°♓08'31	30.85396 AU
morning rise	-9309 Mar 27 j 04:58	11°♓44'40	
retrograde	-9309 Jun 24 j 12:46	13°♓40'45	
opposition	-9309 Sep 10 j 03:25	12°♓16'35	-2°46'29
min. Earth dist.	-9309 Sep 10 j 05:24	12°♓16'26	28.85874 AU
direct	-9309 Nov 27 j 14:36	10°♓51'23	
evening set	-9308 Feb 25 j 09:46	12°♓47'38	
conjunction	-9308 Mar 12 j 14:58	13°♓23'34	-2°35'31
minimum elong	-9308 Mar 12 j 14:58	13°♓23'34	2°36'05
max. Earth dist.	-9308 Mar 12 j 11:07	13°♓23'13	30.85944 AU
morning rise	-9308 Mar 28 j 19:31	13°♓59'28	
retrograde	-9308 Jun 26 j 00:03	15°♓55'26	
opposition	-9308 Sep 11 j 13:53	14°♓31'20	-2°46'06
min. Earth dist.	-9308 Sep 11 j 17:21	14°♓31'05	28.86495 AU
direct	-9308 Nov 29 j 00:42	13°♓06'06	
evening set	-9307 Feb 27 j 00:23	15°♓02'27	
conjunction	-9307 Mar 15 j 05:42	15°♓38'23	-2°35'02
minimum elong	-9307 Mar 15 j 05:42	15°♓38'23	2°35'36
max. Earth dist.	-9307 Mar 15 j 01:47	15°♓38'01	30.86628 AU
morning rise	-9307 Mar 31 j 10:00	16°♓14'16	
retrograde	-9307 Jun 28 j 11:27	18°♓10'06	
opposition	-9307 Sep 14 j 00:22	16°♓46'07	-2°45'28
min. Earth dist.	-9307 Sep 14 j 04:05	16°♓45'51	28.87216 AU
direct	-9307 Dec 01 j 14:00	15°♓20'52	
evening set	-9306 Mar 01 j 14:59	17°♓17'20	
conjunction	-9306 Mar 17 j 20:07	17°♓53'15	-2°34'19
minimum elong	-9306 Mar 17 j 20:08	17°♓53'15	2°34'54
max. Earth dist.	-9306 Mar 17 j 14:15	17°♓52'43	30.87390 AU
morning rise	-9306 Apr 03 j 00:24	18°♓29'07	
retrograde	-9306 Jul 01 j 00:19	20°♓24'50	
opposition	-9306 Sep 16 j 10:53	19°♓00'57	-2°44'34
min. Earth dist.	-9306 Sep 16 j 15:41	19°♓00'37	28.88004 AU
direct	-9306 Dec 04 j 02:17	17°♓35'41	
evening set	-9305 Mar 04 j 05:37	19°♓32'16	
conjunction	-9305 Mar 20 j 10:56	20°♓08'11	-2°33'22
minimum elong	-9305 Mar 20 j 10:56	20°♓08'11	2°33'55
max. Earth dist.	-9305 Mar 20 j 05:03	20°♓07'39	30.88177 AU
morning rise	-9305 Apr 05 j 14:52	20°♓44'02	
retrograde	-9305 Jul 03 j 11:37	22°♓39'37	
opposition	-9305 Sep 18 j 21:21	21°♓15'50	-2°43'25
min. Earth dist.	-9305 Sep 19 j 03:30	21°♓15'24	28.88770 AU
direct	-9305 Dec 06 j 15:32	19°♓50'33	
evening set	-9304 Mar 05 j 20:31	21°♓47'14	
conjunction	-9304 Mar 22 j 01:38	22°♓23'09	-2°32'11
minimum elong	-9304 Mar 22 j 01:38	22°♓23'09	2°32'44
max. Earth dist.	-9304 Mar 21 j 17:23	22°♓22'23	30.88924 AU
morning rise	-9304 Apr 07 j 05:33	22°♓58'58	
retrograde	-9304 Jul 05 j 01:24	24°♓54'25	
opposition	-9304 Sep 20 j 07:57	23°♓30'43	-2°42'01
min. Earth dist.	-9304 Sep 20 j 14:43	23°♓30'14	28.89481 AU
direct	-9304 Dec 08 j 04:14	22°♓05'24	
evening set	-9303 Mar 08 j 11:07	24°♓02'09	
conjunction	-9303 Mar 24 j 16:19	24°♓38'05	-2°30'46
minimum elong	-9303 Mar 24 j 16:19	24°♓38'05	2°31'18
max. Earth dist.	-9303 Mar 24 j 07:46	24°♓37'17	30.89581 AU
morning rise	-9303 Apr 09 j 19:52	25°♓13'52	
retrograde	-9303 Jul 07 j 13:00	27°♓09'10	
opposition	-9303 Sep 22 j 18:40	25°♓45'32	-2°40'23
min. Earth dist.	-9303 Sep 23 j 03:15	25°♓44'56	28.90089 AU
direct	-9303 Dec 10 j 17:34	24°♓20'11	
evening set	-9302 Mar 11 j 01:47	26°♓16'59	
conjunction	-9302 Mar 27 j 06:51	26°♓52'54	-2°29'07
minimum elong	-9302 Mar 27 j 06:52	26°♓52'54	2°29'40
max. Earth dist.	-9302 Mar 26 j 20:14	26°♓51'55	30.90156 AU
morning rise	-9302 Apr 12 j 10:22	27°♓28'41	
retrograde	-9302 Jul 10 j 01:44	29°♓23'49	
opposition	-9302 Sep 25 j 05:06	28°♓00'14	-2°38'30
min. Earth dist.	-9302 Sep 25 j 13:49	27°♓59'37	28.90617 AU
direct	-9302 Dec 13 j 06:51	26°♓34'48	
evening set	-9301 Mar 13 j 16:18	28°♓31'39	
conjunction	-9301 Mar 29 j 21:24	29°♓07'34	-2°27'15
minimum elong	-9301 Mar 29 j 21:25	29°♓07'34	2°27'47
max. Earth dist.	-9301 Mar 29 j 09:57	29°♓06'30	30.90648 AU
morning rise	-9301 Apr 15 j 00:39	29°♓43'19	
	-9301 Apr 22 j 19:29	0°♒	
retrograde	-9301 Jul 12 j 11:54	1°♒38'16	
opposition	-9301 Sep 27 j 15:44	0°♒14'44	-2°36'24
min. Earth dist.	-9301 Sep 28 j 02:28	0°♒13'59	28.91081 AU
	-9301 Oct 06 j 08:10	30°℞♓	
direct	-9301 Dec 15 j 18:36	28°♓49'14	
	-9300 Feb 21 j 18:52	0°♒	
evening set	-9300 Mar 15 j 06:45	0°♒46'07	
conjunction	-9300 Mar 31 j 11:48	1°♒22'01	-2°25'10
minimum elong	-9300 Mar 31 j 11:49	1°♒22'02	2°25'42
max. Earth dist.	-9300 Mar 30 j 23:16	1°♒20'51	30.91108 AU
morning rise	-9300 Apr 16 j 14:53	1°♒57'46	
retrograde	-9300 Jul 13 j 23:36	3°♒52'32	
opposition	-9300 Sep 29 j 02:07	2°♒29'02	-2°34'03
min. Earth dist.	-9300 Sep 29 j 12:54	2°♒28'16	28.91526 AU
direct	-9300 Dec 17 j 07:44	1°♒03'28	
evening set	-9299 Mar 17 j 21:06	3°♒00'23	
conjunction	-9299 Apr 03 j 02:02	3°♒36'16	-2°22'52
minimum elong	-9299 Apr 03 j 02:02	3°♒36'16	2°23'22
max. Earth dist.	-9299 Apr 02 j 12:18	3°♒35'00	30.91568 AU
morning rise	-9299 Apr 19 j 04:55	4°♒12'00	
retrograde	-9299 Jul 16 j 09:59	6°♒06'35	
opposition	-9299 Oct 01 j 12:42	4°♒43'08	-2°31'29
min. Earth dist.	-9299 Oct 02 j 00:54	4°♒42'16	28.92020 AU
direct	-9299 Dec 19 j 18:06	3°♒17'29	
evening set	-9298 Mar 20 j 11:01	5°♒14'26	
conjunction	-9298 Apr 05 j 16:00	5°♒50'19	-2°20'21
minimum elong	-9298 Apr 05 j 16:01	5°♒50'19	2°20'52
max. Earth dist.	-9298 Apr 05 j 02:16	5°♒49'02	30.92104 AU
morning rise	-9298 Apr 21 j 18:38	6°♒26'01	
retrograde	-9298 Jul 18 j 20:01	8°♒20'27	
opposition	-9298 Oct 03 j 23:07	6°♒57'03	-2°28'41

Attention, astronomical year style is used: The year -9298 in astronomical counting style is the year 9299 BCE in historical counting style.

min. Earth dist.	-9298 Oct 04 j 11:27	6°♒56'10	28.92588 AU
direct	-9298 Dec 22 j 07:48	5°♒31'21	
evening set	-9297 Mar 23 j 01:10	7°♒28'20	
conjunction	-9297 Apr 08 j 05:55	8°♒04'12	-2°17'38
minimum elong	-9297 Apr 08 j 05:56	8°♒04'12	2°18'07
max. Earth dist.	-9297 Apr 07 j 14:32	8°♒02'46	30.92736 AU
morning rise	-9297 Apr 24 j 08:26	8°♒39'53	
retrograde	-9297 Jul 21 j 07:30	10°♒34'10	
opposition	-9297 Oct 06 j 09:29	9°♒10'49	-2°25'40
min. Earth dist.	-9297 Oct 06 j 22:29	9°♒09'54	28.93289 AU
direct	-9297 Dec 24 j 19:28	7°♒45'05	
evening set	-9296 Mar 24 j 15:08	9°♒42'07	
conjunction	-9296 Apr 09 j 19:57	10°♒17'59	-2°14'43
minimum elong	-9296 Apr 09 j 19:57	10°♒17'59	2°15'12
max. Earth dist.	-9296 Apr 09 j 05:03	10°♒16'36	30.93509 AU
morning rise	-9296 Apr 25 j 22:04	10°♒53'39	
retrograde	-9296 Jul 22 j 17:52	12°♒47'47	
opposition	-9296 Oct 07 j 20:03	11°♒24'31	-2°22'26
min. Earth dist.	-9296 Oct 08 j 09:48	11°♒23'33	28.94119 AU
direct	-9296 Dec 26 j 08:14	9°♒58'47	
evening set	-9295 Mar 27 j 05:02	11°♒55'53	
conjunction	-9295 Apr 12 j 09:33	12°♒31'44	-2°11'35
minimum elong	-9295 Apr 12 j 09:33	12°♒31'44	2°12'03
max. Earth dist.	-9295 Apr 11 j 17:03	12°♒30'12	30.94423 AU
morning rise	-9295 Apr 28 j 11:36	13°♒07'22	
	-9295 Jul 16 j 08:04	15°♒	
retrograde	-9295 Jul 25 j 06:50	15°♒01'24	
	-9295 Aug 03 j 06:27	15°℞♒	
opposition	-9295 Oct 10 j 06:30	13°♒38'14	-2°18'58
min. Earth dist.	-9295 Oct 10 j 20:12	13°♒37'15	28.95093 AU
direct	-9295 Dec 28 j 20:40	12°♒12'30	
evening set	-9294 Mar 29 j 18:49	14°♒09'40	
conjunction	-9294 Apr 14 j 23:23	14°♒45'31	-2°08'15
minimum elong	-9294 Apr 14 j 23:24	14°♒45'31	2°08'43
max. Earth dist.	-9294 Apr 14 j 07:20	14°♒44'01	30.95454 AU
	-9294 Apr 21 j 11:04	15°♒	
morning rise	-9294 May 01 j 01:01	15°♒21'07	
retrograde	-9294 Jul 27 j 18:09	17°♒15'03	
opposition	-9294 Oct 12 j 17:00	15°♒51'59	-2°15'19
min. Earth dist.	-9294 Oct 13 j 08:09	15°♒50'54	28.96157 AU
	-9294 Nov 14 j 15:32	15°℞♒	
direct	-9294 Dec 31 j 09:58	14°♒26'17	
	-9293 Feb 15 j 09:17	15°♒	
evening set	-9293 Apr 01 j 08:44	16°♒23'31	
conjunction	-9293 Apr 17 j 13:03	16°♒59'21	-2°04'44
minimum elong	-9293 Apr 17 j 13:04	16°♒59'21	2°05'10
max. Earth dist.	-9293 Apr 16 j 19:24	16°♒57'42	30.96556 AU
morning rise	-9293 May 03 j 14:37	17°♒34'57	
retrograde	-9293 Jul 30 j 06:46	19°♒28'45	
opposition	-9293 Oct 15 j 03:29	18°♒05'48	-2°11'26
min. Earth dist.	-9293 Oct 15 j 18:27	18°♒04'45	28.97255 AU
direct	-9292 Jan 02 j 23:18	16°♒40'08	
evening set	-9292 Apr 02 j 22:35	18°♒37'26	
max. Earth dist.	-9292 Apr 18 j 08:45	19°♒11'35	30.97642 AU
conjunction	-9292 Apr 19 j 02:48	19°♒13'15	-2°01'01
minimum elong	-9292 Apr 19 j 02:49	19°♒13'16	2°01'27
morning rise	-9292 May 05 j 03:57	19°♒48'50	
retrograde	-9292 Jul 31 j 17:21	21°♒42'32	
opposition	-9292 Oct 16 j 14:14	20°♒19'41	-2°07'23
min. Earth dist.	-9292 Oct 17 j 07:03	20°♒18'30	28.98318 AU
direct	-9291 Jan 04 j 11:00	18°♒54'02	
evening set	-9291 Apr 05 j 12:25	20°♒51'22	
conjunction	-9291 Apr 21 j 16:26	21°♒27'11	-1°57'08
minimum elong	-9291 Apr 21 j 16:27	21°♒27'11	1°57'32
max. Earth dist.	-9291 Apr 20 j 21:17	21°♒25'24	30.98682 AU
morning rise	-9291 May 07 j 17:22	22°♒02'44	
retrograde	-9291 Aug 03 j 05:44	23°♒56'18	
opposition	-9291 Oct 19 j 00:54	22°♒33'33	-2°03'07
min. Earth dist.	-9291 Oct 19 j 17:41	22°♒32'22	28.99304 AU
direct	-9290 Jan 07 j 00:12	21°♒07'54	
evening set	-9290 Apr 08 j 02:03	23°♒05'15	
max. Earth dist.	-9290 Apr 23 j 09:36	23°♒39'10	30.99624 AU
conjunction	-9290 Apr 24 j 05:53	23°♒41'03	-1°53'04
minimum elong	-9290 Apr 24 j 05:54	23°♒41'03	1°53'28
morning rise	-9290 May 10 j 06:32	24°♒16'35	
retrograde	-9290 Aug 05 j 15:46	26°♒10'02	
opposition	-9290 Oct 21 j 11:41	24°♒47'20	-1°58'41
min. Earth dist.	-9290 Oct 22 j 06:02	24°♒46'02	29.00198 AU
direct	-9289 Jan 09 j 10:50	23°♒21'40	
evening set	-9289 Apr 10 j 15:41	25°♒19'01	
conjunction	-9289 Apr 26 j 19:25	25°♒54'48	-1°48'51
minimum elong	-9289 Apr 26 j 19:26	25°♒54'48	1°49'13
max. Earth dist.	-9289 Apr 25 j 22:46	25°♒52'53	31.00479 AU
morning rise	-9289 May 12 j 19:44	26°♒30'19	
retrograde	-9289 Aug 08 j 01:00	28°♒23'36	
opposition	-9289 Oct 23 j 22:18	27°♒00'57	-1°54'05
min. Earth dist.	-9289 Oct 24 j 17:03	26°♒59'38	29.00992 AU
direct	-9288 Jan 12 j 00:50	25°♒35'16	
evening set	-9288 Apr 12 j 05:21	27°♒32'36	
max. Earth dist.	-9288 Apr 27 j 10:22	28°♒06'17	31.01250 AU
conjunction	-9288 Apr 28 j 08:44	28°♒08'22	-1°44'28
minimum elong	-9288 Apr 28 j 08:45	28°♒08'22	1°44'50
morning rise	-9288 May 14 j 08:50	28°♒43'51	
	-9288 Jun 23 j 11:31	0°♓	
retrograde	-9288 Aug 09 j 11:39	0°♓36'59	
	-9288 Sep 26 j 17:08	30°℞♒	
opposition	-9288 Oct 25 j 09:02	29°♒14'22	-1°49'20
min. Earth dist.	-9288 Oct 26 j 04:33	29°♒13'00	29.01742 AU
direct	-9287 Jan 13 j 11:48	27°♒48'39	
evening set	-9287 Apr 14 j 18:31	29°♒45'57	
	-9287 Apr 21 j 04:06	0°♓	
conjunction	-9287 Apr 30 j 21:50	0°♓21'42	-1°39'56
minimum elong	-9287 Apr 30 j 21:50	0°♓21'42	1°40'16
max. Earth dist.	-9287 Apr 29 j 23:55	0°♓19'39	31.01992 AU
morning rise	-9287 May 16 j 21:28	0°♓57'09	
retrograde	-9287 Aug 11 j 21:05	2°♓50'09	
opposition	-9287 Oct 27 j 19:48	1°♓27'33	-1°44'25
min. Earth dist.	-9287 Oct 28 j 16:09	1°♓26'07	29.02469 AU
direct	-9286 Jan 16 j 00:23	0°♓01'47	
evening set	-9286 Apr 17 j 07:48	1°♓59'03	
max. Earth dist.	-9286 May 02 j 11:15	2°♓32'35	31.02745 AU
conjunction	-9286 May 03 j 10:42	2°♓34'47	-1°35'16
minimum elong	-9286 May 03 j 10:43	2°♓34'47	1°35'36
morning rise	-9286 May 19 j 10:12	3°♓10'12	
retrograde	-9286 Aug 14 j 08:35	5°♓03'03	
opposition	-9286 Oct 30 j 06:17	3°♓40'28	-1°39'21
min. Earth dist.	-9286 Oct 31 j 02:32	3°♓39'03	29.03246 AU
direct	-9285 Jan 18 j 13:08	2°♓14'40	
evening set	-9285 Apr 19 j 20:48	4°♓11'55	
conjunction	-9285 May 05 j 23:38	4°♓47'37	-1°30'27
minimum elong	-9285 May 05 j 23:39	4°♓47'37	1°30'46

Attention, astronomical year style is used: The year -9285 in astronomical counting style is the year 9286 BCE in historical counting style.

max. Earth dist.	-9285 May 05 j 00:53	4°♓45'30	31.03557 AU
morning rise	-9285 May 21 j 22:37	5°♓23'01	
retrograde	-9285 Aug 16 j 18:33	7°♓15'44	
opposition	-9285 Nov 01 j 17:06	5°♓53'11	-1°34'08
min. Earth dist.	-9285 Nov 02 j 14:28	5°♓51'41	29.04095 AU
direct	-9284 Jan 21 j 02:38	4°♓27'22	
evening set	-9284 Apr 21 j 09:49	6°♓24'35	
conjunction	-9284 May 07 j 12:11	7°♓00'16	-1°25'31
minimum elong	-9284 May 07 j 12:12	7°♓00'16	1°25'48
max. Earth dist.	-9284 May 06 j 12:22	6°♓58'03	31.04472 AU
morning rise	-9284 May 23 j 10:57	7°♓35'38	
retrograde	-9284 Aug 18 j 06:16	9°♓28'14	
opposition	-9284 Nov 03 j 03:48	8°♓05'43	-1°28'47
min. Earth dist.	-9284 Nov 04 j 00:18	8°♓04'17	29.05063 AU
direct	-9283 Jan 22 j 15:52	6°♓39'54	
evening set	-9283 Apr 23 j 22:37	8°♓37'07	
max. Earth dist.	-9283 May 09 j 01:20	9°♓10'36	31.05506 AU
conjunction	-9283 May 10 j 00:47	9°♓12'46	-1°20'27
minimum elong	-9283 May 10 j 00:48	9°♓12'47	1°20'44
morning rise	-9283 May 25 j 23:03	9°♓48'06	
retrograde	-9283 Aug 20 j 16:42	11°♓40'37	
opposition	-9283 Nov 05 j 14:38	10°♓18'10	-1°23'19
min. Earth dist.	-9283 Nov 06 j 12:17	10°♓16'39	29.06160 AU
direct	-9282 Jan 25 j 03:54	8°♓52'23	
evening set	-9282 Apr 26 j 11:17	10°♓49'36	
conjunction	-9282 May 12 j 13:07	11°♓25'14	-1°15'17
minimum elong	-9282 May 12 j 13:08	11°♓25'14	1°15'31
max. Earth dist.	-9282 May 11 j 13:18	11°♓23'01	31.06673 AU
morning rise	-9282 May 28 j 11:07	12°♓00'32	
retrograde	-9282 Aug 23 j 04:35	13°♓52'57	
opposition	-9282 Nov 08 j 01:23	12°♓30'36	-1°17'43
min. Earth dist.	-9282 Nov 08 j 22:27	12°♓29'08	29.07351 AU
direct	-9281 Jan 27 j 17:33	11°♓04'53	
evening set	-9281 Apr 29 j 00:04	13°♓02'06	
max. Earth dist.	-9281 May 14 j 01:17	13°♓35'27	31.07898 AU
conjunction	-9281 May 15 j 01:32	13°♓37'43	-1°09'59
minimum elong	-9281 May 15 j 01:33	13°♓37'43	1°10'12
morning rise	-9281 May 30 j 23:06	14°♓12'59	
retrograde	-9281 Aug 25 j 14:40	16°♓05'21	
opposition	-9281 Nov 10 j 12:13	14°♓43'05	-1°12'00
min. Earth dist.	-9281 Nov 11 j 10:23	14°♓41'33	29.08594 AU
direct	-9280 Jan 30 j 04:22	13°♓17'25	
evening set	-9280 Apr 30 j 12:46	15°♓14'40	
conjunction	-9280 May 16 j 13:56	15°♓50'15	-1°04'35
minimum elong	-9280 May 16 j 13:57	15°♓50'15	1°04'47
max. Earth dist.	-9280 May 15 j 13:54	15°♓48'01	31.09147 AU
morning rise	-9280 Jun 01 j 11:02	16°♓25'30	
retrograde	-9280 Aug 27 j 00:14	18°♓17'48	
opposition	-9280 Nov 11 j 23:16	16°♓55'38	-1°06'10
min. Earth dist.	-9280 Nov 12 j 21:28	16°♓54'05	29.09809 AU
direct	-9279 Jan 31 j 17:39	15°♓30'02	
evening set	-9279 May 03 j 01:23	17°♓27'17	
max. Earth dist.	-9279 May 18 j 00:42	18°♓00'29	31.10334 AU
conjunction	-9279 May 19 j 02:02	18°♓02'51	-0°59'05
minimum elong	-9279 May 19 j 02:03	18°♓02'51	0°59'16
morning rise	-9279 Jun 03 j 22:48	18°♓38'04	
retrograde	-9279 Aug 29 j 11:05	20°♓30'19	
opposition	-9279 Nov 14 j 10:21	19°♓08'14	-1°00'15
min. Earth dist.	-9279 Nov 15 j 09:03	19°♓06'39	29.10958 AU
direct	-9278 Feb 03 j 03:57	17°♓42'41	
evening set	-9278 May 05 j 13:56	19°♓39'55	

conjunction	-9278 May 21 j 14:20	20°♓15'27	-0°53'31
minimum elong	-9278 May 21 j 14:21	20°♓15'27	0°53'41
max. Earth dist.	-9278 May 20 j 13:27	20°♓13'08	31.11426 AU
morning rise	-9278 Jun 06 j 10:32	20°♓50'39	
retrograde	-9278 Aug 31 j 20:24	22°♓42'50	
opposition	-9278 Nov 16 j 21:23	21°♓20'49	-0°54'15
min. Earth dist.	-9278 Nov 17 j 21:03	21°♓19'10	29.11977 AU
direct	-9277 Feb 05 j 16:08	19°♓55'18	
evening set	-9277 May 08 j 02:38	21°♓52'31	
max. Earth dist.	-9277 May 22 j 23:54	22°♓25'33	31.12389 AU
conjunction	-9277 May 24 j 02:27	22°♓28'01	-0°47'52
minimum elong	-9277 May 24 j 02:27	22°♓28'02	0°48'00
morning rise	-9277 Jun 08 j 22:20	23°♓03'11	
retrograde	-9277 Sep 03 j 07:48	24°♓55'19	
opposition	-9277 Nov 19 j 08:31	23°♓33'20	-0°48'10
min. Earth dist.	-9277 Nov 20 j 08:04	23°♓31'42	29.12875 AU
direct	-9276 Feb 08 j 04:30	22°♓07'50	
evening set	-9276 May 09 j 14:58	24°♓05'01	
conjunction	-9276 May 25 j 14:29	24°♓40'30	-0°42'09
minimum elong	-9276 May 25 j 14:29	24°♓40'30	0°42'16
max. Earth dist.	-9276 May 24 j 12:35	24°♓38'05	31.13223 AU
morning rise	-9276 Jun 10 j 09:42	25°♓15'37	
retrograde	-9276 Sep 04 j 17:29	27°♓07'42	
opposition	-9276 Nov 20 j 19:49	25°♓45'43	-0°42'02
min. Earth dist.	-9276 Nov 21 j 20:36	25°♓44'00	29.13650 AU
direct	-9275 Feb 09 j 17:31	24°♓20'14	
evening set	-9275 May 12 j 03:19	26°♓17'23	
max. Earth dist.	-9275 May 26 j 23:11	26°♓50'18	31.13966 AU
conjunction	-9275 May 28 j 02:14	26°♓52'49	-0°36'23
minimum elong	-9275 May 28 j 02:15	26°♓52'49	0°36'29
morning rise	-9275 Jun 12 j 21:10	27°♓27'55	
retrograde	-9275 Sep 07 j 04:54	29°♓19'54	
opposition	-9275 Nov 23 j 06:50	27°♓57'57	-0°35'51
min. Earth dist.	-9275 Nov 24 j 06:55	27°♓56'17	29.14354 AU
direct	-9274 Feb 12 j 06:16	26°♓32'27	
evening set	-9274 May 14 j 15:18	28°♓29'33	
max. Earth dist.	-9274 May 29 j 11:12	29°♓02'27	31.14643 AU
conjunction	-9274 May 30 j 13:54	29°♓04'57	-0°30'34
minimum elong	-9274 May 30 j 13:54	29°♓04'57	0°30'38
morning rise	-9274 Jun 15 j 08:14	29°♓40'00	
	-9274 Jun 24 j 16:40	0°♈	
retrograde	-9274 Sep 09 j 15:13	1°♈31'56	
opposition	-9274 Nov 25 j 18:04	0°♈09'58	-0°29'36
min. Earth dist.	-9274 Nov 26 j 19:20	0°♈08'13	29.15019 AU
	-9274 Dec 01 j 18:22	30°℞♓	
direct	-9273 Feb 14 j 19:19	28°♓44'28	
	-9273 Apr 27 j 02:05	0°♈	
evening set	-9273 May 17 j 03:18	0°♈41'30	
max. Earth dist.	-9273 May 31 j 22:25	1°♈14'21	31.15316 AU
conjunction	-9273 Jun 02 j 01:19	1°♈16'52	-0°24'43
minimum elong	-9273 Jun 02 j 01:19	1°♈16'52	0°24'46
morning rise	-9273 Jun 17 j 19:13	1°♈51'52	
retrograde	-9273 Sep 12 j 02:46	3°♈43'44	
opposition	-9273 Nov 28 j 05:10	2°♈21'46	-0°23'20
min. Earth dist.	-9273 Nov 29 j 05:35	2°♈20'05	29.15697 AU
direct	-9272 Feb 17 j 09:57	0°♈56'16	
evening set	-9272 May 18 j 15:10	2°♈53'16	
max. Earth dist.	-9272 Jun 02 j 09:47	3°♈26'05	31.16023 AU
conjunction	-9272 Jun 03 j 12:39	3°♈28'35	-0°18'51
minimum elong	-9272 Jun 03 j 12:39	3°♈28'35	0°18'52
morning rise	-9272 Jun 19 j 05:59	4°♈03'33	

Attention, astronomical year style is used: The year -9272 in astronomical counting style is the year 9273 BCE in historical counting style.

retrograde	-9272 Sep 13 j 12:18	5°♈55'22	
opposition	-9272 Nov 29 j 16:30	4°♈33'24	-0°17'02
min. Earth dist.	-9272 Nov 30 j 17:23	4°♈31'41	29.16456 AU
direct	-9271 Feb 18 j 21:30	3°♈07'55	
evening set	-9271 May 21 j 02:43	5°♈04'51	
conjunction	-9271 Jun 05 j 23:43	5°♈40'08	-0°12'57
minimum elong	-9271 Jun 05 j 23:43	5°♈40'08	0°12'58
behind sun begin	-9271 Jun 05 j 19:46	5°♈39'47	
behind sun end	-9271 Jun 06 j 03:40	5°♈40'29	
max. Earth dist.	-9271 Jun 04 j 21:45	5°♈37'43	31.16832 AU
morning rise	-9271 Jun 21 j 16:30	6°♈15'03	
retrograde	-9271 Sep 15 j 21:09	8°♈06'50	
opposition	-9271 Dec 02 j 03:45	6°♈44'54	-0°10'43
min. Earth dist.	-9271 Dec 03 j 03:59	6°♈43'14	29.17304 AU
direct	-9270 Feb 21 j 11:03	5°♈19'27	
evening set	-9270 May 23 j 14:24	7°♈16'21	
max. Earth dist.	-9270 Jun 07 j 08:10	7°♈49'07	31.17736 AU
conjunction	-9270 Jun 08 j 10:45	7°♈51'35	-0°07'03
minimum elong	-9270 Jun 08 j 10:45	7°♈51'35	0°07'03
behind sun begin	-9270 Jun 08 j 04:45	7°♈51'03	
behind sun end	-9270 Jun 08 j 16:45	7°♈52'08	
morning rise	-9270 Jun 24 j 03:06	8°♈26'29	
retrograde	-9270 Sep 18 j 07:38	10°♈18'14	
opposition	-9270 Dec 04 j 14:52	8°♈56'20	-0°04'23
min. Earth dist.	-9270 Dec 05 j 14:53	8°♈54'41	29.18261 AU
direct	-9269 Feb 23 j 21:32	7°♈30'57	
evening set	-9269 May 26 j 01:55	9°♈27'49	
conjunction	-9269 Jun 10 j 21:50	10°♈03'01	-0°01'06
minimum elong	-9269 Jun 10 j 21:52	10°♈03'01	0°01'04
behind sun begin	-9269 Jun 10 j 15:23	10°♈02'26	
behind sun end	-9269 Jun 11 j 04:20	10°♈03'35	
max. Earth dist.	-9269 Jun 09 j 20:31	10°♈00'39	31.18732 AU
morning rise	-9269 Jun 26 j 13:31	10°♈37'52	
asc. node	-9269 Aug 16 j 13:25	12°♈08'29	
retrograde	-9269 Sep 20 j 16:25	12°♈29'37	
opposition	-9269 Dec 07 j 02:18	11°♈07'47	0°01'58
min. Earth dist.	-9269 Dec 08 j 02:36	11°♈06'06	29.19273 AU
direct	-9268 Feb 26 j 09:56	9°♈42'27	
evening set	-9268 May 27 j 13:25	11°♈39'18	
max. Earth dist.	-9268 Jun 11 j 06:26	12°♈12'00	31.19762 AU
conjunction	-9268 Jun 12 j 08:35	12°♈14'27	0°04'57
minimum elong	-9268 Jun 12 j 08:35	12°♈14'27	0°05'00
behind sun begin	-9268 Jun 12 j 02:17	12°♈13'53	
behind sun end	-9268 Jun 12 j 14:53	12°♈15'01	
morning rise	-9268 Jun 27 j 23:50	12°♈49'16	
retrograde	-9268 Sep 22 j 03:00	14°♈41'02	
opposition	-9268 Dec 08 j 13:42	13°♈19'14	0°08'18
min. Earth dist.	-9268 Dec 09 j 13:17	13°♈17'37	29.20303 AU
direct	-9267 Feb 27 j 21:00	11°♈53'59	
evening set	-9267 May 30 j 00:47	13°♈50'47	
conjunction	-9267 Jun 14 j 19:31	14°♈25'55	0°10'51
minimum elong	-9267 Jun 14 j 19:31	14°♈25'55	0°10'55
behind sun begin	-9267 Jun 14 j 14:36	14°♈25'29	
behind sun end	-9267 Jun 15 j 00:26	14°♈26'21	
max. Earth dist.	-9267 Jun 13 j 18:31	14°♈23'35	31.20766 AU
morning rise	-9267 Jun 30 j 10:02	15°♈00'41	
retrograde	-9267 Sep 24 j 12:21	16°♈52'29	
opposition	-9267 Dec 11 j 01:15	15°♈30'43	0°14'38
min. Earth dist.	-9267 Dec 12 j 01:47	15°♈29'02	29.21278 AU
direct	-9266 Mar 02 j 08:18	14°♈05'32	
evening set	-9266 Jun 01 j 12:13	16°♈02'18	
max. Earth dist.	-9266 Jun 16 j 04:22	16°♈34'58	31.21697 AU
conjunction	-9266 Jun 17 j 06:13	16°♈37'23	0°16'44
minimum elong	-9266 Jun 17 j 06:12	16°♈37'23	0°16'51
morning rise	-9266 Jul 02 j 20:20	17°♈12'07	
retrograde	-9266 Sep 26 j 23:48	19°♈03'55	
opposition	-9266 Dec 13 j 12:46	17°♈42'11	0°20'56
min. Earth dist.	-9266 Dec 14 j 12:19	17°♈40'34	29.22149 AU
direct	-9265 Mar 04 j 20:17	16°♈17'03	
evening set	-9265 Jun 03 j 23:31	18°♈13'47	
conjunction	-9265 Jun 19 j 16:58	18°♈48'48	0°22'37
minimum elong	-9265 Jun 19 j 16:58	18°♈48'48	0°22'44
max. Earth dist.	-9265 Jun 18 j 15:33	18°♈46'26	31.22493 AU
morning rise	-9265 Jul 05 j 06:21	19°♈23'30	
retrograde	-9265 Sep 29 j 10:18	21°♈15'19	
opposition	-9265 Dec 16 j 00:33	19°♈53'35	0°27'12
min. Earth dist.	-9265 Dec 17 j 01:11	19°♈51'54	29.22888 AU
direct	-9264 Mar 06 j 09:03	18°♈28'30	
evening set	-9264 Jun 05 j 10:50	20°♈25'11	
max. Earth dist.	-9264 Jun 20 j 02:02	20°♈57'46	31.23169 AU
conjunction	-9264 Jun 21 j 03:36	21°♈00'09	0°28'27
minimum elong	-9264 Jun 21 j 03:35	21°♈00'09	0°28'36
morning rise	-9264 Jul 06 j 16:28	21°♈34'48	
retrograde	-9264 Sep 30 j 21:44	23°♈26'38	
opposition	-9264 Dec 17 j 12:16	22°♈04'53	0°33'26
min. Earth dist.	-9264 Dec 18 j 12:01	22°♈03'16	29.23494 AU
direct	-9263 Mar 08 j 23:10	20°♈39'49	
evening set	-9263 Jun 07 j 21:53	22°♈36'26	
conjunction	-9263 Jun 23 j 14:00	23°♈11'22	0°34'15
minimum elong	-9263 Jun 23 j 14:00	23°♈11'22	0°34'25
max. Earth dist.	-9263 Jun 22 j 12:20	23°♈08'58	31.23710 AU
morning rise	-9263 Jul 09 j 02:17	23°♈45'58	
retrograde	-9263 Oct 03 j 07:45	25°♈37'49	
opposition	-9263 Dec 20 j 00:02	24°♈16'03	0°39'36
min. Earth dist.	-9263 Dec 21 j 00:23	24°♈14'23	29.23993 AU
direct	-9262 Mar 11 j 10:50	22°♈50'59	
evening set	-9262 Jun 10 j 08:52	24°♈47'32	
max. Earth dist.	-9262 Jun 24 j 23:34	25°♈20'05	31.24162 AU
conjunction	-9262 Jun 26 j 00:25	25°♈22'25	0°40'00
minimum elong	-9262 Jun 26 j 00:24	25°♈22'25	0°40'11
morning rise	-9262 Jul 11 j 12:04	25°♈56'58	
retrograde	-9262 Oct 05 j 16:46	27°♈48'48	
opposition	-9262 Dec 22 j 11:37	26°♈27'01	0°45'42
min. Earth dist.	-9262 Dec 23 j 11:29	26°♈25'23	29.24403 AU
direct	-9261 Mar 14 j 00:59	25°♈01'58	
evening set	-9261 Jun 12 j 19:49	26°♈58'26	
max. Earth dist.	-9261 Jun 27 j 09:12	27°♈30'54	31.24553 AU
conjunction	-9261 Jun 28 j 10:35	27°♈33'16	0°45'40
minimum elong	-9261 Jun 28 j 10:34	27°♈33'16	0°45'52
morning rise	-9261 Jul 13 j 21:44	28°♈07'47	
retrograde	-9261 Oct 08 j 03:21	29°♈59'38	
opposition	-9261 Dec 24 j 23:24	28°♈37'49	0°51'44
min. Earth dist.	-9261 Dec 25 j 22:48	28°♈36'13	29.24803 AU
direct	-9260 Mar 15 j 12:25	27°♈12'47	
evening set	-9260 Jun 14 j 06:20	29°♈09'10	
conjunction	-9260 Jun 29 j 20:34	29°♈43'57	0°51'16
minimum elong	-9260 Jun 29 j 20:34	29°♈43'57	0°51'30
max. Earth dist.	-9260 Jun 28 j 20:50	29°♈41'43	31.24956 AU
	-9260 Jul 06 j 23:57	0°♉	
morning rise	-9260 Jul 15 j 06:59	0°♉18'25	
retrograde	-9260 Oct 09 j 11:37	2°♉10'18	
opposition	-9260 Dec 26 j 11:18	0°♉48'27	0°57'41
min. Earth dist.	-9260 Dec 27 j 10:32	0°♉46'51	29.25230 AU

Attention, astronomical year style is used: The year -9259 in astronomical counting style is the year 9260 BCE in historical counting style.

	-9259 Jan	26 j 22:46	30°♑℞♈	
direct	-9259 Mar	18 j 01:27	29°♈23'26	
	-9259 May	05 j 09:13	0°♉	
evening set	-9259 Jun	16 j 17:00	1°♉19'45	
max. Earth dist.	-9259 Jul	01 j 06:19	1°♉52'13	31.25421 AU
conjunction	-9259 Jul	02 j 06:24	1°♉54'29	0°56'48
minimum elong	-9259 Jul	02 j 06:23	1°♉54'29	0°57'02
morning rise	-9259 Jul	17 j 16:23	2°♉28'55	
retrograde	-9259 Oct	11 j 21:41	4°♉20'50	
opposition	-9259 Dec	28 j 22:54	2°♉58'58	1°03'33
min. Earth dist.	-9259 Dec	29 j 20:48	2°♉57'28	29.25754 AU
direct	-9258 Mar	20 j 12:09	1°♉34'00	
evening set	-9258 Jun	19 j 03:24	3°♉30'15	
conjunction	-9258 Jul	04 j 16:18	4°♉04'57	1°02'15
minimum elong	-9258 Jul	04 j 16:18	4°♉04'57	1°02'31
max. Earth dist.	-9258 Jul	03 j 17:55	4°♉02'51	31.25985 AU
morning rise	-9258 Jul	20 j 01:32	4°♉39'20	
retrograde	-9258 Oct	14 j 06:41	6°♉31'19	
opposition	-9258 Dec	31 j 10:50	5°♉09'27	1°09'19
min. Earth dist.	-9257 Jan	01 j 08:55	5°♉07'57	29.26373 AU
direct	-9257 Mar	22 j 22:51	3°♉44'33	
evening set	-9257 Jun	21 j 13:51	5°♉40'47	
max. Earth dist.	-9257 Jul	06 j 03:36	6°♉13'19	31.26655 AU
conjunction	-9257 Jul	07 j 01:56	6°♉15'24	1°07'36
minimum elong	-9257 Jul	07 j 01:55	6°♉15'24	1°07'53
morning rise	-9257 Jul	22 j 10:42	6°♉49'46	
retrograde	-9257 Oct	16 j 17:51	8°♉41'50	
opposition	-9256 Jan	02 j 22:40	7°♉19'59	1°15'00
min. Earth dist.	-9256 Jan	03 j 18:59	7°♉18'36	29.27084 AU
direct	-9256 Mar	24 j 09:54	5°♉55'10	
evening set	-9256 Jun	23 j 00:10	7°♉51'22	
conjunction	-9256 Jul	08 j 11:40	8°♉25'57	1°12'52
minimum elong	-9256 Jul	08 j 11:39	8°♉25'57	1°13'10
max. Earth dist.	-9256 Jul	07 j 14:25	8°♉23'57	31.27390 AU
morning rise	-9256 Jul	23 j 19:45	9°♉00'16	
retrograde	-9256 Oct	18 j 04:48	10°♉52'26	
opposition	-9255 Jan	04 j 10:45	9°♉30'36	1°20'34
min. Earth dist.	-9255 Jan	05 j 07:28	9°♉29'12	29.27849 AU
direct	-9255 Mar	26 j 21:35	8°♉05'54	
evening set	-9255 Jun	25 j 10:23	10°♉02'03	
conjunction	-9255 Jul	10 j 21:12	10°♉36'36	1°18'01
minimum elong	-9255 Jul	10 j 21:11	10°♉36'36	1°18'20
max. Earth dist.	-9255 Jul	10 j 00:34	10°♉34'39	31.28156 AU
morning rise	-9255 Jul	26 j 04:47	11°♉10'53	
retrograde	-9255 Oct	20 j 16:38	13°♉03'08	
opposition	-9254 Jan	06 j 22:44	11°♉41'20	1°26'01
min. Earth dist.	-9254 Jan	07 j 18:10	11°♉40'01	29.28596 AU
direct	-9254 Mar	29 j 10:21	10°♉16'43	
evening set	-9254 Jun	27 j 20:44	12°♉12'51	
max. Earth dist.	-9254 Jul	12 j 10:19	12°♉45'26	31.28863 AU
conjunction	-9254 Jul	13 j 06:50	12°♉47'21	1°23'04
minimum elong	-9254 Jul	13 j 06:49	12°♉47'21	1°23'24
morning rise	-9254 Jul	28 j 13:50	13°♉21'36	
	-9254 Sep	24 j 10:59	15°♉	
retrograde	-9254 Oct	23 j 03:16	15°♉13'57	
	-9254 Nov	21 j 10:13	15°℞♉	
opposition	-9253 Jan	09 j 10:50	13°♉52'10	1°31'21
min. Earth dist.	-9253 Jan	10 j 06:33	13°♉50'50	29.29279 AU
direct	-9253 Mar	31 j 21:06	12°♉27'39	
evening set	-9253 Jun	30 j 07:01	14°♉23'44	
conjunction	-9253 Jul	15 j 16:31	14°♉58'11	1°27'59
minimum elong	-9253 Jul	15 j 16:30	14°♉58'11	1°28'20
max. Earth dist.	-9253 Jul	14 j 21:09	14°♉56'22	31.29488 AU
	-9253 Jul	16 j 11:51	15°♉	
morning rise	-9253 Jul	30 j 22:51	15°♉32'23	
retrograde	-9253 Oct	25 j 13:24	17°♉24'50	
opposition	-9252 Jan	11 j 23:08	16°♉03'03	1°36'32
min. Earth dist.	-9252 Jan	12 j 18:08	16°♉01'46	29.29842 AU
	-9252 Feb	24 j 18:41	15°℞♉	
direct	-9252 Apr	02 j 11:22	14°♉38'36	
	-9252 May	09 j 02:23	15°♉	
evening set	-9252 Jul	01 j 17:15	16°♉34'38	
max. Earth dist.	-9252 Jul	16 j 06:03	17°♉07'10	31.29981 AU
conjunction	-9252 Jul	17 j 01:57	17°♉09'02	1°32'47
minimum elong	-9252 Jul	17 j 01:56	17°♉09'02	1°33'09
morning rise	-9252 Aug	01 j 07:52	17°♉43'12	
retrograde	-9252 Oct	27 j 01:09	19°♉35'44	
opposition	-9251 Jan	13 j 11:28	18°♉13'56	1°41'36
min. Earth dist.	-9251 Jan	14 j 05:58	18°♉12'41	29.30284 AU
direct	-9251 Apr	04 j 23:19	16°♉49'32	
evening set	-9251 Jul	04 j 03:21	18°♉45'30	
conjunction	-9251 Jul	19 j 11:35	19°♉19'51	1°37'27
minimum elong	-9251 Jul	19 j 11:34	19°♉19'51	1°37'49
max. Earth dist.	-9251 Jul	18 j 17:05	19°♉18'06	31.30340 AU
morning rise	-9251 Aug	03 j 16:49	19°♉53'58	
retrograde	-9251 Oct	29 j 09:36	21°♉46'35	
opposition	-9250 Jan	15 j 23:41	20°♉24'45	1°46'31
min. Earth dist.	-9250 Jan	16 j 18:17	20°♉23'29	29.30576 AU
direct	-9250 Apr	07 j 12:19	19°♉00'23	
evening set	-9250 Jul	06 j 13:30	20°♉56'15	
conjunction	-9250 Jul	21 j 20:57	21°♉30'34	1°41'58
minimum elong	-9250 Jul	21 j 20:56	21°♉30'33	1°42'22
max. Earth dist.	-9250 Jul	21 j 01:53	21°♉28'46	31.30571 AU
morning rise	-9250 Aug	06 j 01:51	22°♉04'39	
retrograde	-9250 Oct	31 j 19:37	23°♉57'19	
opposition	-9249 Jan	18 j 11:59	22°♉35'26	1°51'16
min. Earth dist.	-9249 Jan	19 j 05:23	22°♉34'16	29.30759 AU
direct	-9249 Apr	09 j 23:50	21°♉11'05	
evening set	-9249 Jul	08 j 23:18	23°♉06'51	
conjunction	-9249 Jul	24 j 06:16	23°♉41'07	1°46'21
minimum elong	-9249 Jul	24 j 06:15	23°♉41'07	1°46'46
max. Earth dist.	-9249 Jul	23 j 12:47	23°♉39'28	31.30696 AU
morning rise	-9249 Aug	08 j 10:29	24°♉15'10	
retrograde	-9249 Nov	03 j 04:31	26°♉07'55	
opposition	-9248 Jan	21 j 00:30	24°♉45'58	1°55'52
min. Earth dist.	-9248 Jan	21 j 18:11	24°♉44'46	29.30861 AU
direct	-9248 Apr	11 j 11:23	23°♉21'38	
evening set	-9248 Jul	10 j 09:08	25°♉17'18	
conjunction	-9248 Jul	25 j 15:23	25°♉51'30	1°50'34
minimum elong	-9248 Jul	25 j 15:22	25°♉51'30	1°51'00
max. Earth dist.	-9248 Jul	24 j 22:07	25°♉49'52	31.30784 AU
morning rise	-9248 Aug	09 j 19:15	26°♉25'31	
retrograde	-9248 Nov	04 j 15:11	28°♉18'20	
opposition	-9247 Jan	22 j 12:49	26°♉56'19	2°00'17
min. Earth dist.	-9247 Jan	23 j 04:34	26°♉55'15	29.30956 AU
direct	-9247 Apr	13 j 23:00	25°♉31'59	
evening set	-9247 Jul	12 j 18:43	27°♉27'33	
max. Earth dist.	-9247 Jul	27 j 08:20	28°♉00'12	31.30876 AU
conjunction	-9247 Jul	28 j 00:26	28°♉01'43	1°54'38
minimum elong	-9247 Jul	28 j 00:26	28°♉01'43	1°55'04
morning rise	-9247 Aug	12 j 03:47	28°♉35'42	

Attention, astronomical year style is used: The year -9247 in astronomical counting style is the year 9248 BCE in historical counting style.

	-9247 Sep 26 j 16:03	0°♊	
retrograde	-9247 Nov 07 j 01:31	0°♊28'37	
	-9247 Dec 20 j 03:26	30°℞♉	
opposition	-9246 Jan 25 j 01:17	29°♉06'31	2°04'33
min. Earth dist.	-9246 Jan 25 j 17:05	29°♉05'27	29.31088 AU
direct	-9246 Apr 16 j 10:01	27°♉42'13	
evening set	-9246 Jul 15 j 04:19	29°♉37'42	
	-9246 Jul 25 j 03:58	0°♊	
conjunction	-9246 Jul 30 j 09:27	0°♊11'49	1°58'31
minimum elong	-9246 Jul 30 j 09:26	0°♊11'49	1°58'59
max. Earth dist.	-9246 Jul 29 j 18:27	0°♊10'24	31.31038 AU
morning rise	-9246 Aug 14 j 12:19	0°♊45'46	
retrograde	-9246 Nov 09 j 12:30	2°♊38'46	
opposition	-9245 Jan 27 j 13:36	1°♊16'38	2°08'37
min. Earth dist.	-9245 Jan 28 j 03:31	1°♊15'42	29.31289 AU
	-9245 Mar 27 j 21:48	30°℞♉	
direct	-9245 Apr 18 j 21:54	29°♉52'24	
	-9245 May 10 j 14:34	0°♊	
evening set	-9245 Jul 17 j 13:56	1°♊47'49	
conjunction	-9245 Aug 01 j 18:26	2°♊21'54	2°02'15
minimum elong	-9245 Aug 01 j 18:25	2°♊21'54	2°02'43
max. Earth dist.	-9245 Aug 01 j 04:02	2°♊20'32	31.31278 AU
morning rise	-9245 Aug 16 j 20:54	2°♊55'49	
retrograde	-9245 Nov 11 j 23:47	4°♊48'57	
opposition	-9244 Jan 30 j 02:12	3°♊26'47	2°12'31
min. Earth dist.	-9244 Jan 30 j 15:40	3°♊25'52	29.31587 AU
direct	-9244 Apr 20 j 08:15	2°♊02'37	
evening set	-9244 Jul 18 j 23:16	3°♊57'59	
conjunction	-9244 Aug 03 j 03:21	4°♊32'01	2°05'48
minimum elong	-9244 Aug 03 j 03:20	4°♊32'01	2°06'17
max. Earth dist.	-9244 Aug 02 j 14:50	4°♊30'50	31.31604 AU
morning rise	-9244 Aug 18 j 05:20	5°♊05'54	
retrograde	-9244 Nov 13 j 10:23	6°♊59'10	
opposition	-9243 Jan 31 j 14:46	5°♊37'00	2°16'13
min. Earth dist.	-9243 Feb 01 j 02:57	5°♊36'11	29.31930 AU
direct	-9243 Apr 22 j 21:44	4°♊12'57	
evening set	-9243 Jul 21 j 08:50	6°♊08'15	
conjunction	-9243 Aug 05 j 12:15	6°♊42'16	2°09'11
minimum elong	-9243 Aug 05 j 12:14	6°♊42'16	2°09'40
max. Earth dist.	-9243 Aug 04 j 23:38	6°♊41'04	31.31955 AU
morning rise	-9243 Aug 20 j 14:00	7°♊16'08	
retrograde	-9243 Nov 15 j 22:49	9°♊09'32	
opposition	-9242 Feb 03 j 03:11	7°♊47'22	2°19'44
min. Earth dist.	-9242 Feb 03 j 14:28	7°♊46'37	29.32291 AU
direct	-9242 Apr 25 j 08:49	6°♊23'24	
evening set	-9242 Jul 23 j 18:14	8°♊18'41	
conjunction	-9242 Aug 07 j 21:19	8°♊52'40	2°12'22
minimum elong	-9242 Aug 07 j 21:18	8°♊52'39	2°12'53
max. Earth dist.	-9242 Aug 07 j 10:31	8°♊51'38	31.32284 AU
morning rise	-9242 Aug 22 j 22:32	9°♊26'30	
retrograde	-9242 Nov 18 j 08:13	11°♊20'03	
opposition	-9241 Feb 05 j 15:57	9°♊57'54	2°23'02
min. Earth dist.	-9241 Feb 06 j 02:58	9°♊57'09	29.32588 AU
direct	-9241 Apr 27 j 21:17	8°♊34'02	
evening set	-9241 Jul 26 j 03:43	10°♊29'16	
conjunction	-9241 Aug 10 j 06:08	11°♊03'12	2°15'23
minimum elong	-9241 Aug 10 j 06:08	11°♊03'12	2°15'53
max. Earth dist.	-9241 Aug 09 j 19:10	11°♊02'10	31.32536 AU
morning rise	-9241 Aug 25 j 07:09	11°♊37'02	
retrograde	-9241 Nov 20 j 19:15	13°♊30'44	
opposition	-9240 Feb 08 j 04:45	12°♊08'34	2°26'09
min. Earth dist.	-9240 Feb 08 j 14:20	12°♊07'56	29.32795 AU
direct	-9240 Apr 29 j 08:41	10°♊44'47	
evening set	-9240 Jul 27 j 13:09	12°♊39'57	
conjunction	-9240 Aug 11 j 15:16	13°♊13'53	2°18'11
minimum elong	-9240 Aug 11 j 15:15	13°♊13'53	2°18'43
max. Earth dist.	-9240 Aug 11 j 05:44	13°♊12'59	31.32662 AU
morning rise	-9240 Aug 26 j 15:50	13°♊47'42	
retrograde	-9240 Nov 22 j 05:11	15°♊41'33	
opposition	-9239 Feb 09 j 17:38	14°♊19'21	2°29'03
min. Earth dist.	-9239 Feb 10 j 03:35	14°♊18'41	29.32860 AU
direct	-9239 May 01 j 19:59	12°♊55'38	
evening set	-9239 Jul 29 j 22:37	14°♊50'44	
conjunction	-9239 Aug 14 j 00:14	15°♊24'38	2°20'48
minimum elong	-9239 Aug 14 j 00:14	15°♊24'38	2°21'20
max. Earth dist.	-9239 Aug 13 j 14:49	15°♊23'44	31.32650 AU
morning rise	-9239 Aug 29 j 00:38	15°♊58'26	
retrograde	-9239 Nov 24 j 16:23	17°♊52'25	
opposition	-9238 Feb 12 j 06:25	16°♊30'11	2°31'44
min. Earth dist.	-9238 Feb 12 j 14:38	16°♊29'38	29.32767 AU
direct	-9238 May 04 j 07:33	15°♊06'31	
evening set	-9238 Aug 01 j 07:59	17°♊01'32	
conjunction	-9238 Aug 16 j 09:14	17°♊35'24	2°23'13
minimum elong	-9238 Aug 16 j 09:13	17°♊35'24	2°23'45
max. Earth dist.	-9238 Aug 16 j 00:26	17°♊34'34	31.32464 AU
morning rise	-9238 Aug 31 j 09:19	18°♊09'11	
retrograde	-9238 Nov 27 j 03:08	20°♊03'18	
opposition	-9237 Feb 14 j 19:21	18°♊41'00	2°34'13
min. Earth dist.	-9237 Feb 15 j 03:55	18°♊40'25	29.32518 AU
direct	-9237 May 06 j 18:10	17°♊17'22	
evening set	-9237 Aug 03 j 17:18	19°♊12'17	
conjunction	-9237 Aug 18 j 18:13	19°♊46'08	2°25'25
minimum elong	-9237 Aug 18 j 18:13	19°♊46'08	2°25'58
max. Earth dist.	-9237 Aug 18 j 10:28	19°♊45'24	31.32153 AU
morning rise	-9237 Sep 02 j 18:04	20°♊19'54	
retrograde	-9237 Nov 29 j 14:25	22°♊14'07	
opposition	-9236 Feb 17 j 08:13	20°♊51'44	2°36'28
min. Earth dist.	-9236 Feb 17 j 15:07	20°♊51'17	29.32149 AU
direct	-9236 May 08 j 05:26	19°♊28'07	
evening set	-9236 Aug 05 j 02:25	21°♊22'57	
conjunction	-9236 Aug 20 j 02:56	21°♊56'45	2°27'25
minimum elong	-9236 Aug 20 j 02:56	21°♊56'45	2°27'59
max. Earth dist.	-9236 Aug 19 j 19:29	21°♊56'03	31.31739 AU
morning rise	-9236 Sep 04 j 02:43	22°♊30'31	
retrograde	-9236 Dec 01 j 02:00	24°♊24'51	
opposition	-9235 Feb 18 j 21:08	23°♊02'22	2°38'30
min. Earth dist.	-9235 Feb 19 j 03:48	23°♊01'56	29.31722 AU
direct	-9235 May 10 j 15:58	21°♊38'46	
evening set	-9235 Aug 07 j 11:28	23°♊33'29	
conjunction	-9235 Aug 22 j 11:50	24°♊07'16	2°29'13
minimum elong	-9235 Aug 22 j 11:50	24°♊07'16	2°29'46
max. Earth dist.	-9235 Aug 22 j 06:16	24°♊06'45	31.31295 AU
morning rise	-9235 Sep 06 j 11:19	24°♊41'01	
retrograde	-9235 Dec 03 j 13:02	26°♊35'27	
opposition	-9234 Feb 21 j 09:48	25°♊12'53	2°40'18
min. Earth dist.	-9234 Feb 21 j 15:07	25°♊12'32	29.31281 AU
direct	-9234 May 13 j 05:20	23°♊49'18	
evening set	-9234 Aug 09 j 20:34	25°♊43'55	
conjunction	-9234 Aug 24 j 20:29	26°♊17'41	2°30'48
minimum elong	-9234 Aug 24 j 20:29	26°♊17'41	2°31'22
max. Earth dist.	-9234 Aug 24 j 15:00	26°♊17'10	31.30873 AU

Attention, astronomical year style is used: The year -9234 in astronomical counting style is the year 9235 BCE in historical counting style.

morning rise	-9234 Sep 08 j 20:00	26°♊51'25	
retrograde	-9234 Dec 06 j 01:54	28°♊45'58	
opposition	-9233 Feb 23 j 22:39	27°♊23'19	2°41'53
min. Earth dist.	-9233 Feb 24 j 02:38	27°♊23'03	29.30903 AU
direct	-9233 May 15 j 16:16	25°♊59'45	
evening set	-9233 Aug 12 j 05:21	27°♊54'17	
conjunction	-9233 Aug 27 j 05:12	28°♊28'02	2°32'10
minimum elong	-9233 Aug 27 j 05:12	28°♊28'02	2°32'43
max. Earth dist.	-9233 Aug 27 j 01:56	28°♊27'44	31.30525 AU
morning rise	-9233 Sep 11 j 04:27	29°♊01'46	
	-9233 Oct 09 j 20:47	0°♋	
retrograde	-9233 Dec 08 j 11:22	0°♋56'27	
	-9232 Feb 09 j 21:44	30°℞♊	
opposition	-9232 Feb 26 j 11:38	29°♊33'43	2°43'13
min. Earth dist.	-9232 Feb 26 j 14:46	29°♊33'31	29.30596 AU
direct	-9232 May 17 j 04:30	28°♊10'13	
	-9232 Aug 11 j 11:36	0°♋	
evening set	-9232 Aug 13 j 14:22	0°♋04'39	
conjunction	-9232 Aug 28 j 13:53	0°♋38'24	2°33'19
minimum elong	-9232 Aug 28 j 13:53	0°♋38'24	2°33'53
max. Earth dist.	-9232 Aug 28 j 10:56	0°♋38'07	31.30266 AU
morning rise	-9232 Sep 12 j 13:15	1°♋12'08	
retrograde	-9232 Dec 09 j 22:56	3°♋06'56	
opposition	-9231 Feb 28 j 00:22	1°♋44'10	2°44'20
min. Earth dist.	-9231 Feb 28 j 01:38	1°♋44'05	29.30377 AU
direct	-9231 May 19 j 16:19	0°♋20'43	
evening set	-9231 Aug 15 j 23:11	2°♋15'05	
conjunction	-9231 Aug 30 j 22:40	2°♋48'50	2°34'14
minimum elong	-9231 Aug 30 j 22:40	2°♋48'50	2°34'48
max. Earth dist.	-9231 Aug 30 j 21:30	2°♋48'43	31.30062 AU
morning rise	-9231 Sep 14 j 21:56	3°♋22'34	
retrograde	-9231 Dec 12 j 09:33	5°♋17'31	
opposition	-9230 Mar 02 j 13:22	3°♋54'43	2°45'12
min. Earth dist.	-9230 Mar 02 j 14:32	3°♋54'38	29.30189 AU
direct	-9230 May 22 j 03:54	2°♋31'21	
evening set	-9230 Aug 18 j 08:04	4°♋25'38	
conjunction	-9230 Sep 02 j 07:21	4°♋59'22	2°34'56
minimum elong	-9230 Sep 02 j 07:21	4°♋59'22	2°35'31
max. Earth dist.	-9230 Sep 02 j 06:55	4°♋59'20	31.29882 AU
morning rise	-9230 Sep 17 j 06:39	5°♋33'07	
retrograde	-9230 Dec 14 j 20:35	7°♋28'13	
opposition	-9229 Mar 05 j 02:16	6°♋05'23	2°45'50
min. Earth dist.	-9229 Mar 05 j 01:21	6°♋05'27	29.29997 AU
direct	-9229 May 24 j 15:15	4°♋42'05	
evening set	-9229 Aug 20 j 17:02	6°♋36'18	
conjunction	-9229 Sep 04 j 16:11	7°♋10'02	2°35'25
minimum elong	-9229 Sep 04 j 16:12	7°♋10'02	2°36'00
max. Earth dist.	-9229 Sep 04 j 16:35	7°♋10'04	31.29663 AU
morning rise	-9229 Sep 19 j 15:33	7°♋43'48	
retrograde	-9229 Dec 17 j 07:31	9°♋39'03	
opposition	-9228 Mar 06 j 15:26	8°♋16'11	2°46'14
min. Earth dist.	-9228 Mar 06 j 14:39	8°♋16'14	29.29755 AU
direct	-9228 May 26 j 01:16	6°♋52'57	
evening set	-9228 Aug 22 j 01:55	8°♋47'05	
conjunction	-9228 Sep 06 j 01:06	9°♋20'49	2°35'41
minimum elong	-9228 Sep 06 j 01:06	9°♋20'49	2°36'15
max. Earth dist.	-9228 Sep 06 j 02:47	9°♋20'58	31.29379 AU
morning rise	-9228 Sep 21 j 00:30	9°♋54'35	
retrograde	-9228 Dec 18 j 18:54	11°♋49'59	
opposition	-9227 Mar 09 j 04:26	10°♋27'04	2°46'24
min. Earth dist.	-9227 Mar 09 j 02:02	10°♋27'14	29.29408 AU
direct	-9227 May 28 j 12:16	9°♋03'53	
evening set	-9227 Aug 24 j 11:04	10°♋57'57	
conjunction	-9227 Sep 08 j 10:05	11°♋31'41	2°35'43
minimum elong	-9227 Sep 08 j 10:05	11°♋31'41	2°36'17
max. Earth dist.	-9227 Sep 08 j 11:42	11°♋31'50	31.28963 AU
morning rise	-9227 Sep 23 j 09:42	12°♋05'29	
retrograde	-9227 Dec 21 j 07:24	14°♋01'01	
opposition	-9226 Mar 11 j 17:27	12°♋38'02	2°46'19
min. Earth dist.	-9226 Mar 11 j 15:03	12°♋38'12	29.28933 AU
direct	-9226 May 30 j 22:15	11°♋14'53	
evening set	-9226 Aug 26 j 20:02	13°♋08'52	
conjunction	-9226 Sep 10 j 19:13	13°♋42'36	2°35'32
minimum elong	-9226 Sep 10 j 19:13	13°♋42'36	2°36'06
max. Earth dist.	-9226 Sep 10 j 22:29	13°♋42'55	31.28416 AU
morning rise	-9226 Sep 25 j 18:49	14°♋16'25	
retrograde	-9226 Dec 23 j 19:07	16°♋12'05	
opposition	-9225 Mar 14 j 06:35	14°♋49'01	2°46'00
min. Earth dist.	-9225 Mar 14 j 03:05	14°♋49'15	29.28307 AU
direct	-9225 Jun 02 j 10:43	13°♋25'54	
evening set	-9225 Aug 29 j 05:01	15°♋19'47	
conjunction	-9225 Sep 13 j 04:05	15°♋53'32	2°35'08
minimum elong	-9225 Sep 13 j 04:06	15°♋53'32	2°35'41
max. Earth dist.	-9225 Sep 13 j 07:02	15°♋53'48	31.27732 AU
morning rise	-9225 Sep 28 j 04:04	16°♋27'21	
retrograde	-9225 Dec 26 j 08:36	18°♋23'08	
opposition	-9224 Mar 15 j 19:44	16°♋59'59	2°45'27
min. Earth dist.	-9224 Mar 15 j 15:21	17°♋00'16	29.27566 AU
direct	-9224 Jun 03 j 21:11	15°♋36'52	
evening set	-9224 Aug 30 j 13:52	17°♋30'39	
conjunction	-9224 Sep 14 j 13:13	18°♋04'24	2°34'30
minimum elong	-9224 Sep 14 j 13:13	18°♋04'24	2°35'04
max. Earth dist.	-9224 Sep 14 j 17:57	18°♋04'51	31.26938 AU
morning rise	-9224 Sep 29 j 13:17	18°♋38'15	
retrograde	-9224 Dec 27 j 18:54	20°♋34'08	
opposition	-9223 Mar 18 j 08:40	19°♋10'52	2°44'40
min. Earth dist.	-9223 Mar 18 j 03:53	19°♋11'12	29.26733 AU
direct	-9223 Jun 06 j 09:22	17°♋47'46	
evening set	-9223 Sep 01 j 22:47	19°♋41'26	
conjunction	-9223 Sep 16 j 22:08	20°♋15'12	2°33'39
minimum elong	-9223 Sep 16 j 22:08	20°♋15'12	2°34'13
max. Earth dist.	-9223 Sep 17 j 03:03	20°♋15'40	31.26096 AU
morning rise	-9223 Oct 01 j 22:36	20°♋49'04	
retrograde	-9223 Dec 30 j 07:19	22°♋45'02	
opposition	-9222 Mar 20 j 21:35	21°♋21'41	2°43'39
min. Earth dist.	-9222 Mar 20 j 15:06	21°♋22'07	29.25886 AU
direct	-9222 Jun 08 j 21:25	19°♋58'35	
evening set	-9222 Sep 04 j 07:28	21°♋52'09	
conjunction	-9222 Sep 19 j 07:01	22°♋25'56	2°32'35
minimum elong	-9222 Sep 19 j 07:01	22°♋25'56	2°33'09
max. Earth dist.	-9222 Sep 19 j 13:35	22°♋26'33	31.25252 AU
morning rise	-9222 Oct 04 j 07:41	22°♋59'49	
retrograde	-9221 Jan 01 j 18:19	24°♋55'55	
opposition	-9221 Mar 23 j 10:38	23°♋32'27	2°42'24
min. Earth dist.	-9221 Mar 23 j 03:55	23°♋32'55	29.25074 AU
direct	-9221 Jun 11 j 09:11	22°♋09'23	
evening set	-9221 Sep 06 j 16:16	24°♋02'51	
conjunction	-9221 Sep 21 j 15:59	24°♋36'38	2°31'18
minimum elong	-9221 Sep 21 j 15:59	24°♋36'38	2°31'51
max. Earth dist.	-9221 Sep 21 j 23:37	24°♋37'21	31.24494 AU
morning rise	-9221 Oct 06 j 16:59	25°♋10'34	

Attention, astronomical year style is used: The year -9220 in astronomical counting style is the year 9221 BCE in historical counting style.

retrograde	-9220 Jan 04 j 05:23	27°♓06'46	
opposition	-9220 Mar 24 j 23:29	25°♓43'14	2°40'54
min. Earth dist.	-9220 Mar 24 j 14:26	25°♓43'51	29.24360 AU
direct	-9220 Jun 12 j 20:34	24°♓20'11	
evening set	-9220 Sep 08 j 01:03	26°♓13'34	
conjunction	-9220 Sep 23 j 00:57	26°♓47'23	2°29'48
minimum elong	-9220 Sep 23 j 00:57	26°♓47'23	2°30'21
max. Earth dist.	-9220 Sep 23 j 09:27	26°♓48'11	31.23827 AU
morning rise	-9220 Oct 08 j 02:23	27°♓21'21	
retrograde	-9219 Jan 05 j 16:10	29°♓17'41	
opposition	-9219 Mar 27 j 12:28	27°♓54'06	2°39'11
min. Earth dist.	-9219 Mar 27 j 03:14	27°♓54'43	29.23746 AU
direct	-9219 Jun 15 j 06:26	26°♓31'06	
evening set	-9219 Sep 10 j 09:47	28°♓24'25	
conjunction	-9219 Sep 25 j 10:03	28°♓58'15	2°28'05
minimum elong	-9219 Sep 25 j 10:04	28°♓58'15	2°28'37
max. Earth dist.	-9219 Sep 25 j 20:17	28°♓59'13	31.23265 AU
morning rise	-9219 Oct 10 j 11:45	29°♓32'15	
	-9219 Oct 23 j 09:31	0°♌	
retrograde	-9218 Jan 08 j 03:25	1°♌28'43	
opposition	-9218 Mar 30 j 01:10	0°♌05'06	2°37'14
min. Earth dist.	-9218 Mar 29 j 13:58	0°♌05'52	29.23209 AU
	-9218 Apr 02 j 04:42	30°℞♓	
direct	-9218 Jun 17 j 16:51	28°♓42'10	
	-9218 Aug 27 j 01:57	0°♌	
evening set	-9218 Sep 12 j 18:42	0°♌35'25	
conjunction	-9218 Sep 27 j 19:06	1°♌09'17	2°26'09
minimum elong	-9218 Sep 27 j 19:06	1°♌09'17	2°26'41
max. Earth dist.	-9218 Sep 28 j 05:35	1°♌10'17	31.22766 AU
morning rise	-9218 Oct 12 j 21:23	1°♌43'19	
retrograde	-9217 Jan 10 j 16:22	3°♌39'57	
opposition	-9217 Apr 01 j 14:13	2°♌16'18	2°35'03
min. Earth dist.	-9217 Apr 01 j 02:41	2°♌17'04	29.22732 AU
direct	-9217 Jun 20 j 02:14	0°♌53'26	
evening set	-9217 Sep 15 j 03:25	2°♌46'37	
conjunction	-9217 Sep 30 j 04:19	3°♌20'31	2°24'00
minimum elong	-9217 Sep 30 j 04:20	3°♌20'31	2°24'31
max. Earth dist.	-9217 Sep 30 j 16:50	3°♌21'42	31.22298 AU
morning rise	-9217 Oct 15 j 06:54	3°♌54'36	
retrograde	-9216 Jan 13 j 04:36	5°♌51'22	
opposition	-9216 Apr 03 j 03:12	4°♌27'41	2°32'38
min. Earth dist.	-9216 Apr 02 j 14:30	4°♌28'32	29.22245 AU
direct	-9216 Jun 21 j 13:26	3°♌04'53	
evening set	-9216 Sep 16 j 12:34	4°♌58'01	
conjunction	-9216 Oct 01 j 13:38	5°♌31'56	2°21'38
minimum elong	-9216 Oct 01 j 13:39	5°♌31'57	2°22'09
max. Earth dist.	-9216 Oct 02 j 01:52	5°♌33'06	31.21801 AU
morning rise	-9216 Oct 16 j 16:52	6°♌06'04	
retrograde	-9215 Jan 14 j 18:37	8°♌02'58	
opposition	-9215 Apr 05 j 16:05	6°♌39'15	2°30'00
min. Earth dist.	-9215 Apr 05 j 02:39	6°♌40'09	29.21717 AU
direct	-9215 Jun 23 j 22:30	5°♌16'30	
evening set	-9215 Sep 18 j 21:38	7°♌09'35	
conjunction	-9215 Oct 03 j 23:13	7°♌43'33	2°19'04
minimum elong	-9215 Oct 03 j 23:14	7°♌43'33	2°19'33
max. Earth dist.	-9215 Oct 04 j 13:00	7°♌44'51	31.21224 AU
morning rise	-9215 Oct 19 j 02:48	8°♌17'43	
retrograde	-9214 Jan 17 j 06:16	10°♌14'44	
opposition	-9214 Apr 08 j 05:07	8°♌50'58	2°27'08
min. Earth dist.	-9214 Apr 07 j 15:29	8°♌51'54	29.21078 AU
direct	-9214 Jun 26 j 10:10	7°♌28'17	
evening set	-9214 Sep 21 j 06:47	9°♌21'17	
conjunction	-9214 Oct 06 j 08:40	9°♌55'16	2°16'18
minimum elong	-9214 Oct 06 j 08:41	9°♌55'16	2°16'47
max. Earth dist.	-9214 Oct 06 j 22:23	9°♌56'34	31.20537 AU
morning rise	-9214 Oct 21 j 12:52	10°♌29'29	
retrograde	-9213 Jan 19 j 20:34	12°♌26'37	
opposition	-9213 Apr 10 j 18:10	11°♌02'47	2°24'04
min. Earth dist.	-9213 Apr 10 j 03:16	11°♌03'48	29.20319 AU
direct	-9213 Jun 28 j 22:12	9°♌40'06	
evening set	-9213 Sep 23 j 16:02	11°♌33'01	
conjunction	-9213 Oct 08 j 18:24	12°♌07'04	2°13'20
minimum elong	-9213 Oct 08 j 18:25	12°♌07'04	2°13'48
max. Earth dist.	-9213 Oct 09 j 09:03	12°♌08'27	31.19708 AU
morning rise	-9213 Oct 23 j 23:08	12°♌41'19	
retrograde	-9212 Jan 22 j 08:45	14°♌38'33	
opposition	-9212 Apr 12 j 07:15	13°♌14'37	2°20'48
min. Earth dist.	-9212 Apr 11 j 16:45	13°♌15'36	29.19419 AU
direct	-9212 Jun 30 j 09:46	11°♌51'57	
evening set	-9212 Sep 25 j 01:15	13°♌44'46	
conjunction	-9212 Oct 10 j 04:09	14°♌18'50	2°10'10
minimum elong	-9212 Oct 10 j 04:09	14°♌18'50	2°10'38
max. Earth dist.	-9212 Oct 10 j 19:20	14°♌20'16	31.18764 AU
morning rise	-9212 Oct 25 j 09:28	14°♌53'09	
	-9212 Oct 28 j 12:16	15°♌	
retrograde	-9211 Jan 23 j 20:31	16°♌50'26	
opposition	-9211 Apr 14 j 20:07	15°♌26'25	2°17'19
min. Earth dist.	-9211 Apr 14 j 04:00	15°♌27'30	29.18408 AU
	-9211 May 01 j 08:28	15°℞♌	
direct	-9211 Jul 02 j 21:49	14°♌03'43	
	-9211 Aug 30 j 16:26	15°♌	
evening set	-9211 Sep 27 j 10:31	15°♌56'26	
conjunction	-9211 Oct 12 j 13:48	16°♌30'32	2°06'49
minimum elong	-9211 Oct 12 j 13:49	16°♌30'32	2°07'15
max. Earth dist.	-9211 Oct 13 j 05:13	16°♌32'00	31.17713 AU
morning rise	-9211 Oct 27 j 19:48	17°♌04'54	
retrograde	-9210 Jan 26 j 07:40	19°♌02'15	
opposition	-9210 Apr 17 j 09:00	17°♌38'07	2°13'38
min. Earth dist.	-9210 Apr 16 j 17:13	17°♌39'11	29.17334 AU
direct	-9210 Jul 05 j 08:42	16°♌15'24	
evening set	-9210 Sep 29 j 19:40	18°♌08'00	
conjunction	-9210 Oct 14 j 23:35	18°♌42'09	2°03'17
minimum elong	-9210 Oct 14 j 23:36	18°♌42'09	2°03'43
max. Earth dist.	-9210 Oct 15 j 16:35	18°♌43'46	31.16647 AU
morning rise	-9210 Oct 30 j 06:05	19°♌16'33	
retrograde	-9209 Jan 28 j 19:06	21°♌13'58	
opposition	-9209 Apr 19 j 21:47	19°♌49'44	2°09'46
min. Earth dist.	-9209 Apr 19 j 04:13	19°♌50'56	29.16267 AU
direct	-9209 Jul 07 j 20:22	18°♌27'00	
evening set	-9209 Oct 02 j 04:55	20°♌19'30	
conjunction	-9209 Oct 17 j 09:12	20°♌53'41	1°59'35
minimum elong	-9209 Oct 17 j 09:13	20°♌53'41	1°59'59
max. Earth dist.	-9209 Oct 18 j 02:16	20°♌55'18	31.15612 AU
morning rise	-9209 Nov 01 j 16:31	21°♌28'08	
retrograde	-9208 Jan 31 j 07:17	23°♌25'38	
opposition	-9208 Apr 21 j 10:38	22°♌01'18	2°05'43
min. Earth dist.	-9208 Apr 20 j 16:53	22°♌02'31	29.15272 AU
direct	-9208 Jul 09 j 05:57	20°♌38'34	
evening set	-9208 Oct 03 j 14:11	22°♌30'59	
conjunction	-9208 Oct 18 j 19:12	23°♌05'12	1°55'42
minimum elong	-9208 Oct 18 j 19:13	23°♌05'12	1°56'06

Attention, astronomical year style is used: The year -9208 in astronomical counting style is the year 9209 BCE in historical counting style.

max. Earth dist.	-9208 Oct 19 j 14:14	23°♌07'00	31.14663 AU	
morning rise	-9208 Nov 03 j 03:00	23°♌39'43		
retrograde	-9207 Feb 01 j 18:31	25°♌37'17		
opposition	-9207 Apr 23 j 23:10	24°♌12'53	2°01'28	
min. Earth dist.	-9207 Apr 23 j 04:12	24°♌14'11	29.14360 AU	
direct	-9207 Jul 11 j 16:52	22°♌50'09		
evening set	-9207 Oct 05 j 23:37	24°♌42'31		
conjunction	-9207 Oct 21 j 05:02	25°♌16'47	1°51'39	
minimum elong	-9207 Oct 21 j 05:03	25°♌16'47	1°52'01	
max. Earth dist.	-9207 Oct 21 j 23:54	25°♌18'34	31.13815 AU	
morning rise	-9207 Nov 05 j 13:40	25°♌51'21		
retrograde	-9206 Feb 04 j 08:21	27°♌49'01		
opposition	-9206 Apr 26 j 11:52	26°♌24'34	1°57'03	
min. Earth dist.	-9206 Apr 25 j 15:58	26°♌25'55	29.13558 AU	
direct	-9206 Jul 14 j 01:37	25°♌01'52		
evening set	-9206 Oct 08 j 08:51	26°♌54'11		
conjunction	-9206 Oct 23 j 14:58	27°♌28'30	1°47'25	
minimum elong	-9206 Oct 23 j 14:59	27°♌28'30	1°47'48	
max. Earth dist.	-9206 Oct 24 j 11:37	27°♌30'27	31.13054 AU	
morning rise	-9206 Nov 08 j 00:10	28°♌03'08		
	-9205 Jan 30 j 09:52	0°♍		
retrograde	-9205 Feb 06 j 20:24	0°♍00'54		
	-9205 Feb 14 j 08:53	30°℞♌		
min. Earth dist.	-9205 Apr 28 j 04:17	28°♌37'48	29.12821 AU	
opposition	-9205 Apr 29 j 00:38	28°♌36'25	1°52'27	
direct	-9205 Jul 16 j 12:46	27°♌13'46		
evening set	-9205 Oct 10 j 18:25	29°♌06'03		
conjunction	-9205 Oct 26 j 01:06	29°♌40'25	1°43'02	
minimum elong	-9205 Oct 26 j 01:07	29°♌40'25	1°43'23	
max. Earth dist.	-9205 Oct 26 j 21:56	29°♌42'23	31.12363 AU	
	-9205 Nov 03 j 16:41	0°♍		
morning rise	-9205 Nov 10 j 11:05	0°♍15'06		
retrograde	-9204 Feb 09 j 11:27	2°♍12'59		
opposition	-9204 Apr 30 j 13:12	0°♍48'28	1°47'40	
min. Earth dist.	-9204 Apr 29 j 15:36	0°♍49'57	29.12137 AU	
	-9204 Jun 01 j 02:40	30°℞♌		
direct	-9204 Jul 17 j 23:44	29°♌25'52		
	-9204 Sep 01 j 01:17	0°♍		
evening set	-9204 Oct 12 j 04:05	1°♍18'07		
conjunction	-9204 Oct 27 j 11:23	1°♍52'33	1°38'29	
minimum elong	-9204 Oct 27 j 11:24	1°♍52'33	1°38'49	
max. Earth dist.	-9204 Oct 28 j 09:07	1°♍54'36	31.11676 AU	
morning rise	-9204 Nov 11 j 22:05	2°♍27'18		
retrograde	-9203 Feb 11 j 00:14	4°♍25'18		
min. Earth dist.	-9203 May 02 j 04:51	3°♍02'12	29.11432 AU	
opposition	-9203 May 03 j 01:55	3°♍00'46	1°42'43	
direct	-9203 Jul 20 j 10:28	1°♍38'13		
evening set	-9203 Oct 14 j 13:52	3°♍30'27		
conjunction	-9203 Oct 29 j 21:50	4°♍04'56	1°33'47	
minimum elong	-9203 Oct 29 j 21:51	4°♍04'56	1°34'05	
max. Earth dist.	-9203 Oct 30 j 20:06	4°♍07'02	31.10958 AU	
morning rise	-9203 Nov 14 j 09:10	4°♍39'45		
retrograde	-9202 Feb 13 j 13:28	6°♍37'50		
opposition	-9202 May 05 j 14:27	5°♍13'17	1°37'37	
min. Earth dist.	-9202 May 04 j 16:02	5°♍14'49	29.10667 AU	
direct	-9202 Jul 22 j 22:10	3°♍50'46		
evening set	-9202 Oct 16 j 23:55	5°♍42'59		
conjunction	-9202 Nov 01 j 08:23	6°♍17'31	1°28'57	
minimum elong	-9202 Nov 01 j 08:24	6°♍17'31	1°29'15	
max. Earth dist.	-9202 Nov 02 j 06:27	6°♍19'36	31.10147 AU	
morning rise	-9202 Nov 16 j 20:32	6°♍52'24		

retrograde	-9201 Feb 16 j 02:23	8°♍50'35		
min. Earth dist.	-9201 May 07 j 05:35	7°♍27'29	29.09800 AU	
opposition	-9201 May 08 j 03:14	7°♍26'00	1°32'23	
direct	-9201 Jul 25 j 08:54	6°♍03'30		
evening set	-9201 Oct 19 j 09:53	7°♍55'41		
conjunction	-9201 Nov 03 j 19:11	8°♍30'16	1°23'59	
minimum elong	-9201 Nov 03 j 19:12	8°♍30'16	1°24'15	
max. Earth dist.	-9201 Nov 04 j 18:16	8°♍32'27	31.09226 AU	
morning rise	-9201 Nov 19 j 07:57	9°♍05'12		
retrograde	-9200 Feb 18 j 15:04	11°♍03'28		
opposition	-9200 May 09 j 15:51	9°♍38'50	1°27'00	
min. Earth dist.	-9200 May 08 j 17:08	9°♍40'23	29.08794 AU	
direct	-9200 Jul 26 j 20:53	8°♍16'20		
evening set	-9200 Oct 20 j 20:13	10°♍08'28		
conjunction	-9200 Nov 05 j 06:01	10°♍43'06	1°18'53	
minimum elong	-9200 Nov 05 j 06:02	10°♍43'06	1°19'09	
max. Earth dist.	-9200 Nov 06 j 04:16	10°♍45'12	31.08161 AU	
morning rise	-9200 Nov 20 j 19:41	11°♍18'07		
retrograde	-9199 Feb 20 j 03:03	13°♍16'26		
min. Earth dist.	-9199 May 11 j 06:17	11°♍53'14	29.07666 AU	
opposition	-9199 May 12 j 04:23	11°♍51'43	1°21'29	
direct	-9199 Jul 29 j 06:41	10°♍29'11		
evening set	-9199 Oct 23 j 06:21	12°♍21'16		
conjunction	-9199 Nov 07 j 17:00	12°♍55'57	1°13'41	
minimum elong	-9199 Nov 07 j 17:00	12°♍55'57	1°13'54	
max. Earth dist.	-9199 Nov 08 j 16:34	12°♍58'11	31.06986 AU	
morning rise	-9199 Nov 23 j 07:14	13°♍31'00		
retrograde	-9198 Feb 22 j 13:54	15°♍29'22		
opposition	-9198 May 14 j 16:52	14°♍04'34	1°15'52	
min. Earth dist.	-9198 May 13 j 18:10	14°♍06'08	29.06439 AU	
direct	-9198 Jul 31 j 17:53	12°♍42'00		
evening set	-9198 Oct 25 j 16:32	14°♍34'01		
conjunction	-9198 Nov 10 j 03:42	15°♍08'45	1°08'22	
minimum elong	-9198 Nov 10 j 03:42	15°♍08'45	1°08'35	
max. Earth dist.	-9198 Nov 11 j 02:40	15°♍10'55	31.05754 AU	
morning rise	-9198 Nov 25 j 18:50	15°♍43'51		
retrograde	-9197 Feb 25 j 03:33	17°♍42'15		
min. Earth dist.	-9197 May 16 j 06:18	16°♍18'56	29.05202 AU	
opposition	-9197 May 17 j 05:22	16°♍17'21	1°10'07	
direct	-9197 Aug 03 j 02:59	14°♍54'43		
evening set	-9197 Oct 28 j 02:49	16°♍46'41		
conjunction	-9197 Nov 12 j 14:45	17°♍21'28	1°02'57	
minimum elong	-9197 Nov 12 j 14:46	17°♍21'29	1°03'08	
max. Earth dist.	-9197 Nov 13 j 15:03	17°♍23'46	31.04524 AU	
morning rise	-9197 Nov 28 j 06:31	17°♍56'38		
retrograde	-9196 Feb 27 j 14:56	19°♍55'04		
opposition	-9196 May 18 j 17:36	18°♍30'04	1°04'17	
min. Earth dist.	-9196 May 17 j 18:27	18°♍31'40	29.03994 AU	
direct	-9196 Aug 04 j 14:22	17°♍07'23		
evening set	-9196 Oct 29 j 13:14	18°♍59'19		
conjunction	-9196 Nov 14 j 01:48	19°♍34'09	0°57'26	
minimum elong	-9196 Nov 14 j 01:48	19°♍34'09	0°57'37	
max. Earth dist.	-9196 Nov 15 j 02:04	19°♍36'26	31.03370 AU	
morning rise	-9196 Nov 29 j 18:21	20°♍09'22		
retrograde	-9195 Mar 01 j 05:26	22°♍07'49		
min. Earth dist.	-9195 May 20 j 05:32	20°♍44'25	29.02886 AU	
opposition	-9195 May 21 j 05:49	20°♍42'44	0°58'21	
direct	-9195 Aug 07 j 01:13	19°♍20'01		
evening set	-9195 Oct 31 j 23:38	21°♍11'56		
conjunction	-9195 Nov 16 j 12:49	21°♍46'49	0°51'51	

Attention, astronomical year style is used: The year -9195 in astronomical counting style is the year 9196 BCE in historical counting style.

minimum elong	-9195 Nov 16 j 12:49	21°♑46'49	0°51'59
max. Earth dist.	-9195 Nov 17 j 13:55	21°♑49'11	31.02308 AU
morning rise	-9195 Dec 02 j 06:02	22°♑22'05	
retrograde	-9194 Mar 03 j 17:25	24°♑20'35	
opposition	-9194 May 23 j 18:04	22°♑55'26	0°52'19
min. Earth dist.	-9194 May 22 j 18:10	22°♑57'05	29.01883 AU
direct	-9194 Aug 09 j 11:25	21°♑32'42	
evening set	-9194 Nov 03 j 10:06	23°♑24'35	
conjunction	-9194 Nov 19 j 00:02	23°♑59'32	0°46'10
minimum elong	-9194 Nov 19 j 00:03	23°♑59'32	0°46'18
max. Earth dist.	-9194 Nov 20 j 01:50	24°♑01'57	31.01381 AU
morning rise	-9194 Dec 04 j 17:56	24°♑34'51	
retrograde	-9193 Mar 06 j 07:38	26°♑33'23	
min. Earth dist.	-9193 May 25 j 04:48	25°♑09'58	29.01006 AU
opposition	-9193 May 26 j 06:09	25°♑08'13	0°46'12
direct	-9193 Aug 11 j 23:23	23°♑45'28	
evening set	-9193 Nov 05 j 20:48	25°♑37'21	
conjunction	-9193 Nov 21 j 11:17	26°♑12'20	0°40'25
minimum elong	-9193 Nov 21 j 11:18	26°♑12'20	0°40'31
max. Earth dist.	-9193 Nov 22 j 13:00	26°♑14'46	31.00555 AU
morning rise	-9193 Dec 07 j 06:01	26°♑47'43	
retrograde	-9192 Mar 07 j 21:29	28°♑46'19	
opposition	-9192 May 27 j 18:23	27°♑21'06	0°40'01
min. Earth dist.	-9192 May 26 j 17:43	27°♑22'49	29.00223 AU
direct	-9192 Aug 13 j 10:17	25°♑58'22	
evening set	-9192 Nov 07 j 07:35	27°♑50'16	
conjunction	-9192 Nov 22 j 22:53	28°♑25'19	0°34'36
minimum elong	-9192 Nov 22 j 22:53	28°♑25'19	0°34'41
max. Earth dist.	-9192 Nov 24 j 01:43	28°♑27'50	30.99811 AU
morning rise	-9192 Dec 08 j 18:08	29°♑00'45	
	-9191 Jan 07 j 01:40	0°♎	
retrograde	-9191 Mar 10 j 10:29	0°♎59'23	
	-9191 May 14 j 10:59	30°℞♑	
min. Earth dist.	-9191 May 29 j 04:35	29°♑35'57	28.99490 AU
opposition	-9191 May 30 j 06:17	29°♑34'10	0°33'46
direct	-9191 Aug 15 j 22:22	28°♑11'26	
	-9191 Nov 08 j 05:57	0°♎	
evening set	-9191 Nov 09 j 18:41	0°♎03'21	
conjunction	-9191 Nov 25 j 10:26	0°♎38'27	0°28'43
minimum elong	-9191 Nov 25 j 10:26	0°♎38'27	0°28'46
max. Earth dist.	-9191 Nov 26 j 12:29	0°♎40'54	30.99094 AU
morning rise	-9191 Dec 11 j 06:30	1°♎13'57	
retrograde	-9190 Mar 12 j 23:14	3°♎12'39	
opposition	-9190 Jun 01 j 18:29	1°♎47'25	0°27'27
min. Earth dist.	-9190 May 31 j 17:27	1°♎49'09	28.98776 AU
direct	-9190 Aug 18 j 07:53	0°♎24'42	
evening set	-9190 Nov 12 j 05:40	2°♎16'38	
conjunction	-9190 Nov 27 j 22:13	2°♎51'47	0°22'48
minimum elong	-9190 Nov 27 j 22:13	2°♎51'47	0°22'51
max. Earth dist.	-9190 Nov 29 j 01:27	2°♎54'20	30.98363 AU
morning rise	-9190 Dec 13 j 18:47	3°♎27'19	
retrograde	-9189 Mar 15 j 11:05	5°♎26'05	
min. Earth dist.	-9189 Jun 03 j 05:18	4°♎02'35	28.98010 AU
opposition	-9189 Jun 04 j 06:33	4°♎00'50	0°21'05
direct	-9189 Aug 20 j 19:18	2°♎38'07	
evening set	-9189 Nov 14 j 17:10	4°♎30'05	
conjunction	-9189 Nov 30 j 10:13	5°♎05'16	0°16'51
minimum elong	-9189 Nov 30 j 10:13	5°♎05'16	0°16'51
max. Earth dist.	-9189 Dec 01 j 12:12	5°♎07'43	30.97567 AU
morning rise	-9189 Dec 16 j 07:35	5°♎40'52	
retrograde	-9188 Mar 17 j 01:11	7°♎39'40	
opposition	-9188 Jun 05 j 18:33	6°♎14'24	0°14'42
min. Earth dist.	-9188 Jun 04 j 17:36	6°♎16'08	28.97169 AU
direct	-9188 Aug 22 j 04:36	4°♎51'39	
evening set	-9188 Nov 16 j 04:43	6°♎43'39	
conjunction	-9188 Dec 01 j 22:28	7°♎18'53	0°10'52
minimum elong	-9188 Dec 01 j 22:29	7°♎18'53	0°10'52
behind sun begin	-9188 Dec 01 j 17:32	7°♎18'27	
behind sun end	-9188 Dec 02 j 03:25	7°♎19'20	
max. Earth dist.	-9188 Dec 03 j 01:00	7°♎21'23	30.96665 AU
morning rise	-9188 Dec 17 j 20:20	7°♎54'32	
retrograde	-9187 Mar 19 j 12:26	9°♎53'21	
min. Earth dist.	-9187 Jun 07 j 06:11	8°♎29'45	28.96211 AU
opposition	-9187 Jun 08 j 06:34	8°♎28'03	0°08'17
direct	-9187 Aug 24 j 15:53	7°♎05'16	
evening set	-9187 Nov 18 j 16:13	8°♎57'17	
conjunction	-9187 Dec 04 j 10:32	9°♎32'33	0°04'53
minimum elong	-9187 Dec 04 j 10:32	9°♎32'33	0°04'51
behind sun begin	-9187 Dec 04 j 04:12	9°♎31'59	
behind sun end	-9187 Dec 04 j 16:53	9°♎33'07	
max. Earth dist.	-9187 Dec 05 j 12:19	9°♎34'58	30.95673 AU
morning rise	-9187 Dec 20 j 09:04	10°♎08'14	
retrograde	-9186 Mar 22 j 02:29	12°♎07'04	
opposition	-9186 Jun 10 j 18:30	10°♎41'43	0°01'51
min. Earth dist.	-9186 Jun 09 j 17:42	10°♎43'27	28.95179 AU
direct	-9186 Aug 27 j 02:43	9°♎18'52	
desc. node	-9186 Sep 23 j 13:40	9°♎31'56	
evening set	-9186 Nov 21 j 03:55	11°♎10'54	
conjunction	-9186 Dec 06 j 22:47	11°♎46'13	-0°01'15
minimum elong	-9186 Dec 06 j 22:49	11°♎46'13	0°01'17
behind sun begin	-9186 Dec 06 j 16:18	11°♎45'38	
behind sun end	-9186 Dec 07 j 05:19	11°♎46'48	
max. Earth dist.	-9186 Dec 08 j 00:44	11°♎48'39	30.94610 AU
morning rise	-9186 Dec 22 j 21:56	12°♎21'57	
retrograde	-9185 Mar 24 j 14:22	14°♎20'47	
min. Earth dist.	-9185 Jun 12 j 06:39	12°♎57'01	28.94109 AU
opposition	-9185 Jun 13 j 06:22	12°♎55'22	-0°04'35
direct	-9185 Aug 29 j 12:57	11°♎32'27	
evening set	-9185 Nov 23 j 15:36	13°♎24'30	
conjunction	-9185 Dec 09 j 11:12	13°♎59'52	-0°07'16
minimum elong	-9185 Dec 09 j 11:12	13°♎59'52	0°07'21
behind sun begin	-9185 Dec 09 j 05:14	13°♎59'20	
behind sun end	-9185 Dec 09 j 17:09	14°♎00'24	
max. Earth dist.	-9185 Dec 10 j 13:13	14°♎02'18	30.93556 AU
morning rise	-9185 Dec 25 j 10:52	14°♎35'38	
retrograde	-9184 Mar 26 j 04:46	16°♎34'27	
opposition	-9184 Jun 14 j 18:02	15°♎08'59	-0°11'00
min. Earth dist.	-9184 Jun 13 j 17:25	15°♎10'42	28.93070 AU
direct	-9184 Aug 31 j 01:28	13°♎46'00	
evening set	-9184 Nov 25 j 03:33	15°♎38'05	
conjunction	-9184 Dec 10 j 23:32	16°♎13'29	-0°13'15
minimum elong	-9184 Dec 10 j 23:32	16°♎13'29	0°13'20
behind sun begin	-9184 Dec 10 j 19:50	16°♎13'09	
behind sun end	-9184 Dec 11 j 03:15	16°♎13'49	
max. Earth dist.	-9184 Dec 12 j 01:03	16°♎15'52	30.92541 AU
morning rise	-9184 Dec 26 j 23:49	16°♎49'17	
retrograde	-9183 Mar 28 j 18:26	18°♎48'06	
min. Earth dist.	-9183 Jun 16 j 06:03	17°♎24'14	28.92113 AU
opposition	-9183 Jun 17 j 05:41	17°♎22'35	-0°17'24
direct	-9183 Sep 02 j 12:41	15°♎59'33	
evening set	-9183 Nov 27 j 15:23	17°♎51'40	
conjunction	-9183 Dec 13 j 12:04	18°♎27'07	-0°19'13

Attention, astronomical year style is used: The year -9183 in astronomical counting style is the year 9184 BCE in historical counting style.

minimum elong	-9183 Dec 13 j 12:04	18°♎27'07	0°19'20	
max. Earth dist.	-9183 Dec 14 j 14:30	18°♎29'35	30.91644 AU	
morning rise	-9183 Dec 29 j 12:43	19°♎02'57		
retrograde	-9182 Mar 31 j 07:34	21°♎01'46		
opposition	-9182 Jun 19 j 17:13	19°♎36'13	-0°23'47	
min. Earth dist.	-9182 Jun 18 j 16:34	19°♎37'57	28.91279 AU	
direct	-9182 Sep 05 j 01:13	18°♎13'09		
evening set	-9182 Nov 30 j 03:22	20°♎05'19		
conjunction	-9182 Dec 16 j 00:26	20°♎40'48	-0°25'10	
minimum elong	-9182 Dec 16 j 00:26	20°♎40'48	0°25'17	
max. Earth dist.	-9182 Dec 17 j 02:01	20°♎43'12	30.90879 AU	
morning rise	-9181 Jan 01 j 01:47	21°♎16'41		
retrograde	-9181 Apr 02 j 20:46	23°♎15'31		
min. Earth dist.	-9181 Jun 21 j 04:56	21°♎51'38	28.90593 AU	
opposition	-9181 Jun 22 j 04:54	21°♎49'57	-0°30'09	
direct	-9181 Sep 07 j 11:08	20°♎26'51		
evening set	-9181 Dec 02 j 15:30	22°♎19'05		
conjunction	-9181 Dec 18 j 13:16	22°♎54'37	-0°31'05	
minimum elong	-9181 Dec 18 j 13:15	22°♎54'36	0°31'14	
max. Earth dist.	-9181 Dec 19 j 15:59	22°♎57'07	30.90254 AU	
morning rise	-9180 Jan 03 j 14:55	23°♎30'31		
retrograde	-9180 Apr 04 j 09:29	25°♎29'21		
opposition	-9180 Jun 23 j 16:17	24°♎03'49	-0°36'27	
min. Earth dist.	-9180 Jun 22 j 16:04	24°♎05'31	28.90028 AU	
direct	-9180 Sep 08 j 22:54	22°♎40'42		
evening set	-9180 Dec 04 j 03:54	24°♎33'01		
conjunction	-9180 Dec 20 j 02:01	25°♎08'35	-0°36'58	
minimum elong	-9180 Dec 20 j 02:01	25°♎08'35	0°37'08	
max. Earth dist.	-9180 Dec 21 j 03:34	25°♎10'59	30.89751 AU	
morning rise	-9179 Jan 05 j 04:16	25°♎44'32		
retrograde	-9179 Apr 06 j 23:19	27°♎43'23		
min. Earth dist.	-9179 Jun 25 j 03:48	26°♎19'33	28.89580 AU	
opposition	-9179 Jun 26 j 03:50	26°♎17'52	-0°42'43	
direct	-9179 Sep 11 j 08:26	24°♎54'45		
evening set	-9179 Dec 06 j 16:13	26°♎47'09		
conjunction	-9179 Dec 22 j 14:53	27°♎22'45	-0°42'48	
minimum elong	-9179 Dec 22 j 14:52	27°♎22'45	0°43'00	
max. Earth dist.	-9179 Dec 23 j 17:11	27°♎25'13	30.89327 AU	
morning rise	-9178 Jan 07 j 17:25	27°♎58'44		
retrograde	-9178 Apr 09 j 10:10	29°♎57'36		
opposition	-9178 Jun 28 j 15:22	28°♎32'07	-0°48'55	
min. Earth dist.	-9178 Jun 27 j 15:55	28°♎33'46	28.89182 AU	
direct	-9178 Sep 13 j 19:26	27°♎09'00		
evening set	-9178 Dec 09 j 04:56	29°♎01'30		
conjunction	-9178 Dec 25 j 04:01	29°♎37'08	-0°48'34	
minimum elong	-9178 Dec 25 j 04:01	29°♎37'08	0°48'47	
max. Earth dist.	-9178 Dec 26 j 05:20	29°♎39'30	30.88949 AU	
	-9177 Jan 04 j 08:25	0°♏		
morning rise	-9177 Jan 10 j 07:02	0°♏13'08		
retrograde	-9177 Apr 12 j 00:12	2°♏12'02		
min. Earth dist.	-9177 Jun 30 j 03:14	0°♏48'14	28.88805 AU	
opposition	-9177 Jul 01 j 02:45	0°♏46'35	-0°55'04	
	-9177 Jul 30 j 09:40	30°℞♎		
direct	-9177 Sep 16 j 05:31	29°♎23'26		
	-9177 Nov 01 j 19:36	0°♏		
evening set	-9177 Dec 11 j 17:55	1°♏16'03		
conjunction	-9177 Dec 27 j 17:25	1°♏51'42	-0°54'16	
minimum elong	-9177 Dec 27 j 17:25	1°♏51'42	0°54'31	
max. Earth dist.	-9177 Dec 28 j 18:28	1°♏54'03	30.88537 AU	
morning rise	-9176 Jan 12 j 20:47	2°♏27'44		
retrograde	-9176 Apr 13 j 12:19	4°♏26'38		
opposition	-9176 Jul 02 j 14:20	3°♏01'12	-1°01'07	
min. Earth dist.	-9176 Jul 01 j 16:22	3°♏02'45	28.88368 AU	
direct	-9176 Sep 17 j 15:09	1°♏38'02		
evening set	-9176 Dec 13 j 06:58	3°♏30'44		
conjunction	-9176 Dec 29 j 06:56	4°♏06'25	-0°59'54	
minimum elong	-9176 Dec 29 j 06:56	4°♏06'25	1°00'09	
max. Earth dist.	-9176 Dec 30 j 07:20	4°♏08'42	30.88059 AU	
morning rise	-9175 Jan 14 j 10:35	4°♏42'28		
retrograde	-9175 Apr 16 j 02:17	6°♏41'21		
min. Earth dist.	-9175 Jul 04 j 03:27	5°♏17'30	28.87844 AU	
opposition	-9175 Jul 05 j 01:42	5°♏15'56	-1°07'05	
direct	-9175 Sep 20 j 04:01	3°♏52'41		
evening set	-9175 Dec 15 j 20:12	5°♏45'28		
conjunction	-9175 Dec 31 j 20:27	6°♏21'11	-1°05'26	
minimum elong	-9175 Dec 31 j 20:27	6°♏21'11	1°05'43	
max. Earth dist.	-9174 Jan 01 j 19:36	6°♏23'21	30.87478 AU	
morning rise	-9174 Jan 17 j 00:31	6°♏57'15		
retrograde	-9174 Apr 18 j 15:22	8°♏56'06		
opposition	-9174 Jul 07 j 13:14	7°♏30'40	-1°12'57	
min. Earth dist.	-9174 Jul 06 j 16:37	7°♏32'07	28.87231 AU	
direct	-9174 Sep 22 j 15:17	6°♏07'21		
evening set	-9174 Dec 18 j 09:17	8°♏00'12		
conjunction	-9173 Jan 03 j 10:07	8°♏35'56	-1°10'52	
minimum elong	-9173 Jan 03 j 10:06	8°♏35'56	1°11'10	
max. Earth dist.	-9173 Jan 04 j 09:19	8°♏38'07	30.86829 AU	
morning rise	-9173 Jan 19 j 14:23	9°♏12'01		
retrograde	-9173 Apr 21 j 04:51	11°♏10'49		
min. Earth dist.	-9173 Jul 09 j 03:41	9°♏46'49	28.86548 AU	
opposition	-9173 Jul 10 j 00:33	9°♏45'21	-1°18'43	
direct	-9173 Sep 25 j 04:28	8°♏21'57		
evening set	-9173 Dec 20 j 22:46	10°♏14'52		
conjunction	-9172 Jan 05 j 23:48	10°♏50'37	-1°16'12	
minimum elong	-9172 Jan 05 j 23:47	10°♏50'37	1°16'32	
max. Earth dist.	-9172 Jan 06 j 21:22	10°♏52'38	30.86127 AU	
morning rise	-9172 Jan 22 j 04:30	11°♏26'43		
retrograde	-9172 Apr 22 j 18:32	13°♏25'26		
opposition	-9172 Jul 11 j 11:45	11°♏59'57	-1°24'21	
min. Earth dist.	-9172 Jul 10 j 16:14	12°♏01'19	28.85860 AU	
direct	-9172 Sep 26 j 15:25	10°♏36'27		
evening set	-9172 Dec 22 j 12:05	12°♏29'26		
conjunction	-9171 Jan 07 j 13:37	13°♏05'13	-1°21'24	
minimum elong	-9171 Jan 07 j 13:36	13°♏05'13	1°21'44	
max. Earth dist.	-9171 Jan 08 j 11:50	13°♏07'18	30.85445 AU	
morning rise	-9171 Jan 23 j 18:23	13°♏41'19		
	-9171 Mar 05 j 23:49	15°♏		
retrograde	-9171 Apr 25 j 07:39	15°♏39'58		
	-9171 Jun 15 j 14:25	15°℞♏		
opposition	-9171 Jul 13 j 22:53	14°♏14'27	-1°29'51	
min. Earth dist.	-9171 Jul 13 j 03:29	14°♏15'49	28.85210 AU	
direct	-9171 Sep 29 j 04:32	12°♏50'53		
evening set	-9171 Dec 25 j 01:28	14°♏43'56		
	-9170 Jan 01 j 07:57	15°♏		
conjunction	-9170 Jan 10 j 03:10	15°♏19'44	-1°26'30	
minimum elong	-9170 Jan 10 j 03:09	15°♏19'44	1°26'52	
max. Earth dist.	-9170 Jan 10 j 23:52	15°♏21'40	30.84836 AU	
morning rise	-9170 Jan 26 j 08:19	15°♏55'51		
retrograde	-9170 Apr 27 j 20:48	17°♏54'27		
opposition	-9170 Jul 16 j 10:03	16°♏28'55	-1°35'14	
min. Earth dist.	-9170 Jul 15 j 15:04	16°♏30'15	28.84666 AU	
direct	-9170 Oct 01 j 15:17	15°♏05'15		
evening set	-9170 Dec 27 j 14:58	16°♏58'25		

Attention, astronomical year style is used: The year -9169 in astronomical counting style is the year 9170 BCE in historical counting style.

conjunction	-9169 Jan 12 j 17:05	17°♑34'14	-1°31'27	
minimum elong	-9169 Jan 12 j 17:04	17°♑34'13	1°31'49	
max. Earth dist.	-9169 Jan 13 j 14:18	17°♑36'13	30.84336 AU	
morning rise	-9169 Jan 28 j 22:17	18°♑10'21		
retrograde	-9169 Apr 30 j 08:02	20°♑08'53		
opposition	-9169 Jul 18 j 21:03	18°♑43'23	-1°40'27	
min. Earth dist.	-9169 Jul 18 j 02:46	18°♑44'40	28.84238 AU	
direct	-9169 Oct 04 j 02:47	17°♑19'40		
evening set	-9169 Dec 30 j 04:40	19°♑12'56		
conjunction	-9168 Jan 15 j 07:02	19°♑48'45	-1°36'16	
minimum elong	-9168 Jan 15 j 07:01	19°♑48'45	1°36'40	
max. Earth dist.	-9168 Jan 16 j 03:01	19°♑50'38	30.83977 AU	
morning rise	-9168 Jan 31 j 12:31	20°♑24'53		
retrograde	-9168 May 01 j 21:59	22°♑23'23		
opposition	-9168 Jul 20 j 08:04	20°♑57'54	-1°45'32	
min. Earth dist.	-9168 Jul 19 j 13:35	20°♑59'13	28.83953 AU	
direct	-9168 Oct 05 j 13:17	19°♑34'08		
evening set	-9168 Dec 31 j 18:23	21°♑27'32		
conjunction	-9167 Jan 16 j 20:59	22°♑03'23	-1°40'57	
minimum elong	-9167 Jan 16 j 20:58	22°♑03'23	1°41'21	
max. Earth dist.	-9167 Jan 17 j 16:58	22°♑05'15	30.83738 AU	
morning rise	-9167 Feb 02 j 02:33	22°♑39'31		
retrograde	-9167 May 04 j 09:18	24°♑37'59		
opposition	-9167 Jul 22 j 19:08	23°♑12'34	-1°50'27	
min. Earth dist.	-9167 Jul 22 j 01:59	23°♑13'47	28.83783 AU	
direct	-9167 Oct 07 j 22:53	21°♑48'47		
evening set	-9166 Jan 03 j 08:11	23°♑42'19		
conjunction	-9166 Jan 19 j 11:06	24°♑18'10	-1°45'28	
minimum elong	-9166 Jan 19 j 11:05	24°♑18'10	1°45'54	
max. Earth dist.	-9166 Jan 20 j 06:29	24°♑19'59	30.83626 AU	
morning rise	-9166 Feb 04 j 16:48	24°♑54'19		
retrograde	-9166 May 06 j 22:42	26°♑52'45		
opposition	-9166 Jul 25 j 06:01	25°♑27'24	-1°55'12	
min. Earth dist.	-9166 Jul 24 j 12:33	25°♑28'39	28.83716 AU	
direct	-9166 Oct 10 j 11:19	24°♑03'35		
evening set	-9165 Jan 05 j 22:13	25°♑57'17		
conjunction	-9165 Jan 22 j 01:17	26°♑33'09	-1°49'50	
minimum elong	-9165 Jan 22 j 01:16	26°♑33'09	1°50'16	
max. Earth dist.	-9165 Jan 22 j 19:35	26°♑34'52	30.83575 AU	
morning rise	-9165 Feb 07 j 07:11	27°♑09'19		
retrograde	-9165 May 09 j 11:18	29°♑07'43		
opposition	-9165 Jul 27 j 17:07	27°♑42'27	-1°59'47	
min. Earth dist.	-9165 Jul 27 j 01:24	27°♑43'34	28.83690 AU	
direct	-9165 Oct 12 j 22:01	26°♑18'36		
evening set	-9164 Jan 08 j 12:25	28°♑12'27		
conjunction	-9164 Jan 24 j 15:49	28°♑48'21	-1°54'02	
minimum elong	-9164 Jan 24 j 15:49	28°♑48'21	1°54'30	
max. Earth dist.	-9164 Jan 25 j 09:48	28°♑50'02	30.83541 AU	
morning rise	-9164 Feb 09 j 21:41	29°♑24'30		
	-9164 Feb 26 j 19:17	0°♐		
retrograde	-9164 May 11 j 01:03	1°♐22'53		
	-9164 Jul 27 j 19:15	30°℞♑		
opposition	-9164 Jul 29 j 03:58	29°♑57'41	-2°04'11	
min. Earth dist.	-9164 Jul 28 j 12:19	29°♑58'47	28.83640 AU	
direct	-9164 Oct 14 j 10:44	28°♑33'48		
	-9164 Dec 27 j 23:37	0°♐		
evening set	-9163 Jan 10 j 02:52	0°♐27'49		
conjunction	-9163 Jan 26 j 06:18	1°♐03'43	-1°58'04	
minimum elong	-9163 Jan 26 j 06:17	1°♐03'43	1°58'31	
max. Earth dist.	-9163 Jan 26 j 22:16	1°♐05'13	30.83453 AU	
morning rise	-9163 Feb 11 j 12:21	1°♐39'53		
retrograde	-9163 May 13 j 15:12	3°♐38'12		
opposition	-9163 Jul 31 j 15:06	2°♐13'03	-2°08'23	
min. Earth dist.	-9163 Jul 31 j 01:06	2°♐14'03	28.83530 AU	
direct	-9163 Oct 16 j 21:58	0°♐49'08		
evening set	-9162 Jan 12 j 17:04	2°♐43'16		
conjunction	-9162 Jan 28 j 20:52	3°♐19'12	-2°01'55	
minimum elong	-9162 Jan 28 j 20:51	3°♐19'12	2°02'23	
max. Earth dist.	-9162 Jan 29 j 12:50	3°♐20'41	30.83288 AU	
morning rise	-9162 Feb 14 j 02:48	3°♐55'21		
retrograde	-9162 May 16 j 04:52	5°♐53'36		
opposition	-9162 Aug 03 j 02:06	4°♐28'29	-2°12'24	
min. Earth dist.	-9162 Aug 02 j 12:47	4°♐29'26	28.83316 AU	
direct	-9162 Oct 19 j 11:58	3°♐04'30		
evening set	-9161 Jan 15 j 07:39	4°♐58'45		
conjunction	-9161 Jan 31 j 11:29	5°♐34'41	-2°05'34	
minimum elong	-9161 Jan 31 j 11:28	5°♐34'41	2°06'03	
max. Earth dist.	-9161 Feb 01 j 01:07	5°♐35'58	30.83029 AU	
morning rise	-9161 Feb 16 j 17:39	6°♐10'50		
retrograde	-9161 May 18 j 18:08	8°♐09'00		
opposition	-9161 Aug 05 j 12:59	6°♐43'54	-2°16'13	
min. Earth dist.	-9161 Aug 05 j 00:45	6°♐44'46	28.83029 AU	
direct	-9161 Oct 21 j 23:35	5°♐19'49		
evening set	-9160 Jan 17 j 22:09	7°♐14'11		
conjunction	-9160 Feb 03 j 02:18	7°♐50'07	-2°09'02	
minimum elong	-9160 Feb 03 j 02:17	7°♐50'07	2°09'33	
max. Earth dist.	-9160 Feb 03 j 15:48	7°♐51'23	30.82700 AU	
morning rise	-9160 Feb 19 j 08:19	8°♐26'16		
retrograde	-9160 May 20 j 06:15	10°♐24'18		
opposition	-9160 Aug 06 j 23:52	8°♐59'13	-2°19'49	
min. Earth dist.	-9160 Aug 06 j 12:52	9°♐00'00	28.82686 AU	
direct	-9160 Oct 23 j 12:12	7°♐35'03		
evening set	-9159 Jan 19 j 12:37	9°♐29'30		
conjunction	-9159 Feb 04 j 16:47	10°♐05'26	-2°12'19	
minimum elong	-9159 Feb 04 j 16:46	10°♐05'26	2°12'49	
max. Earth dist.	-9159 Feb 05 j 04:28	10°♐06'32	30.82358 AU	
morning rise	-9159 Feb 20 j 22:55	10°♐41'34		
retrograde	-9159 May 22 j 20:13	12°♐39'29		
opposition	-9159 Aug 09 j 10:35	11°♐14'24	-2°23'12	
min. Earth dist.	-9159 Aug 08 j 23:45	11°♐15'11	28.82366 AU	
direct	-9159 Oct 25 j 23:46	9°♐50'07		
evening set	-9158 Jan 22 j 03:04	11°♐44'40		
conjunction	-9158 Feb 07 j 07:25	12°♐20'37	-2°15'23	
minimum elong	-9158 Feb 07 j 07:25	12°♐20'36	2°15'55	
max. Earth dist.	-9158 Feb 07 j 18:52	12°♐21'41	30.82051 AU	
morning rise	-9158 Feb 23 j 13:28	12°♐56'44		
retrograde	-9158 May 25 j 06:32	14°♐54'32		
opposition	-9158 Aug 11 j 21:18	13°♐29'28	-2°26'22	
min. Earth dist.	-9158 Aug 11 j 12:05	13°♐30'07	28.82112 AU	
direct	-9158 Oct 28 j 10:22	12°♐05'04		
evening set	-9157 Jan 24 j 17:31	13°♐59'43		
conjunction	-9157 Feb 09 j 22:02	14°♐35'39	-2°18'14	
minimum elong	-9157 Feb 09 j 22:01	14°♐35'39	2°18'46	
max. Earth dist.	-9157 Feb 10 j 08:31	14°♐36'38	30.81851 AU	
morning rise	-9157 Feb 26 j 04:06	15°♐11'46		
retrograde	-9157 May 27 j 18:40	17°♐09'26		
opposition	-9157 Aug 14 j 07:53	15°♐44'23	-2°29'19	
min. Earth dist.	-9157 Aug 13 j 22:23	15°♐45'04	28.81973 AU	
direct	-9157 Oct 30 j 23:09	14°♐19'54		
evening set	-9156 Jan 27 j 08:07	16°♐14'40		
conjunction	-9156 Feb 12 j 12:39	16°♐50'36	-2°20'53	

Attention, astronomical year style is used: The year -9156 in astronomical counting style is the year 9157 BCE in historical counting style.

minimum elong	-9156 Feb 12 j 12:38	16°♐50'36	2°21'25	
max. Earth dist.	-9156 Feb 12 j 22:11	16°♐51'29	30.81763 AU	
morning rise	-9156 Feb 28 j 18:40	17°♐26'42		
retrograde	-9156 May 29 j 06:04	19°♐24'16		
opposition	-9156 Aug 15 j 18:33	17°♐59'15	-2°32'02	
min. Earth dist.	-9156 Aug 15 j 10:37	17°♐59'49	28.81973 AU	
direct	-9156 Nov 01 j 09:21	16°♐34'41		
evening set	-9155 Jan 28 j 22:34	18°♐29'34		
conjunction	-9155 Feb 14 j 03:19	19°♐05'30	-2°23'19	
minimum elong	-9155 Feb 14 j 03:18	19°♐05'30	2°23'51	
max. Earth dist.	-9155 Feb 14 j 12:37	19°♐06'22	30.81840 AU	
morning rise	-9155 Mar 02 j 09:12	19°♐41'35		
retrograde	-9155 May 31 j 18:28	21°♐39'02		
opposition	-9155 Aug 18 j 05:06	20°♐14'05	-2°34'31	
min. Earth dist.	-9155 Aug 17 j 20:51	20°♐14'41	28.82125 AU	
direct	-9155 Nov 03 j 21:54	18°♐49'28		
evening set	-9154 Jan 31 j 13:03	20°♐44'28		
conjunction	-9154 Feb 16 j 17:46	21°♐20'24	-2°25'32	
minimum elong	-9154 Feb 16 j 17:45	21°♐20'24	2°26'05	
max. Earth dist.	-9154 Feb 17 j 01:32	21°♐21'08	30.82060 AU	
morning rise	-9154 Mar 04 j 23:43	21°♐56'28		
retrograde	-9154 Jun 03 j 07:06	23°♐53'50		
opposition	-9154 Aug 20 j 15:46	22°♐28'57	-2°36'45	
min. Earth dist.	-9154 Aug 20 j 08:53	22°♐29'27	28.82421 AU	
direct	-9154 Nov 06 j 09:18	21°♐04'18		
evening set	-9153 Feb 03 j 03:40	22°♐59'26		
conjunction	-9153 Feb 19 j 08:38	23°♐35'23	-2°27'31	
minimum elong	-9153 Feb 19 j 08:38	23°♐35'23	2°28'04	
max. Earth dist.	-9153 Feb 19 j 16:35	23°♐36'07	30.82405 AU	
morning rise	-9153 Mar 07 j 14:22	24°♐11'26		
retrograde	-9153 Jun 05 j 19:46	26°♐08'42		
opposition	-9153 Aug 23 j 02:14	24°♐43'55	-2°38'46	
min. Earth dist.	-9153 Aug 22 j 19:56	24°♐44'22	28.82803 AU	
direct	-9153 Nov 08 j 22:56	23°♐19'14		
evening set	-9152 Feb 05 j 18:35	25°♐14'31		
conjunction	-9152 Feb 21 j 23:26	25°♐50'28	-2°29'17	
minimum elong	-9152 Feb 21 j 23:26	25°♐50'28	2°29'51	
max. Earth dist.	-9152 Feb 22 j 05:15	25°♐51'00	30.82816 AU	
morning rise	-9152 Mar 09 j 05:15	26°♐26'31		
retrograde	-9152 Jun 07 j 09:27	28°♐23'41		
opposition	-9152 Aug 24 j 12:53	26°♐58'59	-2°40'31	
min. Earth dist.	-9152 Aug 24 j 07:35	26°♐59'22	28.83236 AU	
direct	-9152 Nov 10 j 10:20	25°♐34'16		
evening set	-9151 Feb 07 j 09:16	27°♐29'43		
conjunction	-9151 Feb 23 j 14:19	28°♐05'40	-2°30'49	
minimum elong	-9151 Feb 23 j 14:18	28°♐05'40	2°31'22	
max. Earth dist.	-9151 Feb 23 j 20:03	28°♐06'12	30.83230 AU	
morning rise	-9151 Mar 11 j 19:49	28°♐41'41		
	-9151 Apr 22 j 00:05	0°♑		
retrograde	-9151 Jun 09 j 22:05	0°♑38'46		
	-9151 Jul 29 j 15:29	30°℞♐		
opposition	-9151 Aug 26 j 23:35	29°♐14'10	-2°42'02	
min. Earth dist.	-9151 Aug 26 j 19:38	29°♐14'27	28.83634 AU	
direct	-9151 Nov 12 j 23:20	27°♐49'26		
evening set	-9150 Feb 10 j 00:13	29°♐44'59		
	-9150 Feb 16 j 20:07	0°♑		
conjunction	-9150 Feb 26 j 05:12	0°♑20'57	-2°32'07	
minimum elong	-9150 Feb 26 j 05:12	0°♑20'57	2°32'41	
max. Earth dist.	-9150 Feb 26 j 08:37	0°♑21'16	30.83604 AU	
morning rise	-9150 Mar 14 j 10:46	0°♑56'58		
retrograde	-9150 Jun 12 j 12:18	2°♑53'55		
opposition	-9150 Aug 29 j 10:07	1°♑29'24	-2°43'18	
min. Earth dist.	-9150 Aug 29 j 06:42	1°♑29'39	28.83976 AU	
direct	-9150 Nov 15 j 11:31	0°♑04'36		
evening set	-9149 Feb 12 j 15:09	2°♑00'17		
conjunction	-9149 Feb 28 j 20:18	2°♑36'15	-2°33'11	
minimum elong	-9149 Feb 28 j 20:18	2°♑36'15	2°33'45	
max. Earth dist.	-9149 Feb 28 j 23:00	2°♑36'30	30.83891 AU	
morning rise	-9149 Mar 17 j 01:38	3°♑12'15		
retrograde	-9149 Jun 14 j 23:11	5°♑09'05		
opposition	-9149 Aug 31 j 20:52	3°♑44'38	-2°44'19	
min. Earth dist.	-9149 Aug 31 j 19:30	3°♑44'44	28.84223 AU	
direct	-9149 Nov 17 j 23:04	2°♑19'46		
evening set	-9148 Feb 15 j 06:06	4°♑15'33		
conjunction	-9148 Mar 02 j 11:15	4°♑51'31	-2°34'01	
minimum elong	-9148 Mar 02 j 11:15	4°♑51'31	2°34'36	
max. Earth dist.	-9148 Mar 02 j 12:16	4°♑51'36	30.84107 AU	
morning rise	-9148 Mar 18 j 16:31	5°♑27'30		
retrograde	-9148 Jun 16 j 11:40	7°♑24'11		
opposition	-9148 Sep 02 j 07:21	5°♑59'47	-2°45'05	
min. Earth dist.	-9148 Sep 02 j 06:09	5°♑59'52	28.84408 AU	
direct	-9148 Nov 19 j 11:59	4°♑34'50		
evening set	-9147 Feb 16 j 20:58	6°♑30'43		
conjunction	-9147 Mar 05 j 02:08	7°♑06'41	-2°34'37	
minimum elong	-9147 Mar 05 j 02:08	7°♑06'41	2°35'12	
max. Earth dist.	-9147 Mar 05 j 01:58	7°♑06'40	30.84270 AU	
morning rise	-9147 Mar 21 j 07:16	7°♑42'39		
retrograde	-9147 Jun 18 j 22:54	9°♑39'11		
opposition	-9147 Sep 04 j 17:58	8°♑14'49	-2°45'36	
min. Earth dist.	-9147 Sep 04 j 18:41	8°♑14'46	28.84577 AU	
direct	-9147 Nov 21 j 22:12	6°♑49'48		
evening set	-9146 Feb 19 j 11:33	8°♑45'45		
conjunction	-9146 Mar 07 j 16:52	9°♑21'43	-2°34'59	
minimum elong	-9146 Mar 07 j 16:52	9°♑21'43	2°35'34	
max. Earth dist.	-9146 Mar 07 j 16:00	9°♑21'38	30.84452 AU	
morning rise	-9146 Mar 23 j 21:52	9°♑57'40		
retrograde	-9146 Jun 21 j 10:15	11°♑54'02		
opposition	-9146 Sep 07 j 04:23	10°♑29'44	-2°45'52	
min. Earth dist.	-9146 Sep 07 j 05:07	10°♑29'41	28.84770 AU	
direct	-9146 Nov 24 j 11:12	9°♑04'37		
evening set	-9145 Feb 22 j 02:23	11°♑00'40		
conjunction	-9145 Mar 10 j 07:35	11°♑36'37	-2°35'08	
minimum elong	-9145 Mar 10 j 07:35	11°♑36'37	2°35'41	
max. Earth dist.	-9145 Mar 10 j 05:01	11°♑36'22	30.84675 AU	
morning rise	-9145 Mar 26 j 12:32	12°♑12'33		
retrograde	-9145 Jun 23 j 21:33	14°♑08'46		
opposition	-9145 Sep 09 j 14:48	12°♑44'30	-2°45'53	
min. Earth dist.	-9145 Sep 09 j 17:00	12°♑44'21	28.85048 AU	
direct	-9145 Nov 26 j 22:52	11°♑19'19		
evening set	-9144 Feb 24 j 17:00	13°♑15'27		
conjunction	-9144 Mar 11 j 22:22	13°♑51'24	-2°35'02	
minimum elong	-9144 Mar 11 j 22:22	13°♑51'24	2°35'35	
max. Earth dist.	-9144 Mar 11 j 19:56	13°♑51'10	30.85007 AU	
morning rise	-9144 Mar 28 j 03:01	14°♑27'18		
retrograde	-9144 Jun 25 j 09:02	16°♑23'23		
opposition	-9144 Sep 11 j 01:16	14°♑59'11	-2°45'39	
min. Earth dist.	-9144 Sep 11 j 03:50	14°♑59'00	28.85437 AU	
direct	-9144 Nov 28 j 12:37	13°♑33'55		
evening set	-9143 Feb 26 j 07:32	15°♑30'10		
conjunction	-9143 Mar 14 j 12:44	16°♑06'06	-2°34'41	
minimum elong	-9143 Mar 14 j 12:44	16°♑06'06	2°35'15	

Attention, astronomical year style is used: The year -9143 in astronomical counting style is the year 9144 BCE in historical counting style.

max. Earth dist.	-9143 Mar 14 j 08:30	16°♓05'42	30.85470 AU
morning rise	-9143 Mar 30 j 17:23	16°♓41'59	
retrograde	-9143 Jun 27 j 21:50	18°♓37'56	
opposition	-9143 Sep 13 j 11:43	17°♓13'47	-2°45'10
min. Earth dist.	-9143 Sep 13 j 14:52	17°♓13'34	28.85984 AU
direct	-9143 Nov 30 j 23:51	15°♓48'30	
evening set	-9142 Feb 28 j 21:59	17°♓44'50	
conjunction	-9142 Mar 17 j 03:22	18°♓20'46	-2°34'07
minimum elong	-9142 Mar 17 j 03:23	18°♓20'46	2°34'41
max. Earth dist.	-9142 Mar 16 j 23:31	18°♓20'24	30.86089 AU
morning rise	-9142 Apr 02 j 07:43	18°♓56'38	
retrograde	-9142 Jun 30 j 10:02	20°♓52'27	
opposition	-9142 Sep 15 j 22:05	19°♓28'24	-2°44'26
min. Earth dist.	-9142 Sep 16 j 02:15	19°♓28'06	28.86668 AU
direct	-9142 Dec 03 j 13:36	18°♓03'05	
evening set	-9141 Mar 03 j 12:40	19°♓59'31	
conjunction	-9141 Mar 19 j 17:55	20°♓35'27	-2°33'18
minimum elong	-9141 Mar 19 j 17:55	20°♓35'27	2°33'52
max. Earth dist.	-9141 Mar 19 j 12:07	20°♓34'55	30.86852 AU
morning rise	-9141 Apr 04 j 22:17	21°♓11'19	
retrograde	-9141 Jul 02 j 23:38	23°♓07'00	
opposition	-9141 Sep 18 j 08:30	21°♓43'03	-2°43'26
min. Earth dist.	-9141 Sep 18 j 12:45	21°♓42'44	28.87484 AU
direct	-9141 Dec 06 j 02:29	20°♓17'43	
evening set	-9140 Mar 05 j 03:12	22°♓14'16	
conjunction	-9140 Mar 21 j 08:31	22°♓50'12	-2°32'16
minimum elong	-9140 Mar 21 j 08:32	22°♓50'13	2°32'49
max. Earth dist.	-9140 Mar 21 j 02:40	22°♓49'40	30.87704 AU
morning rise	-9140 Apr 06 j 12:33	23°♓26'03	
retrograde	-9140 Jul 04 j 10:38	25°♓21'36	
opposition	-9140 Sep 19 j 19:01	23°♓57'47	-2°42'11
min. Earth dist.	-9140 Sep 20 j 01:03	23°♓57'21	28.88364 AU
direct	-9140 Dec 07 j 14:21	22°♓32'28	
evening set	-9139 Mar 07 j 17:49	24°♓29'07	
conjunction	-9139 Mar 23 j 23:03	25°♓05'03	-2°30'59
minimum elong	-9139 Mar 23 j 23:04	25°♓05'03	2°31'32
max. Earth dist.	-9139 Mar 23 j 15:38	25°♓04'21	30.88608 AU
morning rise	-9139 Apr 09 j 03:01	25°♓40'52	
retrograde	-9139 Jul 06 j 23:54	27°♓36'18	
opposition	-9139 Sep 22 j 05:27	26°♓12'35	-2°40'42
min. Earth dist.	-9139 Sep 22 j 11:33	26°♓12'09	28.89258 AU
direct	-9139 Dec 10 j 03:03	24°♓47'16	
evening set	-9138 Mar 10 j 08:23	26°♓44'00	
conjunction	-9138 Mar 26 j 13:38	27°♓19'56	-2°29'29
minimum elong	-9138 Mar 26 j 13:39	27°♓19'56	2°30'00
max. Earth dist.	-9138 Mar 26 j 05:13	27°♓19'09	30.89475 AU
morning rise	-9138 Apr 11 j 17:22	27°♓55'45	
retrograde	-9138 Jul 09 j 11:29	29°♓51'03	
opposition	-9138 Sep 24 j 16:08	28°♓27'25	-2°38'58
min. Earth dist.	-9138 Sep 25 j 00:17	28°♓26'51	28.90094 AU
direct	-9138 Dec 12 j 13:33	27°♓02'05	
evening set	-9137 Mar 12 j 23:03	28°♓58'54	
conjunction	-9137 Mar 29 j 04:18	29°♓34'49	-2°27'45
minimum elong	-9137 Mar 29 j 04:19	29°♓34'49	2°28'16
max. Earth dist.	-9137 Mar 28 j 18:42	29°♓33'56	30.90272 AU
	-9137 Apr 09 j 11:38	0°♒	
morning rise	-9137 Apr 14 j 07:51	0°♒10'37	
retrograde	-9137 Jul 11 j 22:19	2°♒05'45	
opposition	-9137 Sep 27 j 02:38	0°♒42'14	-2°36'59
min. Earth dist.	-9137 Sep 27 j 11:04	0°♒41'38	28.90827 AU
	-9137 Oct 23 j 00:33	30°℞♓	
direct	-9137 Dec 15 j 03:01	29°♓16'50	
	-9136 Feb 05 j 04:48	0°♒	
evening set	-9136 Mar 14 j 13:46	1°♒13'43	
conjunction	-9136 Mar 30 j 18:53	1°♒49'38	-2°25'47
minimum elong	-9136 Mar 30 j 18:53	1°♒49'38	2°26'18
max. Earth dist.	-9136 Mar 30 j 07:22	1°♒48'34	30.90957 AU
morning rise	-9136 Apr 15 j 22:16	2°♒25'25	
retrograde	-9136 Jul 13 j 09:06	4°♒20'23	
opposition	-9136 Sep 28 j 13:21	2°♒56'55	-2°34'47
min. Earth dist.	-9136 Sep 28 j 23:27	2°♒56'12	28.91471 AU
direct	-9136 Dec 16 j 14:20	1°♒31'29	
evening set	-9135 Mar 17 j 04:03	3°♒28'23	
conjunction	-9135 Apr 02 j 09:15	4°♒04'18	-2°23'37
minimum elong	-9135 Apr 02 j 09:15	4°♒04'18	2°24'08
max. Earth dist.	-9135 Apr 01 j 21:27	4°♒03'12	30.91565 AU
morning rise	-9135 Apr 18 j 12:21	4°♒40'03	
retrograde	-9135 Jul 15 j 19:45	6°♒34'52	
opposition	-9135 Sep 30 j 23:56	5°♒11'26	-2°32'20
min. Earth dist.	-9135 Oct 01 j 10:46	5°♒10'40	28.92030 AU
direct	-9135 Dec 19 j 03:40	3°♒45'56	
evening set	-9134 Mar 19 j 18:32	5°♒42'52	
conjunction	-9134 Apr 04 j 23:32	6°♒18'46	-2°21'14
minimum elong	-9134 Apr 04 j 23:33	6°♒18'46	2°21'43
max. Earth dist.	-9134 Apr 04 j 09:39	6°♒17'29	30.92111 AU
morning rise	-9134 Apr 21 j 02:35	6°♒54'30	
retrograde	-9134 Jul 18 j 07:32	8°♒49'08	
opposition	-9134 Oct 03 j 10:20	7°♒25'45	-2°29'41
min. Earth dist.	-9134 Oct 03 j 22:06	7°♒24'55	28.92567 AU
direct	-9134 Dec 21 j 15:20	6°♒00'10	
evening set	-9133 Mar 22 j 08:48	7°♒57'09	
conjunction	-9133 Apr 07 j 13:54	8°♒33'02	-2°18'38
minimum elong	-9133 Apr 07 j 13:55	8°♒33'02	2°19'08
max. Earth dist.	-9133 Apr 07 j 00:11	8°♒31'45	30.92648 AU
morning rise	-9133 Apr 23 j 16:35	9°♒08'44	
retrograde	-9133 Jul 20 j 18:21	11°♒03'12	
opposition	-9133 Oct 05 j 20:55	9°♒39'50	-2°26'48
min. Earth dist.	-9133 Oct 06 j 09:51	9°♒38'55	28.93105 AU
direct	-9133 Dec 24 j 05:40	8°♒14'12	
evening set	-9132 Mar 23 j 22:59	10°♒11'12	
conjunction	-9132 Apr 09 j 03:49	10°♒47'05	-2°15'50
minimum elong	-9132 Apr 09 j 03:50	10°♒47'05	2°16'18
max. Earth dist.	-9132 Apr 08 j 12:14	10°♒45'38	30.93221 AU
morning rise	-9132 Apr 25 j 06:26	11°♒22'46	
retrograde	-9132 Jul 22 j 06:49	13°♒17'03	
opposition	-9132 Oct 07 j 07:23	11°♒53'44	-2°23'42
min. Earth dist.	-9132 Oct 07 j 20:13	11°♒52'50	28.93714 AU
direct	-9132 Dec 25 j 18:58	10°♒28'03	
evening set	-9131 Mar 26 j 12:56	12°♒25'05	
conjunction	-9131 Apr 11 j 17:49	13°♒00'57	-2°12'50
minimum elong	-9131 Apr 11 j 17:49	13°♒00'57	2°13'18
max. Earth dist.	-9131 Apr 11 j 02:29	12°♒59'32	30.93877 AU
morning rise	-9131 Apr 27 j 20:02	13°♒36'37	
	-9131 Jun 11 j 21:37	15°♒	
retrograde	-9131 Jul 24 j 17:19	15°♒30'45	
	-9131 Sep 06 j 07:29	15°℞♒	
opposition	-9131 Oct 09 j 17:55	14°♒07'30	-2°20'23
min. Earth dist.	-9131 Oct 10 j 08:13	14°♒06'29	28.94425 AU
direct	-9131 Dec 28 j 07:23	12°♒41'47	
evening set	-9130 Mar 29 j 02:51	14°♒38'51	
	-9130 Apr 07 j 17:28	15°♒	

Attention, astronomical year style is used: The year -9130 in astronomical counting style is the year 9131 BCE in historical counting style.

conjunction	-9130 Apr 14 j 07:33	15°♒14'42	-2°09'38
minimum elong	-9130 Apr 14 j 07:34	15°♒14'43	2°10'04
max. Earth dist.	-9130 Apr 13 j 14:59	15°♒13'10	30.94664 AU
morning rise	-9130 Apr 30 j 09:43	15°♒50'21	
retrograde	-9130 Jul 27 j 06:07	17°♒44'20	
opposition	-9130 Oct 12 j 04:21	16°♒21'10	-2°16'51
min. Earth dist.	-9130 Oct 12 j 18:12	16°♒20'11	28.95262 AU
	-9130 Dec 14 j 02:58	15°℞♒	
direct	-9130 Dec 30 j 20:46	14°♒55'26	
	-9129 Jan 16 j 10:03	15°♒	
evening set	-9129 Mar 31 j 16:46	16°♒52'33	
conjunction	-9129 Apr 16 j 21:23	17°♒28'25	-2°06'14
minimum elong	-9129 Apr 16 j 21:24	17°♒28'25	2°06'41
max. Earth dist.	-9129 Apr 16 j 04:34	17°♒26'51	30.95564 AU
morning rise	-9129 May 02 j 23:11	18°♒04'02	
retrograde	-9129 Jul 29 j 17:06	19°♒57'54	
opposition	-9129 Oct 14 j 14:57	18°♒34'49	-2°13'07
min. Earth dist.	-9129 Oct 15 j 06:17	18°♒33'44	28.96219 AU
direct	-9128 Jan 02 j 07:42	17°♒09'07	
evening set	-9128 Apr 02 j 06:36	19°♒06'17	
conjunction	-9128 Apr 18 j 11:06	19°♒42'08	-2°02'39
minimum elong	-9128 Apr 18 j 11:07	19°♒42'08	2°03'04
max. Earth dist.	-9128 Apr 17 j 17:45	19°♒40'31	30.96586 AU
morning rise	-9128 May 04 j 12:41	20°♒17'44	
retrograde	-9128 Jul 31 j 03:43	22°♒11'29	
opposition	-9128 Oct 16 j 01:30	20°♒48'31	-2°09'11
min. Earth dist.	-9128 Oct 16 j 16:34	20°♒47'28	28.97262 AU
direct	-9127 Jan 03 j 20:53	19°♒22'51	
evening set	-9127 Apr 04 j 20:16	21°♒20'04	
max. Earth dist.	-9127 Apr 20 j 06:06	21°♒54'12	30.97659 AU
conjunction	-9127 Apr 21 j 00:34	21°♒55'55	-1°58'53
minimum elong	-9127 Apr 21 j 00:35	21°♒55'55	1°59'17
morning rise	-9127 May 07 j 01:56	22°♒31'30	
retrograde	-9127 Aug 02 j 14:20	24°♒25'09	
opposition	-9127 Oct 18 j 12:09	23°♒02'18	-2°05'03
min. Earth dist.	-9127 Oct 19 j 04:33	23°♒01'09	28.98344 AU
direct	-9126 Jan 06 j 07:18	21°♒36'39	
evening set	-9126 Apr 07 j 10:00	23°♒33'56	
conjunction	-9126 Apr 23 j 14:15	24°♒09'46	-1°54'56
minimum elong	-9126 Apr 23 j 14:16	24°♒09'46	1°55'18
max. Earth dist.	-9126 Apr 22 j 19:41	24°♒08'02	30.98736 AU
morning rise	-9126 May 09 j 15:16	24°♒45'20	
retrograde	-9126 Aug 05 j 00:46	26°♒38'53	
opposition	-9126 Oct 20 j 22:44	25°♒16'08	-2°00'44
min. Earth dist.	-9126 Oct 21 j 15:48	25°♒14'56	28.99378 AU
direct	-9125 Jan 08 j 19:31	23°♒50'30	
evening set	-9125 Apr 09 j 23:54	25°♒47'50	
max. Earth dist.	-9125 Apr 25 j 07:18	26°♒21'45	30.99740 AU
conjunction	-9125 Apr 26 j 03:48	26°♒23'39	-1°50'48
minimum elong	-9125 Apr 26 j 03:49	26°♒23'39	1°51'11
morning rise	-9125 May 12 j 04:38	26°♒59'13	
retrograde	-9125 Aug 07 j 12:09	28°♒52'39	
opposition	-9125 Oct 23 j 09:31	27°♒29'59	-1°56'14
min. Earth dist.	-9125 Oct 24 j 03:22	27°♒28'43	29.00338 AU
direct	-9124 Jan 11 j 06:49	26°♒04'21	
evening set	-9124 Apr 11 j 13:26	28°♒01'42	
conjunction	-9124 Apr 27 j 17:17	28°♒37'31	-1°46'31
minimum elong	-9124 Apr 27 j 17:17	28°♒37'31	1°46'52
max. Earth dist.	-9124 Apr 26 j 21:00	28°♒35'37	31.00646 AU
morning rise	-9124 May 13 j 17:38	29°♒13'02	
	-9124 Jun 05 j 15:53	0°♓	

retrograde	-9124 Aug 08 j 22:18	1°♓06'22	
	-9124 Oct 15 j 03:45	30°℞♒	
opposition	-9124 Oct 24 j 20:25	29°♒43'45	-1°51'34
min. Earth dist.	-9124 Oct 25 j 15:28	29°♒42'25	29.01179 AU
direct	-9123 Jan 12 j 20:53	28°♒18'07	
	-9123 Apr 06 j 21:40	0°♓	
evening set	-9123 Apr 14 j 03:05	0°♓15'28	
max. Earth dist.	-9123 Apr 29 j 08:15	0°♓49'11	31.01449 AU
conjunction	-9123 Apr 30 j 06:33	0°♓51'15	-1°42'05
minimum elong	-9123 Apr 30 j 06:34	0°♓51'15	1°42'26
morning rise	-9123 May 16 j 06:47	1°♓26'45	
retrograde	-9123 Aug 11 j 10:16	3°♓19'57	
opposition	-9123 Oct 27 j 07:01	1°♓57'22	-1°46'45
min. Earth dist.	-9123 Oct 28 j 02:09	1°♓56'02	29.01931 AU
direct	-9122 Jan 15 j 09:41	0°♓31'42	
evening set	-9122 Apr 16 j 16:27	2°♓29'04	
conjunction	-9122 May 02 j 19:53	3°♓04'50	-1°37'30
minimum elong	-9122 May 02 j 19:54	3°♓04'50	1°37'49
max. Earth dist.	-9122 May 01 j 21:40	3°♓02'46	31.02160 AU
morning rise	-9122 May 18 j 19:38	3°♓40'18	
retrograde	-9122 Aug 13 j 20:33	5°♓33'21	
opposition	-9122 Oct 29 j 17:52	4°♓10'48	-1°41'46
min. Earth dist.	-9122 Oct 30 j 14:40	4°♓09'21	29.02599 AU
direct	-9121 Jan 17 j 22:37	2°♓45'06	
evening set	-9121 Apr 19 j 05:50	4°♓42'26	
max. Earth dist.	-9121 May 04 j 09:18	5°♓15'59	31.02821 AU
conjunction	-9121 May 05 j 08:53	5°♓18'10	-1°32'46
minimum elong	-9121 May 05 j 08:54	5°♓18'10	1°33'05
morning rise	-9121 May 21 j 08:27	5°♓53'37	
retrograde	-9121 Aug 16 j 08:58	7°♓46'31	
opposition	-9121 Nov 01 j 04:32	6°♓23'59	-1°36'39
min. Earth dist.	-9121 Nov 02 j 00:57	6°♓22'33	29.03239 AU
direct	-9120 Jan 20 j 13:18	4°♓58'15	
evening set	-9120 Apr 20 j 18:58	6°♓55'33	
conjunction	-9120 May 06 j 21:49	7°♓31'16	-1°27'55
minimum elong	-9120 May 06 j 21:50	7°♓31'16	1°28'12
max. Earth dist.	-9120 May 05 j 22:13	7°♓29'04	31.03467 AU
morning rise	-9120 May 22 j 20:55	8°♓06'40	
retrograde	-9120 Aug 17 j 19:15	9°♓59'26	
opposition	-9120 Nov 02 j 15:23	8°♓36'55	-1°31'24
min. Earth dist.	-9120 Nov 03 j 13:09	8°♓35'24	29.03907 AU
direct	-9119 Jan 22 j 01:43	7°♓11'08	
evening set	-9119 Apr 23 j 07:49	9°♓08'24	
max. Earth dist.	-9119 May 08 j 10:31	9°♓41'52	31.04176 AU
conjunction	-9119 May 09 j 10:22	9°♓44'05	-1°22'57
minimum elong	-9119 May 09 j 10:23	9°♓44'06	1°23'13
morning rise	-9119 May 25 j 09:12	10°♓19'28	
retrograde	-9119 Aug 20 j 05:14	12°♓12'06	
opposition	-9119 Nov 05 j 02:05	10°♓49'36	-1°26'01
min. Earth dist.	-9119 Nov 05 j 23:16	10°♓48'07	29.04640 AU
direct	-9118 Jan 24 j 15:31	9°♓23'48	
evening set	-9118 Apr 25 j 20:44	11°♓21'02	
conjunction	-9118 May 11 j 22:56	11°♓56'42	-1°17'51
minimum elong	-9118 May 11 j 22:57	11°♓56'42	1°18'05
max. Earth dist.	-9118 May 10 j 22:26	11°♓54'25	31.04963 AU
morning rise	-9118 May 27 j 21:23	12°♓32'02	
retrograde	-9118 Aug 22 j 15:28	14°♓24'33	
opposition	-9118 Nov 07 j 12:47	13°♓02'05	-1°20'31
min. Earth dist.	-9118 Nov 08 j 10:43	13°♓00'33	29.05490 AU
direct	-9117 Jan 27 j 02:32	11°♓36'17	
evening set	-9117 Apr 28 j 09:30	13°♓33'29	

Attention, astronomical year style is used: The year -9117 in astronomical counting style is the year 9118 BCE in historical counting style.

max. Earth dist.	-9117 May 13 j 11:31	14°♓06'54	31.05884 AU
conjunction	-9117 May 14 j 11:28	14°♓09'08	-1°12'39
minimum elong	-9117 May 14 j 11:29	14°♓09'08	1°12'53
morning rise	-9117 May 30 j 09:27	14°♓44'27	
retrograde	-9117 Aug 25 j 00:56	16°♓36'51	
opposition	-9117 Nov 09 j 23:39	15°♓14'27	-1°14'54
min. Earth dist.	-9117 Nov 10 j 21:31	15°♓12'55	29.06457 AU
direct	-9116 Jan 29 j 15:05	13°♓48'40	
evening set	-9116 Apr 29 j 22:10	15°♓45'51	
conjunction	-9116 May 15 j 23:38	16°♓21'28	-1°07'20
minimum elong	-9116 May 15 j 23:39	16°♓21'28	1°07'32
max. Earth dist.	-9116 May 14 j 22:42	16°♓19'09	31.06922 AU
morning rise	-9116 May 31 j 21:19	16°♓56'46	
retrograde	-9116 Aug 26 j 11:20	18°♓49'06	
opposition	-9116 Nov 11 j 10:30	17°♓26'45	-1°09'10
min. Earth dist.	-9116 Nov 12 j 08:21	17°♓25'14	29.07550 AU
direct	-9115 Jan 31 j 02:04	16°♓01'00	
evening set	-9115 May 02 j 10:41	17°♓58'12	
conjunction	-9115 May 18 j 11:58	18°♓33'48	-1°01'56
minimum elong	-9115 May 18 j 11:58	18°♓33'48	1°02'08
max. Earth dist.	-9115 May 17 j 12:01	18°♓31'34	31.08058 AU
morning rise	-9115 Jun 03 j 09:06	19°♓09'03	
retrograde	-9115 Aug 28 j 20:31	21°♓01'20	
opposition	-9115 Nov 13 j 21:18	19°♓39'04	-1°03'20
min. Earth dist.	-9115 Nov 14 j 19:58	19°♓37'29	29.08700 AU
direct	-9114 Feb 02 j 14:24	18°♓13'23	
evening set	-9114 May 04 j 23:22	20°♓10'35	
max. Earth dist.	-9114 May 19 j 22:43	20°♓43'47	31.09229 AU
conjunction	-9114 May 21 j 00:06	20°♓46'09	-0°56'26
minimum elong	-9114 May 21 j 00:07	20°♓46'09	0°56'35
morning rise	-9114 Jun 05 j 20:59	21°♓21'23	
retrograde	-9114 Aug 31 j 08:23	23°♓13'36	
opposition	-9114 Nov 16 j 08:13	21°♓51'25	-0°57'24
min. Earth dist.	-9114 Nov 17 j 06:29	21°♓49'52	29.09859 AU
direct	-9113 Feb 05 j 01:52	20°♓25'47	
evening set	-9113 May 07 j 11:51	22°♓23'00	
max. Earth dist.	-9113 May 22 j 11:29	22°♓56'13	31.10360 AU
conjunction	-9113 May 23 j 12:18	22°♓58'32	-0°50'50
minimum elong	-9113 May 23 j 12:19	22°♓58'32	0°50'59
morning rise	-9113 Jun 08 j 08:32	23°♓33'44	
retrograde	-9113 Sep 02 j 18:29	25°♓25'55	
opposition	-9113 Nov 18 j 19:24	24°♓03'48	-0°51'23
min. Earth dist.	-9113 Nov 19 j 19:05	24°♓02'10	29.10953 AU
direct	-9112 Feb 07 j 14:20	22°♓38'13	
evening set	-9112 May 09 j 00:26	24°♓35'26	
max. Earth dist.	-9112 May 23 j 22:18	25°♓08'31	31.11421 AU
conjunction	-9112 May 25 j 00:18	25°♓10'56	-0°45'11
minimum elong	-9112 May 25 j 00:19	25°♓10'56	0°45'17
morning rise	-9112 Jun 09 j 20:13	25°♓46'06	
retrograde	-9112 Sep 04 j 06:54	27°♓38'14	
opposition	-9112 Nov 20 j 06:28	26°♓16'11	-0°45'18
min. Earth dist.	-9112 Nov 21 j 05:36	26°♓14'34	29.11958 AU
direct	-9111 Feb 09 j 04:24	24°♓50'38	
evening set	-9111 May 11 j 12:43	26°♓47'49	
max. Earth dist.	-9111 May 26 j 10:15	27°♓20'53	31.12367 AU
conjunction	-9111 May 27 j 12:15	27°♓23'18	-0°39'28
minimum elong	-9111 May 27 j 12:16	27°♓23'18	0°39'34
morning rise	-9111 Jun 12 j 07:36	27°♓58'26	
retrograde	-9111 Sep 06 j 17:22	29°♓50'31	
opposition	-9111 Nov 22 j 17:42	28°♓28'30	-0°39'10
min. Earth dist.	-9111 Nov 23 j 18:14	28°♓26'47	29.12851 AU
direct	-9110 Feb 11 j 16:47	27°♓02'58	
evening set	-9110 May 14 j 01:03	29°♓00'08	
max. Earth dist.	-9110 May 28 j 21:40	29°♓33'07	31.13212 AU
conjunction	-9110 May 30 j 00:06	29°♓35'35	-0°33'42
minimum elong	-9110 May 30 j 00:06	29°♓35'35	0°33'46
	-9110 Jun 09 j 22:27	0°♈	
morning rise	-9110 Jun 14 j 19:00	0°♈10'40	
retrograde	-9110 Sep 09 j 03:29	2°♈02'41	
opposition	-9110 Nov 25 j 04:45	0°♈40'42	-0°32'58
min. Earth dist.	-9110 Nov 26 j 04:51	0°♈39'02	29.13632 AU
	-9110 Dec 20 j 17:07	30°℞♓	
direct	-9109 Feb 14 j 06:43	29°♓15'11	
	-9109 Apr 09 j 01:20	0°♈	
evening set	-9109 May 16 j 13:18	1°♈12'19	
max. Earth dist.	-9109 May 31 j 08:44	1°♈45'12	31.13956 AU
conjunction	-9109 Jun 01 j 11:50	1°♈47'43	-0°27'53
minimum elong	-9109 Jun 01 j 11:50	1°♈47'43	0°27'57
morning rise	-9109 Jun 17 j 06:14	2°♈22'47	
retrograde	-9109 Sep 11 j 14:06	4°♈14'44	
opposition	-9109 Nov 27 j 16:02	2°♈52'46	-0°26'44
min. Earth dist.	-9109 Nov 28 j 16:53	2°♈51'02	29.14352 AU
direct	-9108 Feb 16 j 18:27	1°♈27'15	
evening set	-9108 May 18 j 01:07	3°♈24'19	
conjunction	-9108 Jun 02 j 23:14	3°♈59'42	-0°22'03
minimum elong	-9108 Jun 02 j 23:14	3°♈59'42	0°22'04
max. Earth dist.	-9108 Jun 01 j 20:48	3°♈57'14	31.14658 AU
morning rise	-9108 Jun 18 j 17:06	4°♈34'43	
retrograde	-9108 Sep 12 j 23:07	6°♈26'36	
opposition	-9108 Nov 29 j 03:16	5°♈04'38	-0°20'29
min. Earth dist.	-9108 Nov 30 j 04:03	5°♈02'55	29.15033 AU
direct	-9107 Feb 18 j 07:41	3°♈39'08	
evening set	-9107 May 20 j 13:02	5°♈36'09	
max. Earth dist.	-9107 Jun 04 j 07:13	6°♈08'56	31.15349 AU
conjunction	-9107 Jun 05 j 10:30	6°♈11'28	-0°16'11
minimum elong	-9107 Jun 05 j 10:30	6°♈11'28	0°16'12
morning rise	-9107 Jun 21 j 03:57	6°♈46'27	
retrograde	-9107 Sep 15 j 08:46	8°♈38'18	
opposition	-9107 Dec 01 j 14:19	7°♈16'20	-0°14'12
min. Earth dist.	-9107 Dec 02 j 14:56	7°♈14'38	29.15750 AU
direct	-9106 Feb 20 j 18:55	5°♈50'50	
evening set	-9106 May 23 j 00:42	7°♈47'47	
conjunction	-9106 Jun 07 j 21:47	8°♈23'05	-0°10'18
minimum elong	-9106 Jun 07 j 21:47	8°♈23'05	0°10'17
behind sun begin	-9106 Jun 07 j 16:38	8°♈22'37	
behind sun end	-9106 Jun 08 j 02:56	8°♈23'32	
max. Earth dist.	-9106 Jun 06 j 19:48	8°♈20'39	31.16091 AU
morning rise	-9106 Jun 23 j 14:33	8°♈58'01	
retrograde	-9106 Sep 17 j 16:57	10°♈49'49	
opposition	-9106 Dec 04 j 01:40	9°♈27'52	-0°07'53
min. Earth dist.	-9106 Dec 05 j 02:35	9°♈26'08	29.16525 AU
direct	-9105 Feb 23 j 06:58	8°♈02'23	
evening set	-9105 May 25 j 12:22	9°♈59'17	
max. Earth dist.	-9105 Jun 09 j 05:58	10°♈32'03	31.16920 AU
conjunction	-9105 Jun 10 j 08:42	10°♈34'32	-0°04'26
minimum elong	-9105 Jun 10 j 08:41	10°♈34'32	0°04'25
behind sun begin	-9105 Jun 10 j 02:19	10°♈33'58	
behind sun end	-9105 Jun 10 j 15:04	10°♈35'07	
morning rise	-9105 Jun 26 j 01:03	11°♈09'27	
retrograde	-9105 Sep 20 j 04:05	13°♈01'13	
opposition	-9105 Dec 06 j 12:57	11°♈39'17	-0°01'35

Attention, astronomical year style is used: The year -9105 in astronomical counting style is the year 9106 BCE in historical counting style.

min. Earth dist.	-9105 Dec 07 j 12:41	11°♈37'39	29.17411 AU
direct	-9104 Feb 25 j 17:34	10°♈13'51	
asc. node	-9104 Mar 06 j 13:26	10°♈15'23	
evening set	-9104 May 26 j 23:49	12°♈10'43	
conjunction	-9104 Jun 11 j 19:43	12°♈45'55	0°01'36
minimum elong	-9104 Jun 11 j 19:44	12°♈45'55	0°01'39
behind sun begin	-9104 Jun 11 j 13:15	12°♈45'21	
behind sun end	-9104 Jun 12 j 02:13	12°♈46'30	
max. Earth dist.	-9104 Jun 10 j 18:17	12°♈43'33	31.17859 AU
morning rise	-9104 Jun 27 j 11:23	13°♈20'47	
retrograde	-9104 Sep 21 j 13:33	15°♈12'34	
opposition	-9104 Dec 08 j 00:21	13°♈50'40	0°04'44
min. Earth dist.	-9104 Dec 09 j 00:47	13°♈48'59	29.18404 AU
direct	-9103 Feb 27 j 05:37	12°♈25'18	
evening set	-9103 May 29 j 11:14	14°♈22'08	
max. Earth dist.	-9103 Jun 13 j 04:39	14°♈54'53	31.18904 AU
conjunction	-9103 Jun 14 j 06:29	14°♈57'18	0°07'30
minimum elong	-9103 Jun 14 j 06:28	14°♈57'18	0°07'34
behind sun begin	-9103 Jun 14 j 00:35	14°♈56'46	
behind sun end	-9103 Jun 14 j 12:21	14°♈57'49	
morning rise	-9103 Jun 29 j 21:44	15°♈32'07	
retrograde	-9103 Sep 24 j 01:29	17°♈23'54	
opposition	-9103 Dec 10 j 11:39	16°♈02'03	0°11'02
min. Earth dist.	-9103 Dec 11 j 10:54	16°♈00'27	29.19470 AU
direct	-9102 Mar 01 j 18:46	14°♈36'46	
evening set	-9102 May 31 j 22:38	16°♈33'35	
conjunction	-9102 Jun 16 j 17:19	17°♈08'42	0°13'22
minimum elong	-9102 Jun 16 j 17:19	17°♈08'42	0°13'29
behind sun begin	-9102 Jun 16 j 13:41	17°♈08'23	
behind sun end	-9102 Jun 16 j 20:57	17°♈09'02	
max. Earth dist.	-9102 Jun 15 j 16:08	17°♈06'21	31.19979 AU
morning rise	-9102 Jul 02 j 07:53	17°♈43'30	
retrograde	-9102 Sep 26 j 12:00	19°♈35'19	
opposition	-9102 Dec 12 j 23:10	18°♈13'30	0°17'20
min. Earth dist.	-9102 Dec 13 j 23:20	18°♈11'51	29.20553 AU
direct	-9101 Mar 04 j 06:07	16°♈48'18	
evening set	-9101 Jun 03 j 10:03	18°♈45'06	
max. Earth dist.	-9101 Jun 18 j 03:06	19°♈17'50	31.21050 AU
conjunction	-9101 Jun 19 j 04:05	19°♈20'10	0°19'14
minimum elong	-9101 Jun 19 j 04:05	19°♈20'10	0°19'22
morning rise	-9101 Jul 04 j 18:06	19°♈54'55	
retrograde	-9101 Sep 28 j 22:45	21°♈46'45	
opposition	-9101 Dec 15 j 10:48	20°♈25'00	0°23'36
min. Earth dist.	-9101 Dec 16 j 10:06	20°♈23'24	29.21587 AU
direct	-9100 Mar 05 j 19:56	18°♈59'52	
evening set	-9100 Jun 04 j 21:19	20°♈56'38	
conjunction	-9100 Jun 20 j 14:40	21°♈31'40	0°25'05
minimum elong	-9100 Jun 20 j 14:40	21°♈31'40	0°25'14
max. Earth dist.	-9100 Jun 19 j 13:21	21°♈29'18	31.22034 AU
morning rise	-9100 Jul 06 j 04:07	22°♈06'22	
retrograde	-9100 Sep 30 j 10:19	23°♈58'14	
opposition	-9100 Dec 16 j 22:33	22°♈36'30	0°29'49
min. Earth dist.	-9100 Dec 17 j 22:21	22°♈34'52	29.22530 AU
direct	-9099 Mar 08 j 08:08	21°♈11'26	
evening set	-9099 Jun 07 j 08:35	23°♈08'10	
max. Earth dist.	-9099 Jun 22 j 00:45	23°♈40'50	31.22909 AU
conjunction	-9099 Jun 23 j 01:23	23°♈43'09	0°30'53
minimum elong	-9099 Jun 23 j 01:23	23°♈43'09	0°31'02
morning rise	-9099 Jul 08 j 14:10	24°♈17'48	
retrograde	-9099 Oct 02 j 19:30	26°♈09'40	
opposition	-9099 Dec 19 j 10:11	24°♈47'58	0°36'00

min. Earth dist.	-9099 Dec 20 j 09:58	24°♈46'20	29.23328 AU
direct	-9098 Mar 10 j 21:53	23°♈22'57	
evening set	-9098 Jun 09 j 19:57	25°♈19'37	
max. Earth dist.	-9098 Jun 24 j 10:20	25°♈52'09	31.23634 AU
conjunction	-9098 Jun 25 j 11:58	25°♈54'33	0°36'39
minimum elong	-9098 Jun 25 j 11:57	25°♈54'33	0°36'50
morning rise	-9098 Jul 11 j 00:15	26°♈29'10	
retrograde	-9098 Oct 05 j 05:40	28°♈21'03	
opposition	-9098 Dec 21 j 21:59	26°♈59'21	0°42'08
min. Earth dist.	-9098 Dec 22 j 21:35	26°♈57'44	29.23994 AU
direct	-9097 Mar 13 j 09:16	25°♈34'21	
evening set	-9097 Jun 12 j 06:56	27°♈30'57	
conjunction	-9097 Jun 27 j 22:27	28°♈05'51	0°42'21
minimum elong	-9097 Jun 27 j 22:26	28°♈05'51	0°42'32
max. Earth dist.	-9097 Jun 26 j 22:03	28°♈03'34	31.24223 AU
morning rise	-9097 Jul 13 j 09:58	28°♈40'25	
	-9097 Aug 24 j 19:32	0°♉	
retrograde	-9097 Oct 07 j 13:53	0°♉32'19	
	-9097 Nov 22 j 01:39	30°℞♈	
opposition	-9097 Dec 24 j 09:57	29°♈10'35	0°48'12
min. Earth dist.	-9097 Dec 25 j 09:59	29°♈08'57	29.24519 AU
direct	-9096 Mar 14 j 21:56	27°♈45'37	
evening set	-9096 Jun 13 j 18:01	29°♈42'08	
	-9096 Jun 21 j 19:35	0°♉	
max. Earth dist.	-9096 Jun 28 j 07:28	0°♉14'36	31.24701 AU
conjunction	-9096 Jun 29 j 08:42	0°♉16'58	0°47'59
minimum elong	-9096 Jun 29 j 08:42	0°♉16'58	0°48'13
morning rise	-9096 Jul 14 j 19:49	0°♉51'30	
retrograde	-9096 Oct 09 j 00:51	2°♉43'24	
opposition	-9096 Dec 25 j 21:38	1°♉21'39	0°54'11
min. Earth dist.	-9096 Dec 26 j 20:37	1°♉20'05	29.24964 AU
	-9095 Mar 02 j 21:33	30°℞♈	
direct	-9095 Mar 17 j 08:59	29°♈56'40	
	-9095 Mar 31 j 18:41	0°♉	
evening set	-9095 Jun 16 j 04:42	1°♉53'07	
conjunction	-9095 Jul 01 j 18:54	2°♉27'54	0°53'32
minimum elong	-9095 Jul 01 j 18:53	2°♉27'54	0°53'47
max. Earth dist.	-9095 Jun 30 j 18:51	2°♉25'39	31.25105 AU
morning rise	-9095 Jul 17 j 05:17	3°♉02'23	
retrograde	-9095 Oct 11 j 09:43	4°♉54'19	
opposition	-9095 Dec 28 j 09:33	3°♉32'31	1°00'05
min. Earth dist.	-9095 Dec 29 j 09:12	3°♉30'54	29.25355 AU
direct	-9094 Mar 19 j 21:07	2°♉07'34	
evening set	-9094 Jun 18 j 15:25	4°♉03'56	
max. Earth dist.	-9094 Jul 03 j 04:42	4°♉36'24	31.25494 AU
conjunction	-9094 Jul 04 j 04:49	4°♉38'39	0°59'01
minimum elong	-9094 Jul 04 j 04:48	4°♉38'39	0°59'18
morning rise	-9094 Jul 19 j 14:42	5°♉13'06	
retrograde	-9094 Oct 13 j 20:48	7°♉05'03	
opposition	-9094 Dec 30 j 21:19	5°♉43'13	1°05'53
min. Earth dist.	-9094 Dec 31 j 19:27	5°♉41'43	29.25757 AU
direct	-9093 Mar 22 j 09:36	4°♉18'17	
evening set	-9093 Jun 21 j 01:58	6°♉14'35	
conjunction	-9093 Jul 06 j 14:43	6°♉49'16	1°04'24
minimum elong	-9093 Jul 06 j 14:43	6°♉49'16	1°04'41
max. Earth dist.	-9093 Jul 05 j 15:36	6°♉47'06	31.25913 AU
morning rise	-9093 Jul 21 j 23:56	7°♉23'39	
retrograde	-9093 Oct 16 j 07:09	9°♉15'41	
opposition	-9092 Jan 02 j 09:22	7°♉53'49	1°11'36
min. Earth dist.	-9092 Jan 03 j 07:44	7°♉52'17	29.26230 AU
direct	-9092 Mar 23 j 20:21	6°♉28'55	

Attention, astronomical year style is used: The year -9092 in astronomical counting style is the year 9093 BCE in historical counting style.

evening set	-9092 Jun	22 j 12:17	8°♉25'10	
max. Earth dist.	-9092 Jul	07 j 02:13	8°♉57'42	31.26429 AU
conjunction	-9092 Jul	08 j 00:23	8°♉59'47	1°09'42
minimum elong	-9092 Jul	08 j 00:22	8°♉59'47	1°10'01
morning rise	-9092 Jul	23 j 09:02	9°♉34'08	
retrograde	-9092 Oct	17 j 17:35	11°♉26'13	
opposition	-9091 Jan	03 j 21:17	10°♉04'21	1°17'12
min. Earth dist.	-9091 Jan	04 j 18:06	10°♉02'56	29.26786 AU
direct	-9091 Mar	26 j 10:00	8°♉39'32	
evening set	-9091 Jun	24 j 22:43	10°♉35'44	
conjunction	-9091 Jul	10 j 10:05	11°♉10'19	1°14'54
minimum elong	-9091 Jul	10 j 10:05	11°♉10'19	1°15'12
max. Earth dist.	-9091 Jul	09 j 12:06	11°♉08'15	31.27022 AU
morning rise	-9091 Jul	25 j 18:12	11°♉44'37	
retrograde	-9091 Oct	20 j 05:23	13°♉36'47	
opposition	-9090 Jan	06 j 09:08	12°♉14'56	1°22'42
min. Earth dist.	-9090 Jan	07 j 05:46	12°♉13'32	29.27429 AU
direct	-9090 Mar	28 j 21:43	10°♉50'12	
evening set	-9090 Jun	27 j 09:00	12°♉46'22	
conjunction	-9090 Jul	12 j 19:49	13°♉20'55	1°19'59
minimum elong	-9090 Jul	12 j 19:48	13°♉20'54	1°20'20
max. Earth dist.	-9090 Jul	11 j 23:19	13°♉18'59	31.27687 AU
morning rise	-9090 Jul	28 j 03:15	13°♉55'11	
	-9090 Aug	29 j 21:26	15°♉	
retrograde	-9090 Oct	22 j 14:55	15°♉47'27	
	-9090 Dec	18 j 02:39	15°℞♉	
opposition	-9089 Jan	08 j 21:17	14°♉25'37	1°28'05
min. Earth dist.	-9089 Jan	09 j 17:12	14°♉24'16	29.28101 AU
direct	-9089 Mar	31 j 11:02	13°♉00'59	
evening set	-9089 Jun	29 j 19:17	14°♉57'07	
	-9089 Jul	01 j 02:42	15°♉	
max. Earth dist.	-9089 Jul	14 j 08:29	15°♉29'40	31.28357 AU
conjunction	-9089 Jul	15 j 05:15	15°♉31'37	1°24'57
minimum elong	-9089 Jul	15 j 05:14	15°♉31'37	1°25'18
morning rise	-9089 Jul	30 j 12:15	16°♉05'51	
retrograde	-9089 Oct	25 j 01:35	17°♉58'13	
opposition	-9088 Jan	11 j 09:29	16°♉36'25	1°33'20
min. Earth dist.	-9088 Jan	12 j 04:39	16°♉35'07	29.28771 AU
direct	-9088 Apr	01 j 22:01	15°♉11'52	
evening set	-9088 Jul	01 j 05:28	17°♉07'59	
conjunction	-9088 Jul	16 j 14:56	17°♉42'26	1°29'48
minimum elong	-9088 Jul	16 j 14:56	17°♉42'26	1°30'11
max. Earth dist.	-9088 Jul	15 j 19:49	17°♉40'38	31.28983 AU
morning rise	-9088 Jul	31 j 21:13	18°♉16'38	
retrograde	-9088 Oct	26 j 10:14	20°♉09'06	
opposition	-9087 Jan	12 j 21:43	18°♉47'19	1°38'27
min. Earth dist.	-9087 Jan	13 j 17:04	18°♉46'00	29.29360 AU
direct	-9087 Apr	04 j 10:27	17°♉22'52	
evening set	-9087 Jul	03 j 15:47	19°♉18'55	
max. Earth dist.	-9087 Jul	18 j 04:43	19°♉51'28	31.29516 AU
conjunction	-9087 Jul	19 j 00:26	19°♉53'20	1°34'32
minimum elong	-9087 Jul	19 j 00:25	19°♉53'20	1°34'55
morning rise	-9087 Aug	03 j 06:20	20°♉27'30	
retrograde	-9087 Oct	28 j 21:48	22°♉20'04	
opposition	-9086 Jan	15 j 09:58	20°♉58'17	1°43'26
min. Earth dist.	-9086 Jan	16 j 04:03	20°♉57'04	29.29837 AU
direct	-9086 Apr	06 j 21:32	19°♉33'53	
evening set	-9086 Jul	06 j 01:54	21°♉29'54	
conjunction	-9086 Jul	21 j 10:01	22°♉04'15	1°39'07
minimum elong	-9086 Jul	21 j 10:01	22°♉04'15	1°39'32
max. Earth dist.	-9086 Jul	20 j 15:27	22°♉02'30	31.29905 AU
morning rise	-9086 Aug	05 j 15:12	22°♉38'23	
retrograde	-9086 Oct	31 j 06:41	24°♉31'04	
opposition	-9085 Jan	17 j 22:29	23°♉09'15	1°48'15
min. Earth dist.	-9085 Jan	18 j 17:11	23°♉07'59	29.30163 AU
direct	-9085 Apr	09 j 09:14	21°♉44'55	
evening set	-9085 Jul	08 j 12:07	23°♉40'50	
conjunction	-9085 Jul	23 j 19:30	24°♉15'09	1°43'33
minimum elong	-9085 Jul	23 j 19:29	24°♉15'09	1°43'58
max. Earth dist.	-9085 Jul	23 j 00:52	24°♉13'24	31.30162 AU
morning rise	-9085 Aug	08 j 00:15	24°♉49'15	
retrograde	-9085 Nov	02 j 17:49	26°♉42'00	
opposition	-9084 Jan	20 j 10:53	25°♉20'09	1°52'55
min. Earth dist.	-9084 Jan	21 j 04:06	25°♉18'59	29.30353 AU
direct	-9084 Apr	10 j 20:43	23°♉55'50	
evening set	-9084 Jul	09 j 22:02	25°♉51'41	
max. Earth dist.	-9084 Jul	24 j 10:53	26°♉24'15	31.30274 AU
conjunction	-9084 Jul	25 j 04:52	26°♉25'57	1°47'51
minimum elong	-9084 Jul	25 j 04:51	26°♉25'57	1°48'18
morning rise	-9084 Aug	09 j 09:05	27°♉00'01	
retrograde	-9084 Nov	04 j 04:21	28°♉52'51	
opposition	-9083 Jan	21 j 23:23	27°♉30'56	1°57'26
min. Earth dist.	-9083 Jan	22 j 17:06	27°♉29'44	29.30419 AU
direct	-9083 Apr	13 j 06:54	26°♉06'38	
evening set	-9083 Jul	12 j 07:56	28°♉02'23	
conjunction	-9083 Jul	27 j 14:10	28°♉36'36	1°51'59
minimum elong	-9083 Jul	27 j 14:09	28°♉36'36	1°52'25
max. Earth dist.	-9083 Jul	26 j 21:05	28°♉34'59	31.30289 AU
morning rise	-9083 Aug	11 j 17:54	29°♉10'37	
	-9083 Sep	04 j 16:54	0°♊	
retrograde	-9083 Nov	06 j 14:54	1°♊03'32	
	-9082 Jan	12 j 23:51	30°℞♉	
opposition	-9082 Jan	24 j 11:38	29°♉41'32	2°01'46
min. Earth dist.	-9082 Jan	25 j 03:56	29°♉40'26	29.30395 AU
direct	-9082 Apr	15 j 20:56	28°♉17'14	
	-9082 Jul	08 j 19:25	0°♊	
evening set	-9082 Jul	14 j 17:44	0°♊12'53	
conjunction	-9082 Jul	29 j 23:19	0°♊47'03	1°55'57
minimum elong	-9082 Jul	29 j 23:18	0°♊47'03	1°56'26
max. Earth dist.	-9082 Jul	29 j 06:22	0°♊45'28	31.30239 AU
morning rise	-9082 Aug	14 j 02:38	1°♊21'02	
retrograde	-9082 Nov	09 j 03:07	3°♊14'02	
opposition	-9081 Jan	27 j 00:10	1°♊51'57	2°05'55
min. Earth dist.	-9081 Jan	27 j 16:04	1°♊50'52	29.30360 AU
direct	-9081 Apr	18 j 08:28	0°♊27'40	
evening set	-9081 Jul	17 j 03:12	2°♊23'13	
conjunction	-9081 Aug	01 j 08:19	2°♊57'20	1°59'46
minimum elong	-9081 Aug	01 j 08:18	2°♊57'20	2°00'13
max. Earth dist.	-9081 Jul	31 j 17:16	2°♊55'55	31.30208 AU
morning rise	-9081 Aug	16 j 11:04	3°♊31'17	
retrograde	-9081 Nov	11 j 12:16	5°♊24'21	
opposition	-9080 Jan	29 j 12:41	4°♊02'11	2°09'54
min. Earth dist.	-9080 Jan	30 j 03:27	4°♊01'12	29.30356 AU
direct	-9080 Apr	19 j 21:44	2°♊37'56	
evening set	-9080 Jul	18 j 12:51	4°♊33'23	
conjunction	-9080 Aug	02 j 17:14	5°♊07'28	2°03'24
minimum elong	-9080 Aug	02 j 17:14	5°♊07'28	2°03'53
max. Earth dist.	-9080 Aug	02 j 02:15	5°♊06'03	31.30239 AU
morning rise	-9080 Aug	17 j 19:43	5°♊41'23	
retrograde	-9080 Nov	12 j 23:15	7°♊34'32	
opposition	-9079 Jan	31 j 01:00	6°♊12'20	2°13'41

Attention, astronomical year style is used: The year -9079 in astronomical counting style is the year 9080 BCE in historical counting style.

min. Earth dist.	-9079 Jan 31 j 14:29	6°♊11'25	29.30451 AU
direct	-9079 Apr 22 j 09:02	4°♊48'06	
evening set	-9079 Jul 20 j 22:15	6°♊43'29	
conjunction	-9079 Aug 05 j 02:17	7°♊17'32	2°06'51
minimum elong	-9079 Aug 05 j 02:16	7°♊17'32	2°07'20
max. Earth dist.	-9079 Aug 04 j 13:25	7°♊16'19	31.30369 AU
morning rise	-9079 Aug 20 j 04:11	7°♊51'25	
retrograde	-9079 Nov 15 j 08:17	9°♊44'41	
opposition	-9078 Feb 02 j 13:32	8°♊22'27	2°17'17
min. Earth dist.	-9078 Feb 03 j 02:30	8°♊21'34	29.30629 AU
direct	-9078 Apr 24 j 21:58	6°♊58'17	
evening set	-9078 Jul 23 j 07:39	8°♊53'36	
conjunction	-9078 Aug 07 j 11:01	9°♊27'37	2°10'08
minimum elong	-9078 Aug 07 j 11:00	9°♊27'36	2°10'39
max. Earth dist.	-9078 Aug 06 j 22:19	9°♊26'25	31.30592 AU
morning rise	-9078 Aug 22 j 12:41	10°♊01'29	
retrograde	-9078 Nov 17 j 19:50	11°♊54'52	
opposition	-9077 Feb 05 j 02:03	10°♊32'37	2°20'42
min. Earth dist.	-9077 Feb 05 j 13:02	10°♊31'52	29.30891 AU
direct	-9077 Apr 27 j 09:02	9°♊08'33	
evening set	-9077 Jul 25 j 16:59	11°♊03'48	
conjunction	-9077 Aug 09 j 19:59	11°♊37'47	2°13'13
minimum elong	-9077 Aug 09 j 19:58	11°♊37'47	2°13'44
max. Earth dist.	-9077 Aug 09 j 08:57	11°♊36'44	31.30867 AU
morning rise	-9077 Aug 24 j 21:11	12°♊11'38	
retrograde	-9077 Nov 20 j 05:05	14°♊05'10	
opposition	-9076 Feb 07 j 14:46	12°♊42'55	2°23'54
min. Earth dist.	-9076 Feb 08 j 01:50	12°♊42'10	29.31186 AU
direct	-9076 Apr 28 j 20:01	11°♊18'56	
evening set	-9076 Jul 27 j 02:18	13°♊14'08	
conjunction	-9076 Aug 11 j 04:47	13°♊48'05	2°16'07
minimum elong	-9076 Aug 11 j 04:46	13°♊48'05	2°16'39
max. Earth dist.	-9076 Aug 10 j 18:20	13°♊47'06	31.31158 AU
morning rise	-9076 Aug 26 j 05:45	14°♊21'55	
retrograde	-9076 Nov 21 j 16:21	16°♊15'36	
opposition	-9075 Feb 09 j 03:22	14°♊53'21	2°26'54
min. Earth dist.	-9075 Feb 09 j 12:38	14°♊52'43	29.31455 AU
direct	-9075 May 01 j 06:48	13°♊29'27	
evening set	-9075 Jul 29 j 11:42	15°♊24'37	
conjunction	-9075 Aug 13 j 13:43	15°♊58'32	2°18'50
minimum elong	-9075 Aug 13 j 13:42	15°♊58'32	2°19'21
max. Earth dist.	-9075 Aug 13 j 04:00	15°♊57'37	31.31379 AU
morning rise	-9075 Aug 28 j 14:21	16°♊32'21	
retrograde	-9075 Nov 24 j 03:36	18°♊26'12	
opposition	-9074 Feb 11 j 16:09	17°♊03'55	2°29'41
min. Earth dist.	-9074 Feb 12 j 01:42	17°♊03'17	29.31646 AU
direct	-9074 May 03 j 16:17	15°♊40'08	
evening set	-9074 Jul 31 j 21:06	17°♊35'14	
conjunction	-9074 Aug 15 j 22:45	18°♊09'07	2°21'20
minimum elong	-9074 Aug 15 j 22:44	18°♊09'07	2°21'53
max. Earth dist.	-9074 Aug 15 j 14:11	18°♊08'18	31.31513 AU
morning rise	-9074 Aug 30 j 23:02	18°♊42'55	
retrograde	-9074 Nov 26 j 15:03	20°♊36'55	
opposition	-9073 Feb 14 j 05:01	19°♊14'37	2°32'15
min. Earth dist.	-9073 Feb 14 j 13:03	19°♊14'05	29.31716 AU
direct	-9073 May 06 j 05:14	17°♊50'54	
evening set	-9073 Aug 03 j 06:27	19°♊45'56	
conjunction	-9073 Aug 18 j 07:36	20°♊19'48	2°23'39
minimum elong	-9073 Aug 18 j 07:36	20°♊19'48	2°24'11
max. Earth dist.	-9073 Aug 17 j 22:56	20°♊18'59	31.31508 AU
morning rise	-9073 Sep 02 j 07:46	20°♊53'35	
retrograde	-9073 Nov 29 j 04:20	22°♊47'44	
opposition	-9072 Feb 16 j 18:01	21°♊25'23	2°34'37
min. Earth dist.	-9072 Feb 17 j 01:48	21°♊24'52	29.31654 AU
direct	-9072 May 07 j 15:47	20°♊01'43	
evening set	-9072 Aug 04 j 15:45	21°♊56'41	
conjunction	-9072 Aug 19 j 16:43	22°♊30'32	2°25'45
minimum elong	-9072 Aug 19 j 16:42	22°♊30'32	2°26'18
max. Earth dist.	-9072 Aug 19 j 09:37	22°♊29'51	31.31367 AU
morning rise	-9072 Sep 03 j 16:31	23°♊04'18	
retrograde	-9072 Nov 30 j 14:20	24°♊58'34	
opposition	-9071 Feb 18 j 06:47	23°♊36'10	2°36'46
min. Earth dist.	-9071 Feb 18 j 13:49	23°♊35'41	29.31438 AU
direct	-9071 May 10 j 04:23	22°♊12'32	
evening set	-9071 Aug 07 j 01:06	24°♊07'25	
conjunction	-9071 Aug 22 j 01:35	24°♊41'14	2°27'39
minimum elong	-9071 Aug 22 j 01:35	24°♊41'14	2°28'12
max. Earth dist.	-9071 Aug 21 j 18:10	24°♊40'32	31.31089 AU
morning rise	-9071 Sep 06 j 01:23	25°♊15'00	
retrograde	-9071 Dec 03 j 02:24	27°♊09'22	
opposition	-9070 Feb 20 j 19:40	25°♊46'54	2°38'41
min. Earth dist.	-9070 Feb 21 j 01:43	25°♊46'30	29.31115 AU
direct	-9070 May 12 j 16:02	24°♊23'18	
evening set	-9070 Aug 09 j 10:04	26°♊18'05	
conjunction	-9070 Aug 24 j 10:25	26°♊51'53	2°29'20
minimum elong	-9070 Aug 24 j 10:25	26°♊51'53	2°29'55
max. Earth dist.	-9070 Aug 24 j 04:57	26°♊51'22	31.30715 AU
morning rise	-9070 Sep 08 j 09:55	27°♊25'38	
retrograde	-9070 Dec 05 j 12:15	29°♊20'07	
opposition	-9069 Feb 23 j 08:42	27°♊57'33	2°40'22
min. Earth dist.	-9069 Feb 23 j 14:22	27°♊57'10	29.30715 AU
direct	-9069 May 15 j 05:36	26°♊33'59	
evening set	-9069 Aug 11 j 19:11	28°♊28'39	
conjunction	-9069 Aug 26 j 19:09	29°♊02'25	2°30'49
minimum elong	-9069 Aug 26 j 19:09	29°♊02'25	2°31'22
max. Earth dist.	-9069 Aug 26 j 13:54	29°♊01'56	31.30310 AU
morning rise	-9069 Sep 10 j 18:40	29°♊36'11	
	-9069 Sep 21 j 19:22	0°♋	
retrograde	-9069 Dec 08 j 00:03	1°♋30'46	
opposition	-9068 Feb 25 j 21:30	0°♋08'07	2°41'50
min. Earth dist.	-9068 Feb 26 j 01:11	0°♋07'52	29.30324 AU
	-9068 Mar 01 j 22:29	30°℞♊	
direct	-9068 May 16 j 17:00	28°♊44'33	
	-9068 Jul 25 j 14:24	0°♋	
evening set	-9068 Aug 13 j 04:04	0°♋39'07	
conjunction	-9068 Aug 28 j 03:54	1°♋12'53	2°32'04
minimum elong	-9068 Aug 28 j 03:54	1°♋12'53	2°32'39
max. Earth dist.	-9068 Aug 28 j 00:17	1°♋12'32	31.29924 AU
morning rise	-9068 Sep 12 j 03:16	1°♋46'38	
retrograde	-9068 Dec 09 j 08:44	3°♋41'20	
opposition	-9067 Feb 27 j 10:27	2°♋18'37	2°43'04
min. Earth dist.	-9067 Feb 27 j 13:56	2°♋18'23	29.29975 AU
direct	-9067 May 19 j 04:33	0°♋55'05	
evening set	-9067 Aug 15 j 13:01	2°♋49'33	
conjunction	-9067 Aug 30 j 12:36	3°♋23'18	2°33'07
minimum elong	-9067 Aug 30 j 12:36	3°♋23'18	2°33'40
max. Earth dist.	-9067 Aug 30 j 10:00	3°♋23'03	31.29617 AU
morning rise	-9067 Sep 14 j 11:55	3°♋57'03	
retrograde	-9067 Dec 11 j 19:28	5°♋51'53	
opposition	-9066 Mar 01 j 23:12	4°♋29'06	2°44'04
min. Earth dist.	-9066 Mar 02 j 00:24	4°♋29'01	29.29707 AU

Attention, astronomical year style is used: The year -9066 in astronomical counting style is the year 9067 BCE in historical counting style.

direct	-9066 May 21 j 15:35	3°♓05'37	
evening set	-9066 Aug 17 j 21:57	5°♓00'00	
conjunction	-9066 Sep 01 j 21:21	5°♓33'45	2°33'57
minimum elong	-9066 Sep 01 j 21:21	5°♓33'45	2°34'31
max. Earth dist.	-9066 Sep 01 j 19:45	5°♓33'36	31.29388 AU
morning rise	-9066 Sep 16 j 20:41	6°♓07'30	
retrograde	-9066 Dec 14 j 06:51	8°♓02'29	
opposition	-9065 Mar 04 j 12:15	6°♓39'39	2°44'50
min. Earth dist.	-9065 Mar 04 j 13:13	6°♓39'35	29.29528 AU
direct	-9065 May 24 j 01:00	5°♓16'15	
evening set	-9065 Aug 20 j 06:42	7°♓10'32	
conjunction	-9065 Sep 04 j 06:05	7°♓44'16	2°34'33
minimum elong	-9065 Sep 04 j 06:05	7°♓44'16	2°35'06
max. Earth dist.	-9065 Sep 04 j 06:16	7°♓44'17	31.29243 AU
morning rise	-9065 Sep 19 j 05:22	8°♓18'02	
retrograde	-9065 Dec 16 j 18:14	10°♓13'09	
opposition	-9064 Mar 06 j 01:10	8°♓50'18	2°45'22
min. Earth dist.	-9064 Mar 06 j 00:13	8°♓50'22	29.29392 AU
direct	-9064 May 25 j 13:00	7°♓26'58	
evening set	-9064 Aug 21 j 15:42	9°♓21'12	
conjunction	-9064 Sep 05 j 14:52	9°♓54'56	2°34'56
minimum elong	-9064 Sep 05 j 14:52	9°♓54'56	2°35'30
max. Earth dist.	-9064 Sep 05 j 15:11	9°♓54'58	31.29114 AU
morning rise	-9064 Sep 20 j 14:22	10°♓28'42	
retrograde	-9064 Dec 18 j 07:39	12°♓23'58	
opposition	-9063 Mar 08 j 14:02	11°♓01'05	2°45'39
min. Earth dist.	-9063 Mar 08 j 12:38	11°♓01'11	29.29267 AU
direct	-9063 May 27 j 21:55	9°♓37'50	
evening set	-9063 Aug 24 j 00:34	11°♓32'00	
conjunction	-9063 Sep 07 j 23:50	12°♓05'44	2°35'05
minimum elong	-9063 Sep 07 j 23:50	12°♓05'44	2°35'39
max. Earth dist.	-9063 Sep 08 j 02:03	12°♓05'57	31.28965 AU
morning rise	-9063 Sep 22 j 23:14	12°♓39'31	
retrograde	-9063 Dec 20 j 18:23	14°♓34'56	
opposition	-9062 Mar 11 j 03:05	13°♓12'01	2°45'42
min. Earth dist.	-9062 Mar 11 j 00:42	13°♓12'10	29.29079 AU
direct	-9062 May 30 j 09:48	11°♓48'50	
evening set	-9062 Aug 26 j 09:34	13°♓42'56	
conjunction	-9062 Sep 10 j 08:38	14°♓16'40	2°35'01
minimum elong	-9062 Sep 10 j 08:38	14°♓16'40	2°35'36
max. Earth dist.	-9062 Sep 10 j 10:42	14°♓16'52	31.28739 AU
morning rise	-9062 Sep 25 j 08:19	14°♓50'28	
retrograde	-9062 Dec 23 j 08:00	16°♓46'02	
opposition	-9061 Mar 13 j 16:15	15°♓23'04	2°45'31
min. Earth dist.	-9061 Mar 13 j 12:52	15°♓23'17	29.28805 AU
direct	-9061 Jun 01 j 20:52	13°♓59'57	
evening set	-9061 Aug 28 j 18:34	15°♓53'58	
conjunction	-9061 Sep 12 j 17:47	16°♓27'42	2°34'44
minimum elong	-9061 Sep 12 j 17:48	16°♓27'42	2°35'17
max. Earth dist.	-9061 Sep 12 j 21:31	16°♓28'04	31.28392 AU
morning rise	-9061 Sep 27 j 17:29	17°♓01'31	
retrograde	-9061 Dec 25 j 19:22	18°♓57'13	
opposition	-9060 Mar 15 j 05:22	17°♓34'11	2°45'05
min. Earth dist.	-9060 Mar 15 j 01:53	17°♓34'26	29.28387 AU
direct	-9060 Jun 03 j 09:36	16°♓11'07	
evening set	-9060 Aug 30 j 03:39	18°♓05'03	
conjunction	-9060 Sep 14 j 02:52	18°♓38'48	2°34'13
minimum elong	-9060 Sep 14 j 02:52	18°♓38'48	2°34'47
max. Earth dist.	-9060 Sep 14 j 06:29	18°♓39'09	31.27906 AU
morning rise	-9060 Sep 29 j 02:53	19°♓12'39	
retrograde	-9060 Dec 27 j 07:59	21°♓08'27	
opposition	-9059 Mar 17 j 18:26	19°♓45'21	2°44'26
min. Earth dist.	-9059 Mar 17 j 13:25	19°♓45'42	29.27818 AU
direct	-9059 Jun 05 j 20:55	18°♓22'18	
evening set	-9059 Sep 01 j 12:38	20°♓16'08	
conjunction	-9059 Sep 16 j 11:58	20°♓49'54	2°33'30
minimum elong	-9059 Sep 16 j 11:58	20°♓49'54	2°34'02
max. Earth dist.	-9059 Sep 16 j 16:34	20°♓50'20	31.27252 AU
morning rise	-9059 Oct 01 j 12:09	21°♓23'46	
retrograde	-9059 Dec 29 j 17:47	23°♓19'41	
opposition	-9058 Mar 20 j 07:38	21°♓56'30	2°43'32
min. Earth dist.	-9058 Mar 20 j 02:52	21°♓56'49	29.27094 AU
direct	-9058 Jun 08 j 08:56	20°♓33'28	
evening set	-9058 Sep 03 j 21:36	22°♓27'11	
conjunction	-9058 Sep 18 j 21:05	23°♓00'57	2°32'33
minimum elong	-9058 Sep 18 j 21:05	23°♓00'57	2°33'06
max. Earth dist.	-9058 Sep 19 j 02:30	23°♓01'28	31.26482 AU
morning rise	-9058 Oct 03 j 21:32	23°♓34'50	
retrograde	-9057 Jan 01 j 05:14	25°♓30'51	
opposition	-9057 Mar 22 j 20:42	24°♓07'35	2°42'24
min. Earth dist.	-9057 Mar 22 j 14:04	24°♓08'01	29.26268 AU
direct	-9057 Jun 10 j 20:47	22°♓44'33	
evening set	-9057 Sep 06 j 06:28	24°♓38'08	
conjunction	-9057 Sep 21 j 06:04	25°♓11'56	2°31'23
minimum elong	-9057 Sep 21 j 06:04	25°♓11'56	2°31'55
max. Earth dist.	-9057 Sep 21 j 12:03	25°♓12'30	31.25624 AU
morning rise	-9057 Oct 06 j 06:56	25°♓45'50	
retrograde	-9056 Jan 03 j 16:29	27°♓41'58	
opposition	-9056 Mar 24 j 09:51	26°♓18'34	2°41'03
min. Earth dist.	-9056 Mar 24 j 03:18	26°♓19'01	29.25398 AU
direct	-9056 Jun 12 j 06:51	24°♓55'33	
evening set	-9056 Sep 07 j 15:18	26°♓49'01	
conjunction	-9056 Sep 22 j 15:13	27°♓22'49	2°30'00
minimum elong	-9056 Sep 22 j 15:13	27°♓22'49	2°30'32
max. Earth dist.	-9056 Sep 22 j 22:55	27°♓23'33	31.24756 AU
morning rise	-9056 Oct 07 j 16:17	27°♓56'46	
retrograde	-9055 Jan 05 j 03:20	29°♓52'59	
opposition	-9055 Mar 26 j 22:37	28°♓29'30	2°39'28
min. Earth dist.	-9055 Mar 26 j 14:13	28°♓30'04	29.24537 AU
direct	-9055 Jun 14 j 18:40	27°♓06'28	
evening set	-9055 Sep 10 j 00:15	28°♓59'52	
conjunction	-9055 Sep 25 j 00:12	29°♓33'41	2°28'25
minimum elong	-9055 Sep 25 j 00:13	29°♓33'41	2°28'55
max. Earth dist.	-9055 Sep 25 j 08:03	29°♓34'26	31.23928 AU
	-9055 Oct 06 j 15:20	0°♌	
morning rise	-9055 Oct 10 j 01:47	0°♌07'39	
retrograde	-9054 Jan 07 j 16:30	2°♌04'00	
opposition	-9054 Mar 29 j 11:40	0°♌40'25	2°37'38
min. Earth dist.	-9054 Mar 29 j 02:33	0°♌41'02	29.23752 AU
	-9054 Apr 24 j 12:16	30°℞♋	
direct	-9054 Jun 17 j 03:22	29°♋17'25	
	-9054 Aug 07 j 05:30	0°♌	
evening set	-9054 Sep 12 j 08:54	1°♌10'43	
conjunction	-9054 Sep 27 j 09:17	1°♌44'34	2°26'36
minimum elong	-9054 Sep 27 j 09:18	1°♌44'34	2°27'07
max. Earth dist.	-9054 Sep 27 j 19:22	1°♌45'31	31.23186 AU
morning rise	-9054 Oct 12 j 11:05	2°♌18'34	
retrograde	-9053 Jan 10 j 03:27	4°♌15'03	
opposition	-9053 Apr 01 j 00:40	2°♌51'25	2°35'36
min. Earth dist.	-9053 Mar 31 j 14:11	2°♌52'07	29.23046 AU
direct	-9053 Jun 19 j 14:47	1°♌28'27	

Attention, astronomical year style is used: The year -9053 in astronomical counting style is the year 9054 BCE in historical counting style.

evening set	-9053 Sep 14 j 17:51	3°♌21'41		
conjunction	-9053 Sep 29 j 18:23	3°♌55'33	2°24'34	
minimum elong	-9053 Sep 29 j 18:24	3°♌55'33	2°25'05	
max. Earth dist.	-9053 Sep 30 j 04:36	3°♌56'31	31.22535 AU	
morning rise	-9053 Oct 14 j 20:48	4°♌29'36		
retrograde	-9052 Jan 12 j 17:43	6°♌26'12		
opposition	-9052 Apr 02 j 13:31	5°♌02'31	2°33'19	
min. Earth dist.	-9052 Apr 02 j 01:48	5°♌03'18	29.22431 AU	
direct	-9052 Jun 21 j 01:03	3°♌39'37		
evening set	-9052 Sep 16 j 02:40	5°♌32'47		
conjunction	-9052 Oct 01 j 03:41	6°♌06'42	2°22'20	
minimum elong	-9052 Oct 01 j 03:41	6°♌06'42	2°22'51	
max. Earth dist.	-9052 Oct 01 j 15:47	6°♌07'50	31.21943 AU	
morning rise	-9052 Oct 16 j 06:26	6°♌40'47		
retrograde	-9051 Jan 14 j 05:59	8°♌37'31		
opposition	-9051 Apr 05 j 02:30	7°♌13'48	2°30'49	
min. Earth dist.	-9051 Apr 04 j 14:25	7°♌14'37	29.21847 AU	
direct	-9051 Jun 23 j 12:55	5°♌50'58		
evening set	-9051 Sep 18 j 11:35	7°♌44'05		
conjunction	-9051 Oct 03 j 12:50	8°♌18'01	2°19'54	
minimum elong	-9051 Oct 03 j 12:51	8°♌18'01	2°20'23	
max. Earth dist.	-9051 Oct 04 j 01:18	8°♌19'12	31.21380 AU	
morning rise	-9051 Oct 18 j 16:08	8°♌52'09		
retrograde	-9050 Jan 16 j 19:15	10°♌49'01		
opposition	-9050 Apr 07 j 15:26	9°♌25'16	2°28'05	
min. Earth dist.	-9050 Apr 07 j 01:37	9°♌26'12	29.21272 AU	
direct	-9050 Jun 25 j 23:30	8°♌02'30		
evening set	-9050 Sep 20 j 20:38	9°♌55'33		
conjunction	-9050 Oct 05 j 22:17	10°♌29'31	2°17'14	
minimum elong	-9050 Oct 05 j 22:17	10°♌29'32	2°17'44	
max. Earth dist.	-9050 Oct 06 j 11:46	10°♌30'48	31.20786 AU	
morning rise	-9050 Oct 21 j 02:04	11°♌03'43		
retrograde	-9049 Jan 19 j 06:21	13°♌00'43		
opposition	-9049 Apr 10 j 04:32	11°♌36'55	2°25'09	
min. Earth dist.	-9049 Apr 09 j 14:59	11°♌37'50	29.20651 AU	
direct	-9049 Jun 28 j 11:19	10°♌14'13		
evening set	-9049 Sep 23 j 05:43	12°♌07'12		
conjunction	-9049 Oct 08 j 07:50	12°♌41'13	2°14'23	
minimum elong	-9049 Oct 08 j 07:51	12°♌41'13	2°14'50	
max. Earth dist.	-9049 Oct 08 j 22:11	12°♌42'34	31.20137 AU	
morning rise	-9049 Oct 23 j 12:08	13°♌15'27		
	-9049 Dec 24 j 21:37	15°♌		
retrograde	-9048 Jan 21 j 19:20	15°♌12'34		
	-9048 Feb 19 j 05:28	15°℞♌		
opposition	-9048 Apr 11 j 17:27	13°♌48'43	2°21'59	
min. Earth dist.	-9048 Apr 11 j 02:17	13°♌49'45	29.19938 AU	
direct	-9048 Jun 29 j 23:20	12°♌26'03		
evening set	-9048 Sep 24 j 15:04	14°♌18'58		
conjunction	-9048 Oct 09 j 17:30	14°♌53'01	2°11'20	
minimum elong	-9048 Oct 09 j 17:31	14°♌53'01	2°11'47	
max. Earth dist.	-9048 Oct 10 j 07:52	14°♌54'23	31.19364 AU	
	-9048 Oct 12 j 19:10	15°♌		
morning rise	-9048 Oct 24 j 22:26	15°♌27'18		
retrograde	-9047 Jan 23 j 06:44	17°♌24'32		
opposition	-9047 Apr 14 j 06:24	16°♌00'38	2°18'38	
min. Earth dist.	-9047 Apr 13 j 15:47	16°♌01'37	29.19102 AU	
	-9047 May 25 j 23:54	15°℞♌		
direct	-9047 Jul 02 j 09:23	14°♌37'58		
	-9047 Aug 07 j 12:04	15°♌		
evening set	-9047 Sep 27 j 00:19	16°♌30'48		
conjunction	-9047 Oct 12 j 03:21	17°♌04'53	2°08'06	
minimum elong	-9047 Oct 12 j 03:22	17°♌04'54	2°08'31	
max. Earth dist.	-9047 Oct 12 j 19:01	17°♌06'23	31.18471 AU	
morning rise	-9047 Oct 27 j 08:43	17°♌39'14		
retrograde	-9046 Jan 25 j 17:31	19°♌36'33		
opposition	-9046 Apr 16 j 19:20	18°♌12'33	2°15'04	
min. Earth dist.	-9046 Apr 16 j 03:19	18°♌13'39	29.18130 AU	
direct	-9046 Jul 04 j 21:13	16°♌49'54		
evening set	-9046 Sep 29 j 09:34	18°♌42'38		
conjunction	-9046 Oct 14 j 12:57	19°♌16'45	2°04'40	
minimum elong	-9046 Oct 14 j 12:58	19°♌16'45	2°05'06	
max. Earth dist.	-9046 Oct 15 j 04:11	19°♌18'12	31.17452 AU	
morning rise	-9046 Oct 29 j 19:07	19°♌51'08		
retrograde	-9045 Jan 28 j 06:16	21°♌48'33		
opposition	-9045 Apr 19 j 08:21	20°♌24'26	2°11'19	
min. Earth dist.	-9045 Apr 18 j 16:17	20°♌25'32	29.17059 AU	
direct	-9045 Jul 07 j 06:07	19°♌01'46		
evening set	-9045 Oct 01 j 18:49	20°♌54'23		
conjunction	-9045 Oct 16 j 22:53	21°♌28'33	2°01'04	
minimum elong	-9045 Oct 16 j 22:54	21°♌28'33	2°01'28	
max. Earth dist.	-9045 Oct 17 j 15:50	21°♌30'09	31.16347 AU	
morning rise	-9045 Nov 01 j 05:33	22°♌02'59		
retrograde	-9044 Jan 30 j 17:21	24°♌00'26		
opposition	-9044 Apr 20 j 21:01	22°♌36'14	2°07'22	
min. Earth dist.	-9044 Apr 20 j 04:08	22°♌37'23	29.15918 AU	
direct	-9044 Jul 08 j 17:55	21°♌13'31		
evening set	-9044 Oct 03 j 04:10	23°♌06'02		
conjunction	-9044 Oct 18 j 08:38	23°♌40'14	1°57'18	
minimum elong	-9044 Oct 18 j 08:39	23°♌40'14	1°57'42	
max. Earth dist.	-9044 Oct 19 j 01:24	23°♌41'49	31.15215 AU	
morning rise	-9044 Nov 02 j 16:05	24°♌14'43		
retrograde	-9043 Feb 01 j 07:12	26°♌12'14		
opposition	-9043 Apr 23 j 09:46	24°♌47'54	2°03'14	
min. Earth dist.	-9043 Apr 22 j 15:58	24°♌49'07	29.14795 AU	
direct	-9043 Jul 11 j 03:57	23°♌25'09		
evening set	-9043 Oct 05 j 13:19	25°♌17'35		
conjunction	-9043 Oct 20 j 18:24	25°♌51'50	1°53'21	
minimum elong	-9043 Oct 20 j 18:25	25°♌51'50	1°53'43	
max. Earth dist.	-9043 Oct 21 j 12:55	25°♌53'35	31.14112 AU	
morning rise	-9043 Nov 05 j 02:23	26°♌26'21		
retrograde	-9042 Feb 03 j 18:56	28°♌23'57		
opposition	-9042 Apr 25 j 22:32	26°♌59'31	1°58'56	
min. Earth dist.	-9042 Apr 25 j 04:20	27°♌00'45	29.13727 AU	
direct	-9042 Jul 13 j 15:15	25°♌36'45		
evening set	-9042 Oct 07 j 22:40	27°♌29'06		
conjunction	-9042 Oct 23 j 04:18	28°♌03'23	1°49'15	
minimum elong	-9042 Oct 23 j 04:19	28°♌03'23	1°49'37	
max. Earth dist.	-9042 Oct 23 j 23:15	28°♌05'11	31.13112 AU	
morning rise	-9042 Nov 07 j 13:00	28°♌37'58		
	-9042 Dec 20 j 19:56	0°♍		
retrograde	-9041 Feb 06 j 08:35	0°♍35'37		
	-9041 Mar 27 j 13:30	30°℞♌		
opposition	-9041 Apr 28 j 11:07	29°♌11'06	1°54'27	
min. Earth dist.	-9041 Apr 27 j 15:11	29°♌12'28	29.12778 AU	
direct	-9041 Jul 16 j 01:43	27°♌48'20		
evening set	-9041 Oct 10 j 08:03	29°♌40'38		
	-9041 Oct 18 j 23:52	0°♍		
conjunction	-9041 Oct 25 j 14:16	0°♍14'58	1°44'58	
minimum elong	-9041 Oct 25 j 14:17	0°♍14'58	1°45'18	
max. Earth dist.	-9041 Oct 26 j 10:13	0°♍16'51	31.12217 AU	
morning rise	-9041 Nov 09 j 23:42	0°♍49'36		

Attention, astronomical year style is used: The year -9040 in astronomical counting style is the year 9041 BCE in historical counting style.

retrograde	-9040 Feb 08 j 20:45	2°♑47'20	
opposition	-9040 Apr 29 j 23:49	1°♑22'46	1°49'48
min. Earth dist.	-9040 Apr 29 j 03:58	1°♑24'07	29.11933 AU
direct	-9040 Jul 17 j 13:18	0°♑00'02	
evening set	-9040 Oct 11 j 17:29	1°♑52'16	
conjunction	-9040 Oct 27 j 00:22	2°♑26'39	1°40'32
minimum elong	-9040 Oct 27 j 00:23	2°♑26'39	1°40'52
max. Earth dist.	-9040 Oct 27 j 21:27	2°♑28'39	31.11436 AU
morning rise	-9040 Nov 11 j 10:25	3°♑01'21	
retrograde	-9039 Feb 10 j 10:24	4°♑59'10	
opposition	-9039 May 02 j 12:14	3°♑34'34	1°44'59
min. Earth dist.	-9039 May 01 j 14:35	3°♑36'02	29.11183 AU
direct	-9039 Jul 20 j 01:05	2°♑11'52	
evening set	-9039 Oct 14 j 03:07	4°♑04'04	
conjunction	-9039 Oct 29 j 10:28	4°♑38'30	1°35'57
minimum elong	-9039 Oct 29 j 10:29	4°♑38'30	1°36'15
max. Earth dist.	-9039 Oct 30 j 07:46	4°♑40'31	31.10728 AU
morning rise	-9039 Nov 13 j 21:21	5°♑13'16	
retrograde	-9038 Feb 12 j 22:19	7°♑11'12	
min. Earth dist.	-9038 May 04 j 03:40	5°♑48'01	29.10500 AU
opposition	-9038 May 05 j 00:57	5°♑46'34	1°40'00
direct	-9038 Jul 22 j 10:45	4°♑23'55	
evening set	-9038 Oct 16 j 12:39	6°♑16'05	
conjunction	-9038 Oct 31 j 20:48	6°♑50'34	1°31'13
minimum elong	-9038 Oct 31 j 20:49	6°♑50'34	1°31'31
max. Earth dist.	-9038 Nov 01 j 19:40	6°♑52'44	31.10068 AU
morning rise	-9038 Nov 16 j 08:15	7°♑25'24	
retrograde	-9037 Feb 15 j 09:58	9°♑23'26	
opposition	-9037 May 07 j 13:31	7°♑58'47	1°34'52
min. Earth dist.	-9037 May 06 j 14:58	8°♑00'20	29.09825 AU
direct	-9037 Jul 24 j 22:15	6°♑36'11	
evening set	-9037 Oct 18 j 22:40	8°♑28'20	
conjunction	-9037 Nov 03 j 07:17	9°♑02'53	1°26'21
minimum elong	-9037 Nov 03 j 07:18	9°♑02'53	1°26'36
max. Earth dist.	-9037 Nov 04 j 05:32	9°♑04'59	31.09387 AU
morning rise	-9037 Nov 18 j 19:38	9°♑37'46	
retrograde	-9036 Feb 17 j 23:18	11°♑35'54	
min. Earth dist.	-9036 May 08 j 03:45	10°♑12'46	29.09120 AU
opposition	-9036 May 09 j 02:02	10°♑11'15	1°29'35
direct	-9036 Jul 26 j 06:43	8°♑48'41	
evening set	-9036 Oct 20 j 08:39	10°♑40'49	
conjunction	-9036 Nov 04 j 18:04	11°♑15'25	1°21'21
minimum elong	-9036 Nov 04 j 18:05	11°♑15'25	1°21'36
max. Earth dist.	-9036 Nov 05 j 17:40	11°♑17'38	31.08643 AU
morning rise	-9036 Nov 20 j 06:57	11°♑50'21	
retrograde	-9035 Feb 19 j 11:05	13°♑48'36	
opposition	-9035 May 11 j 14:37	12°♑23'54	1°24'10
min. Earth dist.	-9035 May 10 j 15:53	12°♑25'28	29.08316 AU
direct	-9035 Jul 28 j 18:04	11°♑01'22	
evening set	-9035 Oct 22 j 18:46	12°♑53'29	
conjunction	-9035 Nov 07 j 04:42	13°♑28'07	1°16'13
minimum elong	-9035 Nov 07 j 04:42	13°♑28'08	1°16'26
max. Earth dist.	-9035 Nov 08 j 03:37	13°♑30'17	31.07797 AU
morning rise	-9035 Nov 22 j 18:26	14°♑03'08	
retrograde	-9034 Feb 22 j 01:17	16°♑01'27	
min. Earth dist.	-9034 May 13 j 04:13	14°♑38'18	29.07407 AU
opposition	-9034 May 14 j 03:17	14°♑36'43	1°18'37
direct	-9034 Jul 31 j 03:47	13°♑14'11	
evening set	-9034 Oct 25 j 05:01	15°♑06'15	
conjunction	-9034 Nov 09 j 15:41	15°♑40'58	1°10'59
minimum elong	-9034 Nov 09 j 15:42	15°♑40'58	1°11'12
max. Earth dist.	-9034 Nov 10 j 15:33	15°♑43'12	31.06826 AU
morning rise	-9034 Nov 25 j 06:05	16°♑16'01	
retrograde	-9033 Feb 24 j 13:20	18°♑14'24	
opposition	-9033 May 16 j 15:49	16°♑49'36	1°12'57
min. Earth dist.	-9033 May 15 j 17:10	16°♑51'09	29.06371 AU
direct	-9033 Aug 02 j 14:34	15°♑27'02	
evening set	-9033 Oct 27 j 15:20	17°♑19'05	
conjunction	-9033 Nov 12 j 02:41	17°♑53'50	1°05'38
minimum elong	-9033 Nov 12 j 02:41	17°♑53'50	1°05'49
max. Earth dist.	-9033 Nov 13 j 02:16	17°♑56'03	31.05759 AU
morning rise	-9033 Nov 27 j 17:52	18°♑28'57	
retrograde	-9032 Feb 27 j 03:36	20°♑27'22	
min. Earth dist.	-9032 May 17 j 04:37	19°♑04'07	29.05256 AU
opposition	-9032 May 18 j 04:13	19°♑02'29	1°07'12
direct	-9032 Aug 04 j 01:18	17°♑39'53	
evening set	-9032 Oct 29 j 01:41	19°♑31'53	
conjunction	-9032 Nov 13 j 13:38	20°♑06'41	1°00'12
minimum elong	-9032 Nov 13 j 13:39	20°♑06'41	1°00'22
max. Earth dist.	-9032 Nov 14 j 13:34	20°♑08'56	31.04615 AU
morning rise	-9032 Nov 29 j 05:32	20°♑41'51	
retrograde	-9031 Feb 28 j 16:25	22°♑40'18	
opposition	-9031 May 20 j 16:34	21°♑15'20	1°01'20
min. Earth dist.	-9031 May 19 j 17:36	21°♑16'55	29.04104 AU
direct	-9031 Aug 06 j 13:23	19°♑52'42	
evening set	-9031 Oct 31 j 12:01	21°♑44'39	
conjunction	-9031 Nov 16 j 00:43	22°♑19'30	0°54'40
minimum elong	-9031 Nov 16 j 00:43	22°♑19'30	0°54'48
max. Earth dist.	-9031 Nov 17 j 01:28	22°♑21'50	31.03490 AU
morning rise	-9031 Dec 01 j 17:15	22°♑54'43	
retrograde	-9030 Mar 03 j 06:44	24°♑53'12	
min. Earth dist.	-9030 May 22 j 04:20	23°♑29'49	29.02998 AU
opposition	-9030 May 23 j 04:45	23°♑28'08	0°55'23
direct	-9030 Aug 09 j 01:51	22°♑05'27	
evening set	-9030 Nov 02 j 22:32	23°♑57'22	
conjunction	-9030 Nov 18 j 11:45	24°♑32'16	0°49'04
minimum elong	-9030 Nov 18 j 11:46	24°♑32'16	0°49'11
max. Earth dist.	-9030 Nov 19 j 12:25	24°♑34'36	31.02421 AU
morning rise	-9030 Dec 04 j 05:08	25°♑07'33	
retrograde	-9029 Mar 05 j 18:32	27°♑06'04	
opposition	-9029 May 25 j 17:03	25°♑40'56	0°49'20
min. Earth dist.	-9029 May 24 j 17:14	25°♑42'35	29.01980 AU
direct	-9029 Aug 11 j 12:00	24°♑18'14	
evening set	-9029 Nov 05 j 09:05	26°♑10'07	
conjunction	-9029 Nov 20 j 23:07	26°♑45'04	0°43'23
minimum elong	-9029 Nov 20 j 23:08	26°♑45'04	0°43'28
max. Earth dist.	-9029 Nov 22 j 01:11	26°♑47'31	31.01461 AU
morning rise	-9029 Dec 06 j 17:03	27°♑20'24	
retrograde	-9028 Mar 07 j 06:44	29°♑18'56	
min. Earth dist.	-9028 May 26 j 03:57	27°♑55'30	29.01068 AU
opposition	-9028 May 27 j 04:59	27°♑53'46	0°43'13
direct	-9028 Aug 13 j 00:09	26°♑31'02	
evening set	-9028 Nov 06 j 19:52	28°♑22'55	
conjunction	-9028 Nov 22 j 10:23	28°♑57'55	0°37'38
minimum elong	-9028 Nov 22 j 10:24	28°♑57'55	0°37'43
max. Earth dist.	-9028 Nov 23 j 11:49	29°♑00'19	31.00614 AU
morning rise	-9028 Dec 08 j 05:10	29°♑33'18	
	-9028 Dec 20 j 16:18	0°♒	
retrograde	-9027 Mar 09 j 20:17	1°♒31'53	
opposition	-9027 May 29 j 17:10	0°♒06'41	0°37'02
min. Earth dist.	-9027 May 28 j 16:16	0°♒08'25	29.00280 AU

Attention, astronomical year style is used: The year -9027 in astronomical counting style is the year 9028 BCE in historical counting style.

	-9027 Jun 02 j 18:03	30°♑	
direct	-9027 Aug 15 j 09:23	28°♑43'58	
	-9027 Oct 23 j 06:00	0°♎	
evening set	-9027 Nov 09 j 06:27	0°♎35'51	
conjunction	-9027 Nov 24 j 21:46	1°♎10'53	0°31'49
minimum elong	-9027 Nov 24 j 21:47	1°♎10'53	0°31'52
max. Earth dist.	-9027 Nov 26 j 00:44	1°♎13'26	30.99875 AU
morning rise	-9027 Dec 10 j 17:04	1°♎46'20	
retrograde	-9026 Mar 12 j 07:24	3°♎44'58	
min. Earth dist.	-9026 May 31 j 03:49	2°♎21'31	28.99575 AU
opposition	-9026 Jun 01 j 05:17	2°♎19'45	0°30'47
direct	-9026 Aug 17 j 20:53	0°♎57'02	
evening set	-9026 Nov 11 j 17:29	2°♎48'56	
conjunction	-9026 Nov 27 j 09:21	3°♎24'01	0°25'57
minimum elong	-9026 Nov 27 j 09:21	3°♎24'01	0°26'00
max. Earth dist.	-9026 Nov 28 j 11:41	3°♎26'30	30.99217 AU
morning rise	-9026 Dec 13 j 05:28	3°♎59'31	
retrograde	-9025 Mar 14 j 20:47	5°♎58'13	
opposition	-9025 Jun 03 j 17:18	4°♎32'59	0°24'29
min. Earth dist.	-9025 Jun 02 j 15:39	4°♎34'46	28.98940 AU
direct	-9025 Aug 20 j 06:00	3°♎10'17	
evening set	-9025 Nov 14 j 04:40	5°♎02'12	
conjunction	-9025 Nov 29 j 21:13	5°♎37'21	0°20'02
minimum elong	-9025 Nov 29 j 21:14	5°♎37'21	0°20'02
max. Earth dist.	-9025 Dec 01 j 00:26	5°♎39'55	30.98581 AU
morning rise	-9025 Dec 15 j 17:54	6°♎12'54	
retrograde	-9024 Mar 16 j 08:48	8°♎11'39	
min. Earth dist.	-9024 Jun 04 j 04:20	6°♎48'09	28.98295 AU
opposition	-9024 Jun 05 j 05:23	6°♎46'25	0°18'08
direct	-9024 Aug 21 j 16:03	5°♎23'43	
evening set	-9024 Nov 15 j 15:59	7°♎15'41	
conjunction	-9024 Dec 01 j 09:07	7°♎50'52	0°14'05
minimum elong	-9024 Dec 01 j 09:07	7°♎50'52	0°14'05
behind sun begin	-9024 Dec 01 j 05:55	7°♎50'35	
behind sun end	-9024 Dec 01 j 12:19	7°♎51'09	
max. Earth dist.	-9024 Dec 02 j 11:51	7°♎53'23	30.97926 AU
morning rise	-9024 Dec 17 j 06:26	8°♎26'27	
retrograde	-9023 Mar 18 j 23:16	10°♎25'15	
opposition	-9023 Jun 07 j 17:23	9°♎00'01	0°11'45
min. Earth dist.	-9023 Jun 06 j 15:44	9°♎01'48	28.97607 AU
direct	-9023 Aug 24 j 02:37	7°♎37'18	
evening set	-9023 Nov 18 j 03:34	9°♎29'19	
conjunction	-9023 Dec 03 j 21:15	10°♎04'33	0°08'08
minimum elong	-9023 Dec 03 j 21:15	10°♎04'33	0°08'05
behind sun begin	-9023 Dec 03 j 15:28	10°♎04'02	
behind sun end	-9023 Dec 04 j 03:03	10°♎05'04	
max. Earth dist.	-9023 Dec 04 j 23:47	10°♎07'02	30.97188 AU
morning rise	-9023 Dec 19 j 19:12	10°♎40'11	
retrograde	-9022 Mar 21 j 12:26	12°♎39'02	
min. Earth dist.	-9022 Jun 09 j 05:04	11°♎15'28	28.96822 AU
opposition	-9022 Jun 10 j 05:30	11°♎13'46	0°05'21
direct	-9022 Aug 26 j 14:01	9°♎51'02	
evening set	-9022 Nov 20 j 15:11	11°♎43'04	
conjunction	-9022 Dec 06 j 09:36	12°♎18'21	0°02'08
minimum elong	-9022 Dec 06 j 09:36	12°♎18'21	0°02'05
behind sun begin	-9022 Dec 06 j 03:06	12°♎17'46	
behind sun end	-9022 Dec 06 j 16:06	12°♎18'56	
max. Earth dist.	-9022 Dec 07 j 12:09	12°♎20'50	30.96354 AU
morning rise	-9022 Dec 22 j 08:05	12°♎54'02	
retrograde	-9021 Mar 24 j 02:56	14°♎52'53	
desc. node	-9021 Apr 13 j 13:21	14°♎46'13	
opposition	-9021 Jun 12 j 17:29	13°♎27'35	-0°01'04
min. Earth dist.	-9021 Jun 11 j 16:22	13°♎29'20	28.95918 AU
direct	-9021 Aug 29 j 02:31	12°♎04'48	
evening set	-9021 Nov 23 j 03:07	13°♎56'52	
conjunction	-9021 Dec 08 j 21:58	14°♎32'12	-0°03'59
minimum elong	-9021 Dec 08 j 21:59	14°♎32'12	0°04'04
behind sun begin	-9021 Dec 08 j 15:34	14°♎31'37	
behind sun end	-9021 Dec 09 j 04:25	14°♎32'46	
max. Earth dist.	-9021 Dec 09 j 23:32	14°♎34'35	30.95388 AU
morning rise	-9021 Dec 24 j 21:11	15°♎07'55	
retrograde	-9020 Mar 25 j 15:49	17°♎06'47	
min. Earth dist.	-9020 Jun 13 j 05:40	15°♎43'05	28.94906 AU
opposition	-9020 Jun 14 j 05:24	15°♎41'26	-0°07'29
direct	-9020 Aug 30 j 13:05	14°♎18'35	
evening set	-9020 Nov 24 j 14:54	16°♎10'40	
conjunction	-9020 Dec 10 j 10:31	16°♎46'02	-0°09'57
minimum elong	-9020 Dec 10 j 10:30	16°♎46'02	0°10'03
behind sun begin	-9020 Dec 10 j 05:16	16°♎45'33	
behind sun end	-9020 Dec 10 j 15:45	16°♎46'30	
max. Earth dist.	-9020 Dec 11 j 12:45	16°♎48'29	30.94344 AU
morning rise	-9020 Dec 26 j 10:06	17°♎21'48	
retrograde	-9019 Mar 28 j 05:15	19°♎20'38	
opposition	-9019 Jun 16 j 17:11	17°♎55'14	-0°13'53
min. Earth dist.	-9019 Jun 15 j 16:53	17°♎56'55	28.93833 AU
direct	-9019 Sep 02 j 02:04	16°♎32'19	
evening set	-9019 Nov 27 j 02:45	18°♎24'25	
conjunction	-9019 Dec 12 j 22:45	18°♎59'49	-0°15'55
minimum elong	-9019 Dec 12 j 22:45	18°♎59'49	0°16'02
max. Earth dist.	-9019 Dec 13 j 23:50	19°♎02'10	30.93268 AU
morning rise	-9019 Dec 28 j 23:05	19°♎35'37	
retrograde	-9018 Mar 30 j 18:53	21°♎34'27	
min. Earth dist.	-9018 Jun 18 j 05:25	20°♎10'38	28.92775 AU
opposition	-9018 Jun 19 j 05:02	20°♎08'59	-0°20'15
direct	-9018 Sep 04 j 12:21	18°♎46'00	
evening set	-9018 Nov 29 j 14:43	20°♎38'07	
conjunction	-9018 Dec 15 j 11:25	21°♎13'34	-0°21'51
minimum elong	-9018 Dec 15 j 11:25	21°♎13'34	0°21'59
max. Earth dist.	-9018 Dec 16 j 13:33	21°♎16'01	30.92227 AU
morning rise	-9018 Dec 31 j 12:06	21°♎49'25	
retrograde	-9017 Apr 02 j 05:54	23°♎48'14	
opposition	-9017 Jun 21 j 16:33	22°♎22'43	-0°26'36
min. Earth dist.	-9017 Jun 20 j 16:46	22°♎24'23	28.91772 AU
direct	-9017 Sep 07 j 00:22	20°♎59'40	
evening set	-9017 Dec 02 j 02:54	22°♎51'50	
conjunction	-9017 Dec 18 j 00:01	23°♎27'18	-0°27'46
minimum elong	-9017 Dec 18 j 00:00	23°♎27'18	0°27'56
max. Earth dist.	-9017 Dec 19 j 01:10	23°♎29'40	30.91278 AU
morning rise	-9016 Jan 03 j 01:19	24°♎03'11	
retrograde	-9016 Apr 03 j 18:54	26°♎02'00	
min. Earth dist.	-9016 Jun 22 j 04:16	24°♎38'07	28.90889 AU
opposition	-9016 Jun 23 j 04:08	24°♎36'27	-0°32'54
direct	-9016 Sep 08 j 09:59	23°♎13'21	
evening set	-9016 Dec 03 j 14:58	25°♎05'34	
conjunction	-9016 Dec 19 j 12:37	25°♎41'05	-0°33'39
minimum elong	-9016 Dec 19 j 12:37	25°♎41'05	0°33'49
max. Earth dist.	-9016 Dec 20 j 14:39	25°♎43'32	30.90443 AU
morning rise	-9015 Jan 04 j 14:16	26°♎17'00	
retrograde	-9015 Apr 06 j 06:28	28°♎15'49	
opposition	-9015 Jun 25 j 15:42	26°♎50'16	-0°39'10
min. Earth dist.	-9015 Jun 24 j 16:18	26°♎51'54	28.90124 AU
direct	-9015 Sep 10 j 19:55	25°♎27'08	

Attention, astronomical year style is used: The year -9015 in astronomical counting style is the year 9016 BCE in historical counting style.

evening set	-9015 Dec 06 j 03:14	27°♎19'25	
conjunction	-9015 Dec 22 j 01:22	27°♎54'58	-0°39'28
minimum elong	-9015 Dec 22 j 01:22	27°♎54'58	0°39'40
max. Earth dist.	-9015 Dec 23 j 02:56	27°♎57'22	30.89757 AU
morning rise	-9014 Jan 07 j 03:31	28°♎30'54	
	-9014 Feb 24 j 14:35	0°♏	
retrograde	-9014 Apr 08 j 20:07	0°♏29'45	
	-9014 May 22 j 22:39	30°℞♎	
min. Earth dist.	-9014 Jun 27 j 03:03	29°♎05'53	28.89508 AU
opposition	-9014 Jun 28 j 03:06	29°♎04'12	-0°45'22
direct	-9014 Sep 13 j 06:23	27°♎41'02	
evening set	-9014 Dec 08 j 15:41	29°♎33'25	
	-9014 Dec 20 j 14:18	0°♏	
conjunction	-9014 Dec 24 j 14:16	0°♏09'00	-0°45'15
minimum elong	-9014 Dec 24 j 14:16	0°♏09'00	0°45'28
max. Earth dist.	-9014 Dec 25 j 15:48	0°♏11'23	30.89187 AU
morning rise	-9013 Jan 09 j 16:51	0°♏44'58	
retrograde	-9013 Apr 11 j 08:30	2°♏43'49	
opposition	-9013 Jun 30 j 14:38	1°♏18'18	-0°51'31
min. Earth dist.	-9013 Jun 29 j 15:41	1°♏19'54	28.88993 AU
	-9013 Aug 29 j 22:21	30°℞♎	
direct	-9013 Sep 15 j 17:22	29°♎55'07	
	-9013 Oct 02 j 11:26	0°♏	
evening set	-9013 Dec 11 j 04:19	1°♏47'36	
conjunction	-9013 Dec 27 j 03:26	2°♏23'13	-0°50'57
minimum elong	-9013 Dec 27 j 03:25	2°♏23'13	0°51'13
max. Earth dist.	-9013 Dec 28 j 04:58	2°♏25'37	30.88716 AU
morning rise	-9012 Jan 12 j 06:19	2°♏59'13	
retrograde	-9012 Apr 12 j 22:37	4°♏58'05	
min. Earth dist.	-9012 Jul 01 j 02:18	3°♏34'15	28.88550 AU
opposition	-9012 Jul 02 j 01:53	3°♏32'35	-0°57'35
direct	-9012 Sep 17 j 05:08	2°♏09'23	
evening set	-9012 Dec 12 j 17:12	4°♏01'59	
conjunction	-9012 Dec 28 j 16:35	4°♏37'38	-0°56'36
minimum elong	-9012 Dec 28 j 16:35	4°♏37'38	0°56'52
max. Earth dist.	-9012 Dec 29 j 17:11	4°♏39'56	30.88281 AU
morning rise	-9011 Jan 13 j 19:57	5°♏13'40	
retrograde	-9011 Apr 15 j 12:13	7°♏12'33	
opposition	-9011 Jul 04 j 13:23	5°♏47'05	-1°03'35
min. Earth dist.	-9011 Jul 03 j 15:18	5°♏48'38	28.88130 AU
direct	-9011 Sep 19 j 15:23	4°♏23'52	
evening set	-9011 Dec 15 j 06:01	6°♏16'34	
conjunction	-9011 Dec 31 j 05:59	6°♏52'15	-1°02'09
minimum elong	-9011 Dec 31 j 05:59	6°♏52'15	1°02'27
max. Earth dist.	-9010 Jan 01 j 06:58	6°♏54'35	30.87847 AU
morning rise	-9010 Jan 16 j 09:33	7°♏28'18	
retrograde	-9010 Apr 18 j 02:55	9°♏27'10	
min. Earth dist.	-9010 Jul 06 j 02:33	8°♏03'18	28.87668 AU
opposition	-9010 Jul 07 j 00:47	8°♏01'44	-1°09'28
direct	-9010 Sep 22 j 04:52	6°♏38'29	
evening set	-9010 Dec 17 j 19:21	8°♏31'17	
conjunction	-9009 Jan 02 j 19:33	9°♏07'00	-1°07'37
minimum elong	-9009 Jan 02 j 19:33	9°♏07'00	1°07'55
max. Earth dist.	-9009 Jan 03 j 18:40	9°♏09'10	30.87344 AU
morning rise	-9009 Jan 18 j 23:36	9°♏43'04	
retrograde	-9009 Apr 20 j 16:54	11°♏41'56	
opposition	-9009 Jul 09 j 12:10	10°♏16'30	-1°15'16
min. Earth dist.	-9009 Jul 08 j 15:16	10°♏17'58	28.87135 AU
direct	-9009 Sep 24 j 15:55	8°♏53'11	
evening set	-9009 Dec 20 j 08:38	10°♏46'05	
conjunction	-9008 Jan 05 j 09:23	11°♏21'49	-1°12'59
minimum elong	-9008 Jan 05 j 09:23	11°♏21'49	1°13'18
max. Earth dist.	-9008 Jan 06 j 08:44	11°♏24'00	30.86753 AU
morning rise	-9008 Jan 21 j 13:33	11°♏57'55	
retrograde	-9008 Apr 22 j 04:58	13°♏56'43	
opposition	-9008 Jul 10 j 23:32	12°♏31'17	-1°20'57
min. Earth dist.	-9008 Jul 10 j 03:05	12°♏32'43	28.86500 AU
direct	-9008 Sep 26 j 04:26	11°♏07'54	
evening set	-9008 Dec 21 j 21:57	13°♏00'51	
conjunction	-9007 Jan 06 j 22:55	13°♏36'37	-1°18'15
minimum elong	-9007 Jan 06 j 22:54	13°♏36'37	1°18'35
max. Earth dist.	-9007 Jan 07 j 20:31	13°♏38'38	30.86085 AU
morning rise	-9007 Jan 23 j 03:30	14°♏12'43	
	-9007 Feb 15 j 01:32	15°♏	
retrograde	-9007 Apr 24 j 18:51	16°♏11'28	
	-9007 Jul 05 j 03:46	15°℞♏	
opposition	-9007 Jul 13 j 10:51	14°♏46'00	-1°26'30
min. Earth dist.	-9007 Jul 12 j 14:57	14°♏47'24	28.85814 AU
direct	-9007 Sep 28 j 15:20	13°♏22'32	
	-9007 Dec 17 j 05:52	15°♏	
evening set	-9007 Dec 24 j 11:20	15°♏15'33	
conjunction	-9006 Jan 09 j 12:44	15°♏51'20	-1°23'23
minimum elong	-9006 Jan 09 j 12:43	15°♏51'20	1°23'44
max. Earth dist.	-9006 Jan 10 j 10:35	15°♏53'23	30.85374 AU
morning rise	-9006 Jan 25 j 17:28	16°♏27'27	
retrograde	-9006 Apr 27 j 06:15	18°♏26'08	
opposition	-9006 Jul 15 j 22:00	17°♏00'38	-1°31'55
min. Earth dist.	-9006 Jul 15 j 03:13	17°♏01'58	28.85110 AU
direct	-9006 Oct 01 j 02:20	15°♏37'04	
evening set	-9006 Dec 27 j 00:50	17°♏30'09	
conjunction	-9005 Jan 12 j 02:33	18°♏05'57	-1°28'23
minimum elong	-9005 Jan 12 j 02:32	18°♏05'57	1°28'46
max. Earth dist.	-9005 Jan 12 j 23:16	18°♏07'53	30.84691 AU
morning rise	-9005 Jan 28 j 07:36	18°♏42'04	
retrograde	-9005 Apr 29 j 18:55	20°♏40'40	
opposition	-9005 Jul 18 j 09:04	19°♏15'09	-1°37'12
min. Earth dist.	-9005 Jul 17 j 14:06	19°♏16'30	28.84462 AU
direct	-9005 Oct 03 j 13:46	17°♏51'29	
evening set	-9005 Dec 29 j 14:25	19°♏44'40	
conjunction	-9004 Jan 14 j 16:23	20°♏20'28	-1°33'15
minimum elong	-9004 Jan 14 j 16:22	20°♏20'28	1°33'39
max. Earth dist.	-9004 Jan 15 j 12:47	20°♏22'22	30.84065 AU
morning rise	-9004 Jan 30 j 21:34	20°♏56'35	
retrograde	-9004 May 01 j 05:52	22°♏55'07	
opposition	-9004 Jul 19 j 20:07	21°♏29'36	-1°42'20
min. Earth dist.	-9004 Jul 19 j 02:27	21°♏30'51	28.83904 AU
direct	-9004 Oct 05 j 00:30	20°♏05'50	
evening set	-9004 Dec 31 j 03:56	21°♏59'07	
conjunction	-9003 Jan 16 j 06:16	22°♏34'56	-1°37'59
minimum elong	-9003 Jan 16 j 06:15	22°♏34'55	1°38'24
max. Earth dist.	-9003 Jan 17 j 02:25	22°♏36'49	30.83573 AU
morning rise	-9003 Feb 01 j 11:36	23°♏11'03	
retrograde	-9003 May 03 j 19:21	25°♏09'31	
opposition	-9003 Jul 22 j 07:01	23°♏44'00	-1°47'19
min. Earth dist.	-9003 Jul 21 j 12:42	23°♏45'18	28.83489 AU
direct	-9003 Oct 07 j 12:11	22°♏20'10	
evening set	-9002 Jan 02 j 17:34	24°♏13'33	
conjunction	-9002 Jan 18 j 20:04	24°♏49'23	-1°42'34
minimum elong	-9002 Jan 18 j 20:03	24°♏49'23	1°42'59
max. Earth dist.	-9002 Jan 19 j 15:19	24°♏51'11	30.83221 AU
morning rise	-9002 Feb 04 j 01:40	25°♏25'31	

Attention, astronomical year style is used: The year -9002 in astronomical counting style is the year 9003 BCE in historical counting style.

retrograde	-9002 May 06 j 07:51	27°♑23'57	
opposition	-9002 Jul 24 j 18:06	25°♑58'27	-1°52'08
min. Earth dist.	-9002 Jul 24 j 01:09	25°♑59'39	28.83226 AU
direct	-9002 Oct 09 j 22:47	24°♑34'34	
evening set	-9001 Jan 05 j 07:19	26°♑28'05	
conjunction	-9001 Jan 21 j 10:14	27°♑03'56	-1°47'00
minimum elong	-9001 Jan 21 j 10:13	27°♑03'55	1°47'26
max. Earth dist.	-9001 Jan 22 j 05:50	27°♑05'45	30.83027 AU
morning rise	-9001 Feb 06 j 15:50	27°♑40'03	
retrograde	-9001 May 08 j 21:40	29°♑38'26	
min. Earth dist.	-9001 Jul 26 j 11:40	28°♑14'13	28.83099 AU
opposition	-9001 Jul 27 j 04:53	28°♑13'00	-1°56'47
direct	-9001 Oct 12 j 12:05	26°♑49'05	
evening set	-9000 Jan 07 j 21:20	28°♑42'44	
conjunction	-9000 Jan 24 j 00:19	29°♑18'36	-1°51'16
minimum elong	-9000 Jan 24 j 00:18	29°♑18'36	1°51'43
max. Earth dist.	-9000 Jan 24 j 18:18	29°♑20'17	30.82958 AU
morning rise	-9000 Feb 09 j 06:10	29°♑54'44	
	-9000 Feb 11 j 16:15	0°♐	
retrograde	-9000 May 10 j 11:26	1°♐53'05	
opposition	-9000 Jul 28 j 15:54	0°♐27'43	-2°01'16
min. Earth dist.	-9000 Jul 27 j 23:47	0°♐28'51	28.83098 AU
	-9000 Aug 14 j 05:21	30°℞♑	
direct	-9000 Oct 13 j 23:02	29°♑03'47	
	-9000 Dec 11 j 18:32	0°♐	
evening set	-8999 Jan 09 j 11:09	0°♐57'35	
conjunction	-8999 Jan 25 j 14:29	1°♐33'28	-1°55'22
minimum elong	-8999 Jan 25 j 14:28	1°♐33'28	1°55'50
max. Earth dist.	-8999 Jan 26 j 08:56	1°♐35'11	30.82987 AU
morning rise	-8999 Feb 10 j 20:15	2°♐09'36	
retrograde	-8999 May 13 j 00:23	4°♐07'55	
min. Earth dist.	-8999 Jul 30 j 11:09	2°♐43'44	28.83155 AU
opposition	-8999 Jul 31 j 02:47	2°♐42'38	-2°05'33
direct	-8999 Oct 16 j 11:25	1°♐18'41	
evening set	-8998 Jan 12 j 01:25	3°♐12'38	
conjunction	-8998 Jan 28 j 04:49	3°♐48'32	-1°59'18
minimum elong	-8998 Jan 28 j 04:49	3°♐48'32	1°59'46
max. Earth dist.	-8998 Jan 28 j 21:17	3°♐50'05	30.83055 AU
morning rise	-8998 Feb 13 j 10:50	4°♐24'41	
retrograde	-8998 May 15 j 15:22	6°♐22'57	
opposition	-8998 Aug 02 j 13:39	4°♐57'45	-2°09'39
min. Earth dist.	-8998 Aug 01 j 22:49	4°♐58'48	28.83231 AU
direct	-8998 Oct 18 j 22:32	3°♐33'47	
evening set	-8997 Jan 14 j 15:49	5°♐27'53	
conjunction	-8997 Jan 30 j 19:31	6°♐03'49	-2°03'02
minimum elong	-8997 Jan 30 j 19:31	6°♐03'48	2°03'32
max. Earth dist.	-8997 Jan 31 j 11:51	6°♐05'20	30.83094 AU
morning rise	-8997 Feb 16 j 01:26	6°♐39'57	
retrograde	-8997 May 18 j 03:20	8°♐38'11	
min. Earth dist.	-8997 Aug 04 j 11:20	7°♐13'59	28.83244 AU
opposition	-8997 Aug 05 j 00:39	7°♐13'03	-2°13'33
direct	-8997 Oct 21 j 09:52	5°♐49'03	
evening set	-8996 Jan 17 j 06:19	7°♐43'17	
conjunction	-8996 Feb 02 j 10:06	8°♐19'13	-2°06'36
minimum elong	-8996 Feb 02 j 10:06	8°♐19'13	2°07'06
max. Earth dist.	-8996 Feb 03 j 00:34	8°♐20'34	30.83066 AU
morning rise	-8996 Feb 18 j 16:07	8°♐55'22	
retrograde	-8996 May 19 j 16:26	10°♐53'30	
opposition	-8996 Aug 06 j 11:31	9°♐28'26	-2°17'15
min. Earth dist.	-8996 Aug 05 j 22:31	9°♐29'21	28.83178 AU
direct	-8996 Oct 22 j 21:38	8°♐04'22	
evening set	-8995 Jan 18 j 20:51	9°♐58'45	
conjunction	-8995 Feb 04 j 00:49	10°♐34'40	-2°09'58
minimum elong	-8995 Feb 04 j 00:48	10°♐34'40	2°10'29
max. Earth dist.	-8995 Feb 04 j 14:25	10°♐35'57	30.82945 AU
morning rise	-8995 Feb 20 j 06:48	11°♐10'49	
retrograde	-8995 May 22 j 03:41	13°♐08'52	
opposition	-8995 Aug 08 j 22:29	11°♐43'50	-2°20'45
min. Earth dist.	-8995 Aug 08 j 11:22	11°♐44'38	28.83030 AU
direct	-8995 Oct 25 j 08:22	10°♐19'42	
evening set	-8994 Jan 21 j 11:18	12°♐14'11	
conjunction	-8994 Feb 06 j 15:30	12°♐50'07	-2°13'08
minimum elong	-8994 Feb 06 j 15:29	12°♐50'07	2°13'39
max. Earth dist.	-8994 Feb 07 j 03:57	12°♐51'17	30.82771 AU
morning rise	-8994 Feb 22 j 21:32	13°♐26'15	
retrograde	-8994 May 24 j 16:57	15°♐24'12	
opposition	-8994 Aug 11 j 09:14	13°♐59'11	-2°24'02
min. Earth dist.	-8994 Aug 10 j 22:07	13°♐59'59	28.82834 AU
direct	-8994 Oct 27 j 20:06	12°♐34'57	
evening set	-8993 Jan 24 j 02:00	14°♐29'32	
conjunction	-8993 Feb 09 j 06:15	15°♐05'28	-2°16'06
minimum elong	-8993 Feb 09 j 06:14	15°♐05'28	2°16'38
max. Earth dist.	-8993 Feb 09 j 17:15	15°♐06'30	30.82556 AU
morning rise	-8993 Feb 25 j 12:18	15°♐41'36	
retrograde	-8993 May 27 j 03:57	17°♐39'26	
opposition	-8993 Aug 13 j 20:00	16°♐14'26	-2°27'05
min. Earth dist.	-8993 Aug 13 j 10:45	16°♐15'05	28.82638 AU
direct	-8993 Oct 30 j 07:29	14°♐50'06	
evening set	-8992 Jan 26 j 16:31	16°♐44'47	
conjunction	-8992 Feb 11 j 21:02	17°♐20'43	-2°18'51
minimum elong	-8992 Feb 11 j 21:01	17°♐20'43	2°19'23
max. Earth dist.	-8992 Feb 12 j 07:53	17°♐21'44	30.82378 AU
morning rise	-8992 Feb 28 j 02:57	17°♐56'49	
retrograde	-8992 May 28 j 16:30	19°♐54'32	
opposition	-8992 Aug 15 j 06:39	18°♐29'34	-2°29'55
min. Earth dist.	-8992 Aug 14 j 21:24	18°♐30'13	28.82493 AU
direct	-8992 Oct 31 j 21:16	17°♐05'08	
evening set	-8991 Jan 28 j 07:00	18°♐59'56	
conjunction	-8991 Feb 13 j 11:27	19°♐35'52	-2°21'24
minimum elong	-8991 Feb 13 j 11:27	19°♐35'52	2°21'57
max. Earth dist.	-8991 Feb 13 j 20:35	19°♐36'43	30.82271 AU
morning rise	-8991 Mar 01 j 17:30	20°♐11'57	
retrograde	-8991 May 31 j 05:16	22°♐09'33	
opposition	-8991 Aug 17 j 17:23	20°♐44'36	-2°32'31
min. Earth dist.	-8991 Aug 17 j 09:20	20°♐45'10	28.82456 AU
direct	-8991 Nov 03 j 08:39	19°♐20'04	
evening set	-8990 Jan 30 j 21:30	21°♐14'59	
conjunction	-8990 Feb 16 j 02:15	21°♐50'55	-2°23'43
minimum elong	-8990 Feb 16 j 02:14	21°♐50'55	2°24'16
max. Earth dist.	-8990 Feb 16 j 11:39	21°♐51'48	30.82286 AU
morning rise	-8990 Mar 04 j 08:04	22°♐26'59	
retrograde	-8990 Jun 02 j 17:52	24°♐24'28	
opposition	-8990 Aug 20 j 03:54	22°♐59'33	-2°34'53
min. Earth dist.	-8990 Aug 19 j 20:18	23°♐00'06	28.82536 AU
direct	-8990 Nov 05 j 21:45	21°♐34'58	
evening set	-8989 Feb 02 j 12:14	23°♐29'59	
conjunction	-8989 Feb 18 j 16:56	24°♐05'56	-2°25'50
minimum elong	-8989 Feb 18 j 16:55	24°♐05'56	2°26'23
max. Earth dist.	-8989 Feb 19 j 00:21	24°♐06'37	30.82436 AU
morning rise	-8989 Mar 06 j 22:52	24°♐41'59	
retrograde	-8989 Jun 05 j 08:28	26°♐39'21	

Attention, astronomical year style is used: The year -8989 in astronomical counting style is the year 8990 BCE in historical counting style.

opposition	-8989 Aug 22 j 14:32	25°♐14'30	-2°37'01
min. Earth dist.	-8989 Aug 22 j 07:27	25°♐15'00	28.82764 AU
direct	-8989 Nov 08 j 10:14	23°♐49'51	
evening set	-8988 Feb 05 j 02:46	25°♐45'00	
conjunction	-8988 Feb 21 j 07:39	26°♐20'57	-2°27'43
minimum elong	-8988 Feb 21 j 07:39	26°♐20'57	2°28'16
max. Earth dist.	-8988 Feb 21 j 15:22	26°♐21'40	30.82716 AU
morning rise	-8988 Mar 08 j 13:20	26°♐56'59	
retrograde	-8988 Jun 06 j 19:40	28°♐54'15	
opposition	-8988 Aug 24 j 01:11	27°♐29'28	-2°38'55
min. Earth dist.	-8988 Aug 23 j 19:18	27°♐29'53	28.83107 AU
direct	-8988 Nov 09 j 22:29	26°♐04'48	
evening set	-8987 Feb 06 j 17:28	28°♐00'04	
conjunction	-8987 Feb 22 j 22:21	28°♐36'01	-2°29'22
minimum elong	-8987 Feb 22 j 22:21	28°♐36'01	2°29'57
max. Earth dist.	-8987 Feb 23 j 04:24	28°♐36'35	30.83120 AU
morning rise	-8987 Mar 11 j 04:06	29°♐12'03	
	-8987 Apr 03 j 12:56	0°♑	
retrograde	-8987 Jun 09 j 09:29	1°♑09'12	
	-8987 Aug 17 j 09:28	30°℞♐	
opposition	-8987 Aug 26 j 11:40	29°♐44'31	-2°40'33
min. Earth dist.	-8987 Aug 26 j 05:55	29°♐44'56	28.83554 AU
direct	-8987 Nov 12 j 10:21	28°♐19'49	
	-8986 Feb 02 j 05:54	0°♑	
evening set	-8986 Feb 09 j 08:13	0°♑15'14	
conjunction	-8986 Feb 25 j 13:14	0°♑51'11	-2°30'48
minimum elong	-8986 Feb 25 j 13:14	0°♑51'11	2°31'21
max. Earth dist.	-8986 Feb 25 j 18:46	0°♑51'42	30.83580 AU
morning rise	-8986 Mar 13 j 18:50	1°♑27'13	
retrograde	-8986 Jun 11 j 21:19	3°♑24'15	
opposition	-8986 Aug 28 j 22:23	1°♑59'40	-2°41'57
min. Earth dist.	-8986 Aug 28 j 18:33	1°♑59'57	28.84027 AU
direct	-8986 Nov 14 j 21:12	0°♑34'56	
evening set	-8985 Feb 11 j 23:08	2°♑30'29	
conjunction	-8985 Feb 28 j 04:13	3°♑06'27	-2°31'59
minimum elong	-8985 Feb 28 j 04:13	3°♑06'27	2°32'34
max. Earth dist.	-8985 Feb 28 j 08:17	3°♑06'50	30.84047 AU
morning rise	-8985 Mar 16 j 09:44	3°♑42'28	
retrograde	-8985 Jun 14 j 10:23	5°♑39'24	
opposition	-8985 Aug 31 j 08:54	4°♑14'55	-2°43'06
min. Earth dist.	-8985 Aug 31 j 05:13	4°♑15'11	28.84470 AU
direct	-8985 Nov 17 j 09:06	2°♑50'08	
evening set	-8984 Feb 14 j 14:08	4°♑45'49	
conjunction	-8984 Mar 01 j 19:12	5°♑21'47	-2°32'57
minimum elong	-8984 Mar 01 j 19:12	5°♑21'47	2°33'30
max. Earth dist.	-8984 Mar 01 j 21:42	5°♑22'01	30.84447 AU
morning rise	-8984 Mar 18 j 00:36	5°♑57'47	
retrograde	-8984 Jun 15 j 21:11	7°♑54'36	
opposition	-8984 Sep 01 j 19:43	6°♑30'12	-2°44'00
min. Earth dist.	-8984 Sep 01 j 18:05	6°♑30'19	28.84840 AU
direct	-8984 Nov 18 j 20:18	5°♑05'23	
evening set	-8983 Feb 16 j 04:51	7°♑01'10	
conjunction	-8983 Mar 04 j 10:05	7°♑37'07	-2°33'41
minimum elong	-8983 Mar 04 j 10:05	7°♑37'07	2°34'15
max. Earth dist.	-8983 Mar 04 j 11:50	7°♑37'17	30.84771 AU
morning rise	-8983 Mar 20 j 15:19	8°♑13'07	
retrograde	-8983 Jun 18 j 09:18	10°♑09'48	
opposition	-8983 Sep 04 j 06:22	8°♑45'28	-2°44'40
min. Earth dist.	-8983 Sep 04 j 05:10	8°♑45'33	28.85108 AU
direct	-8983 Nov 21 j 09:43	7°♑20'34	
evening set	-8982 Feb 18 j 19:52	9°♑16'28	

conjunction	-8982 Mar 07 j 01:02	9°♑52'25	-2°34'10
minimum elong	-8982 Mar 07 j 01:02	9°♑52'25	2°34'44
max. Earth dist.	-8982 Mar 07 j 00:33	9°♑52'22	30.84995 AU
morning rise	-8982 Mar 23 j 06:16	10°♑28'23	
retrograde	-8982 Jun 20 j 21:27	12°♑24'56	
opposition	-8982 Sep 06 j 16:55	11°♑00'38	-2°45'04
min. Earth dist.	-8982 Sep 06 j 17:25	11°♑00'36	28.85304 AU
direct	-8982 Nov 23 j 21:01	9°♑35'39	
evening set	-8981 Feb 21 j 10:43	11°♑31'39	
conjunction	-8981 Mar 09 j 16:05	12°♑07'36	-2°34'26
minimum elong	-8981 Mar 09 j 16:05	12°♑07'36	2°35'01
max. Earth dist.	-8981 Mar 09 j 15:21	12°♑07'32	30.85162 AU
morning rise	-8981 Mar 25 j 21:03	12°♑43'33	
retrograde	-8981 Jun 23 j 09:19	14°♑39'56	
opposition	-8981 Sep 09 j 03:29	13°♑15'41	-2°45'13
min. Earth dist.	-8981 Sep 09 j 04:49	13°♑15'35	28.85447 AU
direct	-8981 Nov 26 j 10:51	11°♑50'37	
evening set	-8980 Feb 24 j 01:30	13°♑46'41	
conjunction	-8980 Mar 11 j 06:42	14°♑22'38	-2°34'28
minimum elong	-8980 Mar 11 j 06:42	14°♑22'38	2°35'01
max. Earth dist.	-8980 Mar 11 j 03:44	14°♑22'21	30.85309 AU
morning rise	-8980 Mar 27 j 11:42	14°♑58'34	
retrograde	-8980 Jun 24 j 22:52	16°♑54'48	
opposition	-8980 Sep 10 j 13:58	15°♑30'34	-2°45'07
min. Earth dist.	-8980 Sep 10 j 16:01	15°♑30'25	28.85615 AU
direct	-8980 Nov 27 j 23:58	14°♑05'25	
evening set	-8979 Feb 25 j 16:06	16°♑01'34	
conjunction	-8979 Mar 13 j 21:30	16°♑37'31	-2°34'15
minimum elong	-8979 Mar 13 j 21:30	16°♑37'31	2°34'50
max. Earth dist.	-8979 Mar 13 j 18:41	16°♑37'15	30.85497 AU
morning rise	-8979 Mar 30 j 02:11	17°♑13'25	
retrograde	-8979 Jun 27 j 09:34	19°♑09'30	
opposition	-8979 Sep 13 j 00:23	17°♑45'19	-2°44'46
min. Earth dist.	-8979 Sep 13 j 03:47	17°♑45'04	28.85839 AU
direct	-8979 Nov 30 j 12:55	16°♑20'05	
evening set	-8978 Feb 28 j 06:48	18°♑16'20	
conjunction	-8978 Mar 16 j 12:06	18°♑52'16	-2°33'49
minimum elong	-8978 Mar 16 j 12:06	18°♑52'16	2°34'22
max. Earth dist.	-8978 Mar 16 j 07:29	18°♑51'50	30.85779 AU
morning rise	-8978 Apr 01 j 16:49	19°♑28'09	
retrograde	-8978 Jun 29 j 23:10	21°♑24'04	
opposition	-8978 Sep 15 j 10:46	19°♑59'56	-2°44'11
min. Earth dist.	-8978 Sep 15 j 14:09	19°♑59'42	28.86178 AU
direct	-8978 Dec 03 j 01:42	18°♑34'39	
evening set	-8977 Mar 02 j 21:22	20°♑30'58	
conjunction	-8977 Mar 19 j 02:45	21°♑06'55	-2°33'08
minimum elong	-8977 Mar 19 j 02:46	21°♑06'55	2°33'42
max. Earth dist.	-8977 Mar 18 j 22:01	21°♑06'28	30.86172 AU
morning rise	-8977 Apr 04 j 07:10	21°♑42'47	
retrograde	-8977 Jul 02 j 10:36	23°♑38'33	
opposition	-8977 Sep 17 j 21:15	22°♑14'29	-2°43'20
min. Earth dist.	-8977 Sep 18 j 02:11	22°♑14'08	28.86645 AU
direct	-8977 Dec 05 j 13:15	20°♑49'09	
evening set	-8976 Mar 04 j 11:54	22°♑45'33	
conjunction	-8976 Mar 20 j 17:15	23°♑21'30	-2°32'14
minimum elong	-8976 Mar 20 j 17:16	23°♑21'30	2°32'46
max. Earth dist.	-8976 Mar 20 j 11:23	23°♑20'57	30.86725 AU
morning rise	-8976 Apr 05 j 21:36	23°♑57'21	
retrograde	-8976 Jul 03 j 22:53	25°♑52'59	
opposition	-8976 Sep 19 j 07:37	24°♑29'01	-2°42'14
min. Earth dist.	-8976 Sep 19 j 12:08	24°♑28'41	28.87264 AU

Attention, astronomical year style is used: The year -8976 in astronomical counting style is the year 8977 BCE in historical counting style.

direct	-8976 Dec 07 j 01:23	23°♑03'39	
evening set	-8975 Mar 07 j 02:17	25°♑00'09	
conjunction	-8975 Mar 23 j 07:38	25°♑36'05	-2°31'05
minimum elong	-8975 Mar 23 j 07:38	25°♑36'05	2°31'38
max. Earth dist.	-8975 Mar 23 j 00:57	25°♑35'28	30.87411 AU
morning rise	-8975 Apr 08 j 11:49	26°♑11'56	
retrograde	-8975 Jul 06 j 08:58	28°♑07'26	
opposition	-8975 Sep 21 j 18:08	26°♑43'34	-2°40'53
min. Earth dist.	-8975 Sep 22 j 00:18	26°♑43'07	28.88011 AU
direct	-8975 Dec 09 j 12:21	25°♑18'11	
evening set	-8974 Mar 09 j 16:47	27°♑14'47	
conjunction	-8974 Mar 25 j 22:13	27°♑50'44	-2°29'43
minimum elong	-8974 Mar 25 j 22:13	27°♑50'44	2°30'14
max. Earth dist.	-8974 Mar 25 j 15:03	27°♑50'04	30.88214 AU
morning rise	-8974 Apr 11 j 02:12	28°♑26'34	
	-8974 Jun 02 j 18:23	0°♒	
retrograde	-8974 Jul 08 j 20:44	0°♒21'56	
	-8974 Aug 14 j 09:31	30°℞♑	
opposition	-8974 Sep 24 j 04:26	28°♑58'11	-2°39'18
min. Earth dist.	-8974 Sep 24 j 10:49	28°♑57'43	28.88831 AU
direct	-8974 Dec 12 j 00:35	27°♑32'48	
evening set	-8973 Mar 12 j 07:28	29°♑29'30	
	-8973 Mar 26 j 02:22	0°♒	
conjunction	-8973 Mar 28 j 12:44	0°♒05'26	-2°28'07
minimum elong	-8973 Mar 28 j 12:45	0°♒05'26	2°28'39
max. Earth dist.	-8973 Mar 28 j 03:51	0°♒04'37	30.89054 AU
morning rise	-8973 Apr 13 j 16:37	0°♒41'16	
retrograde	-8973 Jul 11 j 08:14	2°♒36'31	
opposition	-8973 Sep 26 j 15:01	1°♒12'52	-2°37'27
min. Earth dist.	-8973 Sep 26 j 22:51	1°♒12'18	28.89679 AU
	-8973 Nov 16 j 21:03	30°℞♑	
direct	-8973 Dec 14 j 10:55	29°♑47'28	
	-8972 Jan 11 j 00:56	0°♒	
evening set	-8972 Mar 13 j 21:50	1°♒44'16	
conjunction	-8972 Mar 30 j 03:12	2°♒20'12	-2°26'17
minimum elong	-8972 Mar 30 j 03:13	2°♒20'12	2°26'47
max. Earth dist.	-8972 Mar 29 j 18:10	2°♒19'21	30.89886 AU
morning rise	-8972 Apr 15 j 06:46	2°♒56'00	
retrograde	-8972 Jul 12 j 19:06	4°♒51'08	
opposition	-8972 Sep 28 j 01:35	3°♒27'34	-2°35'23
min. Earth dist.	-8972 Sep 28 j 10:16	3°♒26'57	28.90473 AU
direct	-8972 Dec 16 j 00:43	2°♒02'10	
evening set	-8971 Mar 16 j 12:27	3°♒59'02	
conjunction	-8971 Apr 01 j 17:37	4°♒34'57	-2°24'14
minimum elong	-8971 Apr 01 j 17:38	4°♒34'58	2°24'45
max. Earth dist.	-8971 Apr 01 j 06:11	4°♒33'54	30.90650 AU
morning rise	-8971 Apr 17 j 21:09	5°♒10'45	
retrograde	-8971 Jul 15 j 07:52	7°♒05'44	
opposition	-8971 Sep 30 j 12:03	5°♒42'14	-2°33'05
min. Earth dist.	-8971 Sep 30 j 21:38	5°♒41'34	28.91198 AU
direct	-8971 Dec 18 j 13:30	4°♒16'47	
evening set	-8970 Mar 19 j 02:54	6°♒13'43	
conjunction	-8970 Apr 04 j 08:13	6°♒49'38	-2°21'59
minimum elong	-8970 Apr 04 j 08:14	6°♒49'39	2°22'28
max. Earth dist.	-8970 Apr 03 j 20:35	6°♒48'33	30.91327 AU
morning rise	-8970 Apr 20 j 11:24	7°♒25'24	
retrograde	-8970 Jul 17 j 18:33	9°♒20'13	
opposition	-8970 Oct 02 j 22:43	7°♒56'48	-2°30'33
min. Earth dist.	-8970 Oct 03 j 09:55	7°♒56'00	28.91819 AU
direct	-8970 Dec 21 j 02:32	6°♒31'18	
evening set	-8969 Mar 21 j 17:23	8°♒28'16	

conjunction	-8969 Apr 06 j 22:29	9°♒04'10	-2°19'30
minimum elong	-8969 Apr 06 j 22:29	9°♒04'10	2°20'00
max. Earth dist.	-8969 Apr 06 j 08:41	9°♒02'53	30.91920 AU
morning rise	-8969 Apr 23 j 01:36	9°♒39'55	
retrograde	-8969 Jul 20 j 07:51	11°♒34'33	
opposition	-8969 Oct 05 j 09:11	10°♒11'10	-2°27'47
min. Earth dist.	-8969 Oct 05 j 20:36	10°♒10'22	28.92377 AU
direct	-8969 Dec 23 j 16:18	8°♒45'36	
evening set	-8968 Mar 23 j 07:36	10°♒42'36	
conjunction	-8968 Apr 08 j 12:45	11°♒18'30	-2°16'49
minimum elong	-8968 Apr 08 j 12:46	11°♒18'30	2°17'17
max. Earth dist.	-8968 Apr 07 j 22:46	11°♒17'12	30.92460 AU
morning rise	-8968 Apr 24 j 15:32	11°♒54'13	
retrograde	-8968 Jul 21 j 18:44	13°♒48'41	
opposition	-8968 Oct 06 j 19:46	12°♒25'20	-2°24'49
min. Earth dist.	-8968 Oct 07 j 08:58	12°♒24'24	28.92909 AU
direct	-8968 Dec 25 j 05:11	10°♒59'42	
evening set	-8967 Mar 25 j 21:38	12°♒56'43	
max. Earth dist.	-8967 Apr 10 j 11:20	13°♒31'10	30.93010 AU
conjunction	-8967 Apr 11 j 02:40	13°♒32'36	-2°13'56
minimum elong	-8967 Apr 11 j 02:41	13°♒32'36	2°14'24
morning rise	-8967 Apr 27 j 05:24	14°♒08'17	
	-8967 May 22 j 16:57	15°♒	
retrograde	-8967 Jul 24 j 06:32	16°♒02'35	
	-8967 Sep 26 j 22:34	15°℞♒	
opposition	-8967 Oct 09 j 06:09	14°♒39'16	-2°21'38
min. Earth dist.	-8967 Oct 09 j 19:05	14°♒38'21	28.93461 AU
direct	-8967 Dec 27 j 18:46	13°♒13'34	
	-8966 Mar 23 j 13:40	15°♒	
evening set	-8966 Mar 28 j 11:41	15°♒10'35	
conjunction	-8966 Apr 13 j 16:38	15°♒46'28	-2°10'52
minimum elong	-8966 Apr 13 j 16:39	15°♒46'28	2°11'18
max. Earth dist.	-8966 Apr 13 j 00:36	15°♒44'59	30.93589 AU
morning rise	-8966 Apr 29 j 19:04	16°♒22'08	
retrograde	-8966 Jul 26 j 16:32	18°♒16'15	
opposition	-8966 Oct 11 j 16:39	16°♒52'59	-2°18'14
min. Earth dist.	-8966 Oct 12 j 07:08	16°♒51'57	28.94082 AU
direct	-8966 Dec 30 j 06:08	15°♒27'14	
evening set	-8965 Mar 31 j 01:36	17°♒24'16	
conjunction	-8965 Apr 16 j 06:28	18°♒00'09	-2°07'36
minimum elong	-8965 Apr 16 j 06:29	18°♒00'09	2°08'01
max. Earth dist.	-8965 Apr 15 j 14:08	17°♒58'37	30.94273 AU
morning rise	-8965 May 02 j 08:40	18°♒35'47	
retrograde	-8965 Jul 29 j 03:40	20°♒29'45	
opposition	-8965 Oct 14 j 03:09	19°♒06'32	-2°14'38
min. Earth dist.	-8965 Oct 14 j 17:25	19°♒05'31	28.94812 AU
direct	-8964 Jan 01 j 18:48	17°♒40'45	
evening set	-8964 Apr 01 j 15:19	19°♒37'49	
conjunction	-8964 Apr 17 j 19:58	20°♒13'40	-2°04'08
minimum elong	-8964 Apr 17 j 19:59	20°♒13'41	2°04'32
max. Earth dist.	-8964 Apr 17 j 02:35	20°♒12'03	30.95076 AU
morning rise	-8964 May 03 j 21:57	20°♒49'18	
retrograde	-8964 Jul 30 j 13:58	22°♒43'08	
opposition	-8964 Oct 15 j 13:42	21°♒19'59	-2°10'50
min. Earth dist.	-8964 Oct 16 j 04:49	21°♒18'55	28.95691 AU
direct	-8963 Jan 03 j 05:12	19°♒54'12	
evening set	-8963 Apr 04 j 04:59	21°♒51'18	
conjunction	-8963 Apr 20 j 09:39	22°♒27'09	-2°00'29
minimum elong	-8963 Apr 20 j 09:40	22°♒27'09	2°00'54
max. Earth dist.	-8963 Apr 19 j 16:41	22°♒25'34	30.96032 AU
morning rise	-8963 May 06 j 11:18	23°♒02'45	

Attention, astronomical year style is used: The year -8963 in astronomical counting style is the year 8964 BCE in historical counting style.

retrograde	-8963 Aug 01 j 23:47	24°♒56'27	
opposition	-8963 Oct 18 j 00:06	23°♒33'24	-2°06'50
min. Earth dist.	-8963 Oct 18 j 15:36	23°♒32'18	28.96695 AU
direct	-8962 Jan 05 j 18:22	22°♒07'38	
evening set	-8962 Apr 06 j 18:50	24°♒04'48	
conjunction	-8962 Apr 22 j 23:12	24°♒40'38	-1°56'40
minimum elong	-8962 Apr 22 j 23:13	24°♒40'38	1°57'03
max. Earth dist.	-8962 Apr 22 j 04:32	24°♒38'54	30.97108 AU
morning rise	-8962 May 09 j 00:44	25°♒16'14	
retrograde	-8962 Aug 04 j 11:54	27°♒09'49	
opposition	-8962 Oct 20 j 10:38	25°♒46'52	-2°02'39
min. Earth dist.	-8962 Oct 21 j 02:26	25°♒45'46	28.97815 AU
direct	-8961 Jan 08 j 05:56	24°♒21'08	
evening set	-8961 Apr 09 j 08:25	26°♒18'22	
conjunction	-8961 Apr 25 j 12:46	26°♒54'12	-1°52'39
minimum elong	-8961 Apr 25 j 12:47	26°♒54'12	1°53'02
max. Earth dist.	-8961 Apr 24 j 18:35	26°♒52'30	30.98259 AU
morning rise	-8961 May 11 j 13:50	27°♒29'46	
retrograde	-8961 Aug 06 j 22:14	29°♒23'16	
opposition	-8961 Oct 22 j 21:20	28°♒00'26	-1°58'16
min. Earth dist.	-8961 Oct 23 j 14:25	27°♒59'14	28.98968 AU
direct	-8960 Jan 10 j 18:01	26°♒34'45	
evening set	-8960 Apr 10 j 22:10	28°♒32'02	
max. Earth dist.	-8960 Apr 26 j 06:12	29°♒05'59	30.99425 AU
conjunction	-8960 Apr 27 j 02:09	29°♒07'51	-1°48'29
minimum elong	-8960 Apr 27 j 02:10	29°♒07'51	1°48'49
morning rise	-8960 May 13 j 03:06	29°♒43'24	
	-8960 May 20 j 20:57	0°♓	
retrograde	-8960 Aug 08 j 11:33	1°♓36'48	
opposition	-8960 Oct 24 j 07:55	0°♓14'05	-1°53'43
min. Earth dist.	-8960 Oct 25 j 00:59	0°♓12'53	29.00114 AU
	-8960 Nov 01 j 16:56	30°℞♒	
direct	-8959 Jan 12 j 07:28	28°♒48'26	
	-8959 Mar 22 j 04:24	0°♓	
evening set	-8959 Apr 13 j 11:40	0°♓45'46	
conjunction	-8959 Apr 29 j 15:38	1°♓21'34	-1°44'08
minimum elong	-8959 Apr 29 j 15:39	1°♓21'34	1°44'28
max. Earth dist.	-8959 Apr 28 j 19:41	1°♓19'43	31.00535 AU
morning rise	-8959 May 15 j 16:08	1°♓57'06	
retrograde	-8959 Aug 10 j 22:34	3°♓50'25	
opposition	-8959 Oct 26 j 18:47	2°♓27'47	-1°49'00
min. Earth dist.	-8959 Oct 27 j 13:39	2°♓26'27	29.01172 AU
direct	-8958 Jan 14 j 20:34	1°♓02'09	
evening set	-8958 Apr 16 j 01:22	2°♓59'30	
max. Earth dist.	-8958 May 01 j 07:30	3°♓33'18	31.01550 AU
conjunction	-8958 May 02 j 04:59	3°♓35'18	-1°39'39
minimum elong	-8958 May 02 j 05:00	3°♓35'18	1°39'57
morning rise	-8958 May 18 j 05:17	4°♓10'48	
retrograde	-8958 Aug 13 j 10:31	6°♓04'00	
opposition	-8958 Oct 29 j 05:30	4°♓41'26	-1°44'07
min. Earth dist.	-8958 Oct 30 j 00:11	4°♓40'08	29.02118 AU
direct	-8957 Jan 17 j 10:27	3°♓15'49	
evening set	-8957 Apr 18 j 14:55	5°♓13'11	
conjunction	-8957 May 04 j 18:21	5°♓48'58	-1°35'01
minimum elong	-8957 May 04 j 18:22	5°♓48'58	1°35'19
max. Earth dist.	-8957 May 03 j 20:07	5°♓46'53	31.02442 AU
morning rise	-8957 May 20 j 18:13	6°♓24'26	
retrograde	-8957 Aug 15 j 21:06	8°♓17'30	
opposition	-8957 Oct 31 j 16:27	6°♓55'00	-1°39'05
min. Earth dist.	-8957 Nov 01 j 12:49	6°♓53'35	29.02959 AU
direct	-8956 Jan 19 j 22:19	5°♓29'23	
evening set	-8956 Apr 20 j 04:08	7°♓26'43	
max. Earth dist.	-8956 May 05 j 08:34	8°♓00'22	31.03247 AU
conjunction	-8956 May 06 j 07:21	8°♓02'29	-1°30'14
minimum elong	-8956 May 06 j 07:21	8°♓02'29	1°30'31
morning rise	-8956 May 22 j 06:56	8°♓37'56	
retrograde	-8956 Aug 17 j 08:21	10°♓30'52	
opposition	-8956 Nov 02 j 03:14	9°♓08'25	-1°33'55
min. Earth dist.	-8956 Nov 02 j 23:38	9°♓06'59	29.03706 AU
direct	-8955 Jan 21 j 11:47	7°♓42'45	
evening set	-8955 Apr 22 j 17:27	9°♓40'04	
conjunction	-8955 May 08 j 20:20	10°♓15'49	-1°25'21
minimum elong	-8955 May 08 j 20:21	10°♓15'49	1°25'36
max. Earth dist.	-8955 May 07 j 20:21	10°♓13'35	31.03971 AU
morning rise	-8955 May 24 j 19:36	10°♓51'14	
retrograde	-8955 Aug 19 j 17:45	12°♓44'02	
opposition	-8955 Nov 04 j 13:55	11°♓21'36	-1°28'37
min. Earth dist.	-8955 Nov 05 j 11:23	11°♓20'05	29.04414 AU
direct	-8954 Jan 23 j 22:59	9°♓55'54	
evening set	-8954 Apr 25 j 06:32	11°♓53'12	
max. Earth dist.	-8954 May 10 j 09:38	12°♓26'42	31.04677 AU
conjunction	-8954 May 11 j 09:15	12°♓28'54	-1°20'20
minimum elong	-8954 May 11 j 09:15	12°♓28'55	1°20'34
morning rise	-8954 May 27 j 08:04	13°♓04'18	
retrograde	-8954 Aug 22 j 02:23	14°♓56'58	
opposition	-8954 Nov 07 j 00:46	13°♓34'33	-1°23'12
min. Earth dist.	-8954 Nov 07 j 22:35	13°♓33'01	29.05111 AU
direct	-8953 Jan 26 j 12:24	12°♓08'49	
evening set	-8953 Apr 27 j 19:30	14°♓06'05	
conjunction	-8953 May 13 j 21:44	14°♓41'46	-1°15'12
minimum elong	-8953 May 13 j 21:44	14°♓41'46	1°15'25
max. Earth dist.	-8953 May 12 j 20:47	14°♓39'26	31.05401 AU
morning rise	-8953 May 29 j 20:17	15°♓17'07	
retrograde	-8953 Aug 24 j 13:16	17°♓09'40	
opposition	-8953 Nov 09 j 11:35	15°♓47'16	-1°17'40
min. Earth dist.	-8953 Nov 10 j 09:19	15°♓45'45	29.05870 AU
direct	-8952 Jan 28 j 23:19	14°♓21'31	
evening set	-8952 Apr 29 j 08:12	16°♓18'45	
max. Earth dist.	-8952 May 14 j 10:13	16°♓52'09	31.06203 AU
conjunction	-8952 May 15 j 10:15	16°♓54'24	-1°09'58
minimum elong	-8952 May 15 j 10:16	16°♓54'24	1°10'10
morning rise	-8952 May 31 j 08:16	17°♓29'44	
retrograde	-8952 Aug 25 j 22:19	19°♓22'10	
opposition	-8952 Nov 10 j 22:24	17°♓59'48	-1°12'01
min. Earth dist.	-8952 Nov 11 j 20:57	17°♓58'13	29.06716 AU
direct	-8951 Jan 30 j 11:22	16°♓34'03	
evening set	-8951 May 01 j 20:56	18°♓31'14	
conjunction	-8951 May 17 j 22:30	19°♓06'52	-1°04'38
minimum elong	-8951 May 17 j 22:30	19°♓06'52	1°04'49
max. Earth dist.	-8951 May 16 j 21:16	19°♓04'31	31.07118 AU
morning rise	-8951 Jun 02 j 20:17	19°♓42'10	
retrograde	-8951 Aug 28 j 10:10	21°♓34'31	
opposition	-8951 Nov 13 j 09:13	20°♓12'11	-1°06'16
min. Earth dist.	-8951 Nov 14 j 07:03	20°♓10'40	29.07680 AU
direct	-8950 Feb 02 j 00:38	18°♓46'27	
evening set	-8950 May 04 j 09:30	20°♓43'38	
max. Earth dist.	-8950 May 19 j 10:24	21°♓16'58	31.08135 AU
conjunction	-8950 May 20 j 10:49	21°♓19'14	-0°59'12
minimum elong	-8950 May 20 j 10:50	21°♓19'14	0°59'21
morning rise	-8950 Jun 05 j 08:01	21°♓54'30	
retrograde	-8950 Aug 30 j 20:10	23°♓46'47	

Attention, astronomical year style is used: The year -8950 in astronomical counting style is the year 8951 BCE in historical counting style.

opposition	-8950 Nov 15 j 20:11	22°♓24'31	-1°00'24
min. Earth dist.	-8950 Nov 16 j 19:09	22°♓22'55	29.08739 AU
direct	-8949 Feb 04 j 13:04	20°♓58'49	
evening set	-8949 May 06 j 22:07	22°♓56'01	
conjunction	-8949 May 22 j 22:56	23°♓31'35	-0°53'41
minimum elong	-8949 May 22 j 22:56	23°♓31'35	0°53'49
max. Earth dist.	-8949 May 21 j 21:48	23°♓29'14	31.09246 AU
morning rise	-8949 Jun 07 j 19:49	24°♓06'49	
retrograde	-8949 Sep 02 j 08:00	25°♓59'02	
opposition	-8949 Nov 18 j 07:08	24°♓36'50	-0°54'28
min. Earth dist.	-8949 Nov 19 j 05:17	24°♓35'18	29.09862 AU
direct	-8948 Feb 07 j 02:22	23°♓11'12	
evening set	-8948 May 08 j 10:27	25°♓08'24	
max. Earth dist.	-8948 May 23 j 09:49	25°♓41'36	31.10377 AU
conjunction	-8948 May 24 j 10:56	25°♓43'56	-0°48'05
minimum elong	-8948 May 24 j 10:56	25°♓43'56	0°48'12
morning rise	-8948 Jun 09 j 07:18	26°♓19'08	
retrograde	-8948 Sep 03 j 18:55	28°♓11'19	
opposition	-8948 Nov 19 j 18:15	26°♓49'12	-0°48'26
min. Earth dist.	-8948 Nov 20 j 17:40	26°♓47'34	29.10987 AU
direct	-8947 Feb 08 j 14:26	25°♓23'37	
evening set	-8947 May 10 j 22:57	27°♓20'49	
conjunction	-8947 May 26 j 22:59	27°♓56'19	-0°42'25
minimum elong	-8947 May 26 j 22:59	27°♓56'19	0°42'30
max. Earth dist.	-8947 May 25 j 21:37	27°♓53'58	31.11482 AU
morning rise	-8947 Jun 11 j 18:55	28°♓31'29	
	-8947 Jul 31 j 00:08	0°♈	
retrograde	-8947 Sep 06 j 06:03	0°♈23'37	
	-8947 Oct 14 j 05:36	30°♓	
opposition	-8947 Nov 22 j 05:15	29°♓01'34	-0°42'21
min. Earth dist.	-8947 Nov 23 j 04:30	28°♓59'57	29.12039 AU
direct	-8946 Feb 11 j 04:18	27°♓36'02	
evening set	-8946 May 13 j 11:31	29°♓33'14	
	-8946 May 25 j 13:41	0°♈	
max. Earth dist.	-8946 May 28 j 08:42	0°♈06'16	31.12485 AU
conjunction	-8946 May 29 j 11:00	0°♈08'43	-0°36'42
minimum elong	-8946 May 29 j 11:01	0°♈08'43	0°36'45
morning rise	-8946 Jun 14 j 06:27	0°♈43'51	
retrograde	-8946 Sep 08 j 16:07	2°♈35'56	
opposition	-8946 Nov 24 j 16:32	1°♈13'56	-0°36'12
min. Earth dist.	-8946 Nov 25 j 16:38	1°♈12'16	29.12995 AU
	-8945 Jan 17 j 11:13	30°♓	
direct	-8945 Feb 13 j 15:35	29°♓48'26	
	-8945 Mar 12 j 11:48	0°♈	
evening set	-8945 May 15 j 23:45	1°♈45'36	
conjunction	-8945 May 31 j 22:52	2°♈21'03	-0°30'55
minimum elong	-8945 May 31 j 22:52	2°♈21'03	0°30'58
max. Earth dist.	-8945 May 30 j 21:02	2°♈18'39	31.13379 AU
morning rise	-8945 Jun 16 j 17:43	2°♈56'09	
retrograde	-8945 Sep 11 j 00:54	4°♈48'11	
opposition	-8945 Nov 27 j 03:52	3°♈26'14	-0°30'00
min. Earth dist.	-8945 Nov 28 j 04:17	3°♈24'32	29.13815 AU
direct	-8944 Feb 16 j 04:53	2°♈00'46	
evening set	-8944 May 17 j 12:06	3°♈57'53	
max. Earth dist.	-8944 Jun 01 j 07:20	4°♈30'46	31.14145 AU
conjunction	-8944 Jun 02 j 10:35	4°♈33'18	-0°25'06
minimum elong	-8944 Jun 02 j 10:35	4°♈33'18	0°25'08
morning rise	-8944 Jun 18 j 05:03	5°♈08'22	
retrograde	-8944 Sep 12 j 11:48	7°♈00'21	
opposition	-8944 Nov 28 j 14:59	5°♈38'24	-0°23'46
min. Earth dist.	-8944 Nov 29 j 15:25	5°♈36'43	29.14532 AU
direct	-8943 Feb 17 j 15:32	4°♈12'56	
evening set	-8943 May 20 j 00:09	6°♈10'02	
conjunction	-8943 Jun 04 j 22:18	6°♈45'24	-0°19'16
minimum elong	-8943 Jun 04 j 22:18	6°♈45'24	0°19'16
max. Earth dist.	-8943 Jun 03 j 19:48	6°♈42'56	31.14810 AU
morning rise	-8943 Jun 20 j 16:08	7°♈20'26	
retrograde	-8943 Sep 14 j 20:29	9°♈12'22	
opposition	-8943 Dec 01 j 02:19	7°♈50'26	-0°17'30
min. Earth dist.	-8943 Dec 02 j 03:43	7°♈48'40	29.15145 AU
direct	-8942 Feb 20 j 03:58	6°♈24'58	
evening set	-8942 May 22 j 12:12	8°♈22'00	
max. Earth dist.	-8942 Jun 06 j 06:01	8°♈54'45	31.15400 AU
conjunction	-8942 Jun 07 j 09:39	8°♈57'20	-0°13'24
minimum elong	-8942 Jun 07 j 09:38	8°♈57'20	0°13'23
behind sun begin	-8942 Jun 07 j 05:57	8°♈57'00	
behind sun end	-8942 Jun 07 j 13:20	8°♈57'40	
morning rise	-8942 Jun 23 j 03:05	9°♈32'20	
retrograde	-8942 Sep 17 j 07:40	11°♈24'12	
opposition	-8942 Dec 03 j 13:32	10°♈02'16	-0°11'13
min. Earth dist.	-8942 Dec 04 j 14:11	10°♈00'34	29.15718 AU
direct	-8941 Feb 22 j 16:47	8°♈36'48	
evening set	-8941 May 24 j 23:56	10°♈33'46	
conjunction	-8941 Jun 09 j 20:58	11°♈09'04	-0°07'33
minimum elong	-8941 Jun 09 j 20:59	11°♈09'04	0°07'30
behind sun begin	-8941 Jun 09 j 15:04	11°♈08'33	
behind sun end	-8941 Jun 10 j 02:54	11°♈09'36	
max. Earth dist.	-8941 Jun 08 j 18:21	11°♈06'35	31.15967 AU
morning rise	-8941 Jun 25 j 13:44	11°♈44'01	
retrograde	-8941 Sep 19 j 17:11	13°♈35'52	
opposition	-8941 Dec 06 j 00:56	12°♈13'54	-0°04'56
min. Earth dist.	-8941 Dec 07 j 02:30	12°♈12'08	29.16301 AU
direct	-8940 Feb 25 j 04:40	10°♈48'27	
evening set	-8940 May 26 j 11:30	12°♈45'22	
max. Earth dist.	-8940 Jun 10 j 04:59	13°♈18'06	31.16580 AU
conjunction	-8940 Jun 11 j 07:54	13°♈20'37	-0°01'40
minimum elong	-8940 Jun 11 j 07:53	13°♈20'37	0°01'36
behind sun begin	-8940 Jun 11 j 01:24	13°♈20'02	
behind sun end	-8940 Jun 11 j 14:22	13°♈21'11	
morning rise	-8940 Jun 27 j 00:15	13°♈55'31	
asc. node	-8940 Sep 20 j 23:41	15°♈47'20	
retrograde	-8940 Sep 21 j 04:15	15°♈47'20	
opposition	-8940 Dec 07 j 12:10	14°♈25'22	0°01'21
min. Earth dist.	-8940 Dec 08 j 12:27	14°♈23'42	29.16943 AU
direct	-8939 Feb 26 j 17:52	12°♈59'55	
evening set	-8939 May 28 j 23:02	14°♈56'48	
conjunction	-8939 Jun 13 j 18:52	15°♈32'00	0°04'20
minimum elong	-8939 Jun 13 j 18:53	15°♈32'00	0°04'25
behind sun begin	-8939 Jun 13 j 12:31	15°♈31'26	
behind sun end	-8939 Jun 14 j 01:15	15°♈32'34	
max. Earth dist.	-8939 Jun 12 j 16:27	15°♈29'32	31.17262 AU
morning rise	-8939 Jun 29 j 10:34	16°♈06'52	
retrograde	-8939 Sep 23 j 15:00	17°♈58'40	
opposition	-8939 Dec 09 j 23:29	16°♈36'43	0°07'38
min. Earth dist.	-8939 Dec 11 j 00:21	16°♈35'00	29.17687 AU
direct	-8938 Mar 01 j 06:27	15°♈11'18	
evening set	-8938 May 31 j 10:31	17°♈08'09	
max. Earth dist.	-8938 Jun 15 j 03:54	17°♈40'54	31.18067 AU
conjunction	-8938 Jun 16 j 05:46	17°♈43'18	0°10'11
minimum elong	-8938 Jun 16 j 05:46	17°♈43'18	0°10'17
behind sun begin	-8938 Jun 16 j 00:37	17°♈42'51	
behind sun end	-8938 Jun 16 j 10:54	17°♈43'46	

Attention, astronomical year style is used: The year -8938 in astronomical counting style is the year 8939 BCE in historical counting style.

morning rise	-8938 Jul 01 j 20:54	18°♈18'08	
retrograde	-8938 Sep 26 j 01:58	20°♈09'55	
opposition	-8938 Dec 12 j 10:54	18°♈48'00	0°13'54
min. Earth dist.	-8938 Dec 13 j 10:46	18°♈46'21	29.18535 AU
direct	-8937 Mar 03 j 20:38	17°♈22'39	
evening set	-8937 Jun 02 j 21:48	19°♈19'28	
conjunction	-8937 Jun 18 j 16:22	19°♈54'35	0°16'01
minimum elong	-8937 Jun 18 j 16:22	19°♈54'35	0°16'09
max. Earth dist.	-8937 Jun 17 j 14:27	19°♈52'10	31.18966 AU
morning rise	-8937 Jul 04 j 06:58	20°♈29'22	
retrograde	-8937 Sep 28 j 11:47	22°♈21'11	
opposition	-8937 Dec 14 j 22:23	20°♈59'18	0°20'09
min. Earth dist.	-8937 Dec 15 j 22:18	20°♈57'39	29.19484 AU
direct	-8936 Mar 05 j 07:31	19°♈34'01	
evening set	-8936 Jun 04 j 09:02	21°♈30'49	
max. Earth dist.	-8936 Jun 19 j 02:24	22°♈03'35	31.19939 AU
conjunction	-8936 Jun 20 j 03:06	22°♈05'54	0°21'51
minimum elong	-8936 Jun 20 j 03:06	22°♈05'54	0°22'00
morning rise	-8936 Jul 05 j 17:03	22°♈40'38	
retrograde	-8936 Sep 29 j 20:33	24°♈32'28	
opposition	-8936 Dec 16 j 09:47	23°♈10'39	0°26'22
min. Earth dist.	-8936 Dec 17 j 09:33	23°♈09'01	29.20460 AU
direct	-8935 Mar 07 j 20:44	21°♈45'27	
evening set	-8935 Jun 06 j 20:22	23°♈42'13	
conjunction	-8935 Jun 22 j 13:40	24°♈17'15	0°27'39
minimum elong	-8935 Jun 22 j 13:39	24°♈17'15	0°27'49
max. Earth dist.	-8935 Jun 21 j 12:07	24°♈14'52	31.20910 AU
morning rise	-8935 Jul 08 j 03:09	24°♈51'57	
retrograde	-8935 Oct 02 j 07:50	26°♈43'49	
opposition	-8935 Dec 18 j 21:21	25°♈22'02	0°32'32
min. Earth dist.	-8935 Dec 19 j 20:38	25°♈20'26	29.21419 AU
direct	-8934 Mar 10 j 07:22	23°♈56'54	
evening set	-8934 Jun 09 j 07:28	25°♈53'39	
max. Earth dist.	-8934 Jun 23 j 23:55	26°♈26'22	31.21824 AU
conjunction	-8934 Jun 25 j 00:15	26°♈28'38	0°33'24
minimum elong	-8934 Jun 25 j 00:15	26°♈28'38	0°33'36
morning rise	-8934 Jul 10 j 12:57	27°♈03'18	
retrograde	-8934 Oct 04 j 16:15	28°♈55'12	
opposition	-8934 Dec 21 j 09:12	27°♈33'27	0°38'40
min. Earth dist.	-8934 Dec 22 j 09:08	27°♈31'49	29.22289 AU
direct	-8933 Mar 12 j 19:52	26°♈08'23	
evening set	-8933 Jun 11 j 18:46	28°♈05'05	
max. Earth dist.	-8933 Jun 26 j 09:28	28°♈37'39	31.22645 AU
conjunction	-8933 Jun 27 j 10:42	28°♈40'01	0°39'07
minimum elong	-8933 Jun 27 j 10:42	28°♈40'01	0°39'19
morning rise	-8933 Jul 12 j 22:58	29°♈14'39	
	-8933 Aug 03 j 21:56	0°♉	
retrograde	-8933 Oct 07 j 03:03	1°♉06'34	
	-8933 Dec 14 j 13:48	30°℞♈	
opposition	-8933 Dec 23 j 20:55	29°♈44'50	0°44'45
min. Earth dist.	-8933 Dec 24 j 19:55	29°♈43'16	29.23059 AU
direct	-8932 Mar 14 j 07:15	28°♈19'49	
	-8932 Jun 05 j 14:22	0°♉	
evening set	-8932 Jun 13 j 05:43	0°♉16'27	
conjunction	-8932 Jun 28 j 21:10	0°♉51'21	0°44'46
minimum elong	-8932 Jun 28 j 21:09	0°♉51'21	0°44'59
max. Earth dist.	-8932 Jun 27 j 20:50	0°♉49'04	31.23340 AU
morning rise	-8932 Jul 14 j 08:41	1°♉25'56	
retrograde	-8932 Oct 08 j 12:32	3°♉17'53	
opposition	-8932 Dec 25 j 08:51	1°♉56'08	0°50'45
min. Earth dist.	-8932 Dec 26 j 08:48	1°♉54'30	29.23696 AU
direct	-8931 Mar 16 j 18:12	0°♉31'09	
evening set	-8931 Jun 15 j 16:48	2°♉27'43	
max. Earth dist.	-8931 Jun 30 j 06:46	3°♉00'14	31.23917 AU
conjunction	-8931 Jul 01 j 07:28	3°♉02'33	0°50'21
minimum elong	-8931 Jul 01 j 07:28	3°♉02'33	0°50'35
morning rise	-8931 Jul 16 j 18:29	3°♉37'06	
retrograde	-8931 Oct 10 j 23:32	5°♉29'04	
opposition	-8931 Dec 27 j 20:34	4°♉07'18	0°56'41
min. Earth dist.	-8931 Dec 28 j 19:22	4°♉05'44	29.24212 AU
direct	-8930 Mar 19 j 07:21	2°♉42'19	
evening set	-8930 Jun 18 j 03:42	4°♉38'49	
conjunction	-8930 Jul 03 j 17:45	5°♉13'37	0°55'51
minimum elong	-8930 Jul 03 j 17:44	5°♉13'37	0°56'07
max. Earth dist.	-8930 Jul 02 j 17:23	5°♉11'20	31.24378 AU
morning rise	-8930 Jul 19 j 04:06	5°♉48'06	
retrograde	-8930 Oct 13 j 10:30	7°♉40'06	
opposition	-8930 Dec 30 j 08:36	6°♉18'17	1°02'31
min. Earth dist.	-8930 Dec 31 j 07:59	6°♉16'41	29.24649 AU
direct	-8929 Mar 21 j 19:44	4°♉53'20	
evening set	-8929 Jun 20 j 14:18	6°♉49'45	
max. Earth dist.	-8929 Jul 05 j 04:05	7°♉22'16	31.24790 AU
conjunction	-8929 Jul 06 j 03:41	7°♉24'29	1°01'16
minimum elong	-8929 Jul 06 j 03:41	7°♉24'29	1°01'33
morning rise	-8929 Jul 21 j 13:28	7°♉58'55	
retrograde	-8929 Oct 15 j 20:57	9°♉50'57	
opposition	-8928 Jan 01 j 20:30	8°♉29'05	1°08'16
min. Earth dist.	-8928 Jan 02 j 18:51	8°♉27'34	29.25041 AU
direct	-8928 Mar 23 j 09:50	7°♉04'09	
evening set	-8928 Jun 22 j 00:56	9°♉00'29	
conjunction	-8928 Jul 07 j 13:35	9°♉35'10	1°06'35
minimum elong	-8928 Jul 07 j 13:34	9°♉35'10	1°06'54
max. Earth dist.	-8928 Jul 06 j 13:57	9°♉32'57	31.25177 AU
morning rise	-8928 Jul 22 j 22:49	10°♉09'34	
retrograde	-8928 Oct 17 j 07:03	12°♉01'37	
opposition	-8927 Jan 03 j 08:16	10°♉39'43	1°13'54
min. Earth dist.	-8927 Jan 04 j 06:28	10°♉38'13	29.25462 AU
direct	-8927 Mar 25 j 21:01	9°♉14'48	
evening set	-8927 Jun 24 j 11:22	11°♉11'04	
conjunction	-8927 Jul 09 j 23:27	11°♉45'42	1°11'49
minimum elong	-8927 Jul 09 j 23:26	11°♉45'42	1°12'08
max. Earth dist.	-8927 Jul 09 j 01:26	11°♉43'38	31.25615 AU
morning rise	-8927 Jul 25 j 07:58	12°♉20'03	
retrograde	-8927 Oct 19 j 15:51	14°♉12'09	
opposition	-8926 Jan 05 j 20:17	12°♉50'14	1°19'26
min. Earth dist.	-8926 Jan 06 j 17:46	12°♉48'46	29.25935 AU
direct	-8926 Mar 28 j 10:57	11°♉25'22	
evening set	-8926 Jun 26 j 21:47	13°♉21'34	
max. Earth dist.	-8926 Jul 11 j 10:46	13°♉54'03	31.26133 AU
conjunction	-8926 Jul 12 j 09:00	13°♉56'09	1°16'56
minimum elong	-8926 Jul 12 j 08:59	13°♉56'09	1°17'16
morning rise	-8926 Jul 27 j 17:04	14°♉30'27	
	-8926 Aug 10 j 14:27	15°♉	
retrograde	-8926 Oct 22 j 03:05	16°♉22'37	
opposition	-8925 Jan 08 j 08:18	15°♉00'42	1°24'51
	-8925 Jan 08 j 18:38	15°℞♉	
min. Earth dist.	-8925 Jan 09 j 04:30	14°♉59'20	29.26515 AU
direct	-8925 Mar 30 j 22:01	13°♉35'54	
	-8925 Jun 14 j 04:19	15°♉	
evening set	-8925 Jun 29 j 08:01	15°♉32'03	
conjunction	-8925 Jul 14 j 18:44	16°♉06'35	1°21'57

Attention, astronomical year style is used: The year -8925 in astronomical counting style is the year 8926 BCE in historical counting style.

minimum elong	-8925 Jul 14 j 18:43	16°♉06'35	1°22'18	
max. Earth dist.	-8925 Jul 13 j 22:20	16°♉04'40	31.26752 AU	
morning rise	-8925 Jul 30 j 02:03	16°♉40'52		
retrograde	-8925 Oct 24 j 11:30	18°♉33'07		
opposition	-8924 Jan 10 j 20:23	17°♉11'13	1°30'09	
min. Earth dist.	-8924 Jan 11 j 16:34	17°♉09'51	29.27179 AU	
direct	-8924 Apr 01 j 10:08	15°♉46'30		
evening set	-8924 Jun 30 j 18:16	17°♉42'37		
max. Earth dist.	-8924 Jul 15 j 07:38	18°♉15'10	31.27451 AU	
conjunction	-8924 Jul 16 j 04:11	18°♉17'06	1°26'51	
minimum elong	-8924 Jul 16 j 04:11	18°♉17'06	1°27'13	
morning rise	-8924 Jul 31 j 11:08	18°♉51'21		
retrograde	-8924 Oct 25 j 22:21	20°♉43'42		
opposition	-8923 Jan 12 j 08:24	19°♉21'50	1°35'19	
min. Earth dist.	-8923 Jan 13 j 03:03	19°♉20'34	29.27898 AU	
direct	-8923 Apr 03 j 20:45	17°♉57'13		
evening set	-8923 Jul 03 j 04:25	19°♉53'18		
conjunction	-8923 Jul 18 j 13:47	20°♉27'45	1°31'37	
minimum elong	-8923 Jul 18 j 13:46	20°♉27'45	1°32'01	
max. Earth dist.	-8923 Jul 17 j 18:38	20°♉25'57	31.28158 AU	
morning rise	-8923 Aug 02 j 20:00	21°♉01'57		
retrograde	-8923 Oct 28 j 08:12	22°♉54'26		
opposition	-8922 Jan 14 j 20:41	21°♉32'35	1°40'21	
min. Earth dist.	-8922 Jan 15 j 15:50	21°♉31'17	29.28604 AU	
direct	-8922 Apr 06 j 06:39	20°♉08'05		
evening set	-8922 Jul 05 j 14:41	22°♉04'08		
conjunction	-8922 Jul 20 j 23:18	22°♉38'32	1°36'15	
minimum elong	-8922 Jul 20 j 23:17	22°♉38'32	1°36'40	
max. Earth dist.	-8922 Jul 20 j 04:23	22°♉36'45	31.28840 AU	
morning rise	-8922 Aug 05 j 05:03	23°♉12'42		
retrograde	-8922 Oct 30 j 19:42	25°♉05'18		
opposition	-8921 Jan 17 j 09:00	23°♉43'29	1°45'14	
min. Earth dist.	-8921 Jan 18 j 02:35	23°♉42'17	29.29250 AU	
direct	-8921 Apr 08 j 18:55	22°♉19'03		
evening set	-8921 Jul 08 j 00:46	24°♉15'05		
conjunction	-8921 Jul 23 j 08:45	24°♉49'26	1°40'46	
minimum elong	-8921 Jul 23 j 08:44	24°♉49'26	1°41'11	
max. Earth dist.	-8921 Jul 22 j 14:17	24°♉47'42	31.29421 AU	
morning rise	-8921 Aug 07 j 13:56	25°♉23'34		
retrograde	-8921 Nov 02 j 07:36	27°♉16'17		
opposition	-8920 Jan 19 j 21:29	25°♉54'27	1°49'58	
min. Earth dist.	-8920 Jan 20 j 15:32	25°♉53'14	29.29786 AU	
direct	-8920 Apr 10 j 06:13	24°♉30'07		
evening set	-8920 Jul 09 j 10:55	26°♉26'06		
conjunction	-8920 Jul 24 j 18:18	27°♉00'24	1°45'07	
minimum elong	-8920 Jul 24 j 18:17	27°♉00'24	1°45'33	
max. Earth dist.	-8920 Jul 24 j 00:37	26°♉58'44	31.29881 AU	
morning rise	-8920 Aug 08 j 22:56	27°♉34'30		
retrograde	-8920 Nov 03 j 18:39	29°♉27'19		
opposition	-8919 Jan 21 j 09:45	28°♉05'29	1°54'33	
min. Earth dist.	-8919 Jan 22 j 02:50	28°♉04'20	29.30169 AU	
direct	-8919 Apr 12 j 19:17	26°♉41'12		
evening set	-8919 Jul 11 j 21:06	28°♉37'07		
max. Earth dist.	-8919 Jul 26 j 09:47	29°♉09'41	31.30180 AU	
conjunction	-8919 Jul 27 j 03:46	29°♉11'23	1°49'20	
minimum elong	-8919 Jul 27 j 03:46	29°♉11'23	1°49'46	
morning rise	-8919 Aug 11 j 07:58	29°♉45'27		
	-8919 Aug 18 j 00:25	0°♊		
retrograde	-8919 Nov 06 j 05:45	1°♊38'21		
opposition	-8918 Jan 23 j 22:20	0°♊16'29	1°58'58	
min. Earth dist.	-8918 Jan 24 j 15:19	0°♊15'20	29.30409 AU	
	-8918 Feb 03 j 04:04	30°℞♉		
direct	-8918 Apr 15 j 06:28	28°♉52'15		
	-8918 Jun 20 j 23:43	0°♊		
evening set	-8918 Jul 14 j 06:58	0°♊48'05		
conjunction	-8918 Jul 29 j 13:10	1°♊22'18	1°53'23	
minimum elong	-8918 Jul 29 j 13:09	1°♊22'18	1°53'50	
max. Earth dist.	-8918 Jul 28 j 20:41	1°♊20'45	31.30339 AU	
morning rise	-8918 Aug 13 j 16:44	1°♊56'20		
retrograde	-8918 Nov 08 j 15:33	3°♊49'19		
opposition	-8917 Jan 26 j 10:57	2°♊27'24	2°03'12	
min. Earth dist.	-8917 Jan 27 j 03:25	2°♊26'17	29.30501 AU	
direct	-8917 Apr 17 j 21:07	1°♊03'11		
evening set	-8917 Jul 16 j 16:55	2°♊58'56		
conjunction	-8917 Jul 31 j 22:23	3°♊33'06	1°57'16	
minimum elong	-8917 Jul 31 j 22:22	3°♊33'06	1°57'45	
max. Earth dist.	-8917 Jul 31 j 05:27	3°♊31'31	31.30376 AU	
morning rise	-8917 Aug 16 j 01:40	4°♊07'06		
retrograde	-8917 Nov 11 j 03:20	6°♊00'10		
opposition	-8916 Jan 28 j 23:22	4°♊38'10	2°07'16	
min. Earth dist.	-8916 Jan 29 j 14:47	4°♊37'08	29.30509 AU	
direct	-8916 Apr 19 j 08:55	3°♊13'58		
evening set	-8916 Jul 18 j 02:32	5°♊09'37		
conjunction	-8916 Aug 02 j 07:37	5°♊43'45	2°00'59	
minimum elong	-8916 Aug 02 j 07:36	5°♊43'45	2°01'28	
max. Earth dist.	-8916 Aug 01 j 16:25	5°♊42'19	31.30340 AU	
morning rise	-8916 Aug 17 j 10:19	6°♊17'42		
retrograde	-8916 Nov 12 j 11:21	8°♊10'51		
opposition	-8915 Jan 30 j 11:58	6°♊48'47	2°11'09	
min. Earth dist.	-8915 Jan 31 j 03:19	6°♊47'44	29.30460 AU	
direct	-8915 Apr 21 j 21:45	5°♊24'35		
evening set	-8915 Jul 20 j 12:11	7°♊20'07		
conjunction	-8915 Aug 04 j 16:32	7°♊54'13	2°04'31	
minimum elong	-8915 Aug 04 j 16:31	7°♊54'13	2°05'01	
max. Earth dist.	-8915 Aug 04 j 01:26	7°♊52'47	31.30290 AU	
morning rise	-8915 Aug 19 j 18:57	8°♊28'08		
retrograde	-8915 Nov 14 j 21:26	10°♊21'22		
opposition	-8914 Feb 02 j 00:28	8°♊59'13	2°14'51	
min. Earth dist.	-8914 Feb 02 j 13:55	8°♊58'19	29.30433 AU	
direct	-8914 Apr 24 j 09:22	7°♊35'03		
evening set	-8914 Jul 22 j 21:41	9°♊30'29		
conjunction	-8914 Aug 07 j 01:36	10°♊04'32	2°07'53	
minimum elong	-8914 Aug 07 j 01:36	10°♊04'32	2°08'23	
max. Earth dist.	-8914 Aug 06 j 12:11	10°♊03'16	31.30279 AU	
morning rise	-8914 Aug 22 j 03:29	10°♊38'26		
retrograde	-8914 Nov 17 j 07:07	12°♊31'46		
opposition	-8913 Feb 04 j 13:12	11°♊09'33	2°18'21	
min. Earth dist.	-8913 Feb 05 j 02:35	11°♊08'39	29.30473 AU	
direct	-8913 Apr 26 j 20:00	9°♊45'26		
evening set	-8913 Jul 25 j 07:05	11°♊40'47		
conjunction	-8913 Aug 09 j 10:28	12°♊14'47	2°11'04	
minimum elong	-8913 Aug 09 j 10:27	12°♊14'47	2°11'35	
max. Earth dist.	-8913 Aug 08 j 21:56	12°♊13'36	31.30361 AU	
morning rise	-8913 Aug 24 j 12:02	12°♊48'40		
retrograde	-8913 Nov 19 j 17:55	14°♊42'06		
opposition	-8912 Feb 07 j 01:44	13°♊19'51	2°21'39	
min. Earth dist.	-8912 Feb 07 j 12:56	13°♊19'06	29.30594 AU	
direct	-8912 Apr 28 j 07:54	11°♊55'47		
evening set	-8912 Jul 26 j 16:31	13°♊51'04		
conjunction	-8912 Aug 10 j 19:24	14°♊25'02	2°14'03	
minimum elong	-8912 Aug 10 j 19:24	14°♊25'02	2°14'34	

Attention, astronomical year style is used: The year -8912 in astronomical counting style is the year 8913 BCE in historical counting style.

max. Earth dist.	-8912 Aug 10 j 07:40	14°♊23'56	31.30507 AU
morning rise	-8912 Aug 25 j 20:38	14°♊58'54	
retrograde	-8912 Nov 21 j 05:27	16°♊52'28	
opposition	-8911 Feb 08 j 14:18	15°♊30'11	2°24'44
min. Earth dist.	-8911 Feb 09 j 01:24	15°♊29'26	29.30781 AU
direct	-8911 Apr 30 j 17:49	14°♊06'12	
evening set	-8911 Jul 29 j 01:52	16°♊01'25	
conjunction	-8911 Aug 13 j 04:22	16°♊35'22	2°16'51
minimum elong	-8911 Aug 13 j 04:21	16°♊35'22	2°17'24
max. Earth dist.	-8911 Aug 12 j 18:10	16°♊34'24	31.30711 AU
morning rise	-8911 Aug 28 j 05:12	17°♊09'12	
retrograde	-8911 Nov 23 j 16:32	19°♊02'54	
opposition	-8910 Feb 11 j 03:02	17°♊40'37	2°27'38
min. Earth dist.	-8910 Feb 11 j 12:33	17°♊39'59	29.30985 AU
direct	-8910 May 03 j 05:42	16°♊16'43	
evening set	-8910 Jul 31 j 11:12	18°♊11'53	
conjunction	-8910 Aug 15 j 13:07	18°♊45'48	2°19'28
minimum elong	-8910 Aug 15 j 13:07	18°♊45'48	2°20'00
max. Earth dist.	-8910 Aug 15 j 03:07	18°♊44'51	31.30903 AU
morning rise	-8910 Aug 30 j 13:47	19°♊19'37	
retrograde	-8910 Nov 26 j 04:45	21°♊13'29	
opposition	-8909 Feb 13 j 15:55	19°♊51'10	2°30'19
min. Earth dist.	-8909 Feb 14 j 00:57	19°♊50'34	29.31170 AU
direct	-8909 May 05 j 16:17	18°♊27'21	
evening set	-8909 Aug 02 j 20:31	20°♊22'28	
conjunction	-8909 Aug 17 j 22:11	20°♊56'22	2°21'52
minimum elong	-8909 Aug 17 j 22:11	20°♊56'22	2°22'25
max. Earth dist.	-8909 Aug 17 j 14:00	20°♊55'35	31.31043 AU
morning rise	-8909 Sep 01 j 22:26	21°♊30'10	
retrograde	-8909 Nov 28 j 15:33	23°♊24'10	
opposition	-8908 Feb 16 j 04:41	22°♊01'51	2°32'47
min. Earth dist.	-8908 Feb 16 j 13:04	22°♊01'17	29.31264 AU
direct	-8908 May 07 j 05:43	20°♊38'07	
evening set	-8908 Aug 04 j 05:59	22°♊33'10	
conjunction	-8908 Aug 19 j 07:07	23°♊07'02	2°24'04
minimum elong	-8908 Aug 19 j 07:06	23°♊07'02	2°24'37
max. Earth dist.	-8908 Aug 18 j 22:31	23°♊06'14	31.31078 AU
morning rise	-8908 Sep 03 j 07:17	23°♊40'50	
retrograde	-8908 Nov 30 j 04:20	25°♊34'58	
opposition	-8907 Feb 17 j 17:33	24°♊12'37	2°35'01
min. Earth dist.	-8907 Feb 18 j 00:49	24°♊12'08	29.31242 AU
direct	-8907 May 09 j 16:56	22°♊48'57	
evening set	-8907 Aug 06 j 15:14	24°♊43'57	
conjunction	-8907 Aug 21 j 16:09	25°♊17'48	2°26'04
minimum elong	-8907 Aug 21 j 16:08	25°♊17'48	2°26'38
max. Earth dist.	-8907 Aug 21 j 09:07	25°♊17'08	31.30969 AU
morning rise	-8907 Sep 05 j 15:55	25°♊51'35	
retrograde	-8907 Dec 02 j 13:31	27°♊45'52	
opposition	-8906 Feb 20 j 06:38	26°♊23'28	2°37'03
min. Earth dist.	-8906 Feb 20 j 13:55	26°♊22'58	29.31061 AU
direct	-8906 May 12 j 05:36	24°♊59'51	
evening set	-8906 Aug 09 j 00:39	26°♊54'45	
conjunction	-8906 Aug 24 j 01:08	27°♊28'35	2°27'52
minimum elong	-8906 Aug 24 j 01:07	27°♊28'35	2°28'25
max. Earth dist.	-8906 Aug 23 j 18:02	27°♊27'55	31.30720 AU
morning rise	-8906 Sep 08 j 00:52	28°♊02'21	
retrograde	-8906 Dec 05 j 00:37	29°♊56'45	
opposition	-8905 Feb 22 j 19:33	28°♊34'18	2°38'51
min. Earth dist.	-8905 Feb 23 j 01:12	28°♊33'55	29.30745 AU
direct	-8905 May 14 j 17:23	27°♊10'43	
evening set	-8905 Aug 11 j 09:46	29°♊05'32	

conjunction	-8905 Aug 26 j 10:04	29°♊39'21	2°29'26
minimum elong	-8905 Aug 26 j 10:04	29°♊39'20	2°30'01
max. Earth dist.	-8905 Aug 26 j 04:09	29°♊38'47	31.30327 AU
	-8905 Sep 04 j 12:57	0°♋	
morning rise	-8905 Sep 10 j 09:37	0°♋13'07	
retrograde	-8905 Dec 07 j 10:47	2°♋07'38	
opposition	-8904 Feb 25 j 08:35	0°♋45'06	2°40'26
min. Earth dist.	-8904 Feb 25 j 14:33	0°♋44'42	29.30300 AU
	-8904 Mar 25 j 20:26	30°℞♊	
direct	-8904 May 16 j 04:26	29°♊21'32	
	-8904 Jul 04 j 02:58	0°♋	
evening set	-8904 Aug 12 j 18:55	1°♋16'14	
conjunction	-8904 Aug 27 j 18:58	1°♋50'01	2°30'48
minimum elong	-8904 Aug 27 j 18:58	1°♋50'01	2°31'22
max. Earth dist.	-8904 Aug 27 j 13:50	1°♋49'32	31.29840 AU
morning rise	-8904 Sep 11 j 18:25	2°♋23'47	
retrograde	-8904 Dec 08 j 21:22	4°♋18'25	
opposition	-8903 Feb 26 j 21:18	2°♋55'47	2°41'47
min. Earth dist.	-8903 Feb 27 j 01:19	2°♋55'31	29.29778 AU
direct	-8903 May 18 j 16:28	1°♋32'14	
evening set	-8903 Aug 15 j 03:58	3°♋26'50	
conjunction	-8903 Aug 30 j 03:44	4°♋00'36	2°31'58
minimum elong	-8903 Aug 30 j 03:43	4°♋00'36	2°32'32
max. Earth dist.	-8903 Aug 29 j 23:14	4°♋00'11	31.29300 AU
morning rise	-8903 Sep 14 j 03:09	4°♋34'22	
retrograde	-8903 Dec 11 j 08:53	6°♋29'07	
opposition	-8902 Mar 01 j 10:20	5°♋06'23	2°42'54
min. Earth dist.	-8902 Mar 01 j 14:07	5°♋06'08	29.29255 AU
direct	-8902 May 21 j 02:10	3°♋42'51	
evening set	-8902 Aug 17 j 12:45	5°♋37'20	
conjunction	-8902 Sep 01 j 12:26	6°♋11'05	2°32'54
minimum elong	-8902 Sep 01 j 12:26	6°♋11'05	2°33'27
max. Earth dist.	-8902 Sep 01 j 09:50	6°♋10'51	31.28797 AU
morning rise	-8902 Sep 16 j 11:44	6°♋44'51	
retrograde	-8902 Dec 13 j 19:41	8°♋39'43	
opposition	-8901 Mar 03 j 23:15	7°♋16'54	2°43'47
min. Earth dist.	-8901 Mar 04 j 01:07	7°♋16'47	29.28780 AU
direct	-8901 May 23 j 13:27	5°♋53'23	
evening set	-8901 Aug 19 j 21:45	7°♋47'47	
conjunction	-8901 Sep 03 j 21:08	8°♋21'32	2°33'37
minimum elong	-8901 Sep 03 j 21:08	8°♋21'32	2°34'11
max. Earth dist.	-8901 Sep 03 j 18:52	8°♋21'19	31.28364 AU
morning rise	-8901 Sep 18 j 20:35	8°♋55'18	
retrograde	-8901 Dec 16 j 08:09	10°♋50'17	
opposition	-8900 Mar 05 j 12:01	9°♋27'24	2°44'26
min. Earth dist.	-8900 Mar 05 j 13:02	9°♋27'20	29.28408 AU
direct	-8900 May 24 j 23:44	8°♋03'55	
evening set	-8900 Aug 21 j 06:31	9°♋58'14	
conjunction	-8900 Sep 05 j 05:59	10°♋31'59	2°34'07
minimum elong	-8900 Sep 05 j 05:59	10°♋31'59	2°34'40
max. Earth dist.	-8900 Sep 05 j 05:57	10°♋31'59	31.28034 AU
morning rise	-8900 Sep 20 j 05:17	11°♋05'45	
retrograde	-8900 Dec 17 j 19:45	13°♋00'52	
opposition	-8899 Mar 08 j 00:56	11°♋37'56	2°44'51
min. Earth dist.	-8899 Mar 08 j 00:44	11°♋37'57	29.28117 AU
direct	-8899 May 27 j 12:25	10°♋14'32	
evening set	-8899 Aug 23 j 15:21	12°♋08'46	
conjunction	-8899 Sep 07 j 14:34	12°♋42'31	2°34'23
minimum elong	-8899 Sep 07 j 14:34	12°♋42'31	2°34'58
max. Earth dist.	-8899 Sep 07 j 14:43	12°♋42'32	31.27790 AU
morning rise	-8899 Sep 22 j 14:06	13°♋16'18	

Attention, astronomical year style is used: The year -8899 in astronomical counting style is the year 8900 BCE in historical counting style.
retrograde -8899 Dec 20 j 08:55 15°♋11'34