Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

	-3400 Jan 21 j 22:02	0°♐		
retrograde	-3400 Apr 27 j 18:14	12°♐11'14		
opposition	-3400 Jun 27 j 12:04	7°♐12'07	-0°42'56	
min. Earth dist.	-3400 Jun 27 j 05:57	7°♐14'08	4.04370 AU	
direct	-3400 Aug 25 j 13:32	2°♐19'05		
evening set	-3400 Dec 27 j 20:01	21°♐28'32		
conjunction	-3399 Jan 09 j 21:57	24°♐35'50	-0°49'53	
minimum elong	-3399 Jan 09 j 21:53	24°♐35'48	0°50'01	
max. Earth dist.	-3399 Jan 10 j 19:14	24°♐48'33	6.01606 AU	
morning rise	-3399 Jan 23 j 02:55	27°♐44'51		
	-3399 Feb 01 j 16:30	0°♑		
retrograde	-3399 Jun 04 j 04:51	18°♑03'06		
opposition	-3399 Aug 03 j 10:16	13°♑00'12	-1°40'50	
min. Earth dist.	-3399 Aug 02 j 12:19	13°♑07'33	4.00595 AU	
direct	-3399 Sep 30 j 14:42	8°♑06'14		
evening set	-3398 Feb 02 j 07:54	27°♑26'38		
	-3398 Feb 13 j 02:28	0°♒		
conjunction	-3398 Feb 15 j 17:10	0°♒37'16	-1°17'26	
minimum elong	-3398 Feb 15 j 17:08	0°♒37'15	1°17'32	
max. Earth dist.	-3398 Feb 17 j 11:40	1°♒02'31	6.01202 AU	
morning rise	-3398 Mar 01 j 05:39	3°♒49'30		
	-3398 Apr 21 j 02:02	15°♒		
retrograde	-3398 Jul 10 j 22:21	24°♒03'01		
min. Earth dist.	-3398 Sep 07 j 10:15	19°♒08'18	4.03760 AU	
opposition	-3398 Sep 08 j 16:43	18°♒57'56	-2°00'11	
	-3398 Oct 12 j 18:16	15°℞♒		
direct	-3398 Nov 05 j 17:18	14°♒01'14		
	-3398 Nov 29 j 20:10	15°♒		
	-3397 Feb 25 j 06:41	0°♓		
evening set	-3397 Mar 11 j 10:07	3°♓14'35		
conjunction	-3397 Mar 25 j 01:47	6°♓25'09	-1°15'38	
minimum elong	-3397 Mar 25 j 01:50	6°♓25'11	1°15'40	
max. Earth dist.	-3397 Mar 27 j 00:18	6°♓52'15	6.07527 AU	
morning rise	-3397 Apr 07 j 19:38	9°♓36'37		
retrograde	-3397 Aug 15 j 00:00	29°♓07'28		
min. Earth dist.	-3397 Oct 12 j 08:43	24°♓11'54	4.12536 AU	
opposition	-3397 Oct 13 j 11:21	24°♓02'48	-1°34'46	
direct	-3397 Dec 11 j 05:18	19°♓02'46		
	-3396 Mar 10 j 10:40	0°♈		
evening set	-3396 Apr 15 j 21:24	7°♈54'19		
conjunction	-3396 Apr 29 j 16:04	11°♈01'36	-0°46'46	
minimum elong	-3396 Apr 29 j 16:08	11°♈01'38	0°46'44	
max. Earth dist.	-3396 May 01 j 03:21	11°♈21'37	6.18055 AU	
morning rise	-3396 May 13 j 10:34	14°♈08'36		
	-3396 Aug 05 j 18:07	0°♉		
retrograde	-3396 Sep 16 j 02:51	2°♉39'44		
	-3396 Oct 27 j 07:15	30°℞♈		
opposition	-3396 Nov 14 j 13:25	27°♈37'58	-0°38'21	
min. Earth dist.	-3396 Nov 13 j 22:12	27°♈43'06	4.23688 AU	
direct	-3395 Jan 13 j 11:11	22°♈35'29		
	-3395 Mar 27 j 22:55	0°♉		
evening set	-3395 May 20 j 22:24	11°♉00'35		
conjunction	-3395 Jun 03 j 14:06	14°♉02'03	-0°03'27	
minimum elong	-3395 Jun 03 j 14:06	14°♉02'03	0°03'23	
behind sun begin	-3395 Jun 03 j 05:52	13°♉57'30		
behind sun end	-3395 Jun 03 j 22:20	14°♉06'36		
max. Earth dist.	-3395 Jun 04 j 00:15	14°♉07'40	6.29024 AU	
	-3395 Jun 07 j 22:34	15°♉		
morning rise	-3395 Jun 17 j 04:00	17°♉02'24		
asc. node	-3395 Jul 03 j 09:33	20°♉33'55		

	-3395 Aug 22 j 12:03	0°♊		
retrograde	-3395 Oct 17 j 17:06	4°♊40'38		
	-3395 Dec 14 j 04:20	30°℞♉		
opposition	-3395 Dec 16 j 08:17	29°♉42'45	0°27'16	
min. Earth dist.	-3395 Dec 16 j 09:26	29°♉42'22	4.33536 AU	
direct	-3394 Feb 15 j 13:40	24°♉39'07		
	-3394 Apr 18 j 21:09	0°♊		
evening set	-3394 Jun 23 j 07:50	12°♊42'50		
conjunction	-3394 Jul 06 j 16:06	15°♊37'54	0°39'40	
minimum elong	-3394 Jul 06 j 16:04	15°♊37'53	0°39'48	
max. Earth dist.	-3394 Jul 06 j 02:41	15°♊30'33	6.37017 AU	
morning rise	-3394 Jul 19 j 21:03	18°♊31'20		
	-3394 Sep 16 j 00:22	0°♋		
retrograde	-3394 Nov 17 j 11:51	5°♋37'35		
opposition	-3393 Jan 16 j 12:35	0°♋43'18	1°22'47	
min. Earth dist.	-3393 Jan 17 j 04:32	0°♋38'06	4.39214 AU	
	-3393 Jan 22 j 02:05	30°℞♊		
direct	-3393 Mar 19 j 17:02	25°♊40'01		
	-3393 May 14 j 20:31	0°♋		
evening set	-3393 Jul 25 j 08:08	13°♋32'31		
max. Earth dist.	-3393 Aug 05 j 21:07	16°♋03'57	6.39849 AU	
conjunction	-3393 Aug 07 j 07:01	16°♋22'33	1°10'34	
minimum elong	-3393 Aug 07 j 06:58	16°♋22'32	1°10'41	
morning rise	-3393 Aug 20 j 02:50	19°♋11'04		
	-3393 Oct 13 j 07:22	0°♌		
retrograde	-3393 Dec 18 j 11:12	6°♌11'09		
opposition	-3392 Feb 16 j 21:21	1°♌19'09	1°54'40	
min. Earth dist.	-3392 Feb 18 j 01:27	1°♌10'09	4.39178 AU	
	-3392 Feb 27 j 07:04	30°℞♋		
direct	-3392 Apr 19 j 13:38	26°♋17'24		
	-3392 Jun 10 j 04:21	0°♌		
evening set	-3392 Aug 24 j 12:23	14°♌10'19		
	-3392 Aug 28 j 06:28	15°♌		
max. Earth dist.	-3392 Sep 04 j 09:39	16°♌34'52	6.36830 AU	
conjunction	-3392 Sep 06 j 04:16	16°♌58'31	1°21'37	
minimum elong	-3392 Sep 06 j 04:16	16°♌58'31	1°21'42	
morning rise	-3392 Sep 18 j 17:37	19°♌45'37		
	-3392 Nov 07 j 19:53	0°♍		
retrograde	-3391 Jan 18 j 06:32	7°♍04'58		
opposition	-3391 Mar 20 j 03:16	2°♍13'27	1°54'47	
min. Earth dist.	-3391 Mar 21 j 10:05	2°♍03'38	4.33433 AU	
	-3391 Apr 07 j 06:31	30°℞♌		
direct	-3391 May 21 j 12:50	27°♌14'10		
	-3391 Jul 04 j 08:32	0°♍		
evening set	-3391 Sep 24 j 14:34	15°♍18'34		
max. Earth dist.	-3391 Oct 05 j 11:14	17°♍45'53	6.28773 AU	
conjunction	-3391 Oct 07 j 03:30	18°♍08'43	1°09'23	
minimum elong	-3391 Oct 07 j 03:32	18°♍08'44	1°09'25	
morning rise	-3391 Oct 19 j 15:24	20°♍58'33		
	-3391 Dec 01 j 00:45	0°♎		
retrograde	-3390 Feb 20 j 18:40	8°♎59'06		
opposition	-3390 Apr 22 j 19:49	4°♎06'17	1°20'48	
min. Earth dist.	-3390 Apr 23 j 21:53	3°♎57'59	4.23504 AU	
	-3390 May 31 j 00:08	30°℞♍		
direct	-3390 Jun 23 j 09:36	29°♍09'53		
	-3390 Jul 16 j 15:24	0°♎		
evening set	-3390 Oct 26 j 10:01	17°♎34'29		
max. Earth dist.	-3390 Nov 06 j 21:57	20°♎14'20	6.17871 AU	
conjunction	-3390 Nov 08 j 00:43	20°♎29'53	0°35'38	
minimum elong	-3390 Nov 08 j 00:46	20°♎29'55	0°35'36	

Attention, astronomical year style is used: The year -3390 in astronomical counting style is the year 3391 BCE in historical counting style.

morning rise	-3390 Nov 20 j 16:10	23°♎25'53	
	-3390 Dec 20 j 00:54	0°♏	
retrograde	-3389 Mar 28 j 01:56	12°♏21'38	
opposition	-3389 May 28 j 02:50	7°♏25'53	0°18'58
min. Earth dist.	-3389 May 28 j 13:05	7°♏22'34	4.12344 AU
direct	-3389 Jul 27 j 08:05	2°♏31'56	
desc. node	-3389 Sep 11 j 01:24	5°♏45'06	
	-3389 Oct 31 j 20:49	15°♏	
evening set	-3389 Nov 28 j 17:00	21°♏21'16	
conjunction	-3389 Dec 11 j 12:56	24°♏23'22	-0°11'08
minimum elong	-3389 Dec 11 j 12:55	24°♏23'22	0°11'13
behind sun begin	-3389 Dec 11 j 06:54	24°♏19'49	
behind sun end	-3389 Dec 11 j 18:57	24°♏26'55	
max. Earth dist.	-3389 Dec 11 j 10:43	24°♏22'04	6.07515 AU
morning rise	-3389 Dec 24 j 11:04	27°♏26'50	
	-3388 Jan 04 j 09:32	0°♐	
retrograde	-3388 May 03 j 00:02	17°♐16'10	
opposition	-3388 Jul 02 j 15:39	12°♐16'30	-0°52'32
min. Earth dist.	-3388 Jul 02 j 07:58	12°♐19'03	4.03703 AU
direct	-3388 Aug 30 j 14:20	7°♐23'29	
evening set	-3387 Jan 01 j 20:09	26°♐34'30	
conjunction	-3387 Jan 14 j 23:00	29°♐42'19	-0°55'11
minimum elong	-3387 Jan 14 j 22:57	29°♐42'17	0°55'18
max. Earth dist.	-3387 Jan 15 j 23:21	29°♐56'52	6.01343 AU
	-3387 Jan 16 j 04:36	0°♑	
morning rise	-3387 Jan 28 j 05:06	2°♑51'54	
retrograde	-3387 Jun 09 j 08:08	23°♑11'10	
opposition	-3387 Aug 08 j 12:27	18°♑07'54	-1°46'11
min. Earth dist.	-3387 Aug 07 j 12:19	18°♑16'00	4.00801 AU
direct	-3387 Oct 05 j 14:37	13°♑13'41	
	-3386 Jan 27 j 12:21	0°♒	
evening set	-3386 Feb 07 j 10:56	2°♒33'38	
conjunction	-3386 Feb 20 j 21:05	5°♒44'21	-1°19'01
minimum elong	-3386 Feb 20 j 21:04	5°♒44'21	1°19'07
max. Earth dist.	-3386 Feb 22 j 16:05	6°♒09'51	6.01829 AU
morning rise	-3386 Mar 06 j 10:29	8°♒56'39	
	-3386 Apr 01 j 21:11	15°♒	
retrograde	-3386 Jul 15 j 21:20	29°♒05'58	
min. Earth dist.	-3386 Sep 12 j 08:31	24°♒11'00	4.04737 AU
opposition	-3386 Sep 13 j 14:33	24°♒00'46	-1°59'10
direct	-3386 Nov 10 j 17:14	19°♒03'34	
	-3385 Feb 07 j 08:43	0°♓	
evening set	-3385 Mar 16 j 12:26	8°♓14'33	
conjunction	-3385 Mar 30 j 04:57	11°♓24'54	-1°13'01
minimum elong	-3385 Mar 30 j 05:00	11°♓24'55	1°13'03
max. Earth dist.	-3385 Apr 01 j 03:48	11°♓52'05	6.08783 AU
morning rise	-3385 Apr 12 j 23:04	14°♓35'55	
	-3385 Jun 29 j 11:27	0°♈	
retrograde	-3385 Aug 19 j 17:02	3°♈59'09	
	-3385 Oct 10 j 02:53	30°℞♓	
min. Earth dist.	-3385 Oct 17 j 02:15	29°♓03'26	4.13929 AU
opposition	-3385 Oct 18 j 03:31	28°♓54'49	-1°28'18
direct	-3385 Dec 16 j 00:16	23°♓54'24	
	-3384 Feb 18 j 14:24	0°♈	
evening set	-3384 Apr 20 j 20:20	12°♈42'46	
conjunction	-3384 May 04 j 14:51	15°♈49'24	-0°41'15
minimum elong	-3384 May 04 j 14:54	15°♈49'26	0°41'12
max. Earth dist.	-3384 May 05 j 21:36	16°♈06'47	6.19471 AU
morning rise	-3384 May 18 j 09:14	18°♈55'42	
	-3384 Jul 10 j 18:55	0°♉	
retrograde	-3384 Sep 20 j 13:50	7°♉19'20	
opposition	-3384 Nov 19 j 01:05	2°♉18'01	-0°29'16
min. Earth dist.	-3384 Nov 18 j 12:13	2°♉22'22	4.24991 AU
	-3384 Dec 06 j 19:23	30°℞♈	
direct	-3383 Jan 18 j 03:26	27°♈15'15	
	-3383 Mar 01 j 22:33	0°♉	
asc. node	-3383 May 13 j 06:59	12°♉55'45	
	-3383 May 22 j 19:37	15°♉	
evening set	-3383 May 25 j 16:20	15°♉37'42	
conjunction	-3383 Jun 08 j 07:26	18°♉38'26	0°03'01
minimum elong	-3383 Jun 08 j 07:25	18°♉38'25	0°03'06
behind sun begin	-3383 Jun 07 j 23:11	18°♉33'53	
behind sun end	-3383 Jun 08 j 15:39	18°♉42'57	
max. Earth dist.	-3383 Jun 08 j 15:13	18°♉42'43	6.30134 AU
morning rise	-3383 Jun 21 j 20:10	21°♉37'52	
	-3383 Jul 31 j 21:46	0°♊	
retrograde	-3383 Oct 22 j 01:18	9°♊11'05	
opposition	-3383 Dec 20 j 17:39	4°♊13'45	0°36'02
min. Earth dist.	-3383 Dec 20 j 20:40	4°♊12'46	4.34371 AU
	-3382 Jan 27 j 22:35	30°℞♉	
direct	-3382 Feb 20 j 02:25	29°♉10'08	
	-3382 Mar 15 j 13:00	0°♊	
evening set	-3382 Jun 27 j 21:40	17°♊12'26	
max. Earth dist.	-3382 Jul 10 j 10:44	19°♊57'00	6.37505 AU
conjunction	-3382 Jul 11 j 04:33	20°♊06'46	0°44'59
minimum elong	-3382 Jul 11 j 04:30	20°♊06'44	0°45'05
morning rise	-3382 Jul 24 j 08:23	22°♊59'29	
	-3382 Aug 26 j 20:00	0°♋	
retrograde	-3382 Nov 21 j 20:53	10°♋04'04	
opposition	-3381 Jan 20 j 22:15	5°♋10'10	1°28'58
min. Earth dist.	-3381 Jan 21 j 16:34	5°♋04'13	4.39362 AU
direct	-3381 Mar 24 j 05:51	0°♋07'01	
evening set	-3381 Jul 29 j 18:55	17°♋59'30	
max. Earth dist.	-3381 Aug 10 j 06:44	20°♋30'26	6.39652 AU
conjunction	-3381 Aug 11 j 16:49	20°♋49'09	1°13'27
minimum elong	-3381 Aug 11 j 16:47	20°♋49'07	1°13'34
morning rise	-3381 Aug 24 j 11:22	23°♋37'15	
	-3381 Sep 23 j 17:02	0°♌	
retrograde	-3381 Dec 22 j 20:30	10°♌38'47	
opposition	-3380 Feb 21 j 09:20	5°♌46'57	1°56'42
min. Earth dist.	-3380 Feb 22 j 13:02	5°♌38'05	4.38690 AU
direct	-3380 Apr 24 j 00:56	0°♌45'34	
	-3380 Aug 12 j 01:44	15°♌	
evening set	-3380 Aug 28 j 21:56	18°♌39'16	
max. Earth dist.	-3380 Sep 08 j 18:06	21°♌03'35	6.36091 AU
conjunction	-3380 Sep 10 j 12:58	21°♌27'26	1°21'18
minimum elong	-3380 Sep 10 j 12:58	21°♌27'27	1°21'22
morning rise	-3380 Sep 23 j 01:53	24°♌14'38	
	-3380 Oct 19 j 20:08	0°♍	
retrograde	-3379 Jan 22 j 22:14	11°♍37'57	
opposition	-3379 Mar 24 j 19:23	6°♍46'20	1°51'58
min. Earth dist.	-3379 Mar 26 j 02:27	6°♍36'28	4.32484 AU
direct	-3379 May 26 j 04:25	1°♍47'26	
evening set	-3379 Sep 29 j 00:32	19°♍53'06	
max. Earth dist.	-3379 Oct 09 j 22:48	22°♍21'41	6.27701 AU
conjunction	-3379 Oct 11 j 13:28	22°♍43'40	1°05'49
minimum elong	-3379 Oct 11 j 13:31	22°♍43'41	1°05'50
morning rise	-3379 Oct 24 j 01:31	25°♍34'00	
	-3379 Nov 13 j 01:02	0°♎	
retrograde	-3378 Feb 25 j 12:42	13°♎40'12	
opposition	-3378 Apr 27 j 15:51	8°♎47'01	1°13'31
min. Earth dist.	-3378 Apr 28 j 15:02	8°♎39'37	4.22376 AU
direct	-3378 Jun 28 j 01:05	3°♎51'00	
evening set	-3378 Oct 30 j 22:47	22°♎17'14	

Attention, astronomical year style is used: The year -3378 in astronomical counting style is the year 3379 BCE in historical counting style.

conjunction	-3378 Nov 12 j 13:56	25°♎13'17	0°29'38
minimum elong	-3378 Nov 12 j 13:58	25°♎13'19	0°29'34
max. Earth dist.	-3378 Nov 11 j 14:38	24°♎59'44	6.16792 AU
morning rise	-3378 Nov 25 j 06:00	28°♎10'02	
	-3378 Dec 03 j 05:12	0°♏	
	-3377 Feb 22 j 21:36	15°♏	
retrograde	-3377 Apr 02 j 02:48	17°♏11'54	
	-3377 May 10 j 13:09	15°℞♏	
opposition	-3377 Jun 02 j 02:19	12°♏15'37	0°09'07
min. Earth dist.	-3377 Jun 02 j 11:06	12°♏12'46	4.11374 AU
desc. node	-3377 Jul 22 j 17:47	7°♏30'35	
direct	-3377 Aug 01 j 04:38	7°♏21'51	
	-3377 Oct 12 j 20:36	15°♏	
evening set	-3377 Dec 03 j 09:56	26°♏12'53	
conjunction	-3377 Dec 16 j 06:40	29°♏15'40	-0°17'44
minimum elong	-3377 Dec 16 j 06:38	29°♏15'39	0°17'50
max. Earth dist.	-3377 Dec 16 j 07:24	29°♏16'06	6.06739 AU
	-3377 Dec 19 j 09:22	0°♐	
morning rise	-3377 Dec 29 j 05:49	2°♐19'55	
retrograde	-3376 May 08 j 00:51	22°♐13'43	
opposition	-3376 Jul 07 j 16:15	17°♐13'33	-1°01'30
min. Earth dist.	-3376 Jul 07 j 05:45	17°♐17'01	4.03219 AU
direct	-3376 Sep 04 j 10:44	12°♐20'30	
	-3376 Dec 31 j 04:50	0°♑	
evening set	-3375 Jan 06 j 17:46	1°♑32'44	
conjunction	-3375 Jan 19 j 21:28	4°♑41'00	-0°59'56
minimum elong	-3375 Jan 19 j 21:25	4°♑40'58	1°00'03
max. Earth dist.	-3375 Jan 20 j 23:41	4°♑56'40	6.01166 AU
morning rise	-3375 Feb 02 j 04:33	7°♑51'04	
retrograde	-3375 Jun 14 j 08:37	28°♑11'10	
min. Earth dist.	-3375 Aug 12 j 10:35	23°♑15'53	4.00965 AU
opposition	-3375 Aug 13 j 11:26	23°♑07'31	-1°50'37
direct	-3375 Oct 10 j 13:19	18°♑12'56	
	-3374 Jan 10 j 06:51	0°♒	
evening set	-3374 Feb 12 j 11:29	7°♒32'57	
conjunction	-3374 Feb 25 j 22:45	10°♒43'55	-1°19'59
minimum elong	-3374 Feb 25 j 22:44	10°♒43'55	1°20'05
max. Earth dist.	-3374 Feb 27 j 19:52	11°♒10'36	6.02319 AU
morning rise	-3374 Mar 11 j 12:52	13°♒56'19	
	-3374 Mar 16 j 01:47	15°♒	
	-3374 May 30 j 03:42	0°♓	
retrograde	-3374 Jul 20 j 18:51	4°♓01'56	
	-3374 Sep 10 j 14:57	30°℞♒	
min. Earth dist.	-3374 Sep 17 j 04:20	29°♒06'47	4.05516 AU
opposition	-3374 Sep 18 j 09:44	28°♒56'46	-1°57'20
direct	-3374 Nov 15 j 13:11	23°♒59'11	
	-3373 Jan 17 j 14:09	0°♓	
evening set	-3373 Mar 21 j 13:04	13°♓08'50	
conjunction	-3373 Apr 04 j 06:03	16°♓19'00	-1°09'56
minimum elong	-3373 Apr 04 j 06:07	16°♓19'02	1°09'59
max. Earth dist.	-3373 Apr 06 j 02:14	16°♓44'34	6.09778 AU
morning rise	-3373 Apr 18 j 00:47	19°♓29'48	
	-3373 Jun 05 j 22:30	0°♈	
retrograde	-3373 Aug 24 j 07:38	8°♈46'39	
opposition	-3373 Oct 22 j 18:19	3°♈42'38	-1°21'23
min. Earth dist.	-3373 Oct 21 j 18:07	3°♈50'53	4.15039 AU
	-3373 Nov 22 j 15:28	30°℞♓	
direct	-3373 Dec 20 j 17:53	28°♓41'52	
	-3372 Jan 18 j 04:56	0°♈	
evening set	-3372 Apr 25 j 17:59	17°♈28'07	
conjunction	-3372 May 09 j 12:33	20°♈34'16	-0°35'32
minimum elong	-3372 May 09 j 12:35	20°♈34'18	0°35'29
max. Earth dist.	-3372 May 10 j 17:24	20°♈50'34	6.20645 AU
morning rise	-3372 May 23 j 06:25	23°♈39'54	
	-3372 Jun 21 j 11:07	0°♉	
retrograde	-3372 Sep 25 j 01:54	11°♉57'06	
opposition	-3372 Nov 23 j 12:24	6°♉56'23	-0°20'05
min. Earth dist.	-3372 Nov 23 j 01:44	6°♉59'58	4.26117 AU
direct	-3371 Jan 22 j 19:11	1°♉53'29	
asc. node	-3371 Mar 23 j 06:44	6°♉55'36	
	-3371 May 06 j 00:47	15°♉	
evening set	-3371 May 30 j 09:58	20°♉13'47	
conjunction	-3371 Jun 13 j 00:06	23°♉13'44	0°09'18
minimum elong	-3371 Jun 13 j 00:05	23°♉13'44	0°09'24
behind sun begin	-3371 Jun 12 j 17:14	23°♉09'57	
behind sun end	-3371 Jun 13 j 06:56	23°♉17'30	
max. Earth dist.	-3371 Jun 13 j 04:08	23°♉15'57	6.31128 AU
morning rise	-3371 Jun 26 j 11:54	26°♉12'21	
	-3371 Jul 14 j 01:13	0°♊	
retrograde	-3371 Oct 26 j 09:17	13°♊40'59	
opposition	-3371 Dec 25 j 02:55	8°♊44'09	0°44'33
min. Earth dist.	-3371 Dec 25 j 07:43	8°♊42'33	4.35182 AU
direct	-3370 Feb 24 j 15:15	3°♊40'29	
evening set	-3370 Jul 02 j 10:45	21°♊41'16	
conjunction	-3370 Jul 15 j 16:29	24°♊34'51	0°49'59
minimum elong	-3370 Jul 15 j 16:26	24°♊34'49	0°50'06
max. Earth dist.	-3370 Jul 14 j 21:34	24°♊24'29	6.38066 AU
morning rise	-3370 Jul 28 j 18:49	27°♊26'46	
	-3370 Aug 09 j 15:07	0°♋	
retrograde	-3370 Nov 26 j 04:15	14°♋29'26	
opposition	-3369 Jan 25 j 07:32	9°♋35'55	1°34'35
min. Earth dist.	-3369 Jan 26 j 02:56	9°♋29'38	4.39638 AU
direct	-3369 Mar 28 j 17:09	4°♋32'59	
evening set	-3369 Aug 03 j 04:28	22°♋24'40	
max. Earth dist.	-3369 Aug 14 j 12:08	24°♋53'32	6.39576 AU
conjunction	-3369 Aug 16 j 01:03	25°♋13'50	1°15'53
minimum elong	-3369 Aug 16 j 01:01	25°♋13'49	1°16'00
morning rise	-3369 Aug 28 j 18:42	28°♋01'33	
	-3369 Sep 06 j 20:54	0°♌	
	-3369 Dec 20 j 13:49	15°♌	
retrograde	-3369 Dec 27 j 06:55	15°♌04'18	
	-3368 Jan 03 j 00:07	15°℞♌	
opposition	-3368 Feb 25 j 20:38	10°♌12'34	1°58'04
min. Earth dist.	-3368 Feb 27 j 01:43	10°♌03'16	4.38255 AU
direct	-3368 Apr 28 j 13:03	5°♌11'24	
	-3368 Jul 25 j 16:00	15°♌	
evening set	-3368 Sep 02 j 05:48	23°♌05'41	
max. Earth dist.	-3368 Sep 13 j 02:20	25°♌30'27	6.35307 AU
conjunction	-3368 Sep 14 j 20:23	25°♌53'55	1°20'31
minimum elong	-3368 Sep 14 j 20:24	25°♌53'55	1°20'35
morning rise	-3368 Sep 27 j 08:43	28°♌41'13	
	-3368 Oct 03 j 07:22	0°♍	
retrograde	-3367 Jan 27 j 10:52	16°♍08'48	
opposition	-3367 Mar 29 j 10:08	11°♍17'04	1°48'31
min. Earth dist.	-3367 Mar 30 j 16:09	11°♍07'32	4.31384 AU
direct	-3367 May 30 j 16:00	6°♍18'34	
evening set	-3367 Oct 03 j 09:43	24°♍26'15	
max. Earth dist.	-3367 Oct 14 j 08:42	26°♍55'45	6.26366 AU
conjunction	-3367 Oct 15 j 22:34	27°♍17'21	1°01'51
minimum elong	-3367 Oct 15 j 22:37	27°♍17'23	1°01'52
	-3367 Oct 27 j 20:11	0°♎	
morning rise	-3367 Oct 28 j 10:59	0°♎08'23	
retrograde	-3366 Mar 02 j 09:57	18°♎21'30	
opposition	-3366 May 02 j 11:50	13°♎27'58	1°05'47

Attention, astronomical year style is used: The year -3366 in astronomical counting style is the year 3367 BCE in historical counting style.

min. Earth dist.	-3366 May 03 j 10:23	13°♎20'45	4.20860 AU
direct	-3366 Jul 02 j 17:55	8°♎32'15	
evening set	-3366 Nov 04 j 11:45	27°♎01'43	
max. Earth dist.	-3366 Nov 16 j 07:03	29°♎46'42	6.15242 AU
conjunction	-3366 Nov 17 j 03:37	29°♎58'42	0°23'24
minimum elong	-3366 Nov 17 j 03:38	29°♎58'43	0°23'21
	-3366 Nov 17 j 05:50	0°♏	
morning rise	-3366 Nov 29 j 20:30	2°♏56'29	
	-3365 Jan 25 j 17:15	15°♏	
retrograde	-3365 Apr 07 j 03:31	22°♏06'18	
desc. node	-3365 Jun 01 j 22:52	17°♏49'35	
opposition	-3365 Jun 07 j 02:58	17°♏09'31	-0°00'56
min. Earth dist.	-3365 Jun 07 j 08:52	17°♏07'36	4.09917 AU
	-3365 Jun 24 j 09:13	15°℞♏	
direct	-3365 Aug 05 j 23:27	12°♏15'58	
	-3365 Sep 16 j 17:50	15°♏	
	-3365 Dec 03 j 05:08	0°♐	
evening set	-3365 Dec 08 j 05:23	1°♐10'44	
conjunction	-3365 Dec 21 j 02:57	4°♐14'26	-0°24'20
minimum elong	-3365 Dec 21 j 02:55	4°♐14'25	0°24'27
max. Earth dist.	-3365 Dec 21 j 06:34	4°♐16'35	6.05500 AU
morning rise	-3364 Jan 03 j 03:14	7°♐19'41	
retrograde	-3364 May 13 j 06:01	27°♐19'45	
opposition	-3364 Jul 12 j 19:37	22°♐19'01	-1°10'17
min. Earth dist.	-3364 Jul 12 j 07:02	22°♐23'11	4.02321 AU
direct	-3364 Sep 09 j 11:27	17°♐25'49	
	-3364 Dec 13 j 20:00	0°♑	
evening set	-3363 Jan 11 j 19:28	6°♑40'54	
conjunction	-3363 Jan 25 j 00:24	9°♑49'53	-1°04'23
minimum elong	-3363 Jan 25 j 00:20	9°♑49'51	1°04'30
max. Earth dist.	-3363 Jan 26 j 06:57	10°♑08'08	6.00694 AU
morning rise	-3363 Feb 07 j 08:30	13°♑00'36	
	-3363 May 03 j 11:55	0°♒	
retrograde	-3363 Jun 19 j 14:27	3°♒22'04	
	-3363 Aug 05 j 18:21	30°℞♑	
opposition	-3363 Aug 18 j 14:17	28°♑18'06	-1°54'22
min. Earth dist.	-3363 Aug 17 j 12:21	28°♑26'51	4.01003 AU
direct	-3363 Oct 15 j 14:35	23°♑23'13	
	-3363 Dec 20 j 10:48	0°♒	
evening set	-3362 Feb 17 j 16:56	12°♒43'38	
	-3362 Feb 27 j 08:18	15°♒	
conjunction	-3362 Mar 03 j 05:02	15°♒54'46	-1°20'23
minimum elong	-3362 Mar 03 j 05:02	15°♒54'46	1°20'27
max. Earth dist.	-3362 Mar 05 j 02:14	16°♒21'28	6.02849 AU
morning rise	-3362 Mar 16 j 20:13	19°♒07'20	
	-3362 May 05 j 12:43	0°♓	
retrograde	-3362 Jul 25 j 17:38	9°♓08'25	
min. Earth dist.	-3362 Sep 22 j 02:26	4°♓13'34	4.06509 AU
opposition	-3362 Sep 23 j 08:41	4°♓03'14	-1°54'34
	-3362 Oct 28 j 09:43	30°℞♒	
direct	-3362 Nov 20 j 13:27	29°♒05'13	
	-3362 Dec 13 j 22:14	0°♓	
evening set	-3361 Mar 26 j 17:36	18°♓12'25	
conjunction	-3361 Apr 09 j 11:15	21°♓22'13	-1°06'16
minimum elong	-3361 Apr 09 j 11:19	21°♓22'16	1°06'17
max. Earth dist.	-3361 Apr 11 j 07:24	21°♓47'42	6.11194 AU
morning rise	-3361 Apr 23 j 06:04	24°♓32'27	
	-3361 May 17 j 16:50	0°♈	
retrograde	-3361 Aug 29 j 02:10	13°♈40'44	
opposition	-3361 Oct 27 j 11:41	8°♈37'05	-1°13'45
min. Earth dist.	-3361 Oct 26 j 13:09	8°♈44'45	4.16735 AU
direct	-3361 Dec 25 j 16:20	3°♈35'58	
evening set	-3360 Apr 30 j 17:42	22°♈17'37	
conjunction	-3360 May 14 j 11:54	25°♈22'51	-0°29'31
minimum elong	-3360 May 14 j 11:56	25°♈22'52	0°29'28
max. Earth dist.	-3360 May 15 j 14:24	25°♈37'44	6.22506 AU
morning rise	-3360 May 28 j 05:14	28°♈27'25	
	-3360 Jun 04 j 04:10	0°♉	
	-3360 Aug 28 j 20:43	15°♉	
retrograde	-3360 Sep 29 j 11:27	16°♉35'28	
	-3360 Oct 30 j 21:52	15°℞♉	
opposition	-3360 Nov 28 j 00:01	11°♉35'13	-0°10'48
min. Earth dist.	-3360 Nov 27 j 14:21	11°♉38'27	4.27985 AU
direct	-3359 Jan 27 j 10:59	6°♉32'05	
asc. node	-3359 Jan 31 j 12:22	6°♉33'40	
	-3359 Apr 17 j 09:28	15°♉	
evening set	-3359 Jun 04 j 02:33	24°♉47'27	
conjunction	-3359 Jun 17 j 15:36	27°♉46'12	0°15'26
minimum elong	-3359 Jun 17 j 15:35	27°♉46'12	0°15'32
behind sun begin	-3359 Jun 17 j 14:01	27°♉45'20	
behind sun end	-3359 Jun 17 j 17:09	27°♉47'03	
max. Earth dist.	-3359 Jun 17 j 16:39	27°♉46'47	6.32868 AU
	-3359 Jun 27 j 18:35	0°♊	
morning rise	-3359 Jul 01 j 02:06	0°♊43'34	
retrograde	-3359 Oct 30 j 15:56	18°♊05'19	
opposition	-3359 Dec 29 j 10:39	13°♊09'00	0°52'33
min. Earth dist.	-3359 Dec 29 j 18:00	13°♊06'35	4.36654 AU
direct	-3358 Mar 01 j 03:49	8°♊05'21	
evening set	-3358 Jul 06 j 20:40	26°♊02'14	
max. Earth dist.	-3358 Jul 19 j 02:08	28°♊42'19	6.39128 AU
conjunction	-3358 Jul 20 j 00:58	28°♊54'48	0°54'32
minimum elong	-3358 Jul 20 j 00:55	28°♊54'47	0°54'39
	-3358 Jul 25 j 00:08	0°♋	
morning rise	-3358 Aug 02 j 02:00	1°♋45'44	
retrograde	-3358 Nov 30 j 08:18	18°♋45'17	
opposition	-3357 Jan 29 j 13:35	13°♋52'05	1°39'24
min. Earth dist.	-3357 Jan 30 j 10:52	13°♋45'11	4.40239 AU
direct	-3357 Apr 02 j 01:13	8°♋49'13	
evening set	-3357 Aug 07 j 09:49	26°♋39'16	
max. Earth dist.	-3357 Aug 18 j 15:28	29°♋07'04	6.39654 AU
conjunction	-3357 Aug 20 j 05:24	29°♋27'57	1°17'48
minimum elong	-3357 Aug 20 j 05:23	29°♋27'56	1°17'54
	-3357 Aug 22 j 15:38	0°♌	
morning rise	-3357 Sep 01 j 21:54	2°♌15'12	
	-3357 Nov 07 j 02:06	15°♌	
retrograde	-3357 Dec 31 j 12:27	19°♌19'02	
	-3356 Feb 25 j 21:38	15°℞♌	
opposition	-3356 Mar 01 j 03:59	14°♌27'26	1°58'41
min. Earth dist.	-3356 Mar 02 j 10:15	14°♌17'47	4.37798 AU
direct	-3356 May 02 j 19:57	9°♌26'34	
	-3356 Jul 05 j 21:00	15°♌	
evening set	-3356 Sep 06 j 09:45	27°♌21'45	
max. Earth dist.	-3356 Sep 17 j 03:18	29°♌45'18	6.34325 AU
conjunction	-3356 Sep 18 j 23:42	0°♍10'08	1°19'19
minimum elong	-3356 Sep 18 j 23:43	0°♍10'09	1°19'23
	-3356 Sep 18 j 05:35	0°♍	
morning rise	-3356 Oct 01 j 11:56	2°♍57'46	
retrograde	-3355 Jan 31 j 23:04	20°♍30'47	
opposition	-3355 Apr 02 j 21:59	15°♍38'55	1°44'35
min. Earth dist.	-3355 Apr 04 j 04:39	15°♍29'09	4.29916 AU
direct	-3355 Jun 04 j 01:22	10°♍40'42	
evening set	-3355 Oct 07 j 15:51	28°♍51'57	
	-3355 Oct 12 j 15:24	0°♎	
max. Earth dist.	-3355 Oct 18 j 16:54	1°♎23'11	6.24543 AU

Attention, astronomical year style is used: The year -3355 in astronomical counting style is the year 3356 BCE in historical counting style.

conjunction	-3355 Oct 20 j 05:06	1°♎43'55	0°57'39
minimum elong	-3355 Oct 20 j 05:09	1°♎43'57	0°57'38
morning rise	-3355 Nov 01 j 17:50	4°♎35'54	
retrograde	-3354 Mar 07 j 04:13	22°♎57'57	
opposition	-3354 May 07 j 05:55	18°♎04'06	0°57'48
min. Earth dist.	-3354 May 08 j 02:53	17°♎57'24	4.18803 AU
direct	-3354 Jul 07 j 06:27	13°♎08'47	
	-3354 Nov 01 j 12:46	0°♏	
evening set	-3354 Nov 09 j 00:16	1°♏43'49	
conjunction	-3354 Nov 21 j 16:45	4°♏42'01	0°17'07
minimum elong	-3354 Nov 21 j 16:46	4°♏42'01	0°17'03
max. Earth dist.	-3354 Nov 20 j 21:57	4°♏30'59	6.13133 AU
morning rise	-3354 Dec 04 j 10:45	7°♏41'10	
	-3353 Jan 05 j 23:54	15°♏	
retrograde	-3353 Apr 12 j 06:19	27°♏01'19	
desc. node	-3353 Apr 13 j 01:36	27°♏01'16	
opposition	-3353 Jun 12 j 03:48	22°♏04'01	-0°10'56
min. Earth dist.	-3353 Jun 12 j 07:18	22°♏02'52	4.07928 AU
direct	-3353 Aug 10 j 19:37	17°♏10'38	
	-3353 Nov 16 j 05:04	0°♐	
evening set	-3353 Dec 13 j 02:04	6°♐11'22	
conjunction	-3353 Dec 26 j 00:53	9°♐16'20	-0°30'45
minimum elong	-3353 Dec 26 j 00:51	9°♐16'18	0°30'52
max. Earth dist.	-3353 Dec 26 j 09:42	9°♐21'35	6.03827 AU
morning rise	-3352 Jan 08 j 02:19	12°♐22'52	
	-3352 Apr 08 j 00:31	0°♑	
retrograde	-3352 May 18 j 14:47	2°♑30'40	
	-3352 Jun 28 j 05:08	30°℞♐	
min. Earth dist.	-3352 Jul 17 j 09:53	27°♐34'25	4.01165 AU
opposition	-3352 Jul 18 j 00:52	27°♐29'27	-1°18'34
direct	-3352 Sep 14 j 12:41	22°♐36'12	
	-3352 Nov 23 j 15:15	0°♑	
evening set	-3351 Jan 16 j 23:58	11°♑55'06	
conjunction	-3351 Jan 30 j 05:52	15°♑04'47	-1°08'20
minimum elong	-3351 Jan 30 j 05:49	15°♑04'46	1°08'28
max. Earth dist.	-3351 Jan 31 j 14:59	15°♑24'35	6.00131 AU
morning rise	-3351 Feb 12 j 15:18	18°♑16'17	
	-3351 Apr 07 j 00:03	0°♒	
retrograde	-3351 Jun 24 j 19:42	8°♒38'57	
opposition	-3351 Aug 23 j 18:58	3°♒34'34	-1°57'11
min. Earth dist.	-3351 Aug 22 j 14:24	3°♒44'15	4.01115 AU
	-3351 Sep 22 j 12:27	30°℞♑	
direct	-3351 Oct 20 j 17:36	28°♑39'18	
	-3351 Nov 18 j 00:40	0°♒	
	-3350 Feb 10 j 03:18	15°♒	
evening set	-3350 Feb 23 j 00:43	17°♒59'38	
conjunction	-3350 Mar 08 j 13:56	21°♒10'53	-1°20'06
minimum elong	-3350 Mar 08 j 13:57	21°♒10'53	1°20'11
max. Earth dist.	-3350 Mar 10 j 13:44	21°♒39'02	6.03605 AU
morning rise	-3350 Mar 22 j 05:45	24°♒23'21	
	-3350 Apr 15 j 20:22	0°♓	
retrograde	-3350 Jul 30 j 19:33	14°♓18'27	
min. Earth dist.	-3350 Sep 27 j 03:16	9°♓23'18	4.07783 AU
opposition	-3350 Sep 28 j 08:41	9°♓13'15	-1°50'50
direct	-3350 Nov 25 j 16:52	4°♓14'43	
evening set	-3349 Mar 31 j 23:09	23°♓18'16	
conjunction	-3349 Apr 14 j 17:10	26°♓27'32	-1°02'04
minimum elong	-3349 Apr 14 j 17:14	26°♓27'34	1°02'04
max. Earth dist.	-3349 Apr 16 j 12:28	26°♓52'23	6.12839 AU
morning rise	-3349 Apr 28 j 12:10	29°♓37'03	
	-3349 Apr 30 j 04:31	0°♈	
retrograde	-3349 Sep 02 j 18:40	18°♈35'53	
min. Earth dist.	-3349 Oct 31 j 07:07	13°♈40'04	4.18548 AU
opposition	-3349 Nov 01 j 05:08	13°♈32'35	-1°05'33
direct	-3349 Dec 30 j 13:11	8°♈31'04	
evening set	-3348 May 05 j 17:21	27°♈07'56	
	-3348 May 18 j 13:17	0°♉	
conjunction	-3348 May 19 j 11:02	0°♉12'10	-0°23'15
minimum elong	-3348 May 19 j 11:04	0°♉12'11	0°23'12
max. Earth dist.	-3348 May 20 j 09:31	0°♉24'46	6.24331 AU
morning rise	-3348 Jun 02 j 03:40	3°♉15'39	
	-3348 Jul 30 j 02:58	15°♉	
retrograde	-3348 Oct 03 j 23:49	21°♉15'14	
opposition	-3348 Dec 02 j 12:15	16°♉15'32	-0°01'22
min. Earth dist.	-3348 Dec 02 j 05:47	16°♉17'42	4.29643 AU
asc. node	-3348 Dec 10 j 16:36	15°♉10'18	
	-3348 Dec 12 j 00:19	15°℞♉	
direct	-3347 Feb 01 j 04:52	11°♉12'13	
	-3347 Mar 24 j 12:02	15°♉	
evening set	-3347 Jun 08 j 19:43	29°♉23'36	
	-3347 Jun 11 j 14:18	0°♊	
conjunction	-3347 Jun 22 j 07:44	2°♊21'21	0°21'35
minimum elong	-3347 Jun 22 j 07:42	2°♊21'20	0°21'41
max. Earth dist.	-3347 Jun 22 j 05:31	2°♊20'09	6.34224 AU
morning rise	-3347 Jul 05 j 16:53	5°♊17'37	
retrograde	-3347 Nov 03 j 22:54	22°♊34'07	
opposition	-3346 Jan 02 j 19:47	17°♊38'17	1°00'28
min. Earth dist.	-3346 Jan 03 j 04:45	17°♊35'20	4.37640 AU
direct	-3346 Mar 05 j 15:16	12°♊34'38	
	-3346 Jul 09 j 02:15	0°♋	
evening set	-3346 Jul 11 j 08:38	0°♋29'27	
max. Earth dist.	-3346 Jul 23 j 09:52	3°♋07'10	6.39662 AU
conjunction	-3346 Jul 24 j 11:36	3°♋21'15	0°58'57
minimum elong	-3346 Jul 24 j 11:32	3°♋21'13	0°59'04
morning rise	-3346 Aug 06 j 11:17	6°♋11'25	
retrograde	-3346 Dec 04 j 17:13	23°♋09'43	
opposition	-3345 Feb 02 j 23:06	18°♋16'52	1°43'57
min. Earth dist.	-3345 Feb 03 j 22:51	18°♋09'13	4.40304 AU
direct	-3345 Apr 06 j 12:55	13°♋14'14	
	-3345 Aug 06 j 20:45	0°♌	
evening set	-3345 Aug 11 j 18:40	1°♌04'11	
max. Earth dist.	-3345 Aug 22 j 20:32	3°♌30'10	6.39218 AU
conjunction	-3345 Aug 24 j 13:14	3°♌52'36	1°19'23
minimum elong	-3345 Aug 24 j 13:12	3°♌52'35	1°19'29
morning rise	-3345 Sep 06 j 04:57	6°♌39'41	
	-3345 Oct 16 j 08:27	15°♌	
retrograde	-3344 Jan 04 j 23:52	23°♌46'19	
opposition	-3344 Mar 05 j 16:32	18°♌54'45	1°58'46
min. Earth dist.	-3344 Mar 06 j 23:24	18°♌44'54	4.36909 AU
	-3344 Apr 10 j 01:50	15°℞♌	
direct	-3344 May 07 j 07:03	13°♌54'10	
	-3344 Jun 03 j 14:52	15°♌	
	-3344 Sep 02 j 08:56	0°♍	
evening set	-3344 Sep 10 j 18:35	1°♍51'20	
max. Earth dist.	-3344 Sep 21 j 13:20	4°♍15'58	6.33057 AU
conjunction	-3344 Sep 23 j 08:18	4°♍40'05	1°17'37
minimum elong	-3344 Sep 23 j 08:19	4°♍40'06	1°17'40
morning rise	-3344 Oct 05 j 20:09	7°♍28'07	
retrograde	-3343 Feb 05 j 16:12	25°♍07'20	
opposition	-3343 Apr 07 j 15:39	20°♍15'19	1°39'49
min. Earth dist.	-3343 Apr 08 j 21:49	20°♍05'44	4.28347 AU
direct	-3343 Jun 08 j 16:00	15°♍17'33	
	-3343 Sep 26 j 09:33	0°♎	
evening set	-3343 Oct 12 j 03:52	3°♎32'20	

Attention, astronomical year style is used: The year -3343 in astronomical counting style is the year 3344 BCE in historical counting style.

max. Earth dist.	-3343 Oct 23 j 05:37	6°♎04'38	6.22814 AU
conjunction	-3343 Oct 24 j 17:14	6°♎25'07	0°52'51
minimum elong	-3343 Oct 24 j 17:17	6°♎25'09	0°52'50
morning rise	-3343 Nov 06 j 06:40	9°♎18'05	
retrograde	-3342 Mar 12 j 04:28	27°♎48'37	
opposition	-3342 May 12 j 05:56	22°♎54'21	0°48'58
min. Earth dist.	-3342 May 13 j 00:34	22°♎48'22	4.17036 AU
direct	-3342 Jul 12 j 01:54	17°♎59'22	
	-3342 Oct 15 j 07:19	0°♏	
evening set	-3342 Nov 13 j 17:39	6°♏38'34	
conjunction	-3342 Nov 26 j 11:05	9°♏37'49	0°10'24
minimum elong	-3342 Nov 26 j 11:05	9°♏37'50	0°10'20
behind sun begin	-3342 Nov 26 j 04:41	9°♏34'05	
behind sun end	-3342 Nov 26 j 17:29	9°♏41'35	
max. Earth dist.	-3342 Nov 25 j 21:15	9°♏29'41	6.11526 AU
morning rise	-3342 Dec 09 j 05:55	12°♏38'06	
	-3342 Dec 19 j 10:36	15°♏	
desc. node	-3341 Feb 20 j 07:33	27°♏30'27	
	-3341 Mar 11 j 07:11	0°♐	
retrograde	-3341 Apr 17 j 13:05	2°♐06'17	
	-3341 May 24 j 22:05	30°℞♏	
opposition	-3341 Jun 17 j 08:46	27°♏08'29	-0°21'16
min. Earth dist.	-3341 Jun 17 j 09:42	27°♏08'11	4.06651 AU
direct	-3341 Aug 15 j 20:21	22°♏15'19	
	-3341 Oct 27 j 12:19	0°♐	
evening set	-3341 Dec 18 j 02:17	11°♐19'08	
conjunction	-3341 Dec 31 j 01:53	14°♐24'51	-0°37'08
minimum elong	-3341 Dec 31 j 01:50	14°♐24'49	0°37'14
max. Earth dist.	-3341 Dec 31 j 13:41	14°♐31'53	6.02996 AU
morning rise	-3340 Jan 13 j 04:33	17°♐32'15	
	-3340 Mar 10 j 13:22	0°♑	
retrograde	-3340 May 23 j 20:54	7°♑43'55	
opposition	-3340 Jul 23 j 06:36	2°♑42'08	-1°26'20
min. Earth dist.	-3340 Jul 22 j 12:11	2°♑48'16	4.00901 AU
	-3340 Aug 13 j 19:38	30°℞♐	
direct	-3340 Sep 19 j 15:04	27°♐48'42	
	-3340 Oct 26 j 02:09	0°♑	
evening set	-3339 Jan 22 j 04:40	17°♑08'07	
conjunction	-3339 Feb 04 j 11:42	20°♑18'07	-1°11'47
minimum elong	-3339 Feb 04 j 11:39	20°♑18'05	1°11'53
max. Earth dist.	-3339 Feb 06 j 01:06	20°♑40'26	6.00446 AU
morning rise	-3339 Feb 17 j 21:55	23°♑29'48	
	-3339 Mar 18 j 04:55	0°♒	
retrograde	-3339 Jun 30 j 00:01	13°♒49'51	
opposition	-3339 Aug 28 j 21:19	8°♒45'10	-1°59'00
min. Earth dist.	-3339 Aug 27 j 16:41	8°♒54'53	4.01980 AU
direct	-3339 Oct 25 j 21:22	3°♒49'28	
	-3338 Jan 23 j 02:10	15°♒	
evening set	-3338 Feb 28 j 05:42	23°♒07'10	
conjunction	-3338 Mar 13 j 19:40	26°♒18'10	-1°19'14
minimum elong	-3338 Mar 13 j 19:42	26°♒18'11	1°19'18
max. Earth dist.	-3338 Mar 15 j 20:02	26°♒46'32	6.04912 AU
morning rise	-3338 Mar 27 j 12:12	29°♒30'18	
	-3338 Mar 29 j 15:20	0°♓	
retrograde	-3338 Aug 04 j 15:16	19°♓17'29	
min. Earth dist.	-3338 Oct 01 j 22:53	14°♓22'31	4.09389 AU
opposition	-3338 Oct 03 j 04:28	14°♓12'25	-1°46'24
direct	-3338 Nov 30 j 14:45	9°♓13'27	
evening set	-3337 Apr 06 j 00:27	28°♓12'39	
	-3337 Apr 13 j 20:39	0°♈	
conjunction	-3337 Apr 19 j 18:38	1°♈21'14	-0°57'34
minimum elong	-3337 Apr 19 j 18:42	1°♈21'16	0°57'33
max. Earth dist.	-3337 Apr 21 j 10:13	1°♈43'53	6.14602 AU
morning rise	-3337 May 03 j 13:38	4°♈29'57	
retrograde	-3337 Sep 07 j 08:31	23°♈19'40	
opposition	-3337 Nov 05 j 18:32	18°♈16'47	-0°57'13
min. Earth dist.	-3337 Nov 04 j 23:28	18°♈23'16	4.20272 AU
direct	-3336 Jan 04 j 07:55	13°♈14'56	
	-3336 May 02 j 09:31	0°♉	
evening set	-3336 May 10 j 12:56	1°♉47'45	
conjunction	-3336 May 24 j 06:17	4°♉51'09	-0°17'04
minimum elong	-3336 May 24 j 06:18	4°♉51'10	0°16'59
max. Earth dist.	-3336 May 25 j 01:58	5°♉02'08	6.25894 AU
morning rise	-3336 Jun 06 j 22:01	7°♉53'38	
	-3336 Jul 10 j 05:59	15°♉	
retrograde	-3336 Oct 08 j 07:21	25°♉46'09	
asc. node	-3336 Oct 21 j 05:52	25°♉29'35	
opposition	-3336 Dec 06 j 21:12	20°♉47'03	0°07'46
min. Earth dist.	-3336 Dec 06 j 16:24	20°♉48'39	4.30927 AU
direct	-3335 Feb 05 j 16:25	15°♉43'39	
	-3335 May 26 j 08:24	0°♊	
evening set	-3335 Jun 13 j 10:04	3°♊52'37	
conjunction	-3335 Jun 26 j 20:51	6°♊49'32	0°27'28
minimum elong	-3335 Jun 26 j 20:49	6°♊49'31	0°27'34
max. Earth dist.	-3335 Jun 26 j 13:31	6°♊45'30	6.35130 AU
morning rise	-3335 Jul 10 j 04:55	9°♊44'57	
retrograde	-3335 Nov 08 j 07:14	26°♊58'10	
opposition	-3334 Jan 07 j 03:47	22°♊02'53	1°07'53
min. Earth dist.	-3334 Jan 07 j 16:06	21°♊58'50	4.38125 AU
direct	-3334 Mar 10 j 03:06	16°♊59'19	
	-3334 Jun 22 j 17:09	0°♋	
evening set	-3334 Jul 15 j 19:09	4°♋53'42	
conjunction	-3334 Jul 28 j 21:00	7°♋45'01	1°02'57
minimum elong	-3334 Jul 28 j 20:57	7°♋44'59	1°03'04
max. Earth dist.	-3334 Jul 27 j 16:52	7°♋29'37	6.39677 AU
morning rise	-3334 Aug 10 j 19:25	10°♋34'41	
retrograde	-3334 Dec 09 j 00:47	27°♋33'38	
opposition	-3333 Feb 07 j 08:39	22°♋41'05	1°47'54
min. Earth dist.	-3333 Feb 08 j 09:04	22°♋33'13	4.39894 AU
direct	-3333 Apr 10 j 21:55	17°♋38'43	
	-3333 Jul 21 j 07:20	0°♌	
evening set	-3333 Aug 16 j 03:54	5°♌30'08	
max. Earth dist.	-3333 Aug 27 j 04:26	7°♌55'46	6.38412 AU
conjunction	-3333 Aug 28 j 21:32	8°♌18'29	1°20'30
minimum elong	-3333 Aug 28 j 21:30	8°♌18'28	1°20'36
morning rise	-3333 Sep 10 j 12:26	11°♌05'35	
	-3333 Sep 28 j 14:17	15°♌	
retrograde	-3332 Jan 09 j 13:32	28°♌16'15	
opposition	-3332 Mar 10 j 06:22	23°♌24'48	1°58'07
min. Earth dist.	-3332 Mar 11 j 14:07	23°♌14'41	4.35769 AU
direct	-3332 May 11 j 20:22	18°♌24'39	
	-3332 Aug 16 j 10:24	0°♍	
evening set	-3332 Sep 15 j 04:31	6°♍24'25	
max. Earth dist.	-3332 Sep 25 j 22:36	8°♍49'14	6.31669 AU
conjunction	-3332 Sep 27 j 17:53	9°♍13'36	1°15'24
minimum elong	-3332 Sep 27 j 17:55	9°♍13'37	1°15'26
morning rise	-3332 Oct 10 j 05:48	12°♍02'13	
retrograde	-3331 Feb 10 j 10:33	29°♍48'06	
opposition	-3331 Apr 12 j 11:08	24°♍55'49	1°34'19
min. Earth dist.	-3331 Apr 13 j 15:19	24°♍46'51	4.26807 AU
direct	-3331 Jun 13 j 07:35	19°♍58'29	
	-3331 Sep 08 j 14:42	0°♎	
evening set	-3331 Oct 16 j 16:46	8°♎16'25	

Attention, astronomical year style is used: The year -3331 in astronomical counting style is the year 3332 BCE in historical counting style.

max. Earth dist.	-3331 Oct 27 j 23:07	10°♎51'50	6.21270 AU
conjunction	-3331 Oct 29 j 06:36	11°♎10'00	0°47'39
minimum elong	-3331 Oct 29 j 06:38	11°♎10'01	0°47'38
morning rise	-3331 Nov 10 j 20:24	14°♎03'50	
	-3330 Feb 02 j 16:02	0°♏	
retrograde	-3330 Mar 17 j 05:47	2°♏42'02	
	-3330 Apr 29 j 09:07	30°℞♎	
opposition	-3330 May 17 j 06:48	27°♎47'21	0°39'41
min. Earth dist.	-3330 May 17 j 23:32	27°♎41'59	4.15590 AU
direct	-3330 Jul 16 j 23:21	22°♎52'45	
	-3330 Sep 25 j 11:03	0°♏	
evening set	-3330 Nov 18 j 11:39	11°♏34'50	
conjunction	-3330 Dec 01 j 05:40	14°♏34'55	0°03'37
minimum elong	-3330 Dec 01 j 05:39	14°♏34'55	0°03'32
behind sun begin	-3330 Nov 30 j 21:40	14°♏30'13	
behind sun end	-3330 Dec 01 j 13:38	14°♏39'36	
max. Earth dist.	-3330 Nov 30 j 18:12	14°♏28'10	6.10296 AU
	-3330 Dec 03 j 00:12	15°♏	
morning rise	-3330 Dec 14 j 01:36	17°♏36'10	
desc. node	-3330 Dec 30 j 14:35	21°♏25'28	
	-3329 Feb 10 j 01:25	0°♐	
retrograde	-3329 Apr 22 j 17:01	7°♐10'46	
opposition	-3329 Jun 22 j 12:39	2°♐12'22	-0°31'25
min. Earth dist.	-3329 Jun 22 j 09:53	2°♐13'16	4.05748 AU
	-3329 Jul 10 j 01:22	30°℞♏	
direct	-3329 Aug 20 j 19:32	27°♏19'15	
	-3329 Sep 30 j 18:57	0°♐	
evening set	-3329 Dec 23 j 01:30	16°♐25'01	
conjunction	-3328 Jan 05 j 02:09	19°♐31'22	-0°43'11
minimum elong	-3328 Jan 05 j 02:06	19°♐31'20	0°43'18
max. Earth dist.	-3328 Jan 05 j 18:53	19°♐41'22	6.02489 AU
morning rise	-3328 Jan 18 j 05:43	22°♐39'24	
	-3328 Feb 19 j 07:39	0°♑	
retrograde	-3328 May 29 j 03:02	12°♑53'42	
opposition	-3328 Jul 28 j 10:30	7°♑51'23	-1°33'21
min. Earth dist.	-3328 Jul 27 j 15:05	7°♑57'52	4.00855 AU
direct	-3328 Sep 24 j 17:41	2°♑57'44	
evening set	-3327 Jan 27 j 07:41	22°♑17'08	
conjunction	-3327 Feb 09 j 15:36	25°♑27'21	-1°14'38
minimum elong	-3327 Feb 09 j 15:34	25°♑27'19	1°14'44
max. Earth dist.	-3327 Feb 11 j 07:05	25°♑50'51	6.00838 AU
morning rise	-3327 Feb 23 j 02:52	28°♑39'15	
	-3327 Feb 28 j 20:11	0°♒	
	-3327 May 14 j 23:35	15°♒	
retrograde	-3327 Jul 05 j 00:53	18°♒56'19	
	-3327 Aug 25 j 09:48	15°℞♒	
opposition	-3327 Sep 02 j 21:15	13°♒51'27	-1°59'56
min. Earth dist.	-3327 Sep 01 j 15:21	14°♒01'37	4.02801 AU
direct	-3327 Oct 30 j 20:56	8°♒55'19	
	-3326 Jan 01 j 22:49	15°♒	
evening set	-3326 Mar 05 j 09:12	28°♒10'54	
	-3326 Mar 13 j 04:15	0°♓	
conjunction	-3326 Mar 18 j 23:54	1°♓21'42	-1°17'49
minimum elong	-3326 Mar 18 j 23:56	1°♓21'43	1°17'52
max. Earth dist.	-3326 Mar 20 j 22:53	1°♓49'10	6.06073 AU
morning rise	-3326 Apr 01 j 17:02	4°♓33'32	
retrograde	-3326 Aug 09 j 10:34	24°♓13'36	
opposition	-3326 Oct 07 j 22:45	19°♓08'39	-1°41'19
min. Earth dist.	-3326 Oct 06 j 18:57	19°♓18'09	4.10753 AU
direct	-3326 Dec 05 j 12:50	14°♓09'10	
	-3325 Mar 28 j 06:56	0°♈	
evening set	-3325 Apr 11 j 00:46	3°♈05'03	
conjunction	-3325 Apr 24 j 19:20	6°♈13'07	-0°52'43
minimum elong	-3325 Apr 24 j 19:24	6°♈13'09	0°52'43
max. Earth dist.	-3325 Apr 26 j 09:45	6°♈35'01	6.16077 AU
morning rise	-3325 May 08 j 14:08	9°♈21'08	
retrograde	-3325 Sep 11 j 21:20	28°♈02'46	
opposition	-3325 Nov 10 j 07:37	23°♈00'21	-0°48'35
min. Earth dist.	-3325 Nov 09 j 14:01	23°♈06'19	4.21707 AU
direct	-3324 Jan 08 j 23:59	17°♈58'13	
	-3324 Apr 15 j 05:12	0°♉	
evening set	-3324 May 15 j 08:33	6°♉27'52	
conjunction	-3324 May 29 j 01:09	9°♉30'28	-0°10'46
minimum elong	-3324 May 29 j 01:10	9°♉30'28	0°10'42
behind sun begin	-3324 May 28 j 18:51	9°♉26'59	
behind sun end	-3324 May 29 j 07:28	9°♉33'58	
max. Earth dist.	-3324 May 29 j 15:38	9°♉38'31	6.27177 AU
morning rise	-3324 Jun 11 j 16:16	12°♉32'05	
	-3324 Jun 22 j 22:23	15°♉	
asc. node	-3324 Aug 31 j 07:22	27°♉32'17	
	-3324 Sep 28 j 22:39	0°♊	
retrograde	-3324 Oct 12 j 17:09	0°♊18'36	
	-3324 Oct 26 j 09:21	30°℞♉	
opposition	-3324 Dec 11 j 07:10	25°♉20'00	0°16'54
min. Earth dist.	-3324 Dec 11 j 05:30	25°♉20'33	4.31958 AU
direct	-3323 Feb 10 j 07:19	20°♉16'28	
	-3323 May 08 j 12:10	0°♊	
evening set	-3323 Jun 18 j 00:57	8°♊23'33	
conjunction	-3323 Jul 01 j 10:46	11°♊19'44	0°33'14
minimum elong	-3323 Jul 01 j 10:44	11°♊19'43	0°33'21
max. Earth dist.	-3323 Jul 01 j 01:29	11°♊14'38	6.35835 AU
morning rise	-3323 Jul 14 j 17:24	14°♊14'19	
	-3323 Oct 13 j 14:16	0°♋	
retrograde	-3323 Nov 12 j 14:03	1°♋24'47	
	-3323 Dec 12 j 13:45	30°℞♊	
opposition	-3322 Jan 11 j 12:53	26°♊29'58	1°15'01
min. Earth dist.	-3322 Jan 12 j 02:19	26°♊25'34	4.38486 AU
direct	-3322 Mar 14 j 13:49	21°♊26'32	
	-3322 Jun 04 j 09:35	0°♋	
evening set	-3322 Jul 20 j 06:49	9°♋20'36	
max. Earth dist.	-3322 Aug 01 j 00:11	11°♋54'20	6.39661 AU
conjunction	-3322 Aug 02 j 07:16	12°♋11'23	1°06'40
minimum elong	-3322 Aug 02 j 07:13	12°♋11'21	1°06'46
morning rise	-3322 Aug 15 j 04:37	15°♋00'35	
	-3322 Nov 07 j 06:45	0°♌	
retrograde	-3322 Dec 13 j 11:49	2°♌00'14	
	-3321 Jan 18 j 21:29	30°℞♋	
opposition	-3321 Feb 11 j 19:59	27°♋07'59	1°51'18
min. Earth dist.	-3321 Feb 12 j 22:25	26°♋59'29	4.39533 AU
direct	-3321 Apr 15 j 11:17	22°♋05'55	
	-3321 Jul 02 j 14:39	0°♌	
evening set	-3321 Aug 20 j 13:36	9°♌58'08	
max. Earth dist.	-3321 Aug 31 j 13:09	12°♌23'32	6.37736 AU
conjunction	-3321 Sep 02 j 06:29	12°♌46'25	1°21'12
minimum elong	-3321 Sep 02 j 06:28	12°♌46'25	1°21'17
	-3321 Sep 12 j 07:53	15°♌	
morning rise	-3321 Sep 14 j 20:38	15°♌33'29	
	-3321 Dec 01 j 20:03	0°♍	
retrograde	-3320 Jan 14 j 02:03	2°♍47'47	
	-3320 Feb 27 j 03:10	30°℞♌	
opposition	-3320 Mar 14 j 21:22	27°♌56'18	1°56'48
min. Earth dist.	-3320 Mar 16 j 03:48	27°♌46'37	4.34848 AU
direct	-3320 May 16 j 09:01	22°♌56'35	
	-3320 Jul 28 j 01:49	0°♍	
evening set	-3320 Sep 19 j 14:41	10°♍57'54	

Attention, astronomical year style is used: The year -3320 in astronomical counting style is the year 3321 BCE in historical counting style.

max. Earth dist.	-3320 Sep 30 j 10:42	13°♍24'12	6.30595 AU
conjunction	-3320 Oct 02 j 03:46	13°♍47'23	1°12'46
minimum elong	-3320 Oct 02 j 03:49	13°♍47'25	1°12'47
morning rise	-3320 Oct 14 j 15:34	16°♍36'25	
	-3320 Dec 21 j 15:23	0°♎	
retrograde	-3319 Feb 15 j 05:49	4°♎27'51	
	-3319 Apr 14 j 01:08	30°℞♍	
opposition	-3319 Apr 17 j 06:41	29°♍35'22	1°28'15
min. Earth dist.	-3319 Apr 18 j 10:12	29°♍26'37	4.25628 AU
direct	-3319 Jun 18 j 01:16	24°♍38'28	
	-3319 Aug 18 j 11:25	0°♎	
evening set	-3319 Oct 21 j 05:13	12°♎58'13	
conjunction	-3319 Nov 02 j 19:18	15°♎52'26	0°42'13
minimum elong	-3319 Nov 02 j 19:21	15°♎52'27	0°42'11
max. Earth dist.	-3319 Nov 01 j 13:22	15°♎35'07	6.20097 AU
morning rise	-3319 Nov 15 j 09:49	18°♎47'04	
	-3318 Jan 07 j 08:08	0°♏	
retrograde	-3318 Mar 22 j 04:03	7°♏31'37	
opposition	-3318 May 22 j 06:13	2°♏36'28	0°30'16
min. Earth dist.	-3318 May 22 j 19:31	2°♏32'11	4.14499 AU
	-3318 Jun 12 j 15:51	30°℞♎	
direct	-3318 Jul 21 j 17:47	27°♎42'09	
	-3318 Aug 29 j 05:16	0°♏	
desc. node	-3318 Nov 09 j 22:50	13°♏22'16	
	-3318 Nov 17 j 00:25	15°♏	
evening set	-3318 Nov 23 j 03:58	16°♏26'05	
conjunction	-3318 Dec 05 j 22:45	19°♏26'52	-0°03'12
minimum elong	-3318 Dec 05 j 22:46	19°♏26'52	0°03'18
behind sun begin	-3318 Dec 05 j 14:45	19°♏22'09	
behind sun end	-3318 Dec 06 j 06:46	19°♏31'35	
max. Earth dist.	-3318 Dec 05 j 15:50	19°♏22'48	6.09392 AU
morning rise	-3318 Dec 18 j 19:29	22°♏28'54	
	-3317 Jan 21 j 02:00	0°♐	
retrograde	-3317 Apr 27 j 20:37	12°♐08'52	
opposition	-3317 Jun 27 j 14:16	7°♐09'56	-0°41'07
min. Earth dist.	-3317 Jun 27 j 10:06	7°♐11'18	4.05102 AU
direct	-3317 Aug 25 j 18:22	2°♐16'53	
evening set	-3317 Dec 27 j 22:35	21°♐23'58	
conjunction	-3316 Jan 10 j 00:04	24°♐30'51	-0°48'46
minimum elong	-3316 Jan 10 j 00:01	24°♐30'49	0°48'53
max. Earth dist.	-3316 Jan 10 j 19:14	24°♐42'17	6.02144 AU
morning rise	-3316 Jan 23 j 04:44	27°♐39'28	
	-3316 Feb 02 j 03:39	0°♑	
retrograde	-3316 Jun 03 j 04:02	17°♑55'37	
opposition	-3316 Aug 02 j 10:52	12°♑52'56	-1°39'28
min. Earth dist.	-3316 Aug 01 j 13:15	13°♑00'10	4.00882 AU
direct	-3316 Sep 29 j 15:16	7°♑59'04	
evening set	-3315 Feb 01 j 08:19	27°♑18'42	
	-3315 Feb 12 j 16:09	0°♒	
conjunction	-3315 Feb 14 j 17:10	0°♒29'09	-1°16'52
minimum elong	-3315 Feb 14 j 17:08	0°♒29'08	1°16'58
max. Earth dist.	-3315 Feb 16 j 09:18	0°♒53'01	6.01211 AU
morning rise	-3315 Feb 28 j 05:20	3°♒41'15	
	-3315 Apr 20 j 18:00	15°♒	
retrograde	-3315 Jul 09 j 23:30	23°♒55'40	
opposition	-3315 Sep 07 j 18:09	18°♒50'40	-2°00'00
min. Earth dist.	-3315 Sep 06 j 12:45	19°♒00'41	4.03481 AU
	-3315 Oct 10 j 08:30	15°℞♒	
direct	-3315 Nov 04 j 19:28	13°♒54'06	
	-3315 Nov 30 j 07:50	15°♒	
	-3314 Feb 24 j 18:11	0°♓	
evening set	-3314 Mar 10 j 10:14	3°♓08'27	
conjunction	-3314 Mar 24 j 01:53	6°♓19'14	-1°15'53
minimum elong	-3314 Mar 24 j 01:55	6°♓19'15	1°15'55
max. Earth dist.	-3314 Mar 26 j 01:29	6°♓46'59	6.07015 AU
morning rise	-3314 Apr 06 j 19:29	9°♓30'52	
retrograde	-3314 Aug 14 j 04:13	29°♓04'50	
opposition	-3314 Oct 12 j 15:04	24°♓00'12	-1°35'41
min. Earth dist.	-3314 Oct 11 j 12:17	24°♓09'20	4.11859 AU
direct	-3314 Dec 10 j 07:03	19°♓00'22	
	-3313 Mar 10 j 15:10	0°♈	
evening set	-3313 Apr 15 j 23:44	7°♈54'06	
conjunction	-3313 Apr 29 j 18:19	11°♈01'43	-0°47'35
minimum elong	-3313 Apr 29 j 18:23	11°♈01'45	0°47'34
max. Earth dist.	-3313 May 01 j 04:40	11°♈21'14	6.17265 AU
morning rise	-3313 May 13 j 13:11	14°♈09'12	
	-3313 Aug 05 j 11:36	0°♉	
retrograde	-3313 Sep 16 j 09:12	2°♉44'04	
	-3313 Oct 28 j 03:52	30°℞♈	
opposition	-3313 Nov 14 j 19:48	27°♈42'08	-0°39'47
min. Earth dist.	-3313 Nov 14 j 04:16	27°♈47'23	4.22870 AU
direct	-3312 Jan 13 j 16:17	22°♈39'43	
	-3312 Mar 26 j 15:46	0°♉	
evening set	-3312 May 20 j 03:30	11°♉07'13	
conjunction	-3312 Jun 02 j 19:38	14°♉09'08	-0°04'28
minimum elong	-3312 Jun 02 j 19:39	14°♉09'09	0°04'24
behind sun begin	-3312 Jun 02 j 11:30	14°♉04'39	
behind sun end	-3312 Jun 03 j 03:47	14°♉13'39	
max. Earth dist.	-3312 Jun 03 j 08:18	14°♉16'10	6.28260 AU
	-3312 Jun 06 j 15:08	15°♉	
morning rise	-3312 Jun 16 j 09:42	17°♉09'55	
asc. node	-3312 Jul 11 j 11:50	22°♉33'39	
	-3312 Aug 20 j 18:39	0°♊	
retrograde	-3312 Oct 17 j 01:52	4°♊51'08	
	-3312 Dec 14 j 20:05	30°℞♉	
opposition	-3312 Dec 15 j 16:51	29°♉53'06	0°25'52
min. Earth dist.	-3312 Dec 15 j 16:45	29°♉53'08	4.32882 AU
direct	-3311 Feb 14 j 20:29	24°♉49'33	
	-3311 Apr 16 j 24:00	0°♊	
evening set	-3311 Jun 22 j 15:36	12°♊54'54	
max. Earth dist.	-3311 Jul 05 j 10:40	15°♊42'57	6.36519 AU
conjunction	-3311 Jul 06 j 00:05	15°♊50'18	0°38'47
minimum elong	-3311 Jul 06 j 00:02	15°♊50'16	0°38'55
morning rise	-3311 Jul 19 j 05:36	18°♊44'07	
	-3311 Sep 14 j 00:20	0°♋	
retrograde	-3311 Nov 16 j 22:36	5°♋51'55	
opposition	-3310 Jan 15 j 22:20	0°♋57'27	1°21'42
min. Earth dist.	-3310 Jan 16 j 14:02	0°♋52'20	4.38902 AU
	-3310 Jan 23 j 07:37	30°℞♊	
direct	-3310 Mar 19 j 02:54	25°♊54'06	
	-3310 May 12 j 12:55	0°♋	
evening set	-3310 Jul 24 j 17:29	13°♋47'13	
max. Earth dist.	-3310 Aug 05 j 09:25	16°♋20'12	6.39754 AU
conjunction	-3310 Aug 06 j 16:53	16°♋37'27	1°09'58
minimum elong	-3310 Aug 06 j 16:50	16°♋37'26	1°10'05
morning rise	-3310 Aug 19 j 12:51	19°♋26'06	
	-3310 Oct 11 j 06:11	0°♌	
retrograde	-3310 Dec 17 j 19:29	6°♌26'02	
opposition	-3309 Feb 16 j 06:38	1°♌33'54	1°54'02
min. Earth dist.	-3309 Feb 17 j 09:04	1°♌25'26	4.39300 AU
	-3309 Feb 28 j 16:33	30°℞♋	
direct	-3309 Apr 19 j 22:03	26°♋32'06	
	-3309 Jun 08 j 17:49	0°♌	
evening set	-3309 Aug 24 j 22:19	14°♌24'28	
	-3309 Aug 27 j 14:51	15°♌	

Attention, astronomical year style is used: The year -3309 in astronomical counting style is the year 3310 BCE in historical counting style.

max. Earth dist.	-3309 Sep 04 j 19:42	16°♌48'59	6.37158 AU
conjunction	-3309 Sep 06 j 14:14	17°♌12'35	1°21'25
minimum elong	-3309 Sep 06 j 14:14	17°♌12'35	1°21'30
morning rise	-3309 Sep 19 j 03:50	19°♌59'37	
	-3309 Nov 07 j 00:01	0°♍	
retrograde	-3308 Jan 18 j 15:36	7°♍17'14	
opposition	-3308 Mar 19 j 11:24	2°♍25'40	1°54'48
min. Earth dist.	-3308 Mar 20 j 18:52	2°♍15'40	4.33931 AU
	-3308 Apr 08 j 10:02	30°℞♌	
direct	-3308 May 20 j 22:58	27°♌26'14	
	-3308 Jul 02 j 01:09	0°♍	
evening set	-3308 Sep 23 j 23:23	15°♍29'03	
max. Earth dist.	-3308 Oct 04 j 19:55	17°♍56'03	6.29396 AU
conjunction	-3308 Oct 06 j 12:25	18°♍18'58	1°09'42
minimum elong	-3308 Oct 06 j 12:28	18°♍19'00	1°09'44
morning rise	-3308 Oct 19 j 00:18	21°♍08'32	
	-3308 Nov 29 j 14:48	0°♎	
retrograde	-3307 Feb 19 j 22:45	9°♎06'07	
opposition	-3307 Apr 22 j 01:20	4°♎13'17	1°21'39
min. Earth dist.	-3307 Apr 23 j 02:39	4°♎05'13	4.24211 AU
	-3307 May 31 j 23:34	30°℞♍	
direct	-3307 Jun 22 j 15:19	29°♍16'44	
	-3307 Jul 14 j 07:05	0°♎	
evening set	-3307 Oct 25 j 17:04	17°♎39'18	
max. Earth dist.	-3307 Nov 06 j 04:35	20°♎18'39	6.18586 AU
conjunction	-3307 Nov 07 j 07:35	20°♎34'19	0°36'30
minimum elong	-3307 Nov 07 j 07:38	20°♎34'20	0°36'27
morning rise	-3307 Nov 19 j 22:44	23°♎29'53	
	-3307 Dec 19 j 01:09	0°♏	
retrograde	-3306 Mar 27 j 05:48	12°♏22'18	
opposition	-3306 May 27 j 05:58	7°♏26'38	0°20'35
min. Earth dist.	-3306 May 27 j 18:06	7°♏22'43	4.12985 AU
direct	-3306 Jul 26 j 14:01	2°♏32'31	
desc. node	-3306 Sep 19 j 20:23	7°♏08'32	
	-3306 Oct 31 j 02:46	15°♏	
evening set	-3306 Nov 27 j 21:32	21°♏20'03	
conjunction	-3306 Dec 10 j 17:10	24°♏21'48	-0°09'56
minimum elong	-3306 Dec 10 j 17:10	24°♏21'48	0°10'01
behind sun begin	-3306 Dec 10 j 10:37	24°♏17'56	
behind sun end	-3306 Dec 10 j 23:43	24°♏25'39	
max. Earth dist.	-3306 Dec 10 j 13:01	24°♏19'21	6.08016 AU
morning rise	-3306 Dec 23 j 15:02	27°♏24'54	
	-3305 Jan 03 j 17:02	0°♐	
retrograde	-3305 May 03 j 00:15	17°♐11'50	
opposition	-3305 Jul 02 j 17:15	12°♐12'20	-0°50'43
min. Earth dist.	-3305 Jul 02 j 09:54	12°♐14'45	4.04014 AU
direct	-3305 Aug 30 j 16:03	7°♐19'17	
evening set	-3304 Jan 01 j 22:44	26°♐29'35	
conjunction	-3304 Jan 15 j 01:14	29°♐37'14	-0°54'08
minimum elong	-3304 Jan 15 j 01:11	29°♐37'12	0°54'14
max. Earth dist.	-3304 Jan 15 j 23:22	29°♐50'27	6.01424 AU
	-3304 Jan 16 j 15:20	0°♑	
morning rise	-3304 Jan 28 j 07:01	2°♑46'38	
retrograde	-3304 Jun 08 j 09:49	23°♑05'55	
opposition	-3304 Aug 07 j 14:29	18°♑02'46	-1°45'02
min. Earth dist.	-3304 Aug 06 j 15:32	18°♑10'28	4.00618 AU
direct	-3304 Oct 04 j 17:47	13°♑08'35	
	-3303 Jan 26 j 22:00	0°♒	
evening set	-3303 Feb 06 j 12:59	2°♒29'27	
conjunction	-3303 Feb 19 j 23:03	5°♒40'18	-1°18'35
minimum elong	-3303 Feb 19 j 23:02	5°♒40'18	1°18'41
max. Earth dist.	-3303 Feb 21 j 18:33	6°♒06'07	6.01426 AU
morning rise	-3303 Mar 05 j 12:07	8°♒52'42	
	-3303 Apr 01 j 05:08	15°♒	
retrograde	-3303 Jul 15 j 02:36	29°♒04'25	
opposition	-3303 Sep 12 j 18:50	23°♒59'21	-1°59'09
min. Earth dist.	-3303 Sep 11 j 13:03	24°♒09'30	4.04180 AU
direct	-3303 Nov 09 j 20:16	19°♒02'24	
	-3302 Feb 06 j 12:19	0°♓	
evening set	-3302 Mar 15 j 15:55	8°♓15'18	
conjunction	-3302 Mar 29 j 08:08	11°♓25'53	-1°13'18
minimum elong	-3302 Mar 29 j 08:11	11°♓25'55	1°13'21
max. Earth dist.	-3302 Mar 31 j 06:19	11°♓52'44	6.08144 AU
morning rise	-3302 Apr 12 j 02:25	14°♓37'15	
	-3302 Jun 28 j 06:11	0°♈	
retrograde	-3302 Aug 18 j 23:07	4°♈03'49	
	-3302 Oct 09 j 23:54	30°℞♓	
min. Earth dist.	-3302 Oct 16 j 08:04	29°♓08'26	4.13320 AU
opposition	-3302 Oct 17 j 10:27	28°♓59'25	-1°29'12
direct	-3302 Dec 15 j 05:38	23°♓59'12	
	-3301 Feb 17 j 06:57	0°♈	
evening set	-3301 Apr 21 j 01:41	12°♈49'13	
conjunction	-3301 May 04 j 20:23	15°♈56'08	-0°42'02
minimum elong	-3301 May 04 j 20:26	15°♈56'09	0°42'00
max. Earth dist.	-3301 May 06 j 05:52	16°♈15'05	6.18993 AU
morning rise	-3301 May 18 j 14:46	19°♈02'41	
	-3301 Jul 10 j 07:18	0°♉	
retrograde	-3301 Sep 20 j 23:16	7°♉28'31	
opposition	-3301 Nov 19 j 09:48	2°♉27'07	-0°30'37
min. Earth dist.	-3301 Nov 18 j 20:03	2°♉31'46	4.24700 AU
	-3301 Dec 08 j 10:35	30°℞♈	
direct	-3300 Jan 18 j 11:30	27°♈24'32	
	-3300 Feb 28 j 22:41	0°♉	
asc. node	-3300 May 21 j 10:38	15°♉00'52	
	-3300 May 21 j 09:02	15°♉	
evening set	-3300 May 24 j 23:01	15°♉47'10	
conjunction	-3300 Jun 07 j 14:09	18°♉47'58	0°02'00
minimum elong	-3300 Jun 07 j 14:09	18°♉47'58	0°02'05
behind sun begin	-3300 Jun 07 j 05:52	18°♉43'24	
behind sun end	-3300 Jun 07 j 22:27	18°♉52'32	
max. Earth dist.	-3300 Jun 07 j 23:10	18°♉52'56	6.30054 AU
morning rise	-3300 Jun 21 j 03:15	21°♉47'34	
	-3300 Jul 30 j 08:38	0°♊	
retrograde	-3300 Oct 21 j 09:08	9°♊21'11	
opposition	-3300 Dec 20 j 02:15	4°♊23'39	0°34'32
min. Earth dist.	-3300 Dec 20 j 04:03	4°♊23'03	4.34511 AU
	-3299 Jan 29 j 17:49	30°℞♉	
direct	-3299 Feb 19 j 10:31	29°♉20'01	
	-3299 Mar 12 j 08:47	0°♊	
evening set	-3299 Jun 27 j 04:08	17°♊21'09	
conjunction	-3299 Jul 10 j 11:22	20°♊15'27	0°43'59
minimum elong	-3299 Jul 10 j 11:19	20°♊15'25	0°44'05
max. Earth dist.	-3299 Jul 09 j 20:12	20°♊07'08	6.37857 AU
morning rise	-3299 Jul 23 j 15:18	23°♊08'06	
	-3299 Aug 25 j 10:26	0°♋	
retrograde	-3299 Nov 21 j 02:58	10°♋11'26	
opposition	-3298 Jan 20 j 05:05	5°♋17'25	1°27'38
min. Earth dist.	-3298 Jan 20 j 22:28	5°♋11'47	4.39860 AU
direct	-3298 Mar 23 j 12:43	0°♋14'14	
evening set	-3298 Jul 29 j 00:37	18°♋04'46	
max. Earth dist.	-3298 Aug 09 j 11:11	20°♋34'50	6.40227 AU
conjunction	-3298 Aug 10 j 22:37	20°♋54'16	1°12'44
minimum elong	-3298 Aug 10 j 22:34	20°♋54'14	1°12'51

Attention, astronomical year style is used: The year -3298 in astronomical counting style is the year 3299 BCE in historical counting style.

morning rise	-3298 Aug 23 j 17:35	23°♋42'16	
	-3298 Sep 22 j 14:25	0°♌	
retrograde	-3298 Dec 22 j 01:36	10°♌41'45	
opposition	-3297 Feb 20 j 13:48	5°♌49'49	1°55'58
min. Earth dist.	-3297 Feb 21 j 18:28	5°♌40'38	4.39260 AU
direct	-3297 Apr 24 j 06:44	0°♌48'12	
	-3297 Aug 12 j 03:42	15°♌	
evening set	-3297 Aug 29 j 02:23	18°♌40'21	
max. Earth dist.	-3297 Sep 08 j 22:52	21°♌04'34	6.36591 AU
conjunction	-3297 Sep 10 j 17:47	21°♌28'25	1°21'09
minimum elong	-3297 Sep 10 j 17:47	21°♌28'25	1°21'13
morning rise	-3297 Sep 23 j 06:41	24°♌15'27	
	-3297 Oct 20 j 00:14	0°♍	
retrograde	-3296 Jan 22 j 23:36	11°♍36'50	
opposition	-3296 Mar 23 j 21:31	6°♍45'14	1°52'13
min. Earth dist.	-3296 Mar 25 j 04:48	6°♍35'18	4.32860 AU
direct	-3296 May 25 j 06:18	1°♍46'10	
evening set	-3296 Sep 28 j 04:34	19°♍51'23	
max. Earth dist.	-3296 Oct 09 j 00:37	22°♍18'40	6.27901 AU
conjunction	-3296 Oct 10 j 17:28	22°♍41'53	1°06'21
minimum elong	-3296 Oct 10 j 17:30	22°♍41'54	1°06'22
morning rise	-3296 Oct 23 j 05:37	25°♍32'10	
	-3296 Nov 12 j 08:40	0°♎	
retrograde	-3295 Feb 24 j 16:07	13°♎37'23	
opposition	-3295 Apr 26 j 17:04	8°♎44'19	1°14'47
min. Earth dist.	-3295 Apr 27 j 18:37	8°♎36'10	4.22357 AU
direct	-3295 Jun 27 j 03:53	3°♎48'03	
evening set	-3295 Oct 30 j 02:54	22°♎15'27	
conjunction	-3295 Nov 11 j 18:08	25°♎11'37	0°30'43
minimum elong	-3295 Nov 11 j 18:10	25°♎11'38	0°30'39
max. Earth dist.	-3295 Nov 10 j 16:54	24°♎56'55	6.16550 AU
morning rise	-3295 Nov 24 j 10:07	28°♎08'25	
	-3295 Dec 02 j 11:57	0°♏	
	-3294 Feb 22 j 04:56	15°♏	
retrograde	-3294 Apr 01 j 04:52	17°♏10'47	
	-3294 May 09 j 11:47	15°℞♏	
opposition	-3294 Jun 01 j 04:17	12°♏14'41	0°10'56
min. Earth dist.	-3294 Jun 01 j 13:43	12°♏11'39	4.10932 AU
direct	-3294 Jul 31 j 05:36	7°♏20'52	
desc. node	-3294 Aug 01 j 00:02	7°♏20'55	
	-3294 Oct 12 j 00:54	15°♏	
evening set	-3294 Dec 02 j 15:12	26°♏14'23	
conjunction	-3294 Dec 15 j 11:47	29°♏17'23	-0°16'31
minimum elong	-3294 Dec 15 j 11:46	29°♏17'22	0°16'37
max. Earth dist.	-3294 Dec 15 j 10:47	29°♏16'47	6.06132 AU
	-3294 Dec 18 j 11:28	0°♐	
morning rise	-3294 Dec 28 j 10:51	2°♐21'51	
retrograde	-3293 May 08 j 06:31	22°♐17'54	
opposition	-3293 Jul 07 j 21:06	17°♐17'50	-0°59'54
min. Earth dist.	-3293 Jul 07 j 11:23	17°♐21'03	4.02483 AU
direct	-3293 Sep 04 j 16:20	12°♐24'46	
	-3293 Dec 30 j 23:51	0°♑	
evening set	-3292 Jan 07 j 00:45	1°♑40'01	
conjunction	-3292 Jan 20 j 04:33	4°♑48'39	-0°59'03
minimum elong	-3292 Jan 20 j 04:29	4°♑48'37	0°59'09
max. Earth dist.	-3292 Jan 21 j 07:48	5°♑04'57	6.00394 AU
morning rise	-3292 Feb 02 j 11:27	7°♑59'02	
retrograde	-3292 Jun 13 j 18:15	28°♑22'02	
opposition	-3292 Aug 12 j 19:40	23°♑18'28	-1°49'44
min. Earth dist.	-3292 Aug 11 j 18:43	23°♑26'52	4.00236 AU
direct	-3292 Oct 09 j 20:37	18°♑24'00	
	-3291 Jan 08 j 16:18	0°♒	
evening set	-3291 Feb 11 j 20:33	7°♒46'25	
conjunction	-3291 Feb 25 j 07:31	10°♒57'35	-1°19'38
minimum elong	-3291 Feb 25 j 07:30	10°♒57'35	1°19'43
max. Earth dist.	-3291 Feb 27 j 04:10	11°♒24'03	6.01689 AU
morning rise	-3291 Mar 10 j 21:43	14°♒10'16	
	-3291 Mar 14 j 10:34	15°♒	
	-3291 May 27 j 18:30	0°♓	
retrograde	-3291 Jul 20 j 04:09	4°♓18'16	
	-3291 Sep 12 j 02:27	30°℞♒	
opposition	-3291 Sep 17 j 20:38	29°♒12'59	-1°57'16
min. Earth dist.	-3291 Sep 16 j 13:32	29°♒23'36	4.05050 AU
direct	-3291 Nov 14 j 23:09	24°♒15'30	
	-3290 Jan 15 j 09:17	0°♓	
evening set	-3290 Mar 20 j 22:56	13°♓25'58	
conjunction	-3290 Apr 03 j 15:56	16°♓36'13	-1°10'07
minimum elong	-3290 Apr 03 j 16:00	16°♓36'15	1°10'09
max. Earth dist.	-3290 Apr 05 j 14:41	17°♓03'18	6.09525 AU
morning rise	-3290 Apr 17 j 10:26	19°♓47'04	
	-3290 Jun 03 j 19:45	0°♈	
retrograde	-3290 Aug 23 j 20:14	9°♈04'52	
min. Earth dist.	-3290 Oct 21 j 05:43	4°♈09'07	4.15004 AU
opposition	-3290 Oct 22 j 06:26	4°♈00'41	-1°21'59
	-3290 Nov 25 j 16:47	30°℞♓	
direct	-3290 Dec 20 j 06:33	29°♓00'00	
	-3289 Jan 14 j 01:38	0°♈	
evening set	-3289 Apr 26 j 03:52	17°♈45'19	
conjunction	-3289 May 09 j 22:19	20°♈51'21	-0°36'08
minimum elong	-3289 May 09 j 22:22	20°♈51'23	0°36'06
max. Earth dist.	-3289 May 11 j 04:56	21°♈08'37	6.20810 AU
morning rise	-3289 May 23 j 16:17	23°♈56'55	
	-3289 Jun 20 j 12:40	0°♉	
retrograde	-3289 Sep 25 j 11:20	12°♉13'32	
opposition	-3289 Nov 23 j 23:38	7°♉12'36	-0°21'12
min. Earth dist.	-3289 Nov 23 j 11:15	7°♉16'46	4.26463 AU
direct	-3288 Jan 23 j 05:36	2°♉09'41	
asc. node	-3288 Mar 30 j 04:50	8°♉23'25	
	-3288 May 04 j 05:25	15°♉	
evening set	-3288 May 29 j 18:45	20°♉27'59	
conjunction	-3288 Jun 12 j 08:56	23°♉27'44	0°08'24
minimum elong	-3288 Jun 12 j 08:55	23°♉27'43	0°08'30
behind sun begin	-3288 Jun 12 j 01:45	23°♉23'46	
behind sun end	-3288 Jun 12 j 16:06	23°♉31'40	
max. Earth dist.	-3288 Jun 12 j 14:19	23°♉30'40	6.31626 AU
morning rise	-3288 Jun 25 j 20:47	26°♉26'09	
	-3288 Jul 12 j 08:36	0°♊	
retrograde	-3288 Oct 25 j 18:53	13°♊53'14	
opposition	-3288 Dec 24 j 12:27	8°♊56'16	0°43'09
min. Earth dist.	-3288 Dec 24 j 17:09	8°♊54'43	4.35769 AU
direct	-3287 Feb 24 j 01:29	3°♊52'35	
evening set	-3287 Jul 01 j 17:57	21°♊50'53	
conjunction	-3287 Jul 14 j 23:50	24°♊44'18	0°49'04
minimum elong	-3287 Jul 14 j 23:47	24°♊44'16	0°49'10
max. Earth dist.	-3287 Jul 14 j 04:24	24°♊33'40	6.38682 AU
morning rise	-3287 Jul 28 j 02:29	27°♊36'04	
	-3287 Aug 08 j 05:42	0°♋	
retrograde	-3287 Nov 25 j 10:55	14°♋36'51	
opposition	-3286 Jan 24 j 14:35	9°♋43'12	1°33'21
min. Earth dist.	-3286 Jan 25 j 09:57	9°♋36'55	4.40233 AU
direct	-3286 Mar 28 j 00:06	4°♋40'05	
evening set	-3286 Aug 02 j 10:31	22°♋29'54	
max. Earth dist.	-3286 Aug 13 j 19:06	24°♋59'00	6.40109 AU

Attention, astronomical year style is used: The year -3286 in astronomical counting style is the year 3287 BCE in historical counting style.

conjunction	-3286 Aug 15 j 07:28	25°♋18'59	1°15'16
minimum elong	-3286 Aug 15 j 07:26	25°♋18'57	1°15'22
morning rise	-3286 Aug 28 j 01:11	28°♋06'33	
	-3286 Sep 05 j 18:31	0°♌	
	-3286 Dec 17 j 13:24	15°♌	
retrograde	-3286 Dec 26 j 11:30	15°♌07'32	
	-3285 Jan 04 j 09:50	15°℞♌	
opposition	-3285 Feb 25 j 01:21	10°♌15'48	1°57'29
min. Earth dist.	-3285 Feb 26 j 07:01	10°♌06'19	4.38673 AU
direct	-3285 Apr 28 j 17:58	5°♌14'30	
	-3285 Jul 25 j 15:52	15°♌	
evening set	-3285 Sep 02 j 11:26	23°♌08'00	
max. Earth dist.	-3285 Sep 13 j 05:13	25°♌31'11	6.35564 AU
conjunction	-3285 Sep 15 j 02:04	25°♌56'11	1°20'27
minimum elong	-3285 Sep 15 j 02:04	25°♌56'12	1°20'31
morning rise	-3285 Sep 27 j 14:43	28°♌43'30	
	-3285 Oct 03 j 09:18	0°♍	
retrograde	-3284 Jan 27 j 16:03	16°♍10'07	
opposition	-3284 Mar 28 j 13:45	11°♍18'26	1°48'53
min. Earth dist.	-3284 Mar 29 j 21:26	11°♍08'21	4.31456 AU
direct	-3284 May 29 j 20:22	6°♍19'41	
evening set	-3284 Oct 02 j 15:24	24°♍28'06	
max. Earth dist.	-3284 Oct 13 j 13:57	26°♍57'19	6.26249 AU
conjunction	-3284 Oct 15 j 04:34	27°♍19'21	1°02'25
minimum elong	-3284 Oct 15 j 04:37	27°♍19'23	1°02'25
	-3284 Oct 26 j 22:31	0°♎	
morning rise	-3284 Oct 27 j 16:55	0°♎10'26	
retrograde	-3283 Mar 01 j 14:05	18°♎23'43	
opposition	-3283 May 01 j 15:27	13°♎30'21	1°07'00
min. Earth dist.	-3283 May 02 j 14:51	13°♎22'52	4.20576 AU
direct	-3283 Jul 01 j 21:00	8°♎34'34	
evening set	-3283 Nov 03 j 18:46	27°♎06'09	
max. Earth dist.	-3283 Nov 15 j 11:48	29°♎50'02	6.14811 AU
conjunction	-3283 Nov 16 j 10:30	0°♏03'18	0°24'23
minimum elong	-3283 Nov 16 j 10:31	0°♏03'19	0°24'20
	-3283 Nov 16 j 04:50	0°♏	
morning rise	-3283 Nov 29 j 03:27	3°♏01'16	
	-3282 Jan 24 j 11:34	15°♏	
retrograde	-3282 Apr 06 j 10:14	22°♏12'28	
opposition	-3282 Jun 06 j 08:23	17°♏15'51	0°00'40
min. Earth dist.	-3282 Jun 06 j 15:08	17°♏13'40	4.09389 AU
desc. node	-3282 Jun 10 j 00:02	16°♏47'29	
	-3282 Jun 24 j 12:46	15°℞♏	
direct	-3282 Aug 05 j 05:31	12°♏22'17	
	-3282 Sep 15 j 02:31	15°♏	
	-3282 Dec 01 j 22:24	0°♐	
evening set	-3282 Dec 07 j 13:40	1°♐19'40	
conjunction	-3282 Dec 20 j 11:19	4°♐23'38	-0°23'18
minimum elong	-3282 Dec 20 j 11:17	4°♐23'37	0°23'24
max. Earth dist.	-3282 Dec 20 j 15:47	4°♐26'17	6.04958 AU
morning rise	-3281 Jan 02 j 11:23	7°♐29'05	
retrograde	-3281 May 13 j 15:28	27°♐30'53	
opposition	-3281 Jul 13 j 03:40	22°♐30'21	-1°08'55
min. Earth dist.	-3281 Jul 12 j 15:17	22°♐34'27	4.01842 AU
direct	-3281 Sep 09 j 19:19	17°♐37'16	
	-3281 Dec 13 j 06:23	0°♑	
evening set	-3280 Jan 12 j 05:02	6°♑54'07	
conjunction	-3280 Jan 25 j 09:39	10°♑03'11	-1°03'37
minimum elong	-3280 Jan 25 j 09:35	10°♑03'09	1°03'43
max. Earth dist.	-3280 Jan 26 j 15:24	10°♑20'58	6.00317 AU
morning rise	-3280 Feb 07 j 17:46	13°♑14'03	
	-3280 May 01 j 03:05	0°♒	
retrograde	-3280 Jun 18 j 22:49	3°♒36'41	
	-3280 Aug 07 j 01:56	30°℞♑	
min. Earth dist.	-3280 Aug 16 j 20:45	28°♑41'56	4.00758 AU
opposition	-3280 Aug 18 j 00:06	28°♑32'41	-1°53'34
direct	-3280 Oct 14 j 23:39	23°♑37'53	
	-3280 Dec 18 j 11:29	0°♒	
evening set	-3279 Feb 17 j 02:22	12°♒58'37	
	-3279 Feb 25 j 16:24	15°♒	
conjunction	-3279 Mar 02 j 14:23	16°♒09'43	-1°20'05
minimum elong	-3279 Mar 02 j 14:23	16°♒09'44	1°20'09
max. Earth dist.	-3279 Mar 04 j 13:32	16°♒37'35	6.02745 AU
morning rise	-3279 Mar 16 j 05:11	19°♒22'11	
	-3279 May 03 j 15:03	0°♓	
retrograde	-3279 Jul 25 j 04:32	9°♓23'39	
opposition	-3279 Sep 22 j 19:21	4°♓18'22	-1°54'32
min. Earth dist.	-3279 Sep 21 j 13:19	4°♓28'37	4.06509 AU
	-3279 Oct 31 j 08:49	30°℞♒	
direct	-3279 Nov 20 j 00:56	29°♒20'26	
	-3279 Dec 09 j 19:03	0°♓	
evening set	-3278 Mar 26 j 02:14	18°♓26'44	
conjunction	-3278 Apr 08 j 19:38	21°♓36'26	-1°06'31
minimum elong	-3278 Apr 08 j 19:42	21°♓36'28	1°06'32
max. Earth dist.	-3278 Apr 10 j 16:53	22°♓02'31	6.11246 AU
morning rise	-3278 Apr 22 j 14:24	24°♓46'35	
	-3278 May 15 j 23:10	0°♈	
retrograde	-3278 Aug 28 j 10:59	13°♈55'00	
opposition	-3278 Oct 26 j 22:00	8°♈51'13	-1°14'28
min. Earth dist.	-3278 Oct 25 j 22:05	8°♈59'22	4.16805 AU
direct	-3278 Dec 25 j 01:23	3°♈50'10	
evening set	-3277 May 01 j 01:43	22°♈30'59	
conjunction	-3277 May 14 j 19:51	25°♈36'09	-0°30'12
minimum elong	-3277 May 14 j 19:53	25°♈36'11	0°30'10
max. Earth dist.	-3277 May 15 j 22:04	25°♈50'54	6.22555 AU
morning rise	-3277 May 28 j 13:16	28°♈40'44	
	-3277 Jun 03 j 12:09	0°♉	
	-3277 Aug 26 j 23:18	15°♉	
retrograde	-3277 Sep 29 j 22:32	16°♉49'16	
	-3277 Nov 02 j 15:11	15°℞♉	
opposition	-3277 Nov 28 j 10:12	11°♉48'54	-0°12'00
min. Earth dist.	-3277 Nov 28 j 01:14	11°♉51'55	4.27983 AU
direct	-3276 Jan 27 j 21:31	6°♉45'49	
asc. node	-3276 Feb 08 j 07:52	6°♉58'18	
	-3276 Apr 15 j 12:14	15°♉	
evening set	-3276 Jun 03 j 10:35	25°♉00'50	
conjunction	-3276 Jun 16 j 23:54	27°♉59'43	0°14'33
minimum elong	-3276 Jun 16 j 23:53	27°♉59'42	0°14'39
behind sun begin	-3276 Jun 16 j 20:41	27°♉57'57	
behind sun end	-3276 Jun 17 j 03:05	28°♉01'27	
max. Earth dist.	-3276 Jun 17 j 01:42	28°♉00'42	6.32806 AU
	-3276 Jun 26 j 02:19	0°♊	
morning rise	-3276 Jun 30 j 10:36	0°♊57'12	
retrograde	-3276 Oct 30 j 01:15	18°♊19'39	
opposition	-3276 Dec 28 j 20:33	13°♊23'13	0°51'18
min. Earth dist.	-3276 Dec 29 j 02:58	13°♊21'06	4.36549 AU
direct	-3275 Feb 28 j 11:33	8°♊19'34	
evening set	-3275 Jul 06 j 05:35	26°♊16'43	
max. Earth dist.	-3275 Jul 18 j 11:35	28°♊57'06	6.39004 AU
conjunction	-3275 Jul 19 j 10:10	29°♊09'28	0°53'45
minimum elong	-3275 Jul 19 j 10:07	29°♊09'26	0°53'52
	-3275 Jul 23 j 06:30	0°♋	
morning rise	-3275 Aug 01 j 11:32	2°♋00'35	
retrograde	-3275 Nov 29 j 19:46	19°♋00'44	

Attention, astronomical year style is used: The year -3274 in astronomical counting style is the year 3275 BCE in historical counting style.

opposition	-3274 Jan 28 j 23:29	14°♋07'30	1°38'28
min. Earth dist.	-3274 Jan 29 j 21:20	14°♋00'26	4.40101 AU
direct	-3274 Apr 01 j 11:01	9°♋04'37	
evening set	-3274 Aug 06 j 19:55	26°♋55'17	
max. Earth dist.	-3274 Aug 18 j 00:47	29°♋22'40	6.39514 AU
conjunction	-3274 Aug 19 j 15:48	29°♋44'09	1°17'19
minimum elong	-3274 Aug 19 j 15:46	29°♋44'08	1°17'24
	-3274 Aug 20 j 20:38	0°♌	
morning rise	-3274 Sep 01 j 08:43	2°♌31'36	
	-3274 Nov 04 j 16:25	15°♌	
retrograde	-3274 Dec 30 j 23:12	19°♌35'44	
	-3273 Feb 27 j 12:07	15°℞♌	
opposition	-3273 Mar 01 j 13:54	14°♌44'06	1°58'17
min. Earth dist.	-3273 Mar 02 j 20:00	14°♌34'29	4.37685 AU
direct	-3273 May 03 j 04:57	9°♌43'07	
	-3273 Jul 04 j 12:30	15°♌	
evening set	-3273 Sep 06 j 20:53	27°♌39'01	
	-3273 Sep 17 j 09:57	0°♍	
max. Earth dist.	-3273 Sep 17 j 16:06	0°♍03'26	6.34268 AU
conjunction	-3273 Sep 19 j 11:11	0°♍27'33	1°19'15
minimum elong	-3273 Sep 19 j 11:12	0°♍27'33	1°19'18
morning rise	-3273 Oct 01 j 23:23	3°♍15'13	
retrograde	-3272 Feb 01 j 09:26	20°♍47'59	
opposition	-3272 Apr 02 j 07:50	15°♍56'10	1°44'48
min. Earth dist.	-3272 Apr 03 j 14:39	15°♍46'23	4.29936 AU
direct	-3272 Jun 03 j 11:30	10°♍57'55	
evening set	-3272 Oct 07 j 03:41	29°♍09'30	
	-3272 Oct 10 j 20:27	0°♎	
max. Earth dist.	-3272 Oct 18 j 03:09	1°♎39'52	6.24638 AU
conjunction	-3272 Oct 19 j 16:49	2°♎01'26	0°58'01
minimum elong	-3272 Oct 19 j 16:52	2°♎01'28	0°58'00
morning rise	-3272 Nov 01 j 05:44	4°♎53'24	
retrograde	-3271 Mar 06 j 13:47	23°♎14'28	
opposition	-3271 May 06 j 15:21	18°♎20'39	0°58'37
min. Earth dist.	-3271 May 07 j 12:21	18°♎13'56	4.18977 AU
direct	-3271 Jul 06 j 16:49	13°♎25'13	
	-3271 Oct 30 j 19:50	0°♏	
evening set	-3271 Nov 08 j 11:37	2°♏00'02	
max. Earth dist.	-3271 Nov 20 j 10:21	4°♏47'40	6.13385 AU
conjunction	-3271 Nov 21 j 04:09	4°♏58'06	0°17'49
minimum elong	-3271 Nov 21 j 04:11	4°♏58'07	0°17'46
morning rise	-3271 Dec 03 j 21:49	7°♏57'02	
	-3270 Jan 04 j 05:35	15°♏	
retrograde	-3270 Apr 11 j 15:19	27°♏15'25	
desc. node	-3270 Apr 19 j 02:50	27°♏10'08	
opposition	-3270 Jun 11 j 12:37	22°♏18'16	-0°09'41
min. Earth dist.	-3270 Jun 11 j 16:47	22°♏16'55	4.08253 AU
direct	-3270 Aug 10 j 05:48	17°♏24'54	
	-3270 Nov 14 j 14:43	0°♐	
evening set	-3270 Dec 12 j 12:08	6°♐24'33	
conjunction	-3270 Dec 25 j 10:30	9°♐29'12	-0°29'53
minimum elong	-3270 Dec 25 j 10:28	9°♐29'11	0°29'59
max. Earth dist.	-3270 Dec 25 j 17:37	9°♐33'26	6.04186 AU
morning rise	-3269 Jan 07 j 11:47	12°♐35'28	
	-3269 Apr 06 j 19:52	0°♑	
retrograde	-3269 May 18 j 20:45	2°♑41'18	
	-3269 Jun 30 j 01:45	30°℞♐	
opposition	-3269 Jul 18 j 08:45	27°♐40'08	-1°17'18
min. Earth dist.	-3269 Jul 17 j 17:11	27°♐45'18	4.01525 AU
direct	-3269 Sep 14 j 21:03	22°♐46'54	
	-3269 Nov 23 j 02:19	0°♑	
evening set	-3268 Jan 17 j 07:54	12°♑04'18	

conjunction	-3268 Jan 30 j 13:37	15°♑13'43	-1°07'39
minimum elong	-3268 Jan 30 j 13:34	15°♑13'42	1°07'46
max. Earth dist.	-3268 Jan 31 j 23:36	15°♑34'01	6.00467 AU
morning rise	-3268 Feb 12 j 22:31	18°♑24'52	
	-3268 Apr 05 j 14:27	0°♒	
retrograde	-3268 Jun 24 j 03:02	8°♒46'08	
min. Earth dist.	-3268 Aug 21 j 22:53	3°♒51'05	4.01376 AU
opposition	-3268 Aug 23 j 02:16	3°♒41'49	-1°56'29
	-3268 Sep 23 j 04:38	30°℞♑	
direct	-3268 Oct 20 j 02:36	28°♑46'37	
	-3268 Nov 16 j 00:28	0°♒	
	-3267 Feb 08 j 22:48	15°♒	
evening set	-3267 Feb 22 j 06:45	18°♒05'37	
conjunction	-3267 Mar 07 j 19:34	21°♒16'38	-1°19'56
minimum elong	-3267 Mar 07 j 19:35	21°♒16'38	1°20'01
max. Earth dist.	-3267 Mar 09 j 19:07	21°♒44'37	6.03756 AU
morning rise	-3267 Mar 21 j 11:12	24°♒28'56	
	-3267 Apr 14 j 15:50	0°♓	
retrograde	-3267 Jul 30 j 01:11	14°♓23'54	
min. Earth dist.	-3267 Sep 26 j 09:25	9°♓29'03	4.07820 AU
opposition	-3267 Sep 27 j 15:45	9°♓18'42	-1°51'04
direct	-3267 Nov 24 j 22:49	4°♓20'18	
evening set	-3266 Mar 31 j 04:12	23°♓23'18	
conjunction	-3266 Apr 13 j 21:59	26°♓32'30	-1°02'31
minimum elong	-3266 Apr 13 j 22:02	26°♓32'32	1°02'31
max. Earth dist.	-3266 Apr 15 j 16:06	26°♓56'42	6.12745 AU
morning rise	-3266 Apr 27 j 16:55	29°♓42'02	
	-3266 Apr 29 j 00:30	0°♈	
retrograde	-3266 Sep 02 j 02:45	18°♈42'12	
opposition	-3266 Oct 31 j 12:51	13°♈38'47	-1°06'34
min. Earth dist.	-3266 Oct 30 j 15:40	13°♈46'00	4.18324 AU
direct	-3266 Dec 29 j 21:09	8°♈37'20	
evening set	-3265 May 05 j 22:52	27°♈14'39	
	-3265 May 18 j 06:42	0°♉	
conjunction	-3265 May 19 j 16:48	0°♉19'06	-0°24'07
minimum elong	-3265 May 19 j 16:50	0°♉19'08	0°24'03
max. Earth dist.	-3265 May 20 j 16:37	0°♉32'27	6.23989 AU
morning rise	-3265 Jun 02 j 09:30	3°♉22'47	
	-3265 Jul 29 j 14:33	15°♉	
retrograde	-3265 Oct 04 j 07:45	21°♉24'20	
opposition	-3265 Dec 02 j 20:42	16°♉24'32	-0°02'44
min. Earth dist.	-3265 Dec 02 j 13:11	16°♉27'03	4.29218 AU
	-3265 Dec 13 j 12:53	15°℞♉	
asc. node	-3265 Dec 19 j 04:55	14°♉17'32	
direct	-3264 Feb 01 j 10:41	11°♉21'18	
	-3264 Mar 22 j 15:45	15°♉	
evening set	-3264 Jun 08 j 03:04	29°♉33'59	
	-3264 Jun 10 j 02:38	0°♊	
conjunction	-3264 Jun 21 j 15:13	2°♊32'02	0°20'40
minimum elong	-3264 Jun 21 j 15:11	2°♊32'02	0°20'45
max. Earth dist.	-3264 Jun 21 j 12:07	2°♊30'20	6.33747 AU
morning rise	-3264 Jul 05 j 00:50	5°♊28'40	
retrograde	-3264 Nov 03 j 10:46	22°♊47'17	
opposition	-3263 Jan 02 j 05:39	17°♊51'23	0°59'15
min. Earth dist.	-3263 Jan 02 j 15:21	17°♊48'12	4.37146 AU
direct	-3263 Mar 05 j 00:51	12°♊47'45	
	-3263 Jul 07 j 08:22	0°♋	
evening set	-3263 Jul 10 j 17:56	0°♋44'11	
conjunction	-3263 Jul 23 j 21:25	3°♋36'22	0°58'12
minimum elong	-3263 Jul 23 j 21:21	3°♋36'20	0°58'20
max. Earth dist.	-3263 Jul 22 j 20:35	3°♋22'47	6.39197 AU
morning rise	-3263 Aug 05 j 21:27	6°♋26'54	

Attention, astronomical year style is used: The year -3263 in astronomical counting style is the year 3264 BCE in historical counting style.

retrograde	-3263 Dec 04 j 03:55	23°♋26'51	
opposition	-3262 Feb 02 j 09:48	18°♋33'56	1°43'08
min. Earth dist.	-3262 Feb 03 j 08:16	18°♋26'41	4.39922 AU
direct	-3262 Apr 05 j 21:16	13°♋31'19	
	-3262 Aug 04 j 21:55	0°♌	
evening set	-3262 Aug 11 j 06:10	1°♌22'45	
max. Earth dist.	-3262 Aug 22 j 09:34	3°♌49'38	6.38981 AU
conjunction	-3262 Aug 24 j 01:01	4°♌11'24	1°18'59
minimum elong	-3262 Aug 24 j 00:59	4°♌11'23	1°19'04
morning rise	-3262 Sep 05 j 16:59	6°♌58'42	
	-3262 Oct 14 j 04:16	15°♌	
retrograde	-3261 Jan 04 j 12:33	24°♌05'50	
opposition	-3261 Mar 06 j 03:46	19°♌14'22	1°58'27
min. Earth dist.	-3261 Mar 07 j 10:45	19°♌04'29	4.36851 AU
	-3261 Apr 15 j 01:09	15°℞♌	
direct	-3261 May 07 j 18:53	14°♌13'50	
	-3261 May 30 j 13:21	15°♌	
	-3261 Sep 01 j 08:40	0°♍	
evening set	-3261 Sep 11 j 07:05	2°♍11'24	
max. Earth dist.	-3261 Sep 22 j 01:26	4°♍35'48	6.33204 AU
conjunction	-3261 Sep 23 j 20:52	5°♍00'09	1°17'36
minimum elong	-3261 Sep 23 j 20:54	5°♍00'10	1°17'39
morning rise	-3261 Oct 06 j 08:58	7°♍48'12	
retrograde	-3260 Feb 06 j 02:30	25°♍26'20	
opposition	-3260 Apr 07 j 02:14	20°♍34'19	1°40'06
min. Earth dist.	-3260 Apr 08 j 07:18	20°♍25'04	4.28718 AU
direct	-3260 Jun 08 j 02:38	15°♍36'30	
	-3260 Sep 24 j 12:19	0°♎	
evening set	-3260 Oct 11 j 15:38	3°♎50'14	
max. Earth dist.	-3260 Oct 22 j 19:15	6°♎23'21	6.23388 AU
conjunction	-3260 Oct 24 j 05:06	6°♎42'47	0°53'17
minimum elong	-3260 Oct 24 j 05:09	6°♎42'49	0°53'17
morning rise	-3260 Nov 05 j 18:15	9°♎35'27	
retrograde	-3259 Mar 11 j 12:50	28°♎03'04	
opposition	-3259 May 11 j 14:28	23°♎08'54	0°49'56
min. Earth dist.	-3259 May 12 j 09:46	23°♎02'43	4.17767 AU
direct	-3259 Jul 11 j 12:47	18°♎13'52	
	-3259 Oct 13 j 16:54	0°♏	
evening set	-3259 Nov 13 j 03:19	6°♏50'43	
conjunction	-3259 Nov 25 j 20:19	9°♏49'30	0°11'16
minimum elong	-3259 Nov 25 j 20:20	9°♏49'30	0°11'12
behind sun begin	-3259 Nov 25 j 14:20	9°♏46'00	
behind sun end	-3259 Nov 26 j 02:21	9°♏53'01	
max. Earth dist.	-3259 Nov 25 j 04:33	9°♏40'14	6.12319 AU
morning rise	-3259 Dec 08 j 15:01	12°♏49'19	
	-3259 Dec 18 j 00:28	15°♏	
desc. node	-3258 Feb 27 j 09:52	28°♏46'15	
	-3258 Mar 09 j 08:27	0°♐	
retrograde	-3258 Apr 16 j 16:58	2°♐13'44	
	-3258 May 25 j 07:21	30°℞♏	
opposition	-3258 Jun 16 j 14:28	27°♏16'01	-0°19'44
min. Earth dist.	-3258 Jun 16 j 15:12	27°♏15'47	4.07420 AU
direct	-3258 Aug 15 j 03:13	22°♏22'46	
	-3258 Oct 26 j 05:57	0°♐	
evening set	-3258 Dec 17 j 08:33	11°♐24'02	
conjunction	-3258 Dec 30 j 07:56	14°♐29'19	-0°36'05
minimum elong	-3258 Dec 30 j 07:53	14°♐29'17	0°36'11
max. Earth dist.	-3258 Dec 30 j 19:43	14°♐36'21	6.03661 AU
morning rise	-3257 Jan 12 j 10:01	17°♐36'12	
	-3257 Mar 10 j 12:35	0°♑	
retrograde	-3257 May 24 j 01:03	7°♑45'06	
opposition	-3257 Jul 23 j 10:35	2°♑43'27	-1°24'53
min. Earth dist.	-3257 Jul 22 j 18:10	2°♑48'55	4.01370 AU
	-3257 Aug 14 j 04:54	30°℞♐	
direct	-3257 Sep 19 j 21:05	27°♐50'03	
	-3257 Oct 26 j 03:22	0°♑	
evening set	-3256 Jan 22 j 08:20	17°♑07'53	
conjunction	-3256 Feb 04 j 14:57	20°♑17'37	-1°11'04
minimum elong	-3256 Feb 04 j 14:54	20°♑17'35	1°11'10
max. Earth dist.	-3256 Feb 06 j 02:29	20°♑38'48	6.00672 AU
morning rise	-3256 Feb 18 j 00:57	23°♑29'06	
	-3256 Mar 17 j 09:23	0°♒	
retrograde	-3256 Jun 29 j 02:42	13°♒48'41	
min. Earth dist.	-3256 Aug 26 j 20:15	8°♒53'53	4.01948 AU
opposition	-3256 Aug 28 j 00:57	8°♒44'09	-1°58'26
direct	-3256 Oct 25 j 00:12	3°♒48'34	
	-3255 Jan 22 j 06:55	15°♒	
evening set	-3255 Feb 27 j 08:26	23°♒06'26	
conjunction	-3255 Mar 12 j 22:06	26°♒17'25	-1°19'13
minimum elong	-3255 Mar 12 j 22:08	26°♒17'26	1°19'17
max. Earth dist.	-3255 Mar 14 j 20:44	26°♒44'48	6.04632 AU
morning rise	-3255 Mar 26 j 14:27	29°♒29'37	
	-3255 Mar 28 j 18:45	0°♓	
retrograde	-3255 Aug 03 j 20:57	19°♓19'00	
min. Earth dist.	-3255 Oct 01 j 05:10	14°♓23'42	4.08894 AU
opposition	-3255 Oct 02 j 09:48	14°♓13'54	-1°46'56
direct	-3255 Nov 29 j 20:07	9°♓15'01	
evening set	-3254 Apr 05 j 04:10	28°♓15'46	
	-3254 Apr 12 j 18:40	0°♈	
conjunction	-3254 Apr 18 j 22:31	1°♈24'40	-0°58'10
minimum elong	-3254 Apr 18 j 22:34	1°♈24'43	0°58'10
max. Earth dist.	-3254 Apr 20 j 15:46	1°♈48'19	6.13958 AU
morning rise	-3254 May 02 j 17:28	4°♈33'42	
retrograde	-3254 Sep 06 j 16:15	23°♈26'42	
min. Earth dist.	-3254 Nov 04 j 06:11	18°♈30'31	4.19556 AU
opposition	-3254 Nov 05 j 02:10	18°♈23'44	-0°58'24
direct	-3253 Jan 03 j 12:56	13°♈22'00	
	-3253 May 01 j 23:25	0°♉	
evening set	-3253 May 10 j 19:21	1°♉56'55	
conjunction	-3253 May 24 j 12:44	5°♉00'42	-0°17'57
minimum elong	-3253 May 24 j 12:45	5°♉00'43	0°17'53
max. Earth dist.	-3253 May 25 j 07:45	5°♉11'20	6.25163 AU
morning rise	-3253 Jun 07 j 04:58	8°♉03'39	
	-3253 Jul 09 j 15:46	15°♉	
retrograde	-3253 Oct 08 j 18:17	25°♉59'13	
asc. node	-3253 Oct 29 j 11:51	25°♉16'46	
opposition	-3253 Dec 07 j 07:09	20°♉59'55	0°06'28
min. Earth dist.	-3253 Dec 07 j 02:28	21°♉01'29	4.30243 AU
direct	-3252 Feb 06 j 01:53	15°♉56'31	
	-3252 May 24 j 13:48	0°♊	
evening set	-3252 Jun 12 j 18:51	4°♊07'17	
conjunction	-3252 Jun 26 j 06:09	7°♊04'36	0°26'36
minimum elong	-3252 Jun 26 j 06:06	7°♊04'35	0°26'42
max. Earth dist.	-3252 Jun 26 j 01:30	7°♊02'03	6.34560 AU
morning rise	-3252 Jul 09 j 14:24	10°♊00'22	
retrograde	-3252 Nov 07 j 17:41	27°♊15'31	
opposition	-3251 Jan 06 j 14:59	22°♊20'03	1°06'47
min. Earth dist.	-3251 Jan 07 j 01:32	22°♊16'35	4.37710 AU
direct	-3251 Mar 09 j 12:13	17°♊16'30	
	-3251 Jun 20 j 16:49	0°♋	
evening set	-3251 Jul 15 j 06:01	5°♋11'49	
max. Earth dist.	-3251 Jul 27 j 04:14	7°♋48'05	6.39455 AU
conjunction	-3251 Jul 28 j 08:03	8°♋03'19	1°02'18

Attention, astronomical year style is used: The year -3251 in astronomical counting style is the year 3252 BCE in historical counting style.

minimum elong	-3251 Jul 28 j 08:00	8°♋03'18	1°02'24
morning rise	-3251 Aug 10 j 06:56	10°♋53'14	
retrograde	-3251 Dec 08 j 13:37	27°♋52'36	
opposition	-3250 Feb 06 j 20:10	22°♋59'57	1°47'10
min. Earth dist.	-3250 Feb 07 j 20:48	22°♋52'00	4.39862 AU
direct	-3250 Apr 10 j 10:26	17°♋57'30	
	-3250 Jul 19 j 05:51	0°♌	
evening set	-3250 Aug 15 j 15:26	5°♌48'47	
max. Earth dist.	-3250 Aug 26 j 17:13	8°♌15'00	6.38574 AU
conjunction	-3250 Aug 28 j 09:26	8°♌37'12	1°20'10
minimum elong	-3250 Aug 28 j 09:24	8°♌37'11	1°20'16
morning rise	-3250 Sep 10 j 00:31	11°♌24'18	
	-3250 Sep 26 j 15:20	15°♌	
retrograde	-3249 Jan 08 j 22:58	28°♌33'54	
opposition	-3249 Mar 10 j 16:49	23°♌42'21	1°57'54
min. Earth dist.	-3249 Mar 11 j 23:06	23°♌32'42	4.36115 AU
direct	-3249 May 12 j 06:15	18°♌42'07	
	-3249 Aug 15 j 12:29	0°♍	
evening set	-3249 Sep 15 j 15:45	6°♍40'47	
max. Earth dist.	-3249 Sep 26 j 10:55	9°♍06'01	6.32177 AU
conjunction	-3249 Sep 28 j 05:11	9°♍29'47	1°15'30
minimum elong	-3249 Sep 28 j 05:13	9°♍29'48	1°15'32
morning rise	-3249 Oct 10 j 17:03	12°♍18'11	
	-3248 Feb 06 j 14:07	0°♎	
retrograde	-3248 Feb 10 j 19:44	0°♎01'41	
	-3248 Feb 15 j 01:17	30°℞♍	
opposition	-3248 Apr 11 j 19:49	25°♍09'27	1°34'48
min. Earth dist.	-3248 Apr 13 j 00:56	25°♍00'12	4.27425 AU
direct	-3248 Jun 12 j 18:29	20°♍12'00	
	-3248 Sep 06 j 23:23	0°♎	
evening set	-3248 Oct 16 j 02:33	8°♎28'07	
max. Earth dist.	-3248 Oct 27 j 06:59	11°♎02'14	6.21934 AU
conjunction	-3248 Oct 28 j 16:13	11°♎21'22	0°48'15
minimum elong	-3248 Oct 28 j 16:16	11°♎21'24	0°48'14
morning rise	-3248 Nov 10 j 06:01	14°♎14'54	
	-3247 Jan 31 j 19:38	0°♏	
retrograde	-3247 Mar 16 j 10:20	2°♏49'59	
	-3247 Apr 29 j 18:54	30°℞♎	
opposition	-3247 May 16 j 12:49	27°♎55'21	0°40'55
min. Earth dist.	-3247 May 17 j 05:15	27°♎50'05	4.16243 AU
direct	-3247 Jul 16 j 05:57	23°♎00'36	
	-3247 Sep 24 j 03:00	0°♏	
evening set	-3247 Nov 17 j 19:12	11°♏40'55	
conjunction	-3247 Nov 30 j 13:04	14°♏40'39	0°04'38
minimum elong	-3247 Nov 30 j 13:04	14°♏40'40	0°04'32
behind sun begin	-3247 Nov 30 j 05:12	14°♏36'02	
behind sun end	-3247 Nov 30 j 20:57	14°♏45'17	
max. Earth dist.	-3247 Nov 30 j 01:27	14°♏33'49	6.10872 AU
	-3247 Dec 01 j 21:53	15°♏	
morning rise	-3247 Dec 13 j 08:34	17°♏41'30	
desc. node	-3246 Jan 07 j 09:46	23°♏24'38	
	-3246 Feb 08 j 22:39	0°♐	
retrograde	-3246 Apr 21 j 22:10	7°♐13'29	
opposition	-3246 Jun 21 j 17:04	2°♐15'14	-0°29'46
min. Earth dist.	-3246 Jun 21 j 16:23	2°♐15'27	4.06168 AU
	-3246 Jul 09 j 15:49	30°℞♏	
direct	-3246 Aug 20 j 02:17	27°♏22'04	
	-3246 Sep 29 j 16:24	0°♐	
evening set	-3246 Dec 22 j 06:53	16°♐26'45	
conjunction	-3245 Jan 04 j 07:11	19°♐32'52	-0°42'08
minimum elong	-3245 Jan 04 j 07:08	19°♐32'50	0°42'14
max. Earth dist.	-3245 Jan 04 j 21:35	19°♐41'28	6.02706 AU
morning rise	-3245 Jan 17 j 10:32	22°♐40'42	
	-3245 Feb 18 j 10:13	0°♑	
retrograde	-3245 May 29 j 05:49	12°♑54'10	
opposition	-3245 Jul 28 j 14:32	7°♑52'03	-1°32'02
min. Earth dist.	-3245 Jul 27 j 19:14	7°♑58'29	4.00843 AU
direct	-3245 Sep 24 j 21:11	2°♑58'29	
evening set	-3244 Jan 27 j 12:11	22°♑18'17	
conjunction	-3244 Feb 09 j 19:51	25°♑28'30	-1°14'02
minimum elong	-3244 Feb 09 j 19:49	25°♑28'29	1°14'07
max. Earth dist.	-3244 Feb 11 j 09:27	25°♑50'55	6.00596 AU
morning rise	-3244 Feb 23 j 06:51	28°♑40'26	
	-3244 Feb 28 j 22:05	0°♒	
	-3244 May 13 j 21:24	15°♒	
retrograde	-3244 Jul 04 j 06:42	18°♒59'14	
	-3244 Aug 25 j 00:31	15°℞♒	
min. Earth dist.	-3244 Aug 31 j 21:57	14°♒04'18	4.02342 AU
opposition	-3244 Sep 02 j 02:53	13°♒54'28	-1°59'34
direct	-3244 Oct 30 j 03:15	8°♒58'29	
	-3244 Dec 31 j 19:35	15°♒	
evening set	-3243 Mar 04 j 14:23	28°♒15'52	
	-3243 Mar 12 j 00:39	0°♓	
conjunction	-3243 Mar 18 j 05:05	1°♓26'55	-1°17'52
minimum elong	-3243 Mar 18 j 05:07	1°♓26'56	1°17'55
max. Earth dist.	-3243 Mar 20 j 05:33	1°♓55'18	6.05477 AU
morning rise	-3243 Mar 31 j 22:01	4°♓39'00	
retrograde	-3243 Aug 08 j 19:35	24°♓22'17	
min. Earth dist.	-3243 Oct 06 j 02:37	19°♓27'09	4.10119 AU
opposition	-3243 Oct 07 j 07:05	19°♓17'25	-1°41'52
direct	-3243 Dec 04 j 19:09	14°♓18'13	
	-3242 Mar 26 j 18:40	0°♈	
evening set	-3242 Apr 10 j 08:01	3°♈16'06	
conjunction	-3242 Apr 24 j 02:26	6°♈24'25	-0°53'17
minimum elong	-3242 Apr 24 j 02:30	6°♈24'28	0°53'16
max. Earth dist.	-3242 Apr 25 j 16:47	6°♈46'19	6.15486 AU
morning rise	-3242 May 07 j 21:31	9°♈32'48	
retrograde	-3242 Sep 11 j 07:30	28°♈17'15	
opposition	-3242 Nov 09 j 18:09	23°♈14'44	-0°49'40
min. Earth dist.	-3242 Nov 08 j 23:39	23°♈21'00	4.21255 AU
direct	-3241 Jan 08 j 09:30	18°♈12'44	
	-3241 Apr 14 j 08:20	0°♉	
evening set	-3241 May 15 j 17:27	6°♉43'19	
conjunction	-3241 May 29 j 10:21	9°♉46'08	-0°11'36
minimum elong	-3241 May 29 j 10:22	9°♉46'08	0°11'32
behind sun begin	-3241 May 29 j 04:30	9°♉42'53	
behind sun end	-3241 May 29 j 16:13	9°♉49'23	
max. Earth dist.	-3241 May 30 j 04:11	9°♉56'03	6.26941 AU
morning rise	-3241 Jun 12 j 01:28	12°♉47'54	
	-3241 Jun 22 j 02:27	15°♉	
asc. node	-3241 Sep 08 j 08:09	28°♉41'05	
	-3241 Sep 24 j 02:07	0°♊	
retrograde	-3241 Oct 13 j 03:41	0°♊35'21	
	-3241 Nov 01 j 02:33	30°℞♉	
opposition	-3241 Dec 11 j 18:15	25°♉36'39	0°15'36
min. Earth dist.	-3241 Dec 11 j 14:58	25°♉37'45	4.31958 AU
direct	-3240 Feb 10 j 17:28	20°♉33'14	
	-3240 May 06 j 11:08	0°♊	
evening set	-3240 Jun 17 j 10:23	8°♊39'34	
conjunction	-3240 Jun 30 j 20:13	11°♊35'42	0°32'20
minimum elong	-3240 Jun 30 j 20:10	11°♊35'41	0°32'26
max. Earth dist.	-3240 Jun 30 j 11:14	11°♊30'47	6.36070 AU
morning rise	-3240 Jul 14 j 03:14	14°♊30'19	
	-3240 Oct 10 j 07:59	0°♋	

Attention, astronomical year style is used: The year -3240 in astronomical counting style is the year 3241 BCE in historical counting style.

retrograde	-3240 Nov 12 j 00:06	1°♋39'55	
	-3240 Dec 14 j 15:53	30°℞♊	
opposition	-3239 Jan 10 j 22:58	26°♊44'54	1°13'44
min. Earth dist.	-3239 Jan 11 j 12:11	26°♊40'34	4.38924 AU
direct	-3239 Mar 14 j 00:54	21°♊41'23	
	-3239 Jun 02 j 11:44	0°♋	
evening set	-3239 Jul 19 j 15:10	9°♋33'29	
max. Earth dist.	-3239 Jul 31 j 10:59	12°♋08'15	6.40260 AU
conjunction	-3239 Aug 01 j 16:02	12°♋24'08	1°05'54
minimum elong	-3239 Aug 01 j 15:59	12°♋24'06	1°06'00
morning rise	-3239 Aug 14 j 13:25	15°♋13'09	
	-3239 Nov 04 j 23:10	0°♌	
retrograde	-3239 Dec 12 j 17:32	2°♌10'36	
	-3238 Jan 19 j 20:15	30°℞♋	
opposition	-3238 Feb 11 j 03:22	27°♋18'12	1°50'23
min. Earth dist.	-3238 Feb 12 j 04:44	27°♋10'03	4.40216 AU
direct	-3238 Apr 14 j 18:37	22°♋16'00	
	-3238 Jul 01 j 01:41	0°♌	
evening set	-3238 Aug 19 j 20:44	10°♌05'59	
max. Earth dist.	-3238 Aug 30 j 19:01	12°♌30'28	6.38421 AU
conjunction	-3238 Sep 01 j 13:38	12°♌54'02	1°20'50
minimum elong	-3238 Sep 01 j 13:37	12°♌54'01	1°20'56
	-3238 Sep 11 j 01:41	15°♌	
morning rise	-3238 Sep 14 j 04:02	15°♌40'54	
	-3238 Nov 30 j 08:43	0°♍	
retrograde	-3237 Jan 13 j 07:38	2°♍52'37	
	-3237 Feb 27 j 00:25	30°℞♌	
opposition	-3237 Mar 15 j 02:08	28°♌01'06	1°56'39
min. Earth dist.	-3237 Mar 16 j 10:23	27°♌50'50	4.35447 AU
direct	-3237 May 16 j 16:09	23°♌01'08	
	-3237 Jul 27 j 22:19	0°♍	
evening set	-3237 Sep 19 j 20:23	11°♍01'00	
max. Earth dist.	-3237 Sep 30 j 14:42	13°♍26'09	6.31037 AU
conjunction	-3237 Oct 02 j 09:38	13°♍50'22	1°13'02
minimum elong	-3237 Oct 02 j 09:41	13°♍50'23	1°13'03
morning rise	-3237 Oct 14 j 21:28	16°♍39'13	
	-3237 Dec 21 j 16:14	0°♎	
retrograde	-3236 Feb 15 j 07:48	4°♎28'46	
	-3236 Apr 13 j 06:52	30°℞♍	
opposition	-3236 Apr 16 j 09:24	29°♍36'18	1°29'07
min. Earth dist.	-3236 Apr 17 j 13:18	29°♍27'25	4.25875 AU
direct	-3236 Jun 17 j 03:47	24°♍39'09	
	-3236 Aug 17 j 14:02	0°♎	
evening set	-3236 Oct 20 j 10:26	12°♎59'02	
max. Earth dist.	-3236 Oct 31 j 17:11	15°♎35'05	6.20109 AU
conjunction	-3236 Nov 02 j 00:32	15°♎53'13	0°43'05
minimum elong	-3236 Nov 02 j 00:35	15°♎53'15	0°43'04
morning rise	-3236 Nov 14 j 14:55	18°♎47'48	
	-3235 Jan 06 j 11:27	0°♏	
retrograde	-3235 Mar 21 j 09:04	7°♏32'01	
opposition	-3235 May 21 j 08:54	2°♏36'59	0°31'54
min. Earth dist.	-3235 May 22 j 00:48	2°♏31'52	4.14251 AU
	-3235 Jun 11 j 20:14	30°℞♎	
direct	-3235 Jul 20 j 22:04	27°♎42'28	
	-3235 Aug 28 j 07:34	0°♏	
	-3235 Nov 16 j 02:37	15°♏	
desc. node	-3235 Nov 18 j 18:34	15°♏37'15	
evening set	-3235 Nov 22 j 09:42	16°♏28'16	
conjunction	-3235 Dec 05 j 04:28	19°♏29'15	-0°02'02
minimum elong	-3235 Dec 05 j 04:26	19°♏29'15	0°02'07
behind sun begin	-3235 Dec 04 j 20:22	19°♏24'30	
behind sun end	-3235 Dec 05 j 12:30	19°♏33'59	
max. Earth dist.	-3235 Dec 04 j 19:03	19°♏23'42	6.08902 AU
morning rise	-3235 Dec 18 j 01:09	22°♏31'27	
	-3234 Jan 20 j 01:40	0°♐	
retrograde	-3234 Apr 27 j 01:08	12°♐13'01	
opposition	-3234 Jun 26 j 18:53	7°♐14'14	-0°39'27
min. Earth dist.	-3234 Jun 26 j 14:51	7°♐15'34	4.04418 AU
direct	-3234 Aug 24 j 21:41	2°♐21'10	
evening set	-3234 Dec 27 j 06:02	21°♐31'22	
conjunction	-3233 Jan 09 j 07:26	24°♐38'34	-0°47'47
minimum elong	-3233 Jan 09 j 07:23	24°♐38'32	0°47'54
max. Earth dist.	-3233 Jan 10 j 01:34	24°♐49'26	6.01334 AU
morning rise	-3233 Jan 22 j 12:00	27°♐47'32	
	-3233 Jan 31 j 20:42	0°♑	
retrograde	-3233 Jun 03 j 13:22	18°♑06'55	
opposition	-3233 Aug 02 j 19:15	13°♑04'16	-1°38'24
min. Earth dist.	-3233 Aug 01 j 22:06	13°♑11'22	4.00007 AU
direct	-3233 Sep 30 j 00:01	8°♑10'26	
evening set	-3232 Feb 01 j 18:02	27°♑33'16	
	-3232 Feb 12 j 00:55	0°♒	
conjunction	-3232 Feb 15 j 02:59	0°♒44'07	-1°16'21
minimum elong	-3232 Feb 15 j 02:57	0°♒44'06	1°16'27
max. Earth dist.	-3232 Feb 16 j 20:56	1°♒09'06	6.00373 AU
morning rise	-3232 Feb 28 j 15:03	3°♒56'36	
	-3232 Apr 18 j 17:32	15°♒	
retrograde	-3232 Jul 09 j 12:31	24°♒14'15	
min. Earth dist.	-3232 Sep 05 j 23:56	19°♒19'30	4.02768 AU
opposition	-3232 Sep 07 j 06:07	19°♒09'15	-1°59'40
	-3232 Oct 13 j 19:45	15°℞♒	
direct	-3232 Nov 04 j 05:58	14°♒12'48	
	-3232 Nov 25 j 18:36	15°♒	
	-3231 Feb 22 j 17:56	0°♓	
evening set	-3231 Mar 09 j 22:07	3°♓29'09	
conjunction	-3231 Mar 23 j 13:30	6°♓40'05	-1°15'51
minimum elong	-3231 Mar 23 j 13:32	6°♓40'07	1°15'52
max. Earth dist.	-3231 Mar 25 j 13:24	7°♓08'04	6.06476 AU
morning rise	-3231 Apr 06 j 07:14	9°♓51'59	
retrograde	-3231 Aug 13 j 16:54	29°♓27'57	
min. Earth dist.	-3231 Oct 11 j 00:48	24°♓32'48	4.11545 AU
opposition	-3231 Oct 12 j 05:07	24°♓23'07	-1°35'57
direct	-3231 Dec 09 j 20:25	19°♓23'21	
	-3230 Mar 08 j 06:24	0°♈	
evening set	-3230 Apr 15 j 12:12	8°♈17'13	
conjunction	-3230 Apr 29 j 06:52	11°♈24'52	-0°47'57
minimum elong	-3230 Apr 29 j 06:56	11°♈24'54	0°47'55
max. Earth dist.	-3230 Apr 30 j 20:21	11°♈46'11	6.17207 AU
morning rise	-3230 May 13 j 01:35	14°♈32'20	
	-3230 Aug 01 j 23:02	0°♉	
retrograde	-3230 Sep 15 j 23:34	3°♉07'22	
	-3230 Oct 30 j 21:52	30°℞♈	
opposition	-3230 Nov 14 j 10:05	28°♈05'18	-0°40'32
min. Earth dist.	-3230 Nov 13 j 17:38	28°♈10'51	4.23047 AU
direct	-3229 Jan 13 j 06:47	23°♈02'58	
	-3229 Mar 25 j 00:56	0°♉	
evening set	-3229 May 20 j 15:32	11°♉28'55	
conjunction	-3229 Jun 03 j 07:35	14°♉30'40	-0°05'08
minimum elong	-3229 Jun 03 j 07:35	14°♉30'40	0°05'04
behind sun begin	-3229 Jun 02 j 23:32	14°♉26'14	
behind sun end	-3229 Jun 03 j 15:38	14°♉35'07	
max. Earth dist.	-3229 Jun 03 j 21:04	14°♉38'08	6.28638 AU
	-3229 Jun 05 j 12:25	15°♉	
morning rise	-3229 Jun 16 j 21:51	17°♉31'20	
asc. node	-3229 Jul 18 j 02:28	24°♉09'38	

Attention, astronomical year style is used: The year -3229 in astronomical counting style is the year 3230 BCE in historical counting style.

	-3229 Aug 19 j 02:16	0°♊	
retrograde	-3229 Oct 17 j 13:22	5°♊11'17	
opposition	-3229 Dec 16 j 05:41	0°♊13'05	0°24'44
min. Earth dist.	-3229 Dec 16 j 04:41	0°♊13'25	4.33419 AU
	-3229 Dec 17 j 21:03	30℞♉	
direct	-3228 Feb 15 j 09:27	25°♉09'30	
	-3228 Apr 14 j 08:49	0°♊	
evening set	-3228 Jun 22 j 01:58	13°♊12'27	
conjunction	-3228 Jul 05 j 10:39	16°♊07'37	0°37'58
minimum elong	-3228 Jul 05 j 10:36	16°♊07'36	0°38'05
max. Earth dist.	-3228 Jul 04 j 23:18	16°♊01'24	6.37180 AU
morning rise	-3228 Jul 18 j 16:09	19°♊01'11	
	-3228 Sep 11 j 20:40	0°♋	
retrograde	-3228 Nov 16 j 07:59	6°♋06'57	
opposition	-3227 Jan 15 j 08:41	1°♋12'25	1°20'30
min. Earth dist.	-3227 Jan 15 j 23:47	1°♋07'30	4.39617 AU
	-3227 Jan 24 j 17:14	30℞♊	
direct	-3227 Mar 18 j 13:31	26°♊09'04	
	-3227 May 10 j 04:53	0°♋	
evening set	-3227 Jul 24 j 02:18	13°♋59'40	
max. Earth dist.	-3227 Aug 04 j 16:32	16°♋31'31	6.40457 AU
conjunction	-3227 Aug 06 j 01:44	16°♋49'41	1°09'17
minimum elong	-3227 Aug 06 j 01:41	16°♋49'40	1°09'23
morning rise	-3227 Aug 18 j 22:04	19°♋38'10	
	-3227 Oct 09 j 13:54	0°♌	
retrograde	-3227 Dec 17 j 03:44	6°♌35'54	
opposition	-3226 Feb 15 j 14:18	1°♌43'45	1°53'14
min. Earth dist.	-3226 Feb 16 j 17:53	1°♌34'54	4.39929 AU
	-3226 Mar 01 j 08:27	30℞♋	
direct	-3226 Apr 19 j 07:00	26°♋41'45	
	-3226 Jun 06 j 20:35	0°♌	
evening set	-3226 Aug 24 j 05:45	14°♌32'30	
	-3226 Aug 26 j 07:47	15°♌	
max. Earth dist.	-3226 Sep 04 j 03:19	16°♌56'52	6.37665 AU
conjunction	-3226 Sep 05 j 22:02	17°♌20'31	1°21'09
minimum elong	-3226 Sep 05 j 22:01	17°♌20'31	1°21'13
morning rise	-3226 Sep 18 j 11:37	20°♌07'24	
	-3226 Nov 05 j 16:10	0°♍	
retrograde	-3225 Jan 17 j 20:18	7°♍23'18	
opposition	-3225 Mar 19 j 16:50	2°♍31'48	1°54'47
min. Earth dist.	-3225 Mar 21 j 00:35	2°♍21'43	4.34275 AU
	-3225 Apr 09 j 13:45	30℞♌	
direct	-3225 May 21 j 04:04	27°♌32'15	
	-3225 Jul 01 j 10:58	0°♍	
evening set	-3225 Sep 24 j 06:27	15°♍34'47	
max. Earth dist.	-3225 Oct 05 j 00:49	18°♍00'31	6.29542 AU
conjunction	-3225 Oct 06 j 19:28	18°♍24'40	1°10'02
minimum elong	-3225 Oct 06 j 19:30	18°♍24'41	1°10'03
morning rise	-3225 Oct 19 j 07:28	21°♍14'12	
	-3225 Nov 29 j 10:29	0°♎	
retrograde	-3224 Feb 20 j 05:44	9°♎11'14	
opposition	-3224 Apr 21 j 06:12	4°♎18'34	1°22'33
min. Earth dist.	-3224 Apr 22 j 09:49	4°♎09'46	4.24135 AU
	-3224 Jun 01 j 12:48	30℞♍	
direct	-3224 Jun 21 j 21:33	29°♍21'50	
	-3224 Jul 12 j 03:59	0°♎	
evening set	-3224 Oct 25 j 00:32	17°♎45'46	
max. Earth dist.	-3224 Nov 05 j 10:23	20°♎24'14	6.18299 AU
conjunction	-3224 Nov 06 j 15:12	20°♎40'58	0°37'19
minimum elong	-3224 Nov 06 j 15:15	20°♎40'59	0°37'16
morning rise	-3224 Nov 19 j 06:19	23°♎36'38	
	-3224 Dec 17 j 19:26	0°♏	

retrograde	-3223 Mar 26 j 11:43	12°♏29'53	
opposition	-3223 May 26 j 11:36	7°♏34'27	0°22'02
min. Earth dist.	-3223 May 27 j 00:08	7°♏30'25	4.12534 AU
direct	-3223 Jul 25 j 18:22	2°♏40'21	
desc. node	-3223 Sep 27 j 11:40	8°♏38'53	
	-3223 Oct 29 j 17:33	15°♏	
evening set	-3223 Nov 27 j 06:28	21°♏30'29	
conjunction	-3223 Dec 10 j 02:01	24°♏32'28	-0°08'56
minimum elong	-3223 Dec 10 j 01:59	24°♏32'27	0°09'01
behind sun begin	-3223 Dec 09 j 19:04	24°♏28'22	
behind sun end	-3223 Dec 10 j 08:54	24°♏36'32	
max. Earth dist.	-3223 Dec 09 j 20:38	24°♏29'18	6.07452 AU
morning rise	-3223 Dec 22 j 23:46	27°♏35'47	
	-3222 Jan 02 j 06:35	0°♐	
retrograde	-3222 May 02 j 09:33	17°♐24'47	
opposition	-3222 Jul 02 j 01:38	12°♐25'27	-0°49'18
min. Earth dist.	-3222 Jul 01 j 18:55	12°♐27'39	4.03398 AU
direct	-3222 Aug 30 j 01:16	7°♐32'26	
evening set	-3221 Jan 01 j 09:05	26°♐45'17	
conjunction	-3221 Jan 14 j 11:37	29°♐53'11	-0°53'18
minimum elong	-3221 Jan 14 j 11:34	29°♐53'09	0°53'24
	-3221 Jan 14 j 23:00	0°♑	
max. Earth dist.	-3221 Jan 15 j 11:05	0°♑07'14	6.00849 AU
morning rise	-3221 Jan 27 j 17:13	3°♑02'49	
retrograde	-3221 Jun 08 j 21:55	23°♑24'05	
min. Earth dist.	-3221 Aug 07 j 02:12	18°♑28'51	4.00155 AU
opposition	-3221 Aug 08 j 01:33	18°♑21'01	-1°44'05
direct	-3221 Oct 05 j 04:17	13°♑26'57	
	-3220 Jan 25 j 23:50	0°♒	
evening set	-3220 Feb 07 j 00:33	2°♒49'07	
conjunction	-3220 Feb 20 j 10:16	6°♒00'01	-1°18'08
minimum elong	-3220 Feb 20 j 10:15	6°♒00'00	1°18'14
max. Earth dist.	-3220 Feb 22 j 05:14	6°♒25'32	6.01095 AU
morning rise	-3220 Mar 04 j 23:20	9°♒12'31	
	-3220 Mar 30 j 04:01	15°♒	
retrograde	-3220 Jul 14 j 12:57	29°♒25'16	
min. Earth dist.	-3220 Sep 11 j 00:04	24°♒30'42	4.03995 AU
opposition	-3220 Sep 12 j 07:15	24°♒20'04	-1°58'50
direct	-3220 Nov 09 j 08:17	19°♒23'09	
	-3219 Feb 04 j 08:09	0°♓	
evening set	-3219 Mar 15 j 03:08	8°♓35'53	
conjunction	-3219 Mar 28 j 19:18	11°♓46'24	-1°13'19
minimum elong	-3219 Mar 28 j 19:21	11°♓46'25	1°13'21
max. Earth dist.	-3219 Mar 30 j 19:28	12°♓14'24	6.08093 AU
morning rise	-3219 Apr 11 j 13:15	14°♓57'40	
	-3219 Jun 25 j 09:42	0°♈	
retrograde	-3219 Aug 18 j 12:14	4°♈24'28	
	-3219 Oct 12 j 01:30	30℞♓	
opposition	-3219 Oct 16 j 23:19	29°♓19'55	-1°29'33
min. Earth dist.	-3219 Oct 15 j 20:58	29°♓28'54	4.13356 AU
direct	-3219 Dec 14 j 19:11	24°♓19'45	
	-3218 Feb 14 j 18:09	0°♈	
evening set	-3218 Apr 20 j 12:12	13°♈08'44	
conjunction	-3218 May 04 j 06:46	16°♈15'33	-0°42'29
minimum elong	-3218 May 04 j 06:49	16°♈15'35	0°42'27
max. Earth dist.	-3218 May 05 j 16:48	16°♈34'49	6.19053 AU
morning rise	-3218 May 18 j 01:14	19°♈22'05	
	-3218 Jul 07 j 23:36	0°♉	
retrograde	-3218 Sep 20 j 10:07	7°♉48'04	
opposition	-3218 Nov 18 j 22:05	2°♉46'29	-0°31'30
min. Earth dist.	-3218 Nov 18 j 07:17	2°♉51'29	4.24758 AU
	-3218 Dec 10 j 18:46	30℞♈	

Attention, astronomical year style is used: The year -3217 in astronomical counting style is the year 3218 BCE in historical counting style.

direct	-3217 Jan 17 j 22:47	27°♈43'52	
	-3217 Feb 25 j 14:50	0°♉	
	-3217 May 20 j 09:08	15°♉	
evening set	-3217 May 25 j 09:20	16°♉05'50	
asc. node	-3217 May 28 j 03:08	16°♉42'03	
conjunction	-3217 Jun 08 j 00:36	19°♉06'39	0°01'16
minimum elong	-3217 Jun 08 j 00:35	19°♉06'39	0°01'21
behind sun begin	-3217 Jun 07 j 16:18	19°♉02'04	
behind sun end	-3217 Jun 08 j 08:53	19°♉11'13	
max. Earth dist.	-3217 Jun 08 j 10:04	19°♉11'53	6.30090 AU
morning rise	-3217 Jun 21 j 13:46	22°♉06'16	
	-3217 Jul 29 j 04:51	0°♊	
retrograde	-3217 Oct 21 j 22:01	9°♊40'11	
opposition	-3217 Dec 20 j 14:17	4°♊42'34	0°33'26
min. Earth dist.	-3217 Dec 20 j 16:25	4°♊41'51	4.34506 AU
	-3216 Feb 04 j 22:02	30°℞♉	
direct	-3216 Feb 19 j 22:35	29°♉38'56	
	-3216 Mar 06 j 00:58	0°♊	
evening set	-3216 Jun 26 j 14:48	17°♊39'50	
conjunction	-3216 Jul 09 j 22:14	20°♊34'15	0°43'15
minimum elong	-3216 Jul 09 j 22:12	20°♊34'14	0°43'21
max. Earth dist.	-3216 Jul 09 j 06:23	20°♊25'34	6.37803 AU
morning rise	-3216 Jul 23 j 02:32	23°♊27'03	
	-3216 Aug 23 j 07:21	0°♋	
retrograde	-3216 Nov 20 j 15:06	10°♋30'49	
opposition	-3215 Jan 19 j 16:53	5°♋36'41	1°26'41
min. Earth dist.	-3215 Jan 20 j 10:06	5°♋31'05	4.39777 AU
direct	-3215 Mar 22 j 23:24	0°♋33'23	
evening set	-3215 Jul 28 j 12:05	18°♋24'15	
max. Earth dist.	-3215 Aug 09 j 00:14	20°♋55'08	6.40138 AU
conjunction	-3215 Aug 10 j 10:30	21°♋13'56	1°12'12
minimum elong	-3215 Aug 10 j 10:27	21°♋13'55	1°12'19
morning rise	-3215 Aug 23 j 05:37	24°♋02'04	
	-3215 Sep 20 j 11:01	0°♌	
retrograde	-3215 Dec 21 j 13:36	11°♌01'47	
opposition	-3214 Feb 20 j 01:24	6°♌09'52	1°55'25
min. Earth dist.	-3214 Feb 21 j 05:57	6°♌00'43	4.39174 AU
direct	-3214 Apr 23 j 17:41	1°♌08'12	
	-3214 Aug 10 j 01:21	15°♌	
evening set	-3214 Aug 28 j 15:03	19°♌00'56	
max. Earth dist.	-3214 Sep 08 j 10:05	21°♌24'24	6.36518 AU
conjunction	-3214 Sep 10 j 06:31	21°♌49'06	1°20'57
minimum elong	-3214 Sep 10 j 06:31	21°♌49'06	1°21'00
morning rise	-3214 Sep 22 j 19:48	24°♌36'16	
	-3214 Oct 17 j 21:00	0°♍	
retrograde	-3213 Jan 22 j 12:51	11°♍57'36	
opposition	-3213 Mar 24 j 09:12	7°♍06'01	1°52'11
min. Earth dist.	-3213 Mar 25 j 17:08	6°♍55'51	4.32819 AU
direct	-3213 May 25 j 18:23	2°♍06'49	
evening set	-3213 Sep 28 j 17:46	20°♍12'35	
max. Earth dist.	-3213 Oct 09 j 14:56	22°♍40'25	6.27914 AU
conjunction	-3213 Oct 11 j 06:56	23°♍03'09	1°06'31
minimum elong	-3213 Oct 11 j 06:59	23°♍03'11	1°06'33
morning rise	-3213 Oct 23 j 19:01	25°♍53'26	
	-3213 Nov 11 j 06:56	0°♎	
retrograde	-3212 Feb 25 j 03:17	13°♎58'03	
opposition	-3212 Apr 26 j 04:30	9°♎05'04	1°15'18
min. Earth dist.	-3212 Apr 27 j 05:43	8°♎57'02	4.22450 AU
direct	-3212 Jun 26 j 14:59	4°♎08'48	
evening set	-3212 Oct 29 j 16:21	22°♎36'18	
max. Earth dist.	-3212 Nov 10 j 05:20	25°♎17'10	6.16711 AU

conjunction	-3212 Nov 11 j 07:24	25°♎32'21	0°31'13
minimum elong	-3212 Nov 11 j 07:26	25°♎32'22	0°31'10
morning rise	-3212 Nov 23 j 23:23	28°♎29'04	
	-3212 Nov 30 j 13:13	0°♏	
	-3211 Feb 18 j 19:59	15°♏	
retrograde	-3211 Mar 31 j 16:16	17°♏30'14	
	-3211 May 11 j 22:08	15°℞♏	
opposition	-3211 May 31 j 15:20	12°♏34'14	0°11'55
min. Earth dist.	-3211 Jun 01 j 01:14	12°♏31'01	4.11151 AU
direct	-3211 Jul 30 j 18:13	7°♏40'21	
desc. node	-3211 Aug 06 j 04:07	7°♏44'23	
	-3211 Oct 09 j 19:56	15°♏	
evening set	-3211 Dec 02 j 03:38	26°♏33'20	
conjunction	-3211 Dec 15 j 00:10	29°♏36'11	-0°15'48
minimum elong	-3211 Dec 15 j 00:08	29°♏36'10	0°15'53
behind sun begin	-3211 Dec 14 j 22:27	29°♏35'10	
behind sun end	-3211 Dec 15 j 01:50	29°♏37'10	
max. Earth dist.	-3211 Dec 14 j 23:59	29°♏36'04	6.06405 AU
	-3211 Dec 16 j 16:15	0°♐	
morning rise	-3211 Dec 27 j 22:53	2°♐40'24	
retrograde	-3210 May 07 j 17:05	22°♐34'46	
opposition	-3210 Jul 07 j 07:33	17°♐34'53	-0°58'45
min. Earth dist.	-3210 Jul 06 j 22:11	17°♐37'58	4.02800 AU
direct	-3210 Sep 04 j 03:31	12°♐41'53	
	-3210 Dec 29 j 07:29	0°♑	
evening set	-3209 Jan 06 j 11:39	1°♑55'56	
conjunction	-3209 Jan 19 j 14:58	5°♑04'15	-0°58'21
minimum elong	-3209 Jan 19 j 14:55	5°♑04'13	0°58'27
max. Earth dist.	-3209 Jan 20 j 16:38	5°♑19'36	6.00716 AU
morning rise	-3209 Feb 01 j 21:44	8°♑14'23	
retrograde	-3209 Jun 14 j 02:06	28°♑35'58	
min. Earth dist.	-3209 Aug 12 j 03:50	23°♑41'02	4.00523 AU
opposition	-3209 Aug 13 j 05:22	23°♑32'26	-1°48'53
direct	-3209 Oct 10 j 06:28	18°♑38'02	
	-3208 Jan 08 j 01:00	0°♒	
evening set	-3208 Feb 12 j 05:23	7°♒59'09	
conjunction	-3208 Feb 25 j 16:13	11°♒10'07	-1°19'18
minimum elong	-3208 Feb 25 j 16:13	11°♒10'07	1°19'22
max. Earth dist.	-3208 Feb 27 j 13:45	11°♒37'06	6.01924 AU
morning rise	-3208 Mar 10 j 05:58	14°♒22'32	
	-3208 Mar 12 j 21:52	15°♒	
	-3208 May 25 j 19:08	0°♓	
retrograde	-3208 Jul 19 j 13:55	4°♓30'02	
	-3208 Sep 12 j 22:41	30°℞♒	
min. Earth dist.	-3208 Sep 15 j 23:58	29°♒35'05	4.05194 AU
opposition	-3208 Sep 17 j 06:09	29°♒24'48	-1°57'09
direct	-3208 Nov 14 j 09:28	24°♒27'27	
	-3207 Jan 13 j 14:20	0°♓	
evening set	-3207 Mar 20 j 06:28	13°♓36'59	
conjunction	-3207 Apr 02 j 23:11	16°♓47'07	-1°10'19
minimum elong	-3207 Apr 02 j 23:14	16°♓47'09	1°10'21
max. Earth dist.	-3207 Apr 04 j 21:53	17°♓14'10	6.09553 AU
morning rise	-3207 Apr 16 j 17:37	19°♓57'55	
	-3207 Jun 02 j 04:31	0°♈	
retrograde	-3207 Aug 23 j 04:21	9°♈16'24	
opposition	-3207 Oct 21 j 15:56	4°♈12'11	-1°22'39
min. Earth dist.	-3207 Oct 20 j 14:12	4°♈20'58	4.14927 AU
	-3207 Nov 27 j 15:20	30°℞♓	
direct	-3207 Dec 19 j 14:36	29°♓11'37	
	-3206 Jan 10 j 20:22	0°♈	
evening set	-3206 Apr 25 j 11:15	17°♈56'53	
conjunction	-3206 May 09 j 05:41	21°♈03'00	-0°36'48

Attention, astronomical year style is used: The year -3206 in astronomical counting style is the year 3207 BCE in historical counting style.

minimum elong	-3206 May 09 j 05:44	21°♈03'02	0°36'45
max. Earth dist.	-3206 May 10 j 11:44	21°♈19'57	6.20627 AU
morning rise	-3206 May 22 j 23:45	24°♈08'41	
	-3206 Jun 18 j 21:15	0°♉	
retrograde	-3206 Sep 24 j 22:48	12°♉26'53	
opposition	-3206 Nov 23 j 09:49	7°♉25'52	-0°22'20
min. Earth dist.	-3206 Nov 22 j 22:15	7°♉29'45	4.26179 AU
direct	-3205 Jan 22 j 15:46	2°♉23'01	
asc. node	-3205 Apr 06 j 19:54	9°♉52'01	
	-3205 May 03 j 10:53	15°♉	
evening set	-3205 May 30 j 03:09	20°♉42'06	
conjunction	-3205 Jun 12 j 17:39	23°♉42'06	0°07'34
minimum elong	-3205 Jun 12 j 17:39	23°♉42'06	0°07'40
behind sun begin	-3205 Jun 12 j 10:13	23°♉38'01	
behind sun end	-3205 Jun 13 j 01:06	23°♉46'12	
max. Earth dist.	-3205 Jun 12 j 23:43	23°♉45'26	6.31254 AU
morning rise	-3205 Jun 26 j 05:47	26°♉40'50	
	-3205 Jul 11 j 13:45	0°♊	
retrograde	-3205 Oct 26 j 05:36	14°♊09'46	
opposition	-3205 Dec 24 j 23:26	9°♊12'42	0°41'59
min. Earth dist.	-3205 Dec 25 j 03:09	9°♊11'28	4.35349 AU
direct	-3204 Feb 24 j 09:53	4°♊09'03	
evening set	-3204 Jul 01 j 04:10	22°♊08'43	
conjunction	-3204 Jul 14 j 10:21	25°♊02'27	0°48'19
minimum elong	-3204 Jul 14 j 10:18	25°♊02'25	0°48'25
max. Earth dist.	-3204 Jul 13 j 15:21	24°♊52'02	6.38258 AU
morning rise	-3204 Jul 27 j 13:22	27°♊54'32	
	-3204 Aug 06 j 05:51	0°♋	
retrograde	-3204 Nov 25 j 00:50	14°♋57'00	
opposition	-3203 Jan 24 j 02:36	10°♋03'21	1°32'27
min. Earth dist.	-3203 Jan 24 j 22:15	9°♋56'58	4.39836 AU
direct	-3203 Mar 27 j 11:32	5°♋00'17	
evening set	-3203 Aug 01 j 22:42	22°♋51'30	
max. Earth dist.	-3203 Aug 13 j 07:08	25°♋20'38	6.39778 AU
conjunction	-3203 Aug 14 j 19:58	25°♋40'52	1°14'47
minimum elong	-3203 Aug 14 j 19:56	25°♋40'50	1°14'53
morning rise	-3203 Aug 27 j 14:09	28°♋28'45	
	-3203 Sep 03 j 14:07	0°♌	
	-3203 Dec 08 j 00:09	15°♌	
retrograde	-3203 Dec 26 j 01:04	15°♌30'42	
	-3202 Jan 13 j 02:21	15°℞♌	
opposition	-3202 Feb 24 j 13:57	10°♌38'57	1°57'00
min. Earth dist.	-3202 Feb 25 j 18:57	10°♌29'40	4.38461 AU
direct	-3202 Apr 28 j 05:12	5°♌37'37	
	-3202 Jul 23 j 03:26	15°♌	
evening set	-3202 Sep 02 j 01:04	23°♌32'04	
max. Earth dist.	-3202 Sep 12 j 21:16	25°♌56'32	6.35526 AU
conjunction	-3202 Sep 14 j 16:02	26°♌20'23	1°20'18
minimum elong	-3202 Sep 14 j 16:03	26°♌20'24	1°20'21
morning rise	-3202 Sep 27 j 04:43	29°♌07'45	
	-3202 Oct 01 j 03:16	0°♍	
retrograde	-3201 Jan 27 j 05:03	16°♍34'01	
opposition	-3201 Mar 29 j 02:21	11°♍42'24	1°48'55
min. Earth dist.	-3201 Mar 30 j 09:31	11°♍32'29	4.31620 AU
direct	-3201 May 30 j 09:05	6°♍43'42	
evening set	-3201 Oct 03 j 05:17	24°♍51'41	
max. Earth dist.	-3201 Oct 14 j 02:59	27°♍20'21	6.26612 AU
conjunction	-3201 Oct 15 j 18:18	27°♍42'46	1°02'38
minimum elong	-3201 Oct 15 j 18:21	27°♍42'48	1°02'38
	-3201 Oct 25 j 19:20	0°♎	
morning rise	-3201 Oct 28 j 06:48	0°♎33'44	
retrograde	-3200 Mar 01 j 01:08	18°♎45'00	
opposition	-3200 May 01 j 02:47	13°♎51'37	1°07'37
min. Earth dist.	-3200 May 02 j 01:52	13°♎44'14	4.21121 AU
direct	-3200 Jul 01 j 09:34	8°♎55'43	
evening set	-3200 Nov 03 j 07:05	27°♎25'31	
	-3200 Nov 14 j 08:33	0°♏	
conjunction	-3200 Nov 15 j 22:49	0°♏22'21	0°25'01
minimum elong	-3200 Nov 15 j 22:51	0°♏22'22	0°24'57
max. Earth dist.	-3200 Nov 15 j 01:15	0°♏09'45	6.15490 AU
morning rise	-3200 Nov 28 j 15:23	3°♏19'53	
	-3199 Jan 22 j 09:11	15°♏	
retrograde	-3199 Apr 05 j 18:23	22°♏27'36	
opposition	-3199 Jun 05 j 17:16	17°♏31'06	0°01'53
min. Earth dist.	-3199 Jun 06 j 00:45	17°♏28'41	4.10137 AU
desc. node	-3199 Jun 16 j 03:44	16°♏11'02	
	-3199 Jun 26 j 03:57	15°℞♏	
direct	-3199 Aug 04 j 16:26	12°♏37'28	
	-3199 Sep 12 j 12:02	15°♏	
	-3199 Nov 30 j 10:17	0°♐	
evening set	-3199 Dec 06 j 23:21	1°♐32'16	
conjunction	-3199 Dec 19 j 20:30	4°♐35'44	-0°22'23
minimum elong	-3199 Dec 19 j 20:28	4°♐35'43	0°22'29
max. Earth dist.	-3199 Dec 19 j 22:36	4°♐36'58	6.05671 AU
morning rise	-3198 Jan 01 j 20:21	7°♐40'43	
retrograde	-3198 May 12 j 20:04	27°♐39'15	
opposition	-3198 Jul 12 j 10:16	22°♐38'45	-1°07'30
min. Earth dist.	-3198 Jul 11 j 21:59	22°♐42'49	4.02430 AU
direct	-3198 Sep 09 j 03:00	17°♐45'36	
	-3198 Dec 12 j 00:46	0°♑	
evening set	-3197 Jan 11 j 11:32	7°♑00'23	
conjunction	-3197 Jan 24 j 15:57	10°♑09'07	-1°02'49
minimum elong	-3197 Jan 24 j 15:54	10°♑09'05	1°02'56
max. Earth dist.	-3197 Jan 25 j 21:45	10°♑26'55	6.00730 AU
morning rise	-3197 Feb 06 j 23:31	13°♑19'36	
	-3197 Apr 30 j 19:20	0°♒	
retrograde	-3197 Jun 19 j 04:52	3°♒40'52	
	-3197 Aug 07 j 20:34	30°℞♑	
min. Earth dist.	-3197 Aug 17 j 04:25	28°♑45'36	4.00934 AU
opposition	-3197 Aug 18 j 05:58	28°♑36'59	-1°52'44
direct	-3197 Oct 15 j 07:07	23°♑42'13	
	-3197 Dec 18 j 08:22	0°♒	
evening set	-3196 Feb 17 j 07:25	13°♒02'19	
	-3196 Feb 25 j 15:01	15°♒	
conjunction	-3196 Mar 01 j 19:04	16°♒13'19	-1°19'50
minimum elong	-3196 Mar 01 j 19:04	16°♒13'19	1°19'54
max. Earth dist.	-3196 Mar 03 j 16:51	16°♒40'22	6.02669 AU
morning rise	-3196 Mar 15 j 09:44	19°♒25'45	
	-3196 May 02 j 11:50	0°♓	
retrograde	-3196 Jul 24 j 10:05	9°♓28'14	
min. Earth dist.	-3196 Sep 20 j 19:15	4°♓33'26	4.06213 AU
opposition	-3196 Sep 22 j 01:50	4°♓23'00	-1°54'42
	-3196 Oct 31 j 21:02	30°℞♒	
direct	-3196 Nov 19 j 06:01	29°♒25'11	
	-3196 Dec 07 j 19:17	0°♓	
evening set	-3195 Mar 25 j 07:33	18°♓32'28	
conjunction	-3195 Apr 08 j 00:48	21°♓42'19	-1°06'54
minimum elong	-3195 Apr 08 j 00:52	21°♓42'21	1°06'55
max. Earth dist.	-3195 Apr 09 j 20:52	22°♓07'46	6.10765 AU
morning rise	-3195 Apr 21 j 19:33	24°♓52'40	
	-3195 May 14 j 16:18	0°♈	
retrograde	-3195 Aug 27 j 20:34	14°♈03'57	
min. Earth dist.	-3195 Oct 25 j 07:31	9°♈07'57	4.16195 AU
opposition	-3195 Oct 26 j 06:39	9°♈00'04	-1°15'23

Attention, astronomical year style is used: The year -3195 in astronomical counting style is the year 3196 BCE in historical counting style.

direct	-3195 Dec 24 j 09:46	3°♈59'05	
evening set	-3194 Apr 30 j 08:48	22°♈41'44	
conjunction	-3194 May 14 j 03:14	25°♈47'17	-0°30'57
minimum elong	-3194 May 14 j 03:16	25°♈47'18	0°30'55
max. Earth dist.	-3194 May 15 j 07:13	26°♈03'02	6.21879 AU
morning rise	-3194 May 27 j 20:47	28°♈52'14	
	-3194 Jun 01 j 22:39	0°♉	
	-3194 Aug 24 j 03:53	15°♉	
retrograde	-3194 Sep 29 j 08:48	17°♉03'46	
	-3194 Nov 04 j 09:03	15°℞♉	
opposition	-3194 Nov 27 j 20:48	12°♉03'16	-0°13'11
min. Earth dist.	-3194 Nov 27 j 10:24	12°♉06'46	4.27317 AU
direct	-3193 Jan 27 j 05:15	7°♉00'16	
asc. node	-3193 Feb 14 j 22:21	7°♉33'07	
	-3193 Apr 14 j 11:52	15°♉	
evening set	-3193 Jun 03 j 20:26	25°♉17'12	
conjunction	-3193 Jun 17 j 09:53	28°♉16'26	0°13'45
minimum elong	-3193 Jun 17 j 09:52	28°♉16'25	0°13'50
behind sun begin	-3193 Jun 17 j 05:45	28°♉14'10	
behind sun end	-3193 Jun 17 j 13:59	28°♉18'41	
max. Earth dist.	-3193 Jun 17 j 11:31	28°♉17'20	6.32204 AU
	-3193 Jun 25 j 05:42	0°♊	
morning rise	-3193 Jun 30 j 21:01	1°♊14'19	
retrograde	-3193 Oct 30 j 15:23	18°♊39'00	
opposition	-3193 Dec 29 j 08:55	13°♊42'26	0°50'14
min. Earth dist.	-3193 Dec 29 j 15:36	13°♊40'14	4.36055 AU
direct	-3192 Feb 28 j 23:51	8°♊38'47	
evening set	-3192 Jul 05 j 17:19	26°♊37'12	
conjunction	-3192 Jul 18 j 22:21	29°♊30'15	0°53'05
minimum elong	-3192 Jul 18 j 22:18	29°♊30'14	0°53'12
max. Earth dist.	-3192 Jul 18 j 01:28	29°♊18'49	6.38660 AU
	-3192 Jul 21 j 04:41	0°♋	
morning rise	-3192 Jul 31 j 23:59	2°♋21'39	
retrograde	-3192 Nov 29 j 08:01	19°♋22'45	
opposition	-3191 Jan 28 j 12:18	14°♋29'23	1°37'40
min. Earth dist.	-3191 Jan 29 j 08:33	14°♋22'50	4.39936 AU
direct	-3191 Mar 31 j 21:58	9°♋26'28	
evening set	-3191 Aug 06 j 08:55	27°♋17'31	
max. Earth dist.	-3191 Aug 17 j 15:23	29°♋45'45	6.39550 AU
	-3191 Aug 18 j 17:16	0°♌	
conjunction	-3191 Aug 19 j 05:02	0°♌06'28	1°16'54
minimum elong	-3191 Aug 19 j 05:00	0°♌06'27	1°16'59
morning rise	-3191 Aug 31 j 22:09	2°♌54'01	
	-3191 Nov 01 j 20:08	15°♌	
retrograde	-3191 Dec 30 j 12:29	19°♌57'36	
opposition	-3190 Mar 01 j 02:14	15°♌05'58	1°57'53
	-3190 Mar 01 j 20:56	15°℞♌	
min. Earth dist.	-3190 Mar 02 j 08:32	14°♌56'18	4.37903 AU
direct	-3190 May 02 j 18:19	10°♌04'58	
	-3190 Jul 01 j 16:47	15°♌	
evening set	-3190 Sep 06 j 09:55	28°♌00'12	
	-3190 Sep 15 j 09:13	0°♍	
max. Earth dist.	-3190 Sep 17 j 04:25	0°♍24'07	6.34646 AU
conjunction	-3190 Sep 19 j 00:17	0°♍48'38	1°19'11
minimum elong	-3190 Sep 19 j 00:18	0°♍48'38	1°19'14
morning rise	-3190 Oct 01 j 12:42	3°♍36'13	
retrograde	-3189 Jan 31 j 19:52	21°♍07'08	
opposition	-3189 Apr 02 j 18:37	16°♍15'18	1°44'59
min. Earth dist.	-3189 Apr 04 j 00:46	16°♍05'43	4.30450 AU
direct	-3189 Jun 03 j 22:35	11°♍16'57	
evening set	-3189 Oct 07 j 15:31	29°♍27'06	
	-3189 Oct 10 j 01:30	0°♎	

max. Earth dist.	-3189 Oct 18 j 16:14	1°♎57'55	6.25249 AU
conjunction	-3189 Oct 20 j 04:46	2°♎18'48	0°58'23
minimum elong	-3189 Oct 20 j 04:49	2°♎18'50	0°58'23
morning rise	-3189 Nov 01 j 17:24	5°♎10'27	
retrograde	-3188 Mar 05 j 22:21	23°♎28'40	
opposition	-3188 May 05 j 23:54	18°♎34'59	0°59'30
min. Earth dist.	-3188 May 06 j 21:57	18°♎27'56	4.19631 AU
direct	-3188 Jul 06 j 03:25	13°♎39'29	
	-3188 Oct 29 j 07:40	0°♏	
evening set	-3188 Nov 07 j 21:36	2°♏12'30	
conjunction	-3188 Nov 20 j 13:49	5°♏10'13	0°18'38
minimum elong	-3188 Nov 20 j 13:50	5°♏10'14	0°18'35
max. Earth dist.	-3188 Nov 19 j 17:30	4°♏58'20	6.14001 AU
morning rise	-3188 Dec 03 j 07:25	8°♏08'49	
	-3187 Jan 02 j 18:10	15°♏	
retrograde	-3187 Apr 10 j 20:21	27°♏24'19	
desc. node	-3187 Apr 26 j 03:47	27°♏02'17	
opposition	-3187 Jun 10 j 18:55	22°♏27'18	-0°08'13
min. Earth dist.	-3187 Jun 10 j 23:16	22°♏25'53	4.08763 AU
direct	-3187 Aug 09 j 13:06	17°♏33'49	
	-3187 Nov 13 j 07:51	0°♐	
evening set	-3187 Dec 11 j 19:45	6°♐32'11	
conjunction	-3187 Dec 24 j 18:00	9°♐36'35	-0°28'53
minimum elong	-3187 Dec 24 j 17:58	9°♐36'33	0°28'58
max. Earth dist.	-3187 Dec 25 j 00:51	9°♐40'40	6.04544 AU
morning rise	-3186 Jan 06 j 18:46	12°♐42'30	
	-3186 Apr 05 j 06:39	0°♑	
retrograde	-3186 May 18 j 03:21	2°♑46'51	
	-3186 Jun 30 j 02:20	30°℞♐	
opposition	-3186 Jul 17 j 14:25	27°♐45'52	-1°15'54
min. Earth dist.	-3186 Jul 17 j 00:53	27°♐50'22	4.01667 AU
direct	-3186 Sep 14 j 04:13	22°♐52'40	
	-3186 Nov 21 j 20:47	0°♑	
evening set	-3185 Jan 16 j 14:07	12°♑09'55	
conjunction	-3185 Jan 29 j 19:30	15°♑19'16	-1°06'54
minimum elong	-3185 Jan 29 j 19:27	15°♑19'14	1°07'01
max. Earth dist.	-3185 Jan 31 j 03:20	15°♑38'17	6.00378 AU
morning rise	-3185 Feb 12 j 04:18	18°♑30'23	
	-3185 Apr 05 j 08:08	0°♒	
retrograde	-3185 Jun 24 j 08:46	8°♒52'25	
min. Earth dist.	-3185 Aug 22 j 05:06	3°♒57'35	4.01064 AU
opposition	-3185 Aug 23 j 08:42	3°♒48'16	-1°55'49
	-3185 Sep 24 j 17:34	30°℞♑	
direct	-3185 Oct 20 j 07:51	28°♑53'11	
	-3185 Nov 15 j 00:22	0°♒	
	-3184 Feb 08 j 15:50	15°♒	
evening set	-3184 Feb 22 j 13:15	18°♒13'35	
conjunction	-3184 Mar 07 j 01:54	21°♒24'46	-1°19'47
minimum elong	-3184 Mar 07 j 01:55	21°♒24'46	1°19'50
max. Earth dist.	-3184 Mar 09 j 00:11	21°♒52'04	6.03258 AU
morning rise	-3184 Mar 20 j 17:23	24°♒37'16	
	-3184 Apr 13 j 06:02	0°♓	
retrograde	-3184 Jul 29 j 11:07	14°♓35'07	
min. Earth dist.	-3184 Sep 25 j 19:07	9°♓40'05	4.07192 AU
opposition	-3184 Sep 27 j 00:45	9°♓29'58	-1°51'19
direct	-3184 Nov 24 j 07:54	4°♓31'43	
evening set	-3183 Mar 30 j 12:16	23°♓36'51	
conjunction	-3183 Apr 13 j 06:12	26°♓46'24	-1°02'53
minimum elong	-3183 Apr 13 j 06:15	26°♓46'26	1°02'53
max. Earth dist.	-3183 Apr 15 j 02:36	27°♓11'57	6.12087 AU
morning rise	-3183 Apr 27 j 01:05	29°♓56'15	

Attention, astronomical year style is used: The year -3183 in astronomical counting style is the year 3184 BCE in historical counting style.

	-3183 Apr 27 j 07:39	0°♈	
retrograde	-3183 Sep 01 j 14:19	18°♈59'33	
min. Earth dist.	-3183 Oct 30 j 01:42	14°♈03'50	4.17745 AU
opposition	-3183 Oct 31 j 00:22	13°♈56'07	-1°07'23
direct	-3183 Dec 29 j 06:09	8°♈54'54	
evening set	-3182 May 05 j 09:17	27°♈33'45	
	-3182 May 16 j 06:42	0°♉	
conjunction	-3182 May 19 j 03:09	0°♉38'24	-0°24'47
minimum elong	-3182 May 19 j 03:11	0°♉38'26	0°24'43
max. Earth dist.	-3182 May 20 j 03:17	0°♉51'56	6.23568 AU
morning rise	-3182 Jun 01 j 20:13	3°♉42'23	
	-3182 Jul 27 j 02:35	15°♉	
retrograde	-3182 Oct 03 j 21:07	21°♉45'39	
opposition	-3182 Dec 02 j 09:41	16°♉45'41	-0°03'49
min. Earth dist.	-3182 Dec 02 j 01:43	16°♉48'22	4.29014 AU
	-3182 Dec 15 j 20:16	15°℞♉	
asc. node	-3182 Dec 25 j 08:47	13°♉52'55	
direct	-3181 Jan 31 j 23:38	11°♉42'31	
	-3181 Mar 20 j 11:02	15°♉	
evening set	-3181 Jun 08 j 14:23	29°♉55'09	
	-3181 Jun 08 j 23:16	0°♊	
conjunction	-3181 Jun 22 j 02:54	2°♊53'17	0°19'52
minimum elong	-3181 Jun 22 j 02:52	2°♊53'16	0°19'57
max. Earth dist.	-3181 Jun 22 j 03:10	2°♊53'26	6.33802 AU
morning rise	-3181 Jul 05 j 12:33	5°♊49'56	
retrograde	-3181 Nov 03 j 21:32	23°♊08'12	
opposition	-3180 Jan 02 j 18:07	18°♊12'08	0°58'04
min. Earth dist.	-3180 Jan 03 j 01:46	18°♊09'37	4.37451 AU
direct	-3180 Mar 04 j 12:12	13°♊08'32	
	-3180 Jul 05 j 07:46	0°♋	
evening set	-3180 Jul 10 j 04:52	1°♋03'14	
max. Earth dist.	-3180 Jul 22 j 07:52	3°♋41'51	6.39730 AU
conjunction	-3180 Jul 23 j 08:21	3°♋55'14	0°57'27
minimum elong	-3180 Jul 23 j 08:18	3°♋55'13	0°57'34
morning rise	-3180 Aug 05 j 08:43	6°♋45'39	
retrograde	-3180 Dec 03 j 14:42	23°♋43'34	
opposition	-3179 Feb 01 j 20:17	18°♋50'31	1°42'07
min. Earth dist.	-3179 Feb 02 j 19:12	18°♋43'07	4.40614 AU
direct	-3179 Apr 05 j 09:44	13°♋47'45	
	-3179 Aug 03 j 05:20	0°♌	
evening set	-3179 Aug 10 j 15:28	1°♌36'34	
max. Earth dist.	-3179 Aug 21 j 19:18	4°♌03'23	6.39754 AU
conjunction	-3179 Aug 23 j 10:35	4°♌24'59	1°18'29
minimum elong	-3179 Aug 23 j 10:33	4°♌24'59	1°18'34
morning rise	-3179 Sep 05 j 02:39	7°♌12'02	
	-3179 Oct 12 j 12:12	15°♌	
retrograde	-3178 Jan 03 j 18:13	24°♌16'15	
opposition	-3178 Mar 05 j 10:58	19°♌24'37	1°57'59
min. Earth dist.	-3178 Mar 06 j 17:23	19°♌14'55	4.37628 AU
	-3178 Apr 17 j 01:21	15°℞♌	
direct	-3178 May 07 j 02:18	14°♌23'51	
	-3178 May 27 j 06:22	15°♌	
	-3178 Aug 31 j 01:32	0°♍	
evening set	-3178 Sep 10 j 14:41	2°♍19'09	
max. Earth dist.	-3178 Sep 21 j 08:33	4°♍43'01	6.33901 AU
conjunction	-3178 Sep 23 j 04:32	5°♍07'39	1°17'37
minimum elong	-3178 Sep 23 j 04:33	5°♍07'39	1°17'41
morning rise	-3178 Oct 05 j 16:35	7°♍55'24	
retrograde	-3177 Feb 05 j 07:44	25°♍30'49	
opposition	-3177 Apr 07 j 06:55	20°♍38'50	1°40'34
min. Earth dist.	-3177 Apr 08 j 14:05	20°♍28'56	4.29251 AU
direct	-3177 Jun 08 j 09:36	15°♍40'47	
	-3177 Sep 24 j 12:13	0°♎	
evening set	-3177 Oct 11 j 21:51	3°♎53'26	
max. Earth dist.	-3177 Oct 22 j 22:06	6°♎24'32	6.23690 AU
conjunction	-3177 Oct 24 j 11:15	6°♎45'50	0°53'56
minimum elong	-3177 Oct 24 j 11:18	6°♎45'52	0°53'56
morning rise	-3177 Nov 06 j 00:29	9°♎38'22	
retrograde	-3176 Mar 10 j 15:37	28°♎04'36	
opposition	-3176 May 10 j 17:43	23°♎10'30	0°51'18
min. Earth dist.	-3176 May 11 j 13:41	23°♎04'06	4.17805 AU
direct	-3176 Jul 10 j 16:00	18°♎15'14	
	-3176 Oct 12 j 18:56	0°♏	
evening set	-3176 Nov 12 j 09:18	6°♏52'59	
max. Earth dist.	-3176 Nov 24 j 09:32	9°♏41'58	6.12082 AU
conjunction	-3176 Nov 25 j 02:22	9°♏51'51	0°12'21
minimum elong	-3176 Nov 25 j 02:22	9°♏51'51	0°12'16
behind sun begin	-3176 Nov 24 j 20:56	9°♏48'40	
behind sun end	-3176 Nov 25 j 07:49	9°♏55'02	
morning rise	-3176 Dec 07 j 20:46	12°♏51'40	
	-3176 Dec 17 j 02:04	15°♏	
desc. node	-3175 Mar 07 j 21:13	29°♏58'20	
	-3175 Mar 08 j 03:05	0°♐	
retrograde	-3175 Apr 15 j 23:25	2°♐16'50	
	-3175 May 24 j 23:45	30°℞♏	
opposition	-3175 Jun 15 j 18:50	27°♏19'18	-0°18'02
min. Earth dist.	-3175 Jun 15 j 22:00	27°♏18'16	4.06909 AU
direct	-3175 Aug 14 j 08:45	22°♏25'57	
	-3175 Oct 25 j 03:12	0°♐	
evening set	-3175 Dec 16 j 15:43	11°♐29'54	
conjunction	-3175 Dec 29 j 14:56	14°♐35'28	-0°35'02
minimum elong	-3175 Dec 29 j 14:53	14°♐35'26	0°35'07
max. Earth dist.	-3175 Dec 30 j 00:18	14°♐41'04	6.02925 AU
morning rise	-3174 Jan 11 j 17:04	17°♐42'41	
	-3174 Mar 09 j 02:28	0°♑	
retrograde	-3174 May 23 j 08:21	7°♑54'30	
opposition	-3174 Jul 22 j 18:06	2°♑53'00	-1°23'37
min. Earth dist.	-3174 Jul 22 j 01:15	2°♑58'36	4.00486 AU
	-3174 Aug 14 j 23:35	30°℞♐	
direct	-3174 Sep 19 j 02:58	27°♐59'40	
	-3174 Oct 23 j 23:40	0°♑	
evening set	-3173 Jan 21 j 17:45	17°♑21'04	
conjunction	-3173 Feb 04 j 00:20	20°♑31'13	-1°10'24
minimum elong	-3173 Feb 04 j 00:18	20°♑31'12	1°10'29
max. Earth dist.	-3173 Feb 05 j 11:31	20°♑52'16	5.99729 AU
morning rise	-3173 Feb 17 j 10:16	23°♑43'07	
	-3173 Mar 16 j 15:39	0°♒	
retrograde	-3173 Jun 29 j 15:13	14°♒06'45	
min. Earth dist.	-3173 Aug 27 j 08:04	9°♒11'54	4.01026 AU
opposition	-3173 Aug 28 j 12:38	9°♒02'12	-1°57'54
direct	-3173 Oct 25 j 12:04	4°♒06'42	
	-3172 Jan 21 j 04:53	15°♒	
evening set	-3172 Feb 27 j 20:34	23°♒27'38	
conjunction	-3172 Mar 12 j 10:20	26°♒39'02	-1°19'01
minimum elong	-3172 Mar 12 j 10:21	26°♒39'03	1°19'05
max. Earth dist.	-3172 Mar 14 j 11:42	27°♒08'04	6.03829 AU
morning rise	-3172 Mar 26 j 02:35	29°♒51'35	
	-3172 Mar 26 j 17:01	0°♓	
retrograde	-3172 Aug 03 j 12:13	19°♓44'05	
min. Earth dist.	-3172 Sep 30 j 18:31	14°♓49'12	4.08295 AU
opposition	-3172 Oct 02 j 00:36	14°♓38'56	-1°46'58
direct	-3172 Nov 29 j 09:13	9°♓40'13	
evening set	-3171 Apr 04 j 18:09	28°♓42'20	
	-3171 Apr 10 j 10:04	0°♈	

Attention, astronomical year style is used: The year -3171 in astronomical counting style is the year 3172 BCE in historical counting style.

conjunction	-3171 Apr 18 j 12:16	1°♈51'20	-0°58'20
minimum elong	-3171 Apr 18 j 12:20	1°♈51'22	0°58'20
max. Earth dist.	-3171 Apr 20 j 06:14	2°♈15'24	6.13595 AU
morning rise	-3171 May 02 j 07:24	5°♈00'34	
retrograde	-3171 Sep 06 j 07:21	23°♈54'53	
opposition	-3171 Nov 04 j 18:13	18°♈51'44	-0°58'52
min. Earth dist.	-3171 Nov 03 j 21:06	18°♈58'54	4.19453 AU
direct	-3170 Jan 03 j 04:40	13°♈50'04	
	-3170 Apr 29 j 11:10	0°♉	
evening set	-3170 May 10 j 09:23	2°♉24'25	
conjunction	-3170 May 24 j 02:57	5°♉28'09	-0°18'25
minimum elong	-3170 May 24 j 02:58	5°♉28'10	0°18'21
max. Earth dist.	-3170 May 25 j 01:25	5°♉40'42	6.25329 AU
morning rise	-3170 Jun 06 j 19:02	8°♉31'00	
	-3170 Jul 07 j 00:28	15°♉	
retrograde	-3170 Oct 08 j 08:34	26°♉25'58	
asc. node	-3170 Nov 03 j 01:35	25°♉21'27	
opposition	-3170 Dec 06 j 22:27	21°♉26'34	0°05'37
min. Earth dist.	-3170 Dec 06 j 16:18	21°♉28'37	4.30640 AU
direct	-3169 Feb 05 j 16:50	16°♉23'17	
	-3169 May 23 j 02:56	0°♊	
evening set	-3169 Jun 13 j 08:01	4°♊31'58	
conjunction	-3169 Jun 26 j 19:11	7°♊29'02	0°25'56
minimum elong	-3169 Jun 26 j 19:09	7°♊29'00	0°26'01
max. Earth dist.	-3169 Jun 26 j 14:29	7°♊26'27	6.35139 AU
morning rise	-3169 Jul 10 j 03:43	10°♊24'38	
retrograde	-3169 Nov 08 j 06:31	27°♊37'55	
opposition	-3168 Jan 07 j 04:15	22°♊42'20	1°05'43
min. Earth dist.	-3168 Jan 07 j 14:51	22°♊38'51	4.38416 AU
direct	-3168 Mar 09 j 02:43	17°♊38'45	
	-3168 Jun 18 j 12:17	0°♋	
evening set	-3168 Jul 14 j 17:09	5°♋31'22	
conjunction	-3168 Jul 27 j 19:29	8°♋22'39	1°01'36
minimum elong	-3168 Jul 27 j 19:26	8°♋22'38	1°01'42
max. Earth dist.	-3168 Jul 26 j 17:24	8°♋08'24	6.40236 AU
morning rise	-3168 Aug 09 j 18:20	11°♋12'18	
retrograde	-3168 Dec 07 j 22:08	28°♋09'12	
opposition	-3167 Feb 06 j 06:23	23°♋16'29	1°46'14
min. Earth dist.	-3167 Feb 07 j 06:11	23°♋08'49	4.40653 AU
direct	-3167 Apr 09 j 20:35	18°♋13'59	
	-3167 Jul 17 j 10:15	0°♌	
evening set	-3167 Aug 15 j 00:59	6°♌02'51	
max. Earth dist.	-3167 Aug 26 j 01:12	8°♌27'59	6.39306 AU
conjunction	-3167 Aug 27 j 18:58	8°♌51'01	1°19'45
minimum elong	-3167 Aug 27 j 18:57	8°♌51'00	1°19'50
morning rise	-3167 Sep 09 j 10:18	11°♌37'55	
	-3167 Sep 25 j 00:04	15°♌	
retrograde	-3166 Jan 08 j 07:21	28°♌45'07	
opposition	-3166 Mar 10 j 00:23	23°♌53'36	1°57'34
min. Earth dist.	-3166 Mar 11 j 08:35	23°♌43'21	4.36718 AU
direct	-3166 May 11 j 16:00	18°♌53'11	
	-3166 Aug 14 j 00:28	0°♍	
evening set	-3166 Sep 14 j 23:56	6°♍50'31	
max. Earth dist.	-3166 Sep 25 j 17:28	9°♍14'39	6.32597 AU
conjunction	-3166 Sep 27 j 13:33	9°♍39'25	1°15'36
minimum elong	-3166 Sep 27 j 13:35	9°♍39'26	1°15'37
morning rise	-3166 Oct 10 j 01:28	12°♍27'40	
	-3165 Jan 30 j 22:11	0°♎	
retrograde	-3165 Feb 10 j 00:41	0°♎09'37	
	-3165 Feb 20 j 04:38	30°℞♍	
opposition	-3165 Apr 12 j 01:31	25°♍17'28	1°35'21
min. Earth dist.	-3165 Apr 13 j 06:59	25°♍08'06	4.27637 AU
direct	-3165 Jun 12 j 23:54	20°♍19'51	
	-3165 Sep 06 j 14:42	0°♎	
evening set	-3165 Oct 16 j 10:30	8°♎36'16	
max. Earth dist.	-3165 Oct 27 j 13:45	11°♎09'41	6.21918 AU
conjunction	-3165 Oct 29 j 00:12	11°♎29'32	0°48'54
minimum elong	-3165 Oct 29 j 00:15	11°♎29'34	0°48'53
morning rise	-3165 Nov 10 j 13:55	14°♎23'03	
	-3164 Jan 31 j 00:51	0°♏	
retrograde	-3164 Mar 15 j 18:40	2°♏58'05	
	-3164 Apr 30 j 04:58	30°℞♎	
opposition	-3164 May 15 j 18:40	28°♎03'39	0°42'12
min. Earth dist.	-3164 May 16 j 13:32	27°♎57'36	4.15989 AU
direct	-3164 Jul 15 j 13:11	23°♎08'46	
	-3164 Sep 22 j 14:58	0°♏	
evening set	-3164 Nov 17 j 03:56	11°♏51'02	
conjunction	-3164 Nov 29 j 21:45	14°♏50'58	0°05'35
minimum elong	-3164 Nov 29 j 21:46	14°♏50'58	0°05'30
behind sun begin	-3164 Nov 29 j 14:01	14°♏46'25	
behind sun end	-3164 Nov 30 j 05:31	14°♏55'31	
max. Earth dist.	-3164 Nov 29 j 07:52	14°♏42'48	6.10414 AU
	-3164 Nov 30 j 13:05	15°♏	
morning rise	-3164 Dec 12 j 17:18	17°♏52'00	
desc. node	-3163 Jan 14 j 18:26	25°♏19'40	
	-3163 Feb 07 j 06:05	0°♐	
retrograde	-3163 Apr 21 j 05:45	7°♐25'32	
opposition	-3163 Jun 21 j 00:43	2°♐27'29	-0°28'19
min. Earth dist.	-3163 Jun 20 j 23:51	2°♐27'46	4.05574 AU
	-3163 Jul 10 j 18:37	30°℞♏	
direct	-3163 Aug 19 j 08:19	27°♏34'22	
	-3163 Sep 27 j 07:27	0°♐	
evening set	-3163 Dec 21 j 17:12	16°♐41'50	
conjunction	-3162 Jan 03 j 17:26	19°♐48'13	-0°41'14
minimum elong	-3162 Jan 03 j 17:23	19°♐48'11	0°41'20
max. Earth dist.	-3162 Jan 04 j 07:28	19°♐56'36	6.02057 AU
morning rise	-3162 Jan 16 j 20:39	22°♐56'17	
	-3162 Feb 16 j 14:23	0°♑	
retrograde	-3162 May 28 j 17:28	13°♑12'14	
min. Earth dist.	-3162 Jul 27 j 06:21	8°♑16'31	4.00205 AU
opposition	-3162 Jul 28 j 01:21	8°♑10'10	-1°30'57
direct	-3162 Sep 24 j 08:46	3°♑16'38	
evening set	-3161 Jan 27 j 00:03	22°♑38'37	
conjunction	-3161 Feb 09 j 07:44	25°♑49'05	-1°13'27
minimum elong	-3161 Feb 09 j 07:41	25°♑49'03	1°13'32
max. Earth dist.	-3161 Feb 10 j 23:12	26°♑12'37	6.00056 AU
morning rise	-3161 Feb 22 j 18:35	29°♑01'12	
	-3161 Feb 26 j 22:14	0°♒	
	-3161 May 11 j 21:18	15°♒	
retrograde	-3161 Jul 04 j 20:30	19°♒21'50	
	-3161 Aug 28 j 09:04	15°℞♒	
min. Earth dist.	-3161 Sep 01 j 10:17	14°♒27'08	4.01953 AU
opposition	-3161 Sep 02 j 16:04	14°♒17'02	-1°59'03
direct	-3161 Oct 30 j 15:22	9°♒21'07	
	-3161 Dec 30 j 03:09	15°♒	
evening set	-3160 Mar 04 j 03:10	28°♒39'10	
	-3160 Mar 09 j 21:29	0°♓	
conjunction	-3160 Mar 17 j 17:32	1°♓50'13	-1°17'42
minimum elong	-3160 Mar 17 j 17:34	1°♓50'14	1°17'45
max. Earth dist.	-3160 Mar 19 j 17:46	2°♓18'29	6.05235 AU
morning rise	-3160 Mar 31 j 10:32	5°♓02'23	
retrograde	-3160 Aug 08 j 07:54	24°♓46'24	
opposition	-3160 Oct 06 j 21:14	19°♓41'19	-1°41'56
min. Earth dist.	-3160 Oct 05 j 15:43	19°♓51'24	4.10014 AU

Attention, astronomical year style is used: The year -3160 in astronomical counting style is the year 3161 BCE in historical counting style.

direct	-3160 Dec 04 j 09:10	14°♓42'04	
	-3159 Mar 24 j 12:54	0°♈	
evening set	-3159 Apr 09 j 20:12	3°♈39'20	
conjunction	-3159 Apr 23 j 14:41	6°♈47'37	-0°53'31
minimum elong	-3159 Apr 23 j 14:45	6°♈47'39	0°53'31
max. Earth dist.	-3159 Apr 25 j 07:16	7°♈10'47	6.15491 AU
morning rise	-3159 May 07 j 09:33	9°♈55'55	
retrograde	-3159 Sep 10 j 21:39	28°♈40'29	
opposition	-3159 Nov 09 j 08:13	23°♈37'48	-0°50'16
min. Earth dist.	-3159 Nov 08 j 13:29	23°♈44'09	4.21317 AU
direct	-3158 Jan 07 j 23:48	18°♈35'49	
	-3158 Apr 12 j 00:25	0°♉	
evening set	-3158 May 15 j 05:21	7°♉05'27	
conjunction	-3158 May 28 j 22:11	10°♉08'13	-0°12'09
minimum elong	-3158 May 28 j 22:12	10°♉08'13	0°12'05
behind sun begin	-3158 May 28 j 16:41	10°♉05'10	
behind sun end	-3158 May 29 j 03:43	10°♉11'17	
max. Earth dist.	-3158 May 29 j 15:43	10°♉17'58	6.27004 AU
morning rise	-3158 Jun 11 j 13:34	13°♉10'01	
	-3158 Jun 19 j 21:51	15°♉	
asc. node	-3158 Sep 13 j 04:36	29°♉34'32	
	-3158 Sep 18 j 06:12	0°♊	
retrograde	-3158 Oct 12 j 16:23	0°♊57'36	
	-3158 Nov 05 j 23:56	30°℞♉	
opposition	-3158 Dec 11 j 07:44	25°♉58'43	0°14'40
min. Earth dist.	-3158 Dec 11 j 04:10	25°♉59'54	4.32003 AU
direct	-3157 Feb 10 j 06:33	20°♉55'13	
	-3157 May 05 j 01:01	0°♊	
evening set	-3157 Jun 17 j 22:15	9°♊01'07	
conjunction	-3157 Jul 01 j 08:24	11°♊57'20	0°31'40
minimum elong	-3157 Jul 01 j 08:22	11°♊57'18	0°31'46
max. Earth dist.	-3157 Jul 01 j 00:44	11°♊53'07	6.36095 AU
morning rise	-3157 Jul 14 j 15:30	14°♊51'59	
	-3157 Oct 07 j 08:05	0°♋	
retrograde	-3157 Nov 12 j 13:12	2°♋01'48	
	-3157 Dec 18 j 19:52	30°℞♊	
opposition	-3156 Jan 11 j 12:06	27°♊06'43	1°12'48
min. Earth dist.	-3156 Jan 12 j 00:55	27°♊02'31	4.38918 AU
direct	-3156 Mar 13 j 13:24	22°♊03'13	
	-3156 May 30 j 23:24	0°♋	
evening set	-3156 Jul 19 j 03:36	9°♋55'16	
max. Earth dist.	-3156 Jul 30 j 22:01	12°♋29'19	6.40221 AU
conjunction	-3156 Aug 01 j 04:35	12°♋46'02	1°05'20
minimum elong	-3156 Aug 01 j 04:32	12°♋46'00	1°05'25
morning rise	-3156 Aug 14 j 02:27	15°♋35'14	
	-3156 Nov 01 j 06:52	0°♌	
retrograde	-3156 Dec 12 j 07:44	2°♌32'56	
	-3155 Jan 22 j 18:46	30°℞♋	
opposition	-3155 Feb 10 j 16:19	27°♋40'29	1°49'43
min. Earth dist.	-3155 Feb 11 j 18:23	27°♋32'06	4.40157 AU
direct	-3155 Apr 14 j 07:47	22°♋38'10	
	-3155 Jun 28 j 11:33	0°♌	
evening set	-3155 Aug 19 j 09:57	10°♌28'37	
max. Earth dist.	-3155 Aug 30 j 09:32	12°♌53'45	6.38361 AU
conjunction	-3155 Sep 01 j 03:17	13°♌16'50	1°20'32
minimum elong	-3155 Sep 01 j 03:17	13°♌16'50	1°20'37
	-3155 Sep 08 j 21:56	15°♌	
morning rise	-3155 Sep 13 j 17:46	16°♌03'48	
	-3155 Nov 26 j 22:46	0°♍	
retrograde	-3154 Jan 12 j 19:51	3°♍15'33	
	-3154 Mar 01 j 19:26	30°℞♌	
opposition	-3154 Mar 14 j 14:42	28°♌24'05	1°56'26
min. Earth dist.	-3154 Mar 15 j 22:18	28°♌14'02	4.35406 AU
direct	-3154 May 16 j 03:39	23°♌24'05	
	-3154 Jul 25 j 05:54	0°♍	
evening set	-3154 Sep 19 j 10:34	11°♍24'34	
max. Earth dist.	-3154 Sep 30 j 04:13	13°♍49'23	6.31026 AU
conjunction	-3154 Oct 01 j 23:50	14°♍13'59	1°13'03
minimum elong	-3154 Oct 01 j 23:52	14°♍14'00	1°13'05
morning rise	-3154 Oct 14 j 11:51	17°♍02'54	
	-3154 Dec 18 j 16:25	0°♎	
retrograde	-3153 Feb 14 j 22:19	4°♎52'11	
opposition	-3153 Apr 16 j 22:10	29°♍59'50	1°29'24
	-3153 Apr 16 j 21:37	30°℞♍	
min. Earth dist.	-3153 Apr 18 j 03:10	29°♍50'36	4.25903 AU
direct	-3153 Jun 17 j 17:47	25°♍02'37	
	-3153 Aug 15 j 16:08	0°♎	
evening set	-3153 Oct 21 j 00:46	13°♎22'52	
max. Earth dist.	-3153 Nov 01 j 07:23	15°♎58'49	6.20188 AU
conjunction	-3153 Nov 02 j 14:58	16°♎17'04	0°43'26
minimum elong	-3153 Nov 02 j 15:01	16°♎17'06	0°43'25
morning rise	-3153 Nov 15 j 05:19	19°♎11'36	
	-3152 Jan 04 j 22:33	0°♏	
retrograde	-3152 Mar 20 j 20:42	7°♏55'01	
opposition	-3152 May 20 j 21:14	3°♏00'07	0°32'38
min. Earth dist.	-3152 May 21 j 12:30	2°♏55'12	4.14403 AU
	-3152 Jun 15 j 01:03	30°℞♎	
direct	-3152 Jul 20 j 09:43	28°♎05'37	
	-3152 Aug 24 j 09:00	0°♏	
	-3152 Nov 14 j 00:50	15°♏	
evening set	-3152 Nov 21 j 23:49	16°♏51'19	
desc. node	-3152 Nov 23 j 07:55	17°♏10'10	
conjunction	-3152 Dec 04 j 18:20	19°♏52'08	-0°01'25
minimum elong	-3152 Dec 04 j 18:21	19°♏52'08	0°01'30
behind sun begin	-3152 Dec 04 j 10:17	19°♏47'24	
behind sun end	-3152 Dec 05 j 02:25	19°♏56'53	
max. Earth dist.	-3152 Dec 04 j 08:42	19°♏46'27	6.09110 AU
morning rise	-3152 Dec 17 j 14:51	22°♏54'11	
	-3151 Jan 17 j 21:21	0°♐	
retrograde	-3151 Apr 26 j 13:15	12°♐34'30	
opposition	-3151 Jun 26 j 06:51	7°♐35'50	-0°38'26
min. Earth dist.	-3151 Jun 26 j 03:29	7°♐36'57	4.04664 AU
direct	-3151 Aug 24 j 11:31	2°♐42'46	
evening set	-3151 Dec 26 j 18:43	21°♐52'13	
conjunction	-3150 Jan 08 j 19:59	24°♐59'13	-0°47'07
minimum elong	-3150 Jan 08 j 19:56	24°♐59'11	0°47'13
max. Earth dist.	-3150 Jan 09 j 14:53	25°♐10'32	6.01609 AU
morning rise	-3150 Jan 22 j 00:12	28°♐07'56	
	-3150 Jan 29 j 22:07	0°♑	
retrograde	-3150 Jun 03 j 00:49	18°♑25'54	
min. Earth dist.	-3150 Aug 01 j 09:38	13°♑30'28	4.00297 AU
opposition	-3150 Aug 02 j 06:44	13°♑23'25	-1°37'29
direct	-3150 Sep 29 j 11:48	8°♑29'42	
evening set	-3149 Feb 01 j 05:06	27°♑51'17	
	-3149 Feb 10 j 05:43	0°♒	
conjunction	-3149 Feb 14 j 13:35	1°♒01'52	-1°15'54
minimum elong	-3149 Feb 14 j 13:33	1°♒01'51	1°16'00
max. Earth dist.	-3149 Feb 16 j 05:54	1°♒25'52	6.00634 AU
morning rise	-3149 Feb 28 j 01:31	4°♒14'08	
	-3149 Apr 17 j 16:59	15°♒	
retrograde	-3149 Jul 09 j 21:16	24°♒30'59	
min. Earth dist.	-3149 Sep 06 j 10:22	19°♒36'25	4.02968 AU
opposition	-3149 Sep 07 j 17:02	19°♒25'59	-1°59'18
	-3149 Oct 18 j 14:19	15°℞♒	

Attention, astronomical year style is used: The year -3149 in astronomical counting style is the year 3150 BCE in historical counting style.

direct	-3149 Nov 04 j 16:56	14°♒29'38		
	-3149 Nov 21 j 22:02	15°♒		
	-3148 Feb 21 j 23:29	0°♓		
evening set	-3148 Mar 09 j 07:31	3°♓44'56		
conjunction	-3148 Mar 22 j 22:48	6°♓55'44	-1°15'51	
minimum elong	-3148 Mar 22 j 22:50	6°♓55'46	1°15'53	
max. Earth dist.	-3148 Mar 24 j 23:39	7°♓24'16	6.06605 AU	
morning rise	-3148 Apr 05 j 16:09	10°♓07'27		
retrograde	-3148 Aug 13 j 04:14	29°♓43'35		
opposition	-3148 Oct 11 j 16:04	24°♓38'46	-1°36'19	
min. Earth dist.	-3148 Oct 10 j 12:21	24°♓48'14	4.11582 AU	
direct	-3148 Dec 09 j 07:41	19°♓39'09		
	-3147 Mar 06 j 09:05	0°♈		
evening set	-3147 Apr 14 j 20:58	8°♈32'29		
conjunction	-3147 Apr 28 j 15:29	11°♈40'07	-0°48'25	
minimum elong	-3147 Apr 28 j 15:33	11°♈40'09	0°48'24	
max. Earth dist.	-3147 Apr 30 j 04:47	12°♈01'19	6.17131 AU	
morning rise	-3147 May 12 j 10:18	14°♈47'39		
	-3147 Jul 30 j 08:31	0°♉		
retrograde	-3147 Sep 15 j 09:31	3°♉23'44		
	-3147 Nov 01 j 12:48	30°℞♈		
opposition	-3147 Nov 13 j 21:08	28°♈21'34	-0°41'28	
min. Earth dist.	-3147 Nov 13 j 03:54	28°♈27'24	4.22880 AU	
direct	-3146 Jan 12 j 16:31	23°♈19'17		
	-3146 Mar 22 j 20:24	0°♉		
evening set	-3146 May 20 j 00:48	11°♉45'33		
conjunction	-3146 Jun 02 j 17:01	14°♉47'29	-0°05'52	
minimum elong	-3146 Jun 02 j 17:02	14°♉47'29	0°05'48	
behind sun begin	-3146 Jun 02 j 09:07	14°♉43'06		
behind sun end	-3146 Jun 03 j 00:57	14°♉51'52		
max. Earth dist.	-3146 Jun 03 j 06:48	14°♉55'07	6.28390 AU	
	-3146 Jun 03 j 15:34	15°♉		
morning rise	-3146 Jun 16 j 07:27	17°♉48'20		
asc. node	-3146 Jul 24 j 01:46	25°♉45'09		
	-3146 Aug 16 j 16:19	0°♊		
retrograde	-3146 Oct 17 j 02:27	5°♊29'47		
opposition	-3146 Dec 15 j 17:26	0°♊31'31	0°23'38	
min. Earth dist.	-3146 Dec 15 j 16:51	0°♊31'43	4.33100 AU	
	-3146 Dec 19 j 16:25	30°℞♉		
direct	-3145 Feb 14 j 20:50	25°♉27'58		
	-3145 Apr 12 j 16:49	0°♊		
evening set	-3145 Jun 22 j 12:41	13°♊31'51		
conjunction	-3145 Jul 05 j 21:38	16°♊27'18	0°37'14	
minimum elong	-3145 Jul 05 j 21:35	16°♊27'17	0°37'20	
max. Earth dist.	-3145 Jul 05 j 09:43	16°♊20'47	6.36805 AU	
morning rise	-3145 Jul 19 j 03:33	19°♊21'11		
	-3145 Sep 10 j 07:44	0°♋		
retrograde	-3145 Nov 16 j 21:06	6°♋28'29		
opposition	-3144 Jan 15 j 21:12	1°♋33'51	1°19'34	
min. Earth dist.	-3144 Jan 16 j 11:58	1°♋29'02	4.39228 AU	
	-3144 Jan 28 j 01:58	30°℞♊		
direct	-3144 Mar 18 j 00:27	26°♊30'26		
	-3144 May 06 j 23:37	0°♋		
evening set	-3144 Jul 23 j 14:44	14°♋22'22		
max. Earth dist.	-3144 Aug 04 j 06:56	16°♋55'20	6.40106 AU	
conjunction	-3144 Aug 05 j 14:36	17°♋12'41	1°08'44	
minimum elong	-3144 Aug 05 j 14:33	17°♋12'40	1°08'50	
morning rise	-3144 Aug 18 j 11:09	20°♋01'25		
	-3144 Oct 06 j 20:38	0°♌		
retrograde	-3144 Dec 16 j 17:35	7°♌00'15		
opposition	-3143 Feb 15 j 03:28	2°♌08'06	1°52'38	
min. Earth dist.	-3143 Feb 16 j 06:34	1°♌59'25	4.39650 AU	
	-3143 Mar 04 j 07:58	30°℞♋		
direct	-3143 Apr 18 j 19:08	27°♋06'08		
	-3143 Jun 03 j 02:46	0°♌		
evening set	-3143 Aug 23 j 19:58	14°♌57'59		
	-3143 Aug 23 j 23:39	15°♌		
max. Earth dist.	-3143 Sep 03 j 16:46	17°♌22'00	6.37495 AU	
conjunction	-3143 Sep 05 j 12:22	17°♌46'10	1°20'53	
minimum elong	-3143 Sep 05 j 12:21	17°♌46'10	1°20'57	
morning rise	-3143 Sep 18 j 02:23	20°♌33'15		
	-3143 Nov 02 j 21:36	0°♍		
retrograde	-3142 Jan 17 j 11:26	7°♍49'19		
opposition	-3142 Mar 19 j 06:24	2°♍57'50	1°54'38	
min. Earth dist.	-3142 Mar 20 j 14:15	2°♍47'42	4.34254 AU	
	-3142 Apr 13 j 05:55	30°℞♌		
direct	-3142 May 20 j 17:50	27°♌58'12		
	-3142 Jun 27 j 01:39	0°♍		
evening set	-3142 Sep 23 j 21:17	16°♍00'59		
max. Earth dist.	-3142 Oct 04 j 17:31	18°♍27'40	6.29706 AU	
conjunction	-3142 Oct 06 j 10:33	18°♍50'53	1°10'06	
minimum elong	-3142 Oct 06 j 10:36	18°♍50'55	1°10'07	
morning rise	-3142 Oct 18 j 22:28	21°♍40'21		
	-3142 Nov 26 j 20:36	0°♎		
retrograde	-3141 Feb 19 j 17:57	9°♎36'04		
opposition	-3141 Apr 21 j 19:03	4°♎43'26	1°22'54	
min. Earth dist.	-3141 Apr 22 j 21:46	4°♎34'55	4.24504 AU	
	-3141 Jun 10 j 11:21	30°℞♍		
direct	-3141 Jun 22 j 10:19	29°♍46'41		
	-3141 Jul 04 j 09:50	0°♎		
evening set	-3141 Oct 25 j 14:49	18°♎09'27		
max. Earth dist.	-3141 Nov 06 j 00:05	20°♎47'26	6.18840 AU	
conjunction	-3141 Nov 07 j 05:15	21°♎04'21	0°37'46	
minimum elong	-3141 Nov 07 j 05:18	21°♎04'22	0°37'43	
morning rise	-3141 Nov 19 j 20:19	23°♎59'44		
	-3141 Dec 16 j 15:14	0°♏		
retrograde	-3140 Mar 25 j 22:34	12°♏50'08		
opposition	-3140 May 25 j 22:39	7°♏54'42	0°22'58	
min. Earth dist.	-3140 May 26 j 11:39	7°♏50'30	4.13189 AU	
direct	-3140 Jul 25 j 07:40	3°♏00'27		
desc. node	-3140 Oct 03 j 00:22	10°♏02'07		
	-3140 Oct 27 j 19:18	15°♏		
evening set	-3140 Nov 26 j 18:22	21°♏48'19		
conjunction	-3140 Dec 09 j 13:47	24°♏49'54	-0°08'10	
minimum elong	-3140 Dec 09 j 13:46	24°♏49'54	0°08'15	
behind sun begin	-3140 Dec 09 j 06:37	24°♏45'41		
behind sun end	-3140 Dec 09 j 20:56	24°♏54'07		
max. Earth dist.	-3140 Dec 09 j 08:46	24°♏46'57	6.08154 AU	
morning rise	-3140 Dec 22 j 11:09	27°♏52'45		
	-3140 Dec 31 j 13:01	0°♐		
retrograde	-3139 May 01 j 17:38	17°♐38'13		
opposition	-3139 Jul 01 j 10:19	12°♐39'00	-0°48'00	
min. Earth dist.	-3139 Jul 01 j 04:20	12°♐40'58	4.04069 AU	
direct	-3139 Aug 29 j 11:17	7°♐45'58		
evening set	-3139 Dec 31 j 18:05	26°♐56'26		
conjunction	-3138 Jan 13 j 20:05	0°♑03'52	-0°52'29	
minimum elong	-3138 Jan 13 j 20:02	0°♑03'51	0°52'35	
	-3138 Jan 13 j 13:36	0°♑		
max. Earth dist.	-3138 Jan 14 j 17:01	0°♑16'23	6.01396 AU	
morning rise	-3138 Jan 27 j 01:26	3°♑13'06		
retrograde	-3138 Jun 08 j 03:13	23°♑32'10		
min. Earth dist.	-3138 Aug 06 j 09:34	18°♑36'56	4.00503 AU	
opposition	-3138 Aug 07 j 08:43	18°♑29'09	-1°43'03	
direct	-3138 Oct 04 j 12:03	13°♑35'06		

Attention, astronomical year style is used: The year -3137 in astronomical counting style is the year 3138 BCE in historical counting style.

	-3137 Jan 24 j 18:31	0°♒	
evening set	-3137 Feb 06 j 07:10	2°♒56'03	
conjunction	-3137 Feb 19 j 16:45	6°♒06'47	-1°17'42
minimum elong	-3137 Feb 19 j 16:44	6°♒06'46	1°17'48
max. Earth dist.	-3137 Feb 21 j 11:48	6°♒32'22	6.01231 AU
morning rise	-3137 Mar 05 j 05:21	9°♒19'04	
	-3137 Mar 29 j 22:15	15°♒	
retrograde	-3137 Jul 14 j 21:05	29°♒31'58	
min. Earth dist.	-3137 Sep 11 j 08:55	24°♒37'00	4.03896 AU
opposition	-3137 Sep 12 j 14:39	24°♒26'52	-1°58'40
direct	-3137 Nov 09 j 16:15	19°♒30'05	
	-3136 Feb 04 j 01:06	0°♓	
evening set	-3136 Mar 14 j 09:24	8°♓43'09	
conjunction	-3136 Mar 28 j 01:19	11°♓53'44	-1°13'30
minimum elong	-3136 Mar 28 j 01:22	11°♓53'46	1°13'32
max. Earth dist.	-3136 Mar 30 j 00:37	12°♓21'15	6.07772 AU
morning rise	-3136 Apr 10 j 19:18	15°♓05'09	
	-3136 Jun 23 j 17:13	0°♈	
retrograde	-3136 Aug 17 j 20:08	4°♈34'07	
	-3136 Oct 12 j 14:50	30°℞♓	
min. Earth dist.	-3136 Oct 15 j 04:54	29°♓38'52	4.12875 AU
opposition	-3136 Oct 16 j 08:07	29°♓29'34	-1°30'13
direct	-3136 Dec 14 j 02:06	24°♓29'32	
	-3135 Feb 13 j 00:42	0°♈	
evening set	-3135 Apr 19 j 19:41	13°♈20'05	
conjunction	-3135 May 03 j 14:18	16°♈27'11	-0°43'06
minimum elong	-3135 May 03 j 14:21	16°♈27'13	0°43'04
max. Earth dist.	-3135 May 05 j 00:03	16°♈46'20	6.18468 AU
morning rise	-3135 May 17 j 08:53	19°♈34'03	
	-3135 Jul 06 j 03:12	0°♉	
retrograde	-3135 Sep 19 j 22:45	8°♉03'02	
opposition	-3135 Nov 18 j 09:06	3°♉01'22	-0°32'34
min. Earth dist.	-3135 Nov 17 j 18:50	3°♉06'11	4.24126 AU
	-3135 Dec 12 j 12:02	30°℞♈	
direct	-3134 Jan 17 j 09:21	27°♈58'51	
	-3134 Feb 22 j 16:30	0°♉	
	-3134 May 18 j 12:15	15°♉	
evening set	-3134 May 24 j 19:08	16°♉22'43	
asc. node	-3134 Jun 03 j 07:29	18°♉28'55	
conjunction	-3134 Jun 07 j 10:43	19°♉23'56	0°00'29
minimum elong	-3134 Jun 07 j 10:43	19°♉23'55	0°00'34
behind sun begin	-3134 Jun 07 j 02:26	19°♉19'21	
behind sun end	-3134 Jun 07 j 19:00	19°♉28'30	
max. Earth dist.	-3134 Jun 07 j 21:31	19°♉29'54	6.29467 AU
morning rise	-3134 Jun 21 j 00:11	22°♉23'57	
	-3134 Jul 27 j 01:50	0°♊	
retrograde	-3134 Oct 21 j 10:19	10°♊00'22	
opposition	-3134 Dec 20 j 02:50	5°♊02'38	0°32'22
min. Earth dist.	-3134 Dec 20 j 03:32	5°♊02'24	4.33954 AU
	-3133 Feb 16 j 04:22	30°℞♉	
direct	-3133 Feb 19 j 08:32	29°♉59'03	
	-3133 Feb 22 j 13:01	0°♊	
evening set	-3133 Jun 27 j 02:57	18°♊01'35	
conjunction	-3133 Jul 10 j 10:39	20°♊56'18	0°42'34
minimum elong	-3133 Jul 10 j 10:36	20°♊56'16	0°42'39
max. Earth dist.	-3133 Jul 09 j 19:50	20°♊48'11	6.37380 AU
morning rise	-3133 Jul 23 j 15:16	23°♊49'24	
	-3133 Aug 21 j 22:45	0°♋	
retrograde	-3133 Nov 21 j 06:28	10°♋54'35	
opposition	-3132 Jan 20 j 06:37	6°♋00'24	1°25'49
min. Earth dist.	-3132 Jan 20 j 23:41	5°♋54'51	4.39505 AU
direct	-3132 Mar 22 j 12:52	0°♋57'09	
evening set	-3132 Jul 28 j 01:34	18°♋48'42	
max. Earth dist.	-3132 Aug 08 j 14:10	21°♋19'52	6.40034 AU
conjunction	-3132 Aug 10 j 00:15	21°♋38'33	1°11'43
minimum elong	-3132 Aug 10 j 00:12	21°♋38'32	1°11'50
morning rise	-3132 Aug 22 j 19:44	24°♋26'52	
	-3132 Sep 18 j 00:12	0°♌	
retrograde	-3132 Dec 21 j 03:31	11°♌26'41	
opposition	-3131 Feb 19 j 14:56	6°♌34'40	1°54'53
min. Earth dist.	-3131 Feb 20 j 18:37	6°♌25'48	4.39252 AU
direct	-3131 Apr 23 j 06:17	1°♌32'56	
	-3131 Aug 07 j 16:23	15°♌	
evening set	-3131 Aug 28 j 04:59	19°♌25'27	
max. Earth dist.	-3131 Sep 08 j 02:19	21°♌50'03	6.36781 AU
conjunction	-3131 Sep 09 j 20:44	22°♌13'37	1°20'45
minimum elong	-3131 Sep 09 j 20:44	22°♌13'37	1°20'48
morning rise	-3131 Sep 22 j 10:00	25°♌00'43	
	-3131 Oct 15 j 12:38	0°♍	
retrograde	-3130 Jan 22 j 01:10	12°♍20'39	
opposition	-3130 Mar 23 j 21:28	7°♍29'08	1°52'08
min. Earth dist.	-3130 Mar 25 j 05:09	7°♍19'04	4.33244 AU
direct	-3130 May 25 j 07:08	2°♍29'55	
evening set	-3130 Sep 28 j 07:06	20°♍34'29	
max. Earth dist.	-3130 Oct 09 j 02:46	23°♍01'21	6.28457 AU
conjunction	-3130 Oct 10 j 20:07	23°♍24'49	1°06'43
minimum elong	-3130 Oct 10 j 20:10	23°♍24'51	1°06'44
morning rise	-3130 Oct 23 j 08:19	26°♍14'53	
	-3130 Nov 09 j 05:13	0°♎	
retrograde	-3129 Feb 24 j 13:39	14°♎17'03	
opposition	-3129 Apr 26 j 14:53	9°♎24'05	1°15'54
min. Earth dist.	-3129 Apr 27 j 16:19	9°♎15'58	4.23066 AU
direct	-3129 Jun 27 j 02:37	4°♎27'40	
evening set	-3129 Oct 30 j 03:43	22°♎53'25	
conjunction	-3129 Nov 11 j 18:49	25°♎49'10	0°31'52
minimum elong	-3129 Nov 11 j 18:51	25°♎49'12	0°31'49
max. Earth dist.	-3129 Nov 10 j 17:11	25°♎34'16	6.17347 AU
morning rise	-3129 Nov 24 j 10:27	28°♎45'30	
	-3129 Nov 29 j 19:49	0°♏	
	-3128 Feb 17 j 06:01	15°♏	
retrograde	-3128 Mar 30 j 23:46	17°♏43'41	
	-3128 May 13 j 06:00	15°℞♏	
opposition	-3128 May 30 j 23:24	12°♏47'49	0°13'09
min. Earth dist.	-3128 May 31 j 10:21	12°♏44'17	4.11748 AU
direct	-3128 Jul 30 j 04:02	7°♏53'53	
desc. node	-3128 Aug 12 j 19:06	8°♏11'57	
	-3128 Oct 08 j 01:48	15°♏	
evening set	-3128 Dec 01 j 12:59	26°♏45'12	
conjunction	-3128 Dec 14 j 09:05	29°♏47'40	-0°14'52
minimum elong	-3128 Dec 14 j 09:03	29°♏47'39	0°14'57
behind sun begin	-3128 Dec 14 j 05:49	29°♏45'44	
behind sun end	-3128 Dec 14 j 12:18	29°♏49'34	
max. Earth dist.	-3128 Dec 14 j 06:06	29°♏45'54	6.06881 AU
	-3128 Dec 15 j 05:52	0°♐	
morning rise	-3128 Dec 27 j 07:38	2°♐51'33	
retrograde	-3127 May 06 j 22:20	22°♐43'45	
opposition	-3127 Jul 06 j 14:03	17°♐43'58	-0°57'19
min. Earth dist.	-3127 Jul 06 j 05:08	17°♐46'54	4.03092 AU
direct	-3127 Sep 03 j 11:03	12°♐50'53	
	-3127 Dec 28 j 00:36	0°♑	
evening set	-3126 Jan 05 j 18:52	2°♑04'14	
conjunction	-3126 Jan 18 j 22:04	5°♑12'25	-0°57'31
minimum elong	-3126 Jan 18 j 22:01	5°♑12'23	0°57'36

Attention, astronomical year style is used: The year -3126 in astronomical counting style is the year 3127 BCE in historical counting style.

max. Earth dist.	-3126 Jan 19 j 23:39	5°♑27'43	6.00801 AU	
morning rise	-3126 Feb 01 j 04:21	8°♑22'20		
retrograde	-3126 Jun 13 j 09:45	28°♑43'52		
opposition	-3126 Aug 12 j 12:20	23°♑40'28	-1°47'58	
min. Earth dist.	-3126 Aug 11 j 12:36	23°♑48'27	4.00371 AU	
direct	-3126 Oct 09 j 14:25	18°♑46'07		
	-3125 Jan 06 j 16:19	0°♒		
evening set	-3125 Feb 11 j 12:18	8°♒07'57		
conjunction	-3125 Feb 24 j 22:50	11°♒18'59	-1°18'57	
minimum elong	-3125 Feb 24 j 22:49	11°♒18'59	1°19'01	
max. Earth dist.	-3125 Feb 26 j 18:56	11°♒45'09	6.01546 AU	
morning rise	-3125 Mar 10 j 12:33	14°♒31'34		
	-3125 Mar 12 j 12:59	15°♒		
	-3125 May 24 j 23:04	0°♓		
retrograde	-3125 Jul 19 j 22:04	4°♓41'12		
	-3125 Sep 14 j 16:30	30°℞♒		
min. Earth dist.	-3125 Sep 16 j 08:00	29°♒46'33	4.04642 AU	
opposition	-3125 Sep 17 j 14:52	29°♒36'02	-1°57'07	
direct	-3125 Nov 14 j 16:34	24°♒38'49		
	-3124 Jan 12 j 17:43	0°♓		
evening set	-3124 Mar 19 j 14:43	13°♓50'20		
conjunction	-3124 Apr 02 j 07:21	17°♓00'44	-1°10'31	
minimum elong	-3124 Apr 02 j 07:24	17°♓00'46	1°10'33	
max. Earth dist.	-3124 Apr 04 j 05:32	17°♓27'33	6.08895 AU	
morning rise	-3124 Apr 16 j 01:46	20°♓11'50		
	-3124 May 31 j 06:03	0°♈		
retrograde	-3124 Aug 22 j 17:11	9°♈33'40		
min. Earth dist.	-3124 Oct 20 j 02:10	4°♈38'03	4.14248 AU	
opposition	-3124 Oct 21 j 03:32	4°♈29'24	-1°23'17	
	-3124 Dec 01 j 12:01	30°℞♓		
direct	-3124 Dec 19 j 01:53	29°♓28'58		
	-3123 Jan 05 j 17:55	0°♈		
evening set	-3123 Apr 24 j 21:39	18°♈16'13		
conjunction	-3123 May 08 j 16:18	21°♈22'40	-0°37'20	
minimum elong	-3123 May 08 j 16:21	21°♈22'42	0°37'18	
max. Earth dist.	-3123 May 10 j 01:03	21°♈41'10	6.20031 AU	
morning rise	-3123 May 22 j 10:27	24°♈28'41		
	-3123 Jun 16 j 17:03	0°♉		
retrograde	-3123 Sep 24 j 11:40	12°♉49'21		
opposition	-3123 Nov 22 j 23:21	7°♉48'13	-0°23'17	
min. Earth dist.	-3123 Nov 22 j 09:42	7°♉52'49	4.25761 AU	
direct	-3122 Jan 22 j 02:42	2°♉45'31		
asc. node	-3122 Apr 12 j 10:28	11°♉21'12		
	-3122 May 01 j 02:14	15°♉		
evening set	-3122 May 29 j 15:31	21°♉05'20		
conjunction	-3122 Jun 12 j 06:03	24°♉05'28	0°06'52	
minimum elong	-3122 Jun 12 j 06:02	24°♉05'27	0°06'58	
behind sun begin	-3122 Jun 11 j 22:24	24°♉01'15		
behind sun end	-3122 Jun 12 j 13:40	24°♉09'39		
max. Earth dist.	-3122 Jun 12 j 12:57	24°♉09'16	6.31081 AU	
morning rise	-3122 Jun 25 j 18:29	27°♉04'21		
	-3122 Jul 09 j 06:14	0°♊		
retrograde	-3122 Oct 25 j 20:36	14°♊33'49		
opposition	-3122 Dec 24 j 13:33	9°♊36'35	0°40'55	
min. Earth dist.	-3122 Dec 24 j 16:59	9°♊35'27	4.35433 AU	
direct	-3121 Feb 24 j 00:40	4°♊32'58		
evening set	-3121 Jul 01 j 16:37	22°♊31'34		
conjunction	-3121 Jul 14 j 23:05	25°♊25'14	0°47'36	
minimum elong	-3121 Jul 14 j 23:02	25°♊25'12	0°47'41	
max. Earth dist.	-3121 Jul 14 j 06:25	25°♊16'07	6.38609 AU	
morning rise	-3121 Jul 28 j 02:12	28°♊17'14		
	-3121 Aug 05 j 00:31	0°♋		
retrograde	-3121 Nov 25 j 11:34	15°♋18'15		
opposition	-3120 Jan 24 j 15:08	10°♋24'23	1°31'25	
min. Earth dist.	-3120 Jan 25 j 09:00	10°♋18'35	4.40419 AU	
direct	-3120 Mar 26 j 23:15	5°♋21'15		
evening set	-3120 Aug 01 j 10:00	23°♋10'03		
max. Earth dist.	-3120 Aug 12 j 19:38	25°♋39'34	6.40552 AU	
conjunction	-3120 Aug 14 j 07:21	25°♋59'09	1°14'12	
minimum elong	-3120 Aug 14 j 07:19	25°♋59'08	1°14'17	
morning rise	-3120 Aug 27 j 01:39	28°♋46'46		
	-3120 Sep 01 j 16:38	0°♌		
	-3120 Dec 03 j 07:08	15°♌		
retrograde	-3120 Dec 25 j 10:40	15°♌45'48		
	-3119 Jan 16 j 13:22	15°℞♌		
opposition	-3119 Feb 23 j 23:34	10°♌53'58	1°56'20	
min. Earth dist.	-3119 Feb 25 j 05:12	10°♌44'30	4.39330 AU	
direct	-3119 Apr 27 j 16:51	5°♌52'30		
	-3119 Jul 21 j 08:49	15°♌		
evening set	-3119 Sep 01 j 10:19	23°♌44'05		
max. Earth dist.	-3119 Sep 12 j 04:42	26°♌07'16	6.36391 AU	
conjunction	-3119 Sep 14 j 01:20	26°♌32'05	1°20'07	
minimum elong	-3119 Sep 14 j 01:20	26°♌32'06	1°20'11	
morning rise	-3119 Sep 26 j 14:10	29°♌19'09		
	-3119 Sep 29 j 16:11	0°♍		
retrograde	-3118 Jan 26 j 10:43	16°♍42'09		
opposition	-3118 Mar 28 j 08:37	11°♍50'28	1°49'01	
min. Earth dist.	-3118 Mar 29 j 16:11	11°♍40'25	4.32395 AU	
direct	-3118 May 29 j 16:16	6°♍51'30		
evening set	-3118 Oct 02 j 12:30	24°♍57'31		
max. Earth dist.	-3118 Oct 13 j 09:51	27°♍25'42	6.27222 AU	
conjunction	-3118 Oct 15 j 01:38	27°♍48'21	1°03'04	
minimum elong	-3118 Oct 15 j 01:41	27°♍48'23	1°03'04	
	-3118 Oct 24 j 17:03	0°♎		
morning rise	-3118 Oct 27 j 13:53	0°♎39'00		
retrograde	-3117 Mar 01 j 05:31	18°♎47'49		
opposition	-3117 May 01 j 06:47	13°♎54'35	1°08'41	
min. Earth dist.	-3117 May 02 j 07:58	13°♎46'33	4.21496 AU	
direct	-3117 Jul 01 j 15:17	8°♎58'31		
evening set	-3117 Nov 03 j 13:19	27°♎28'00		
	-3117 Nov 14 j 10:29	0°♏		
max. Earth dist.	-3117 Nov 15 j 03:24	0°♏09'52	6.15579 AU	
conjunction	-3117 Nov 16 j 04:50	0°♏24'43	0°25'58	
minimum elong	-3117 Nov 16 j 04:52	0°♏24'44	0°25'55	
morning rise	-3117 Nov 28 j 21:27	3°♏22'12		
	-3116 Jan 22 j 10:12	15°♏		
retrograde	-3116 Apr 04 j 21:49	22°♏29'27		
opposition	-3116 Jun 04 j 20:50	17°♏33'06	0°03'32	
min. Earth dist.	-3116 Jun 05 j 05:17	17°♏30'22	4.09913 AU	
desc. node	-3116 Jun 24 j 13:14	15°♏07'09		
	-3116 Jun 25 j 14:59	15°℞♏		
direct	-3116 Aug 03 j 20:11	12°♏39'18		
	-3116 Sep 11 j 09:47	15°♏		
	-3116 Nov 29 j 10:30	0°♐		
evening set	-3116 Dec 06 j 05:43	1°♐36'00		
conjunction	-3116 Dec 19 j 02:57	4°♐39'41	-0°21'16	
minimum elong	-3116 Dec 19 j 02:56	4°♐39'40	0°21'22	
max. Earth dist.	-3116 Dec 19 j 04:18	4°♐40'29	6.05164 AU	
morning rise	-3115 Jan 01 j 02:30	7°♐44'49		
retrograde	-3115 May 12 j 04:26	27°♐45'28		
opposition	-3115 Jul 11 j 16:22	22°♐45'12	-1°06'01	
min. Earth dist.	-3115 Jul 11 j 06:05	22°♐48'36	4.01671 AU	
direct	-3115 Sep 08 j 09:26	17°♐52'06		
	-3115 Dec 10 j 16:45	0°♑		

Attention, astronomical year style is used: The year -3114 in astronomical counting style is the year 3115 BCE in historical counting style.

evening set	-3114 Jan 10 j 19:47	7°♑10'18		
conjunction	-3114 Jan 24 j 00:02	10°♑19'26	-1°02'00	
minimum elong	-3114 Jan 23 j 23:59	10°♑19'24	1°02'06	
max. Earth dist.	-3114 Jan 25 j 04:02	10°♑36'12	5.99795 AU	
morning rise	-3114 Feb 06 j 07:44	13°♑30'23		
	-3114 Apr 28 j 13:33	0°♒		
retrograde	-3114 Jun 18 j 14:52	3°♒55'40		
	-3114 Aug 09 j 04:31	30°℞♑		
opposition	-3114 Aug 17 j 15:59	28°♑51'54	-1°51'57	
min. Earth dist.	-3114 Aug 16 j 13:28	29°♑00'50	3.99927 AU	
direct	-3114 Oct 14 j 14:59	23°♑57'16		
	-3114 Dec 16 j 05:27	0°♒		
evening set	-3113 Feb 16 j 18:38	13°♒21'10		
	-3113 Feb 23 j 17:59	15°♒		
conjunction	-3113 Mar 02 j 06:18	16°♒32'38	-1°19'29	
minimum elong	-3113 Mar 02 j 06:18	16°♒32'38	1°19'33	
max. Earth dist.	-3113 Mar 04 j 04:25	16°♒59'57	6.01693 AU	
morning rise	-3113 Mar 15 j 20:58	19°♒45'32		
	-3113 May 01 j 04:06	0°♓		
retrograde	-3113 Jul 25 j 01:22	9°♓52'10		
min. Earth dist.	-3113 Sep 21 j 09:16	4°♓57'21	4.05348 AU	
opposition	-3113 Sep 22 j 15:53	4°♓46'53	-1°54'34	
	-3113 Nov 09 j 14:34	30°℞♒		
direct	-3113 Nov 19 j 20:11	29°♒49'11		
	-3113 Nov 30 j 01:27	0°♓		
evening set	-3112 Mar 24 j 21:21	18°♓59'03		
conjunction	-3112 Apr 07 j 14:44	22°♓09'15	-1°06'56	
minimum elong	-3112 Apr 07 j 14:48	22°♓09'17	1°06'57	
max. Earth dist.	-3112 Apr 09 j 14:06	22°♓36'38	6.10099 AU	
morning rise	-3112 Apr 21 j 09:27	25°♓19'55		
	-3112 May 12 j 03:32	0°♈		
retrograde	-3112 Aug 27 j 12:46	14°♈33'40		
opposition	-3112 Oct 25 j 23:04	9°♈29'40	-1°15'40	
min. Earth dist.	-3112 Oct 24 j 21:56	9°♈38'14	4.15789 AU	
direct	-3112 Dec 24 j 00:08	4°♈28'51		
evening set	-3111 Apr 29 j 23:54	23°♈12'03		
conjunction	-3111 May 13 j 18:10	26°♈17'38	-0°31'16	
minimum elong	-3111 May 13 j 18:13	26°♈17'39	0°31'14	
max. Earth dist.	-3111 May 14 j 22:57	26°♈33'49	6.21748 AU	
morning rise	-3111 May 27 j 11:58	29°♈22'42		
	-3111 May 30 j 06:56	0°♉		
	-3111 Aug 19 j 08:14	15°♉		
retrograde	-3111 Sep 29 j 01:28	17°♉34'39		
	-3111 Nov 08 j 15:04	15°℞♉		
opposition	-3111 Nov 27 j 13:37	12°♉33'58	-0°13'48	
min. Earth dist.	-3111 Nov 27 j 02:40	12°♉37'39	4.27454 AU	
direct	-3110 Jan 26 j 22:25	7°♉31'00		
asc. node	-3110 Feb 18 j 20:53	8°♉20'12		
	-3110 Apr 11 j 07:28	15°♉		
evening set	-3110 Jun 03 j 11:04	25°♉46'37		
conjunction	-3110 Jun 17 j 00:46	28°♉45'44	0°13'12	
minimum elong	-3110 Jun 17 j 00:45	28°♉45'44	0°13'18	
behind sun begin	-3110 Jun 16 j 20:08	28°♉43'12		
behind sun end	-3110 Jun 17 j 05:21	28°♉48'15		
max. Earth dist.	-3110 Jun 17 j 05:38	28°♉48'25	6.32597 AU	
	-3110 Jun 22 j 15:29	0°♊		
morning rise	-3110 Jun 30 j 11:49	1°♊43'27		
retrograde	-3110 Oct 30 j 04:33	19°♊06'44		
opposition	-3110 Dec 29 j 00:01	14°♊10'02	0°49'19	
min. Earth dist.	-3110 Dec 29 j 04:56	14°♊08'25	4.36654 AU	
direct	-3109 Feb 28 j 14:11	9°♊06'26		
evening set	-3109 Jul 06 j 06:36	27°♊02'19		
conjunction	-3109 Jul 19 j 11:33	29°♊55'04	0°52'26	
minimum elong	-3109 Jul 19 j 11:30	29°♊55'03	0°52'33	
max. Earth dist.	-3109 Jul 18 j 14:30	29°♊43'34	6.39415 AU	
	-3109 Jul 19 j 20:34	0°♋		
morning rise	-3109 Aug 01 j 13:26	2°♋46'14		
retrograde	-3109 Nov 29 j 20:50	19°♋44'52		
opposition	-3108 Jan 29 j 00:58	14°♋51'24	1°36'42	
min. Earth dist.	-3108 Jan 29 j 21:53	14°♋44'38	4.40776 AU	
direct	-3108 Mar 31 j 12:31	9°♋48'25		
evening set	-3108 Aug 05 j 19:57	27°♋36'31		
	-3108 Aug 16 j 18:20	0°♌		
max. Earth dist.	-3108 Aug 17 j 02:46	0°♌04'38	6.40405 AU	
conjunction	-3108 Aug 18 j 16:20	0°♌25'14	1°16'23	
minimum elong	-3108 Aug 18 j 16:18	0°♌25'13	1°16'28	
morning rise	-3108 Aug 31 j 09:32	3°♌12'30		
	-3108 Oct 30 j 12:23	15°♌		
retrograde	-3108 Dec 29 j 20:20	20°♌13'15		
opposition	-3107 Feb 28 j 11:33	15°♌21'31	1°57'19	
min. Earth dist.	-3107 Mar 01 j 17:21	15°♌12'00	4.38712 AU	
	-3107 Mar 03 j 06:57	15°℞♌		
direct	-3107 May 02 j 03:42	10°♌20'21		
	-3107 Jun 29 j 11:04	15°♌		
evening set	-3107 Sep 05 j 19:19	28°♌13'20		
	-3107 Sep 13 j 19:27	0°♍		
max. Earth dist.	-3107 Sep 16 j 13:12	0°♍36'40	6.35341 AU	
conjunction	-3107 Sep 18 j 09:44	1°♍01'31	1°19'05	
minimum elong	-3107 Sep 18 j 09:46	1°♍01'31	1°19'08	
morning rise	-3107 Sep 30 j 22:10	3°♍48'51		
retrograde	-3106 Jan 31 j 03:10	21°♍17'16		
opposition	-3106 Apr 02 j 01:23	16°♍25'30	1°45'12	
min. Earth dist.	-3106 Apr 03 j 09:38	16°♍15'15	4.30967 AU	
direct	-3106 Jun 03 j 07:32	11°♍26'57		
evening set	-3106 Oct 06 j 23:46	29°♍36'10		
	-3106 Oct 08 j 17:48	0°♎		
max. Earth dist.	-3106 Oct 17 j 21:15	2°♎05'04	6.25535 AU	
conjunction	-3106 Oct 19 j 12:58	2°♎27'45	0°58'51	
minimum elong	-3106 Oct 19 j 13:01	2°♎27'46	0°58'50	
morning rise	-3106 Nov 01 j 01:43	5°♎19'17		
retrograde	-3105 Mar 06 j 03:33	23°♎36'20		
opposition	-3105 May 06 j 05:30	18°♎42'43	1°00'34	
min. Earth dist.	-3105 May 07 j 04:09	18°♎35'29	4.19668 AU	
direct	-3105 Jul 06 j 08:56	13°♎47'01		
	-3105 Oct 29 j 01:06	0°♏		
evening set	-3105 Nov 08 j 05:43	2°♏20'56		
conjunction	-3105 Nov 20 j 22:01	5°♏18'44	0°19'31	
minimum elong	-3105 Nov 20 j 22:03	5°♏18'45	0°19'28	
max. Earth dist.	-3105 Nov 20 j 01:01	5°♏06'26	6.13794 AU	
morning rise	-3105 Dec 03 j 15:24	8°♏17'22		
	-3104 Jan 02 j 09:41	15°♏		
retrograde	-3104 Apr 10 j 05:15	27°♏33'34		
desc. node	-3104 May 03 j 12:00	26°♏42'49		
opposition	-3104 Jun 10 j 01:35	22°♏36'44	-0°06'46	
min. Earth dist.	-3104 Jun 10 j 08:08	22°♏34'36	4.08329 AU	
direct	-3104 Aug 08 j 20:45	17°♏43'12		
	-3104 Nov 11 j 20:45	0°♐		
evening set	-3104 Dec 11 j 05:06	6°♐43'57		
conjunction	-3104 Dec 24 j 03:12	9°♐48'35	-0°27'55	
minimum elong	-3104 Dec 24 j 03:09	9°♐48'34	0°28'01	
max. Earth dist.	-3104 Dec 24 j 07:54	9°♐51'23	6.03943 AU	
morning rise	-3103 Jan 06 j 04:02	12°♐54'47		
	-3103 Apr 02 j 19:14	0°♑		
retrograde	-3103 May 17 j 12:05	3°♑01'22		

Attention, astronomical year style is used: The year -3103 in astronomical counting style is the year 3104 BCE in historical counting style.

	-3103 Jul 01 j 12:49	30°℞♐			
opposition	-3103 Jul 16 j 23:40	28°♐00'31	-1°14'39		
min. Earth dist.	-3103 Jul 16 j 09:26	28°♐05'14	4.00990 AU		
direct	-3103 Sep 13 j 12:03	23°♐07'23			
	-3103 Nov 19 j 21:03	0°♑			
evening set	-3102 Jan 16 j 01:11	12°♑27'20			
conjunction	-3102 Jan 29 j 06:31	15°♑36'57	-1°06'13		
minimum elong	-3102 Jan 29 j 06:28	15°♑36'55	1°06'18		
max. Earth dist.	-3102 Jan 30 j 14:36	15°♑56'10	5.99714 AU		
morning rise	-3102 Feb 11 j 15:10	18°♑48'20			
	-3102 Apr 03 j 03:50	0°♒			
retrograde	-3102 Jun 23 j 21:49	9°♒12'59			
opposition	-3102 Aug 22 j 21:11	4°♒08'47	-1°55'07		
min. Earth dist.	-3102 Aug 21 j 17:40	4°♒18'05	4.00475 AU		
	-3102 Sep 28 j 15:13	30°℞♑			
direct	-3102 Oct 19 j 21:03	29°♑13'44			
	-3102 Nov 10 j 02:30	0°♒			
	-3101 Feb 06 j 14:03	15°♒			
evening set	-3101 Feb 22 j 01:44	18°♒35'46			
conjunction	-3101 Mar 07 j 14:24	21°♒47'09	-1°19'28		
minimum elong	-3101 Mar 07 j 14:25	21°♒47'09	1°19'32		
max. Earth dist.	-3101 Mar 09 j 15:11	22°♒15'56	6.02806 AU		
morning rise	-3101 Mar 21 j 05:46	24°♒59'49			
	-3101 Apr 12 j 01:22	0°♓			
retrograde	-3101 Jul 30 j 01:20	14°♓59'12			
min. Earth dist.	-3101 Sep 26 j 08:12	10°♓04'27	4.06906 AU		
opposition	-3101 Sep 27 j 15:03	9°♓53'56	-1°51'11		
direct	-3101 Nov 24 j 20:59	4°♓55'45			
evening set	-3100 Mar 30 j 01:20	24°♓01'00			
conjunction	-3100 Apr 12 j 18:58	27°♓10'30	-1°02'59		
minimum elong	-3100 Apr 12 j 19:01	27°♓10'32	1°02'59		
max. Earth dist.	-3100 Apr 14 j 15:16	27°♓36'00	6.11942 AU		
	-3100 Apr 25 j 02:13	0°♈			
morning rise	-3100 Apr 26 j 13:57	0°♈20'24			
retrograde	-3100 Sep 01 j 03:53	19°♈24'16			
opposition	-3100 Oct 30 j 15:08	14°♈20'35	-1°07'48		
min. Earth dist.	-3100 Oct 29 j 15:58	14°♈28'28	4.17708 AU		
direct	-3100 Dec 28 j 20:57	9°♈19'19			
evening set	-3099 May 04 j 21:48	27°♈57'27			
	-3099 May 14 j 01:06	0°♉			
conjunction	-3099 May 18 j 15:52	1°♉02'07	-0°25'13		
minimum elong	-3099 May 18 j 15:54	1°♉02'08	0°25'10		
max. Earth dist.	-3099 May 19 j 18:20	1°♉16'57	6.23607 AU		
morning rise	-3099 Jun 01 j 08:48	4°♉06'03			
	-3099 Jul 24 j 09:50	15°♉			
retrograde	-3099 Oct 03 j 10:51	22°♉09'27			
opposition	-3099 Dec 01 j 23:58	17°♉09'21	-0°04'37		
min. Earth dist.	-3099 Dec 01 j 15:16	17°♉12'16	4.29081 AU		
	-3099 Dec 18 j 15:34	15°℞♉			
asc. node	-3099 Dec 29 j 20:06	13°♉46'17			
direct	-3098 Jan 31 j 13:14	12°♉06'13			
	-3098 Mar 16 j 21:46	15°♉			
	-3098 Jun 06 j 17:38	0°♊			
evening set	-3098 Jun 08 j 02:58	0°♊18'11			
conjunction	-3098 Jun 21 j 15:28	3°♊16'19	0°19'15		
minimum elong	-3098 Jun 21 j 15:26	3°♊16'18	0°19'20		
max. Earth dist.	-3098 Jun 21 j 14:41	3°♊15'53	6.33858 AU		
morning rise	-3098 Jul 05 j 01:30	6°♊13'04			
retrograde	-3098 Nov 03 j 11:46	23°♊31'30			
opposition	-3097 Jan 02 j 07:59	18°♊35'19	0°57'10		
min. Earth dist.	-3097 Jan 02 j 16:08	18°♊32'38	4.37479 AU		
direct	-3097 Mar 05 j 02:21	13°♊31'41			
	-3097 Jul 04 j 01:41	0°♋			
evening set	-3097 Jul 10 j 17:33	1°♋26'12			
conjunction	-3097 Jul 23 j 21:28	4°♋18'21	0°56'52		
minimum elong	-3097 Jul 23 j 21:25	4°♋18'19	0°56'58		
max. Earth dist.	-3097 Jul 22 j 22:22	4°♋05'44	6.39735 AU		
morning rise	-3097 Aug 05 j 21:54	7°♋08'50			
retrograde	-3097 Dec 04 j 03:20	24°♋06'58			
opposition	-3096 Feb 02 j 09:37	19°♋13'53	1°41'22		
min. Earth dist.	-3096 Feb 03 j 07:37	19°♋06'46	4.40599 AU		
direct	-3096 Apr 04 j 21:49	14°♋11'08			
	-3096 Jul 31 j 22:43	0°♌			
evening set	-3096 Aug 10 j 04:59	2°♌00'13			
max. Earth dist.	-3096 Aug 21 j 07:50	4°♌26'32	6.39730 AU		
conjunction	-3096 Aug 23 j 00:13	4°♌48'45	1°18'06		
minimum elong	-3096 Aug 23 j 00:11	4°♌48'44	1°18'10		
morning rise	-3096 Sep 04 j 16:40	7°♌35'56			
	-3096 Oct 10 j 00:55	15°♌			
retrograde	-3095 Jan 03 j 08:57	24°♌40'14			
opposition	-3095 Mar 05 j 00:06	19°♌48'40	1°57'37		
min. Earth dist.	-3095 Mar 06 j 07:42	19°♌38'35	4.37595 AU		
	-3095 Apr 25 j 01:41	15°℞♌			
direct	-3095 May 06 j 16:29	14°♌47'50			
	-3095 May 18 j 06:38	15°♌			
	-3095 Aug 28 j 18:28	0°♍			
evening set	-3095 Sep 10 j 04:50	2°♍43'43			
max. Earth dist.	-3095 Sep 20 j 22:31	5°♍07'27	6.33872 AU		
conjunction	-3095 Sep 22 j 18:58	5°♍32'20	1°17'32		
minimum elong	-3095 Sep 22 j 19:00	5°♍32'21	1°17'35		
morning rise	-3095 Oct 05 j 07:10	8°♍20'11			
retrograde	-3094 Feb 04 j 20:02	25°♍55'25			
opposition	-3094 Apr 06 j 19:44	21°♍03'32	1°40'40		
min. Earth dist.	-3094 Apr 08 j 02:06	20°♍53'52	4.29252 AU		
direct	-3094 Jun 07 j 21:35	16°♍05'27			
	-3094 Sep 22 j 04:35	0°♎			
evening set	-3094 Oct 11 j 12:34	4°♎18'40			
max. Earth dist.	-3094 Oct 22 j 13:21	6°♎50'04	6.23735 AU		
conjunction	-3094 Oct 24 j 02:00	7°♎11'06	0°54'10		
minimum elong	-3094 Oct 24 j 02:03	7°♎11'07	0°54'10		
morning rise	-3094 Nov 05 j 15:09	10°♎03'36			
retrograde	-3093 Mar 11 j 06:18	28°♎29'18			
opposition	-3093 May 11 j 06:38	23°♎35'21	0°51'52		
min. Earth dist.	-3093 May 12 j 03:50	23°♎28'34	4.17896 AU		
direct	-3093 Jul 11 j 06:30	18°♎40'04			
	-3093 Oct 11 j 10:15	0°♏			
evening set	-3093 Nov 12 j 23:57	7°♏17'59			
conjunction	-3093 Nov 25 j 16:54	10°♏16'45	0°12'51		
minimum elong	-3093 Nov 25 j 16:56	10°♏16'46	0°12'46		
behind sun begin	-3093 Nov 25 j 11:47	10°♏13'46			
behind sun end	-3093 Nov 25 j 22:04	10°♏19'46			
max. Earth dist.	-3093 Nov 24 j 23:06	10°♏06'18	6.12221 AU		
morning rise	-3093 Dec 08 j 11:18	13°♏16'30			
	-3093 Dec 15 j 21:26	15°♏			
	-3092 Mar 04 j 06:21	0°♐			
desc. node	-3092 Mar 12 j 03:31	0°♐52'41			
retrograde	-3092 Apr 15 j 10:45	2°♐40'32			
	-3092 May 28 j 01:26	30°℞♏			
opposition	-3092 Jun 15 j 07:11	27°♏43'10	-0°17'08		
min. Earth dist.	-3092 Jun 15 j 09:33	27°♏42'24	4.07107 AU		
direct	-3092 Aug 13 j 20:19	22°♏49'52			
	-3092 Oct 22 j 14:10	0°♐			
evening set	-3092 Dec 16 j 05:30	11°♐53'24			

Attention, astronomical year style is used: The year -3092 in astronomical counting style is the year 3093 BCE in historical counting style.

conjunction	-3092 Dec 29 j 04:31	14°♐58'45	-0°34'23
minimum elong	-3092 Dec 29 j 04:28	14°♐58'44	0°34'29
max. Earth dist.	-3092 Dec 29 j 13:57	15°♐04'24	6.03166 AU
morning rise	-3091 Jan 11 j 06:19	18°♐05'44	
	-3091 Mar 06 j 15:30	0°♑	
retrograde	-3091 May 22 j 20:16	8°♑16'16	
opposition	-3091 Jul 22 j 06:16	3°♑14'52	-1°22'40
min. Earth dist.	-3091 Jul 21 j 14:04	3°♑20'15	4.00738 AU
	-3091 Aug 18 j 01:32	30°℞♐	
direct	-3091 Sep 18 j 17:03	28°♐21'34	
	-3091 Oct 20 j 02:33	0°♑	
evening set	-3090 Jan 21 j 05:51	17°♑41'55	
conjunction	-3090 Feb 03 j 12:14	20°♑51'51	-1°09'52
minimum elong	-3090 Feb 03 j 12:11	20°♑51'49	1°09'58
max. Earth dist.	-3090 Feb 05 j 00:14	21°♑13'21	5.99984 AU
morning rise	-3090 Feb 16 j 21:50	24°♑03'30	
	-3090 Mar 14 j 14:52	0°♒	
retrograde	-3090 Jun 29 j 02:52	14°♒26'01	
min. Earth dist.	-3090 Aug 26 j 19:35	9°♒31'19	4.01266 AU
opposition	-3090 Aug 28 j 00:21	9°♒21'34	-1°57'20
direct	-3090 Oct 24 j 23:35	4°♒26'11	
	-3089 Jan 19 j 04:10	15°♒	
evening set	-3089 Feb 27 j 07:15	23°♒45'55	
conjunction	-3089 Mar 12 j 20:34	26°♒57'03	-1°18'52
minimum elong	-3089 Mar 12 j 20:36	26°♒57'04	1°18'55
max. Earth dist.	-3089 Mar 14 j 20:17	27°♒25'07	6.04012 AU
	-3089 Mar 25 j 20:31	0°♓	
morning rise	-3089 Mar 26 j 12:44	0°♓09'27	
retrograde	-3089 Aug 03 j 21:36	20°♓01'39	
min. Earth dist.	-3089 Oct 01 j 05:38	15°♓06'48	4.08401 AU
opposition	-3089 Oct 02 j 11:56	14°♓56'26	-1°47'05
direct	-3089 Nov 29 j 20:38	9°♓57'47	
evening set	-3088 Apr 04 j 03:38	28°♓59'07	
	-3088 Apr 08 j 14:16	0°♈	
conjunction	-3088 Apr 17 j 21:46	2°♈08'04	-0°58'39
minimum elong	-3088 Apr 17 j 21:49	2°♈08'06	0°58'39
max. Earth dist.	-3088 Apr 19 j 16:59	2°♈32'51	6.13621 AU
morning rise	-3088 May 01 j 16:37	5°♈17'13	
retrograde	-3088 Sep 05 j 19:12	24°♈12'06	
min. Earth dist.	-3088 Nov 03 j 08:49	19°♈16'00	4.19395 AU
opposition	-3088 Nov 04 j 05:46	19°♈08'54	-0°59'37
direct	-3087 Jan 02 j 16:10	14°♈07'20	
	-3087 Apr 27 j 13:24	0°♉	
evening set	-3087 May 09 j 18:54	2°♉41'27	
conjunction	-3087 May 23 j 12:24	5°♉45'16	-0°19'04
minimum elong	-3087 May 23 j 12:26	5°♉45'17	0°19'00
max. Earth dist.	-3087 May 24 j 10:10	5°♉57'25	6.25169 AU
morning rise	-3087 Jun 06 j 04:48	8°♉48'16	
	-3087 Jul 05 j 00:16	15°♉	
retrograde	-3087 Oct 07 j 19:52	26°♉44'26	
asc. node	-3087 Nov 08 j 18:33	25°♉06'23	
opposition	-3087 Dec 06 j 10:15	21°♉44'52	0°04'34
min. Earth dist.	-3087 Dec 06 j 03:55	21°♉46'59	4.30401 AU
direct	-3086 Feb 05 j 03:53	16°♉41'31	
	-3086 May 21 j 01:26	0°♊	
evening set	-3086 Jun 12 j 18:32	4°♊50'50	
conjunction	-3086 Jun 26 j 06:04	7°♊48'08	0°25'12
minimum elong	-3086 Jun 26 j 06:02	7°♊48'07	0°25'18
max. Earth dist.	-3086 Jun 26 j 02:33	7°♊46'12	6.34846 AU
morning rise	-3086 Jul 09 j 14:44	10°♊43'56	
retrograde	-3086 Nov 07 j 19:20	27°♊58'32	
opposition	-3085 Jan 06 j 16:38	23°♊02'53	1°04'44
min. Earth dist.	-3085 Jan 07 j 02:54	22°♊59'30	4.38084 AU
direct	-3085 Mar 09 j 14:11	17°♊59'18	
	-3085 Jun 17 j 06:04	0°♋	
evening set	-3085 Jul 15 j 05:22	5°♋52'59	
max. Earth dist.	-3085 Jul 27 j 04:26	8°♋29'30	6.39888 AU
conjunction	-3085 Jul 28 j 07:52	8°♋44'31	1°01'00
minimum elong	-3085 Jul 28 j 07:49	8°♋44'29	1°01'06
morning rise	-3085 Aug 10 j 07:14	11°♋34'27	
retrograde	-3085 Dec 08 j 12:50	28°♋32'33	
opposition	-3084 Feb 06 j 19:37	23°♋39'46	1°45'33
min. Earth dist.	-3084 Feb 07 j 19:52	23°♋31'56	4.40328 AU
direct	-3084 Apr 09 j 09:36	18°♋37'10	
	-3084 Jul 14 j 23:35	0°♌	
evening set	-3084 Aug 14 j 14:41	6°♌27'15	
max. Earth dist.	-3084 Aug 25 j 16:51	8°♌53'27	6.39051 AU
conjunction	-3084 Aug 27 j 09:09	9°♌15'40	1°19'24
minimum elong	-3084 Aug 27 j 09:08	9°♌15'40	1°19'29
morning rise	-3084 Sep 09 j 00:37	12°♌02'46	
	-3084 Sep 22 j 15:42	15°♌	
retrograde	-3083 Jan 07 j 20:40	29°♌10'31	
opposition	-3083 Mar 09 j 13:56	24°♌19'02	1°57'17
min. Earth dist.	-3083 Mar 10 j 21:01	24°♌09'08	4.36579 AU
direct	-3083 May 11 j 04:15	19°♌18'37	
	-3083 Aug 11 j 11:18	0°♍	
evening set	-3083 Sep 14 j 15:04	7°♍16'41	
max. Earth dist.	-3083 Sep 25 j 08:36	9°♍40'51	6.32608 AU
conjunction	-3083 Sep 27 j 04:42	10°♍05'37	1°15'33
minimum elong	-3083 Sep 27 j 04:43	10°♍05'38	1°15'34
morning rise	-3083 Oct 09 j 16:49	12°♍53'56	
	-3082 Jan 21 j 03:35	0°♎	
retrograde	-3082 Feb 09 j 15:48	0°♎35'17	
	-3082 Mar 01 j 03:35	30°℞♍	
opposition	-3082 Apr 11 j 15:07	25°♍43'12	1°35'31
min. Earth dist.	-3082 Apr 12 j 21:10	25°♍33'39	4.27819 AU
direct	-3082 Jun 12 j 14:54	20°♍45'31	
	-3082 Sep 04 j 01:26	0°♎	
evening set	-3082 Oct 16 j 01:26	9°♎01'29	
max. Earth dist.	-3082 Oct 27 j 05:12	11°♎35'04	6.22278 AU
conjunction	-3082 Oct 28 j 15:12	11°♎54'38	0°49'12
minimum elong	-3082 Oct 28 j 15:15	11°♎54'39	0°49'11
morning rise	-3082 Nov 10 j 04:49	14°♎47'57	
	-3081 Jan 27 j 14:30	0°♏	
retrograde	-3081 Mar 16 j 05:31	3°♏20'50	
	-3081 May 03 j 21:46	30°℞♎	
opposition	-3081 May 16 j 06:54	28°♎26'27	0°42'54
min. Earth dist.	-3081 May 17 j 00:47	28°♎20'43	4.16528 AU
direct	-3081 Jul 16 j 01:20	23°♎31'32	
	-3081 Sep 21 j 02:45	0°♏	
evening set	-3081 Nov 17 j 17:20	12°♏12'01	
	-3081 Nov 29 j 15:16	15°♏	
conjunction	-3081 Nov 30 j 10:54	15°♏11'34	0°06'13
minimum elong	-3081 Nov 30 j 10:55	15°♏11'34	0°06'09
behind sun begin	-3081 Nov 30 j 03:17	15°♏07'06	
behind sun end	-3081 Nov 30 j 18:32	15°♏16'03	
max. Earth dist.	-3081 Nov 29 j 20:59	15°♏03'23	6.11065 AU
morning rise	-3081 Dec 13 j 06:10	18°♏12'12	
desc. node	-3080 Jan 20 j 22:58	26°♏50'18	
	-3080 Feb 06 j 01:32	0°♐	
retrograde	-3080 Apr 20 j 15:40	7°♐42'30	
opposition	-3080 Jun 20 j 10:50	2°♐44'31	-0°27'09
min. Earth dist.	-3080 Jun 20 j 11:01	2°♐44'27	4.06252 AU
	-3080 Jul 12 j 19:11	30°℞♏	

Attention, astronomical year style is used: The year -3080 in astronomical counting style is the year 3081 BCE in historical counting style.

direct	-3080 Aug 18 j 21:06	27°♏51'18	
	-3080 Sep 24 j 09:51	0°♐	
evening set	-3080 Dec 21 j 03:39	16°♐56'22	
conjunction	-3079 Jan 03 j 03:37	20°♐02'20	-0°40'26
minimum elong	-3079 Jan 03 j 03:34	20°♐02'19	0°40'32
max. Earth dist.	-3079 Jan 03 j 17:30	20°♐10'38	6.02686 AU
morning rise	-3079 Jan 16 j 06:25	23°♐09'57	
	-3079 Feb 15 j 00:09	0°♑	
retrograde	-3079 May 28 j 01:03	13°♑23'02	
opposition	-3079 Jul 27 j 09:30	8°♑21'09	-1°29'47
min. Earth dist.	-3079 Jul 26 j 15:08	8°♑27'16	4.00712 AU
direct	-3079 Sep 23 j 17:34	3°♑27'41	
evening set	-3078 Jan 26 j 07:51	22°♑47'53	
conjunction	-3078 Feb 08 j 15:00	25°♑58'00	-1°12'53
minimum elong	-3078 Feb 08 j 14:58	25°♑57'59	1°12'57
max. Earth dist.	-3078 Feb 10 j 03:53	26°♑20'00	6.00373 AU
morning rise	-3078 Feb 22 j 01:40	29°♑09'52	
	-3078 Feb 25 j 14:38	0°♒	
	-3078 May 10 j 06:34	15°♒	
retrograde	-3078 Jul 04 j 02:19	19°♒29'47	
	-3078 Aug 28 j 16:34	15°℞♒	
opposition	-3078 Sep 01 j 23:36	14°♒25'04	-1°58'35
min. Earth dist.	-3078 Aug 31 j 18:02	14°♒35'07	4.02039 AU
direct	-3078 Oct 29 j 23:04	9°♒29'14	
	-3078 Dec 28 j 15:29	15°♒	
evening set	-3077 Mar 04 j 09:33	28°♒47'03	
	-3077 Mar 09 j 14:24	0°♓	
conjunction	-3077 Mar 17 j 23:54	1°♓58'06	-1°17'41
minimum elong	-3077 Mar 17 j 23:56	1°♓58'08	1°17'44
max. Earth dist.	-3077 Mar 20 j 00:28	2°♓26'36	6.05107 AU
morning rise	-3077 Mar 31 j 16:32	5°♓10'14	
retrograde	-3077 Aug 08 j 17:29	24°♓55'48	
min. Earth dist.	-3077 Oct 06 j 01:14	20°♓00'35	4.09688 AU
opposition	-3077 Oct 07 j 05:54	19°♓50'48	-1°42'22
direct	-3077 Dec 04 j 17:24	14°♓51'45	
	-3076 Mar 23 j 00:56	0°♈	
evening set	-3076 Apr 09 j 03:22	3°♈50'06	
conjunction	-3076 Apr 22 j 21:43	6°♈58'35	-0°54'02
minimum elong	-3076 Apr 22 j 21:47	6°♈58'38	0°54'01
max. Earth dist.	-3076 Apr 24 j 13:48	7°♈21'29	6.14999 AU
morning rise	-3076 May 06 j 16:46	10°♈07'10	
retrograde	-3076 Sep 10 j 07:20	28°♈54'32	
opposition	-3076 Nov 08 j 18:37	23°♈51'48	-0°51'15
min. Earth dist.	-3076 Nov 07 j 22:56	23°♈58'29	4.20736 AU
direct	-3075 Jan 07 j 08:18	18°♈49'56	
	-3075 Apr 10 j 03:03	0°♉	
evening set	-3075 May 14 j 14:26	7°♉21'24	
conjunction	-3075 May 28 j 07:31	10°♉24'32	-0°12'53
minimum elong	-3075 May 28 j 07:32	10°♉24'32	0°12'50
behind sun begin	-3075 May 28 j 02:33	10°♉21'46	
behind sun end	-3075 May 28 j 12:31	10°♉27'18	
max. Earth dist.	-3075 May 29 j 01:54	10°♉34'46	6.26401 AU
morning rise	-3075 Jun 10 j 23:06	13°♉26'42	
	-3075 Jun 18 j 00:40	15°♉	
	-3075 Sep 13 j 21:01	0°♊	
asc. node	-3075 Sep 19 j 06:26	0°♊25'59	
retrograde	-3075 Oct 12 j 06:19	1°♊17'00	
	-3075 Nov 09 j 10:16	30°℞♉	
opposition	-3075 Dec 10 j 20:02	26°♉18'04	0°13'35
min. Earth dist.	-3075 Dec 10 j 16:25	26°♉19'16	4.31427 AU
direct	-3074 Feb 09 j 18:07	21°♉14'41	
	-3074 May 02 j 16:17	0°♊	
evening set	-3074 Jun 17 j 09:44	9°♊22'15	
conjunction	-3074 Jun 30 j 20:10	12°♊18'49	0°30'57
minimum elong	-3074 Jun 30 j 20:08	12°♊18'48	0°31'03
max. Earth dist.	-3074 Jun 30 j 12:49	12°♊14'47	6.35589 AU
morning rise	-3074 Jul 14 j 03:42	15°♊13'51	
	-3074 Oct 03 j 10:04	0°♋	
retrograde	-3074 Nov 12 j 03:08	2°♋25'30	
	-3074 Dec 22 j 00:38	30°℞♊	
opposition	-3073 Jan 11 j 01:40	27°♊30'19	1°11'53
min. Earth dist.	-3073 Jan 11 j 13:34	27°♊26'26	4.38530 AU
direct	-3073 Mar 14 j 01:21	22°♊26'49	
	-3073 May 29 j 05:34	0°♋	
evening set	-3073 Jul 19 j 16:48	10°♋19'56	
conjunction	-3073 Aug 01 j 18:10	13°♋10'56	1°04'47
minimum elong	-3073 Aug 01 j 18:07	13°♋10'54	1°04'52
max. Earth dist.	-3073 Jul 31 j 13:50	12°♋55'25	6.40003 AU
morning rise	-3073 Aug 14 j 16:11	16°♋00'18	
	-3073 Oct 29 j 09:32	0°♌	
retrograde	-3073 Dec 12 j 21:51	2°♌58'33	
	-3072 Jan 27 j 01:50	30°℞♋	
opposition	-3072 Feb 11 j 06:10	28°♋06'05	1°49'04
min. Earth dist.	-3072 Feb 12 j 07:22	27°♋57'59	4.40115 AU
direct	-3072 Apr 13 j 20:58	23°♋03'48	
	-3072 Jun 25 j 13:50	0°♌	
evening set	-3072 Aug 19 j 00:04	10°♌54'16	
max. Earth dist.	-3072 Aug 29 j 23:08	13°♌19'06	6.38499 AU
conjunction	-3072 Aug 31 j 17:29	13°♌42'30	1°20'14
minimum elong	-3072 Aug 31 j 17:28	13°♌42'30	1°20'18
	-3072 Sep 06 j 13:46	15°♌	
morning rise	-3072 Sep 13 j 08:20	16°♌29'32	
	-3072 Nov 23 j 10:14	0°♍	
retrograde	-3071 Jan 12 j 09:56	3°♍40'23	
	-3071 Mar 04 j 17:58	30°℞♌	
opposition	-3071 Mar 14 j 03:46	28°♌48'53	1°56'13
min. Earth dist.	-3071 Mar 15 j 11:27	28°♌38'48	4.35711 AU
direct	-3071 May 15 j 17:17	23°♌48'46	
	-3071 Jul 22 j 09:20	0°♍	
evening set	-3071 Sep 19 j 00:14	11°♍48'21	
max. Earth dist.	-3071 Sep 29 j 19:28	14°♍13'49	6.31483 AU
conjunction	-3071 Oct 01 j 13:45	14°♍37'38	1°13'06
minimum elong	-3071 Oct 01 j 13:47	14°♍37'40	1°13'08
morning rise	-3071 Oct 14 j 01:38	17°♍26'21	
	-3071 Dec 15 j 21:02	0°♎	
retrograde	-3070 Feb 14 j 08:43	5°♎13'25	
opposition	-3070 Apr 16 j 09:23	0°♎21'05	1°29'45
min. Earth dist.	-3070 Apr 17 j 13:50	0°♎12'02	4.26483 AU
	-3070 Apr 19 j 03:43	30°℞♍	
direct	-3070 Jun 17 j 05:09	25°♍23'49	
	-3070 Aug 12 j 22:27	0°♎	
evening set	-3070 Oct 20 j 13:09	13°♎42'20	
max. Earth dist.	-3070 Oct 31 j 18:31	16°♎17'22	6.20832 AU
conjunction	-3070 Nov 02 j 03:05	16°♎36'11	0°43'56
minimum elong	-3070 Nov 02 j 03:08	16°♎36'13	0°43'54
morning rise	-3070 Nov 14 j 17:22	19°♎30'23	
	-3069 Jan 02 j 20:28	0°♏	
retrograde	-3069 Mar 21 j 05:47	8°♏10'51	
opposition	-3069 May 21 j 06:20	3°♏15'58	0°33'40
min. Earth dist.	-3069 May 21 j 22:36	3°♏10'45	4.15042 AU
	-3069 Jun 18 j 03:04	30°℞♎	
direct	-3069 Jul 20 j 20:57	28°♎21'19	
	-3069 Aug 22 j 06:53	0°♏	
	-3069 Nov 13 j 10:58	15°♏	

Attention, astronomical year style is used: The year -3069 in astronomical counting style is the year 3070 BCE in historical counting style.

evening set	-3069 Nov 22 j 09:54	17°♏05'05	
desc. node	-3069 Nov 30 j 19:47	19°♏03'50	
conjunction	-3069 Dec 05 j 04:22	20°♏05'35	-0°00'33
minimum elong	-3069 Dec 05 j 04:21	20°♏05'34	0°00'37
behind sun begin	-3069 Dec 04 j 20:18	20°♏00'51	
behind sun end	-3069 Dec 05 j 12:24	20°♏10'18	
max. Earth dist.	-3069 Dec 04 j 18:18	19°♏59'40	6.09686 AU
morning rise	-3069 Dec 18 j 00:30	23°♏07'13	
	-3068 Jan 17 j 07:45	0°♐	
retrograde	-3068 Apr 25 j 19:40	12°♐44'42	
opposition	-3068 Jun 25 j 13:54	7°♐46'12	-0°37'00
min. Earth dist.	-3068 Jun 25 j 11:31	7°♐46'58	4.05115 AU
direct	-3068 Aug 23 j 19:42	2°♐53'04	
evening set	-3068 Dec 26 j 02:45	22°♐01'11	
conjunction	-3067 Jan 08 j 03:33	25°♐07'54	-0°46'12
minimum elong	-3067 Jan 08 j 03:30	25°♐07'52	0°46'19
max. Earth dist.	-3067 Jan 08 j 19:36	25°♐17'29	6.01872 AU
morning rise	-3067 Jan 21 j 07:34	28°♐16'21	
	-3067 Jan 28 j 15:10	0°♑	
retrograde	-3067 Jun 02 j 06:08	18°♑33'18	
opposition	-3067 Aug 01 j 13:20	13°♑30'52	-1°36'20
min. Earth dist.	-3067 Jul 31 j 16:42	13°♑37'47	4.00320 AU
direct	-3067 Sep 28 j 18:53	8°♑37'07	
evening set	-3066 Jan 31 j 11:44	27°♑58'46	
	-3066 Feb 08 j 23:44	0°♒	
conjunction	-3066 Feb 13 j 20:09	1°♒09'22	-1°15'23
minimum elong	-3066 Feb 13 j 20:07	1°♒09'21	1°15'28
max. Earth dist.	-3066 Feb 15 j 12:42	1°♒33'32	6.00431 AU
morning rise	-3066 Feb 27 j 07:40	4°♒21'36	
	-3066 Apr 16 j 07:13	15°♒	
retrograde	-3066 Jul 09 j 06:23	24°♒39'54	
min. Earth dist.	-3066 Sep 05 j 19:47	19°♒44'57	4.02545 AU
opposition	-3066 Sep 07 j 01:09	19°♒34'58	-1°58'59
	-3066 Oct 20 j 16:59	15°℞♒	
direct	-3066 Nov 04 j 01:14	14°♒38'43	
	-3066 Nov 18 j 10:02	15°♒	
	-3065 Feb 20 j 12:47	0°♓	
evening set	-3065 Mar 09 j 15:05	3°♓55'33	
conjunction	-3065 Mar 23 j 06:10	7°♓06'34	-1°15'54
minimum elong	-3065 Mar 23 j 06:12	7°♓06'35	1°15'55
max. Earth dist.	-3065 Mar 25 j 06:14	7°♓34'39	6.05999 AU
morning rise	-3065 Apr 05 j 23:37	10°♓18'35	
retrograde	-3065 Aug 13 j 14:02	29°♓57'48	
min. Earth dist.	-3065 Oct 10 j 21:39	25°♓02'49	4.10884 AU
opposition	-3065 Oct 12 j 02:29	24°♓52'58	-1°36'47
direct	-3065 Dec 09 j 16:08	19°♓53'30	
	-3064 Mar 04 j 11:27	0°♈	
evening set	-3064 Apr 14 j 06:39	8°♈49'06	
conjunction	-3064 Apr 28 j 01:13	11°♈57'05	-0°48'53
minimum elong	-3064 Apr 28 j 01:17	11°♈57'07	0°48'51
max. Earth dist.	-3064 Apr 29 j 15:00	12°♈18'36	6.16432 AU
morning rise	-3064 May 11 j 20:08	15°♈04'58	
	-3064 Jul 27 j 10:41	0°♉	
retrograde	-3064 Sep 15 j 00:15	3°♉44'16	
	-3064 Nov 03 j 17:11	30°℞♈	
opposition	-3064 Nov 13 j 10:22	28°♈42'01	-0°42'19
min. Earth dist.	-3064 Nov 12 j 17:04	28°♈47'52	4.22273 AU
direct	-3063 Jan 12 j 05:14	23°♈39'53	
	-3063 Mar 20 j 06:15	0°♉	
evening set	-3063 May 19 j 12:39	12°♉07'41	
	-3063 Jun 01 j 11:19	15°♉	

conjunction	-3063 Jun 02 j 05:08	15°♉09'54	-0°06'30
minimum elong	-3063 Jun 02 j 05:08	15°♉09'54	0°06'27
behind sun begin	-3063 Jun 01 j 21:20	15°♉05'35	
behind sun end	-3063 Jun 02 j 12:56	15°♉14'12	
max. Earth dist.	-3063 Jun 02 j 21:21	15°♉18'54	6.27962 AU
morning rise	-3063 Jun 15 j 19:46	18°♉11'02	
asc. node	-3063 Jul 29 j 10:51	27°♉15'50	
	-3063 Aug 13 j 19:46	0°♊	
retrograde	-3063 Oct 16 j 15:52	5°♊54'03	
opposition	-3063 Dec 15 j 07:44	0°♊55'38	0°22'38
min. Earth dist.	-3063 Dec 15 j 05:00	0°♊56'32	4.32921 AU
	-3063 Dec 22 j 08:01	30°℞♉	
direct	-3062 Feb 14 j 08:59	25°♉52'10	
	-3062 Apr 09 j 10:31	0°♊	
evening set	-3062 Jun 22 j 01:47	13°♊56'00	
conjunction	-3062 Jul 05 j 10:52	16°♊51'28	0°36'32
minimum elong	-3062 Jul 05 j 10:49	16°♊51'27	0°36'38
max. Earth dist.	-3062 Jul 05 j 00:50	16°♊45'59	6.36920 AU
morning rise	-3062 Jul 18 j 17:00	19°♊45'23	
	-3062 Sep 07 j 13:58	0°♋	
retrograde	-3062 Nov 16 j 11:36	6°♋52'05	
opposition	-3061 Jan 15 j 11:00	1°♋57'22	1°18'33
min. Earth dist.	-3061 Jan 16 j 01:15	1°♋52'43	4.39617 AU
	-3061 Jan 30 j 20:48	30°℞♊	
direct	-3061 Mar 18 j 14:57	26°♊53'59	
	-3061 May 04 j 11:56	0°♋	
evening set	-3061 Jul 24 j 03:09	14°♋44'03	
max. Earth dist.	-3061 Aug 04 j 20:07	17°♋17'12	6.40740 AU
conjunction	-3061 Aug 06 j 03:10	17°♋34'11	1°08'06
minimum elong	-3061 Aug 06 j 03:08	17°♋34'09	1°08'12
morning rise	-3061 Aug 18 j 23:57	20°♋22'44	
	-3061 Oct 05 j 11:47	0°♌	
retrograde	-3061 Dec 17 j 04:14	7°♌19'10	
opposition	-3060 Feb 15 j 14:50	2°♌26'53	1°51'50
min. Earth dist.	-3060 Feb 16 j 17:08	2°♌18'26	4.40473 AU
	-3060 Mar 06 j 13:32	30°℞♋	
direct	-3060 Apr 18 j 06:38	27°♋24'46	
	-3060 May 31 j 00:29	0°♌	
	-3060 Aug 22 j 05:18	15°♌	
evening set	-3060 Aug 23 j 06:26	15°♌13'46	
max. Earth dist.	-3060 Sep 03 j 04:54	17°♌38'20	6.38437 AU
conjunction	-3060 Sep 04 j 23:03	18°♌01'38	1°20'33
minimum elong	-3060 Sep 04 j 23:03	18°♌01'38	1°20'37
morning rise	-3060 Sep 17 j 12:59	20°♌48'21	
	-3060 Nov 01 j 02:21	0°♍	
retrograde	-3059 Jan 16 j 18:31	8°♍00'55	
opposition	-3059 Mar 18 j 14:12	3°♍09'27	1°54'26
min. Earth dist.	-3059 Mar 19 j 22:32	2°♍59'10	4.35215 AU
	-3059 Apr 14 j 12:17	30°℞♌	
direct	-3059 May 20 j 02:56	28°♌09'40	
	-3059 Jun 24 j 15:11	0°♍	
evening set	-3059 Sep 23 j 05:34	16°♍09'41	
max. Earth dist.	-3059 Oct 03 j 22:54	18°♍34'30	6.30575 AU
conjunction	-3059 Oct 05 j 18:40	18°♍59'13	1°10'18
minimum elong	-3059 Oct 05 j 18:43	18°♍59'14	1°10'20
morning rise	-3059 Oct 18 j 06:42	21°♍48'19	
	-3059 Nov 25 j 14:33	0°♎	
retrograde	-3058 Feb 18 j 22:50	9°♎40'45	
opposition	-3058 Apr 20 j 23:40	4°♎48'10	1°23'39
min. Earth dist.	-3058 Apr 22 j 03:51	4°♎39'11	4.25191 AU
	-3058 Jun 11 j 23:51	30°℞♍	
direct	-3058 Jun 21 j 16:33	29°♍51'11	
	-3058 Jul 01 j 09:44	0°♎	

Attention, astronomical year style is used: The year -3058 in astronomical counting style is the year 3059 BCE in historical counting style.

evening set	-3058 Oct 24 j 20:58	18°♎12'31	
max. Earth dist.	-3058 Nov 05 j 05:09	20°♎49'39	6.19282 AU
conjunction	-3058 Nov 06 j 11:28	21°♎07'13	0°38'35
minimum elong	-3058 Nov 06 j 11:31	21°♎07'14	0°38'32
morning rise	-3058 Nov 19 j 02:14	24°♎02'20	
	-3058 Dec 15 j 16:54	0°♏	
retrograde	-3057 Mar 26 j 01:46	12°♏50'54	
opposition	-3057 May 26 j 01:39	7°♏55'41	0°24'31
min. Earth dist.	-3057 May 26 j 16:36	7°♏50'52	4.13339 AU
direct	-3057 Jul 25 j 11:39	3°♏01'20	
desc. node	-3057 Oct 12 j 14:10	11°♏49'46	
	-3057 Oct 27 j 22:21	15°♏	
evening set	-3057 Nov 26 j 23:54	21°♏49'48	
conjunction	-3057 Dec 09 j 19:02	24°♏51'23	-0°07'02
minimum elong	-3057 Dec 09 j 19:01	24°♏51'23	0°07'06
behind sun begin	-3057 Dec 09 j 11:34	24°♏46'59	
behind sun end	-3057 Dec 10 j 02:29	24°♏55'46	
max. Earth dist.	-3057 Dec 09 j 10:10	24°♏46'09	6.07980 AU
morning rise	-3057 Dec 22 j 16:24	27°♏54'16	
	-3057 Dec 31 j 15:28	0°♐	
retrograde	-3056 Apr 30 j 21:39	17°♐40'32	
opposition	-3056 Jun 30 j 14:12	12°♐41'31	-0°46'19
min. Earth dist.	-3056 Jun 30 j 09:17	12°♐43'08	4.03563 AU
direct	-3056 Aug 28 j 15:24	7°♐48'25	
evening set	-3056 Dec 31 j 00:21	27°♐01'38	
	-3055 Jan 12 j 10:42	0°♑	
conjunction	-3055 Jan 13 j 02:27	0°♑09'26	-0°51'30
minimum elong	-3055 Jan 13 j 02:24	0°♑09'24	0°51'35
max. Earth dist.	-3055 Jan 13 j 23:12	0°♑21'52	6.00630 AU
morning rise	-3055 Jan 26 j 07:31	3°♑18'57	
retrograde	-3055 Jun 07 j 12:52	23°♑41'29	
opposition	-3055 Aug 06 j 16:15	18°♑38'39	-1°42'00
min. Earth dist.	-3055 Aug 05 j 18:34	18°♑45'56	3.99543 AU
direct	-3055 Oct 03 j 19:15	13°♑44'43	
	-3054 Jan 23 j 04:59	0°♒	
evening set	-3054 Feb 05 j 16:08	3°♒09'31	
conjunction	-3054 Feb 19 j 01:36	6°♒20'44	-1°17'12
minimum elong	-3054 Feb 19 j 01:35	6°♒20'44	1°17'17
max. Earth dist.	-3054 Feb 20 j 19:54	6°♒45'56	6.00175 AU
morning rise	-3054 Mar 04 j 14:24	9°♒33'35	
	-3054 Mar 28 j 03:43	15°♒	
retrograde	-3054 Jul 14 j 08:45	29°♒51'02	
min. Earth dist.	-3054 Sep 10 j 19:12	24°♒56'34	4.02859 AU
opposition	-3054 Sep 12 j 02:24	24°♒45'57	-1°58'22
direct	-3054 Nov 09 j 01:44	19°♒49'17	
	-3053 Feb 01 j 19:33	0°♓	
evening set	-3053 Mar 14 j 21:38	9°♓05'52	
conjunction	-3053 Mar 28 j 13:36	12°♓16'54	-1°13'26
minimum elong	-3053 Mar 28 j 13:39	12°♓16'56	1°13'28
max. Earth dist.	-3053 Mar 30 j 13:50	12°♓45'02	6.06856 AU
morning rise	-3053 Apr 11 j 07:38	15°♓28'47	
	-3053 Jun 21 j 11:21	0°♈	
retrograde	-3053 Aug 18 j 12:57	5°♈01'26	
opposition	-3053 Oct 16 j 23:31	29°♓56'45	-1°30'25
min. Earth dist.	-3053 Oct 15 j 20:02	0°♈06'09	4.12148 AU
	-3053 Oct 16 j 14:01	30°℞♓	
direct	-3053 Dec 14 j 17:24	24°♓56'48	
	-3052 Feb 10 j 17:52	0°♈	
evening set	-3052 Apr 19 j 10:06	13°♈49'06	
conjunction	-3052 May 03 j 04:52	16°♈56'27	-0°43'21
minimum elong	-3052 May 03 j 04:55	16°♈56'29	0°43'18
max. Earth dist.	-3052 May 04 j 17:59	17°♈17'31	6.17996 AU
morning rise	-3052 May 16 j 23:30	20°♈03'33	
	-3052 Jul 03 j 01:46	0°♉	
retrograde	-3052 Sep 19 j 14:30	8°♉34'04	
min. Earth dist.	-3052 Nov 17 j 09:15	3°♉37'51	4.23943 AU
opposition	-3052 Nov 18 j 01:51	3°♉32'14	-0°33'05
	-3052 Dec 17 j 07:22	30°℞♈	
direct	-3051 Jan 16 j 23:58	28°♈29'48	
	-3051 Feb 17 j 03:59	0°♉	
	-3051 May 15 j 19:05	15°♉	
evening set	-3051 May 24 j 10:22	16°♉53'21	
asc. node	-3051 Jun 06 j 23:41	19°♉53'21	
conjunction	-3051 Jun 07 j 01:56	19°♉54'31	0°00'01
minimum elong	-3051 Jun 07 j 01:54	19°♉54'30	0°00'06
behind sun begin	-3051 Jun 06 j 17:53	19°♉50'05	
behind sun end	-3051 Jun 07 j 09:54	19°♉58'55	
max. Earth dist.	-3051 Jun 07 j 13:38	20°♉01'00	6.29580 AU
morning rise	-3051 Jun 20 j 15:36	22°♉54'32	
	-3051 Jul 24 j 03:58	0°♊	
retrograde	-3051 Oct 21 j 03:08	10°♊30'22	
opposition	-3051 Dec 19 j 19:07	5°♊32'28	0°31'34
min. Earth dist.	-3051 Dec 19 j 19:37	5°♊32'18	4.34325 AU
direct	-3050 Feb 19 j 01:48	0°♊28'52	
evening set	-3050 Jun 26 j 17:12	18°♊29'23	
conjunction	-3050 Jul 10 j 01:08	21°♊23'55	0°41'58
minimum elong	-3050 Jul 10 j 01:06	21°♊23'53	0°42'03
max. Earth dist.	-3050 Jul 09 j 12:27	21°♊16'58	6.37977 AU
morning rise	-3050 Jul 23 j 05:48	24°♊16'48	
	-3050 Aug 19 j 08:02	0°♋	
retrograde	-3050 Nov 20 j 18:24	11°♋19'50	
opposition	-3049 Jan 19 j 20:35	6°♋25'29	1°24'53
min. Earth dist.	-3049 Jan 20 j 12:07	6°♋20'26	4.40270 AU
direct	-3049 Mar 23 j 02:11	1°♋22'11	
evening set	-3049 Jul 28 j 14:00	19°♋10'48	
max. Earth dist.	-3049 Aug 09 j 03:18	21°♋42'02	6.40920 AU
conjunction	-3049 Aug 10 j 12:44	22°♋00'20	1°11'09
minimum elong	-3049 Aug 10 j 12:41	22°♋00'19	1°11'15
morning rise	-3049 Aug 23 j 08:20	24°♋48'20	
	-3049 Sep 16 j 20:03	0°♌	
retrograde	-3049 Dec 21 j 14:25	11°♌45'05	
opposition	-3048 Feb 20 j 01:52	6°♌53'02	1°54'09
min. Earth dist.	-3048 Feb 21 j 06:18	6°♌43'56	4.40174 AU
direct	-3048 Apr 22 j 19:11	1°♌51'11	
	-3048 Aug 05 j 20:06	15°♌	
evening set	-3048 Aug 27 j 15:14	19°♌40'44	
max. Earth dist.	-3048 Sep 07 j 10:42	22°♌04'02	6.37658 AU
conjunction	-3048 Sep 09 j 07:03	22°♌28'36	1°20'30
minimum elong	-3048 Sep 09 j 07:03	22°♌28'36	1°20'32
morning rise	-3048 Sep 21 j 20:30	25°♌15'24	
	-3048 Oct 13 j 20:14	0°♍	
retrograde	-3047 Jan 21 j 08:10	12°♍32'12	
opposition	-3047 Mar 23 j 04:57	7°♍40'37	1°52'04
min. Earth dist.	-3047 Mar 24 j 13:04	7°♍30'23	4.34013 AU
direct	-3047 May 24 j 15:27	2°♍41'09	
evening set	-3047 Sep 27 j 15:30	20°♍43'49	
max. Earth dist.	-3047 Oct 08 j 10:52	23°♍10'14	6.29055 AU
conjunction	-3047 Oct 10 j 04:39	23°♍33'55	1°07'00
minimum elong	-3047 Oct 10 j 04:42	23°♍33'57	1°07'01
morning rise	-3047 Oct 22 j 16:40	26°♍23'42	
	-3047 Nov 07 j 22:04	0°♎	
retrograde	-3046 Feb 23 j 19:17	14°♎23'30	
opposition	-3046 Apr 25 j 20:15	9°♎30'40	1°16'43

Attention, astronomical year style is used: The year -3046 in astronomical counting style is the year 3047 BCE in historical counting style.

min. Earth dist.	-3046 Apr 26 j 23:38	9°♎21'57	4.23440 AU
direct	-3046 Jun 26 j 09:35	4°♎34'06	
evening set	-3046 Oct 29 j 11:13	22°♎59'30	
max. Earth dist.	-3046 Nov 09 j 20:52	25°♎38'10	6.17456 AU
conjunction	-3046 Nov 11 j 02:07	25°♎55'10	0°32'40
minimum elong	-3046 Nov 11 j 02:09	25°♎55'11	0°32'37
morning rise	-3046 Nov 23 j 17:49	28°♎51'27	
	-3046 Nov 28 j 16:50	0°♏	
	-3045 Feb 15 j 18:37	15°♏	
retrograde	-3045 Mar 31 j 04:42	17°♏49'06	
	-3045 May 14 j 06:11	15°℞♏	
opposition	-3045 May 31 j 04:25	12°♏53'22	0°14'36
min. Earth dist.	-3045 May 31 j 16:11	12°♏49'34	4.11582 AU
direct	-3045 Jul 30 j 09:14	7°♏59'17	
desc. node	-3045 Aug 21 j 10:35	8°♏46'12	
	-3045 Oct 07 j 19:33	15°♏	
evening set	-3045 Dec 01 j 20:43	26°♏52'14	
conjunction	-3045 Dec 14 j 16:54	29°♏54'53	-0°13'51
minimum elong	-3045 Dec 14 j 16:53	29°♏54'53	0°13'56
behind sun begin	-3045 Dec 14 j 12:36	29°♏52'21	
behind sun end	-3045 Dec 14 j 21:10	29°♏57'25	
max. Earth dist.	-3045 Dec 14 j 13:30	29°♏52'52	6.06481 AU
	-3045 Dec 15 j 01:31	0°♐	
morning rise	-3045 Dec 27 j 15:10	2°♐58'53	
retrograde	-3044 May 06 j 07:27	22°♐52'38	
opposition	-3044 Jul 05 j 21:07	17°♐53'06	-0°55'53
min. Earth dist.	-3044 Jul 05 j 13:57	17°♐55'27	4.02505 AU
direct	-3044 Sep 02 j 18:36	13°♐00'04	
	-3044 Dec 26 j 13:59	0°♑	
evening set	-3043 Jan 05 j 04:13	2°♑16'09	
conjunction	-3043 Jan 18 j 07:12	5°♑24'37	-0°56'41
minimum elong	-3043 Jan 18 j 07:09	5°♑24'35	0°56'46
max. Earth dist.	-3043 Jan 19 j 07:05	5°♑38'55	6.00110 AU
morning rise	-3043 Jan 31 j 13:33	8°♑34'52	
retrograde	-3043 Jun 12 j 19:23	28°♑59'09	
opposition	-3043 Aug 11 j 22:33	23°♑55'51	-1°47'04
min. Earth dist.	-3043 Aug 10 j 21:39	24°♑04'14	3.99676 AU
direct	-3043 Oct 08 j 23:02	19°♑01'39	
	-3042 Jan 04 j 19:08	0°♒	
evening set	-3042 Feb 10 j 23:20	8°♒25'54	
conjunction	-3042 Feb 24 j 09:49	11°♒37'12	-1°18'31
minimum elong	-3042 Feb 24 j 09:49	11°♒37'12	1°18'35
max. Earth dist.	-3042 Feb 26 j 06:38	12°♒03'50	6.00928 AU
morning rise	-3042 Mar 09 j 23:24	14°♒50'01	
	-3042 Mar 10 j 16:22	15°♒	
	-3042 May 22 j 06:50	0°♓	
retrograde	-3042 Jul 19 j 11:46	5°♓02'12	
min. Earth dist.	-3042 Sep 15 j 21:07	0°♓07'28	4.04145 AU
	-3042 Sep 16 j 19:01	30°℞♒	
opposition	-3042 Sep 17 j 03:57	29°♒56'57	-1°56'51
direct	-3042 Nov 14 j 06:24	24°♒59'47	
	-3041 Jan 10 j 01:53	0°♓	
evening set	-3041 Mar 20 j 03:00	14°♓12'25	
conjunction	-3041 Apr 02 j 19:39	17°♓22'57	-1°10'31
minimum elong	-3041 Apr 02 j 19:42	17°♓22'59	1°10'32
max. Earth dist.	-3041 Apr 04 j 20:36	17°♓51'23	6.08550 AU
morning rise	-3041 Apr 16 j 13:56	20°♓34'10	
	-3041 May 29 j 20:23	0°♈	
retrograde	-3041 Aug 23 j 06:45	9°♈57'13	
opposition	-3041 Oct 21 j 17:44	4°♈52'49	-1°23'33
min. Earth dist.	-3041 Oct 20 j 14:50	5°♈01'59	4.14063 AU
	-3041 Dec 10 j 23:40	30°℞♓	
direct	-3041 Dec 19 j 14:36	29°♓52'28	
	-3041 Dec 28 j 06:53	0°♈	
evening set	-3040 Apr 24 j 10:12	18°♈39'32	
conjunction	-3040 May 08 j 04:38	21°♈45'56	-0°37'41
minimum elong	-3040 May 08 j 04:41	21°♈45'57	0°37'40
max. Earth dist.	-3040 May 09 j 13:07	22°♈04'17	6.19962 AU
morning rise	-3040 May 21 j 22:57	24°♈52'00	
	-3040 Jun 14 j 09:24	0°♉	
retrograde	-3040 Sep 24 j 01:53	13°♉13'07	
opposition	-3040 Nov 22 j 13:39	8°♉11'47	-0°23'59
min. Earth dist.	-3040 Nov 22 j 00:11	8°♉16'20	4.25767 AU
direct	-3039 Jan 21 j 17:15	3°♉09'04	
asc. node	-3039 Apr 16 j 22:43	12°♉40'45	
	-3039 Apr 28 j 17:08	15°♉	
evening set	-3039 May 29 j 03:38	21°♉28'16	
conjunction	-3039 Jun 11 j 18:28	24°♉28'27	0°06'18
minimum elong	-3039 Jun 11 j 18:27	24°♉28'27	0°06'23
behind sun begin	-3039 Jun 11 j 10:41	24°♉24'11	
behind sun end	-3039 Jun 12 j 02:14	24°♉32'44	
max. Earth dist.	-3039 Jun 12 j 03:30	24°♉33'26	6.31126 AU
morning rise	-3039 Jun 25 j 06:54	27°♉27'22	
	-3039 Jul 06 j 23:55	0°♊	
retrograde	-3039 Oct 25 j 09:04	14°♊56'59	
opposition	-3039 Dec 24 j 03:08	9°♊59'40	0°40'01
min. Earth dist.	-3039 Dec 24 j 05:30	9°♊58'53	4.35487 AU
direct	-3038 Feb 23 j 12:45	4°♊56'04	
evening set	-3038 Jul 01 j 05:08	22°♊54'21	
conjunction	-3038 Jul 14 j 11:39	25°♊48'03	0°46'59
minimum elong	-3038 Jul 14 j 11:36	25°♊48'01	0°47'04
max. Earth dist.	-3038 Jul 13 j 17:59	25°♊38'24	6.38650 AU
morning rise	-3038 Jul 27 j 15:09	28°♊40'11	
	-3038 Aug 02 j 18:48	0°♋	
retrograde	-3038 Nov 25 j 02:04	15°♋41'19	
opposition	-3037 Jan 24 j 04:23	10°♋47'25	1°30'36
min. Earth dist.	-3037 Jan 24 j 23:13	10°♋41'18	4.40437 AU
direct	-3037 Mar 27 j 13:11	5°♋44'16	
evening set	-3037 Aug 01 j 22:49	23°♋33'08	
max. Earth dist.	-3037 Aug 13 j 09:06	26°♋02'56	6.40547 AU
conjunction	-3037 Aug 14 j 20:34	26°♋22'22	1°13'44
minimum elong	-3037 Aug 14 j 20:32	26°♋22'21	1°13'49
morning rise	-3037 Aug 27 j 15:03	29°♋10'06	
	-3037 Aug 31 j 10:54	0°♌	
	-3037 Nov 28 j 16:32	15°♌	
retrograde	-3037 Dec 25 j 23:03	16°♌09'13	
	-3036 Jan 22 j 08:03	15°℞♌	
opposition	-3036 Feb 24 j 12:17	11°♌17'21	1°55'51
min. Earth dist.	-3036 Feb 25 j 17:04	11°♌08'08	4.39320 AU
direct	-3036 Apr 27 j 04:19	6°♌15'50	
	-3036 Jul 18 j 19:31	15°♌	
evening set	-3036 Aug 31 j 23:56	24°♌07'52	
max. Earth dist.	-3036 Sep 11 j 18:44	26°♌31'16	6.36386 AU
conjunction	-3036 Sep 13 j 15:08	26°♌55'58	1°19'57
minimum elong	-3036 Sep 13 j 15:09	26°♌55'59	1°20'00
morning rise	-3036 Sep 26 j 04:07	29°♌43'07	
	-3036 Sep 27 j 10:43	0°♍	
retrograde	-3035 Jan 26 j 00:24	17°♍05'55	
opposition	-3035 Mar 27 j 21:09	12°♍14'21	1°48'59
min. Earth dist.	-3035 Mar 29 j 05:50	12°♍03'57	4.32399 AU
direct	-3035 May 29 j 05:55	7°♍15'21	
evening set	-3035 Oct 02 j 02:42	25°♍21'53	
max. Earth dist.	-3035 Oct 12 j 22:32	27°♍49'15	6.27239 AU

Attention, astronomical year style is used: The year -3035 in astronomical counting style is the year 3036 BCE in historical counting style.

conjunction	-3035 Oct 14 j 15:51	28°♍12'45	1°03'13	
minimum elong	-3035 Oct 14 j 15:54	28°♍12'47	1°03'13	
	-3035 Oct 22 j 12:23	0°♎		
morning rise	-3035 Oct 27 j 04:17	1°♎03'27		
retrograde	-3034 Feb 28 j 17:21	19°♎11'48		
opposition	-3034 Apr 30 j 19:06	14°♎18'38	1°09'09	
min. Earth dist.	-3034 May 01 j 19:39	14°♎10'47	4.21551 AU	
direct	-3034 Jul 01 j 03:27	9°♎22'31		
evening set	-3034 Nov 03 j 03:35	27°♎52'18		
	-3034 Nov 12 j 07:13	0°♏		
conjunction	-3034 Nov 15 j 19:09	0°♏49'00	0°26'25	
minimum elong	-3034 Nov 15 j 19:11	0°♏49'01	0°26'23	
max. Earth dist.	-3034 Nov 14 j 18:49	0°♏34'48	6.15683 AU	
morning rise	-3034 Nov 28 j 11:31	3°♏46'22		
	-3033 Jan 19 j 20:09	15°♏		
retrograde	-3033 Apr 05 j 11:37	22°♏52'42		
opposition	-3033 Jun 05 j 09:06	17°♏56'30	0°04'23	
min. Earth dist.	-3033 Jun 05 j 18:42	17°♏53'24	4.10066 AU	
desc. node	-3033 Jun 29 j 22:44	14°♏59'06		
	-3033 Jun 29 j 19:14	15°℞♏		
direct	-3033 Aug 04 j 10:00	13°♏02'42		
	-3033 Sep 08 j 12:06	15°♏		
	-3033 Nov 28 j 08:34	0°♐		
evening set	-3033 Dec 06 j 19:27	1°♐59'07		
conjunction	-3033 Dec 19 j 16:25	5°♐02'38	-0°20'38	
minimum elong	-3033 Dec 19 j 16:23	5°♐02'37	0°20'44	
max. Earth dist.	-3033 Dec 19 j 16:26	5°♐02'39	6.05354 AU	
morning rise	-3032 Jan 01 j 15:55	8°♐07'37		
retrograde	-3032 May 11 j 14:30	28°♐06'57		
opposition	-3032 Jul 11 j 04:06	23°♐06'47	-1°05'02	
min. Earth dist.	-3032 Jul 10 j 16:54	23°♐10'29	4.01896 AU	
direct	-3032 Sep 07 j 20:45	18°♐13'44		
	-3032 Dec 08 j 14:37	0°♑		
evening set	-3031 Jan 10 j 08:06	7°♑31'03		
conjunction	-3031 Jan 23 j 12:08	10°♑39'58	-1°01'24	
minimum elong	-3031 Jan 23 j 12:04	10°♑39'56	1°01'30	
max. Earth dist.	-3031 Jan 24 j 16:15	10°♑56'49	6.00043 AU	
morning rise	-3031 Feb 05 j 19:24	13°♑50'38		
	-3031 Apr 25 j 19:15	0°♒		
retrograde	-3031 Jun 18 j 02:06	4°♒14'47		
	-3031 Aug 11 j 01:45	30°℞♑		
min. Earth dist.	-3031 Aug 16 j 01:43	29°♑19'44	4.00160 AU	
opposition	-3031 Aug 17 j 03:32	29°♑11'02	-1°51'14	
direct	-3031 Oct 14 j 04:28	24°♑16'27		
	-3031 Dec 13 j 21:44	0°♒		
evening set	-3030 Feb 16 j 05:13	13°♒39'04		
	-3030 Feb 21 j 22:18	15°♒		
conjunction	-3030 Mar 01 j 16:40	16°♒50'20	-1°19'13	
minimum elong	-3030 Mar 01 j 16:40	16°♒50'20	1°19'16	
max. Earth dist.	-3030 Mar 03 j 15:52	17°♒18'16	6.01900 AU	
morning rise	-3030 Mar 15 j 07:02	20°♒03'01		
	-3030 Apr 29 j 03:58	0°♓		
retrograde	-3030 Jul 24 j 11:59	10°♓09'00		
min. Earth dist.	-3030 Sep 20 j 19:54	5°♓14'21	4.05515 AU	
opposition	-3030 Sep 22 j 03:02	5°♓03'44	-1°54'29	
direct	-3030 Nov 19 j 06:33	0°♓06'08		
evening set	-3029 Mar 25 j 06:52	19°♓14'56		
conjunction	-3029 Apr 07 j 23:52	22°♓24'56	-1°07'08	
minimum elong	-3029 Apr 07 j 23:56	22°♓24'58	1°07'08	
max. Earth dist.	-3029 Apr 09 j 21:49	22°♓51'31	6.10190 AU	
morning rise	-3029 Apr 21 j 18:35	25°♓35'32		
	-3029 May 11 j 08:14	0°♈		
retrograde	-3029 Aug 27 j 22:43	14°♈49'33		
min. Earth dist.	-3029 Oct 25 j 09:12	9°♈53'58	4.15795 AU	
opposition	-3029 Oct 26 j 10:13	9°♈45'26	-1°16'16	
direct	-3029 Dec 24 j 11:22	4°♈44'38		
evening set	-3028 Apr 29 j 08:45	23°♈27'19		
conjunction	-3028 May 13 j 03:11	26°♈32'57	-0°31'52	
minimum elong	-3028 May 13 j 03:13	26°♈32'58	0°31'49	
max. Earth dist.	-3028 May 14 j 09:39	26°♈50'06	6.21677 AU	
morning rise	-3028 May 26 j 20:50	29°♈38'02		
	-3028 May 28 j 12:15	0°♉		
	-3028 Aug 16 j 13:53	15°♉		
retrograde	-3028 Sep 28 j 12:30	17°♉50'54		
	-3028 Nov 10 j 09:06	15°℞♉		
opposition	-3028 Nov 27 j 00:56	12°♉50'08	-0°14'49	
min. Earth dist.	-3028 Nov 26 j 13:29	12°♉53'58	4.27308 AU	
direct	-3027 Jan 26 j 08:45	7°♉47'14		
asc. node	-3027 Feb 24 j 17:56	9°♉06'53		
	-3027 Apr 09 j 04:23	15°♉		
evening set	-3027 Jun 02 j 20:44	26°♉03'00		
conjunction	-3027 Jun 16 j 10:29	29°♉02'16	0°12'27	
minimum elong	-3027 Jun 16 j 10:27	29°♉02'15	0°12'32	
behind sun begin	-3027 Jun 16 j 05:16	28°♉59'24		
behind sun end	-3027 Jun 16 j 15:39	29°♉05'06		
max. Earth dist.	-3027 Jun 16 j 14:06	29°♉04'15	6.32372 AU	
	-3027 Jun 20 j 19:12	0°♊		
morning rise	-3027 Jun 29 j 21:59	2°♊00'13		
retrograde	-3027 Oct 29 j 16:56	19°♊24'44		
opposition	-3027 Dec 28 j 11:47	14°♊27'54	0°48'15	
min. Earth dist.	-3027 Dec 28 j 17:12	14°♊26'07	4.36371 AU	
direct	-3026 Feb 28 j 01:49	9°♊24'13		
evening set	-3026 Jul 05 j 17:31	27°♊20'58		
	-3026 Jul 17 j 21:20	0°♋		
conjunction	-3026 Jul 18 j 22:59	0°♋14'01	0°51'46	
minimum elong	-3026 Jul 18 j 22:56	0°♋13'59	0°51'52	
max. Earth dist.	-3026 Jul 18 j 03:23	0°♋03'18	6.39102 AU	
morning rise	-3026 Aug 01 j 01:01	3°♋05'24		
retrograde	-3026 Nov 29 j 08:47	20°♋05'15		
opposition	-3025 Jan 28 j 13:16	15°♋11'44	1°35'53	
min. Earth dist.	-3025 Jan 29 j 09:08	15°♋05'18	4.40458 AU	
direct	-3025 Mar 31 j 23:11	10°♋08'46		
evening set	-3025 Aug 06 j 08:36	27°♋58'01		
	-3025 Aug 15 j 15:37	0°♌		
max. Earth dist.	-3025 Aug 17 j 14:47	0°♌25'53	6.40119 AU	
conjunction	-3025 Aug 19 j 05:08	0°♌46'57	1°15'57	
minimum elong	-3025 Aug 19 j 05:06	0°♌46'56	1°16'01	
morning rise	-3025 Aug 31 j 22:47	3°♌34'28		
	-3025 Oct 28 j 17:56	15°♌		
retrograde	-3025 Dec 30 j 11:07	20°♌36'07		
opposition	-3024 Feb 29 j 00:35	15°♌44'25	1°56'54	
min. Earth dist.	-3024 Mar 01 j 07:09	15°♌34'39	4.38488 AU	
	-3024 Mar 05 j 19:59	15°℞♌		
direct	-3024 May 01 j 17:22	10°♌43'13		
	-3024 Jun 26 j 08:29	15°♌		
evening set	-3024 Sep 05 j 09:18	28°♌37'13		
	-3024 Sep 11 j 14:30	0°♍		
max. Earth dist.	-3024 Sep 16 j 03:51	1°♍00'55	6.35220 AU	
conjunction	-3024 Sep 18 j 00:04	1°♍25'35	1°18'57	
minimum elong	-3024 Sep 18 j 00:05	1°♍25'36	1°19'00	
morning rise	-3024 Sep 30 j 12:39	4°♍13'03		
retrograde	-3023 Jan 30 j 15:36	21°♍41'29		
opposition	-3023 Apr 01 j 14:20	16°♍49'46	1°45'15	
min. Earth dist.	-3023 Apr 02 j 21:15	16°♍39'57	4.30998 AU	

Attention, astronomical year style is used: The year -3023 in astronomical counting style is the year 3024 BCE in historical counting style.

direct	-3023 Jun 02 j 19:29	11°♍51'14	
evening set	-3023 Oct 06 j 14:25	0°♎00'42	
	-3023 Oct 06 j 13:12	0°♎	
max. Earth dist.	-3023 Oct 17 j 13:08	2°♎30'13	6.25743 AU
conjunction	-3023 Oct 19 j 03:39	2°♎52'13	0°59'03
minimum elong	-3023 Oct 19 j 03:42	2°♎52'14	0°59'03
morning rise	-3023 Oct 31 j 16:19	5°♎43'40	
retrograde	-3022 Mar 05 j 17:16	23°♎59'21	
opposition	-3022 May 05 j 18:02	19°♎05'52	1°01'08
min. Earth dist.	-3022 May 06 j 17:24	18°♎58'24	4.20052 AU
direct	-3022 Jul 05 j 23:25	14°♎10'09	
	-3022 Oct 26 j 23:53	0°♏	
evening set	-3022 Nov 07 j 19:21	2°♏42'53	
conjunction	-3022 Nov 20 j 11:29	5°♏40'25	0°20'05
minimum elong	-3022 Nov 20 j 11:30	5°♏40'25	0°20'02
max. Earth dist.	-3022 Nov 19 j 13:55	5°♏27'48	6.14325 AU
morning rise	-3022 Dec 03 j 04:46	8°♏38'45	
	-3022 Dec 31 j 08:12	15°♏	
retrograde	-3021 Apr 10 j 14:05	27°♏52'09	
desc. node	-3021 May 09 j 17:57	26°♏33'56	
opposition	-3021 Jun 10 j 12:09	22°♏55'24	-0°05'41
min. Earth dist.	-3021 Jun 10 j 17:47	22°♏53'34	4.08972 AU
direct	-3021 Aug 09 j 07:19	18°♏01'51	
	-3021 Nov 11 j 00:41	0°♐	
evening set	-3021 Dec 11 j 16:23	7°♐00'25	
conjunction	-3021 Dec 24 j 14:12	10°♐04'36	-0°27'07
minimum elong	-3021 Dec 24 j 14:10	10°♐04'35	0°27'13
max. Earth dist.	-3021 Dec 24 j 18:50	10°♐07'22	6.04615 AU
morning rise	-3020 Jan 06 j 14:35	13°♐10'19	
	-3020 Mar 31 j 11:43	0°♑	
retrograde	-3020 May 16 j 20:01	3°♑13'50	
	-3020 Jul 02 j 13:46	30°℞♐	
opposition	-3020 Jul 16 j 08:10	28°♐13'06	-1°13'25
min. Earth dist.	-3020 Jul 15 j 19:14	28°♐17'23	4.01589 AU
direct	-3020 Sep 12 j 23:04	23°♐19'56	
	-3020 Nov 18 j 04:34	0°♑	
evening set	-3019 Jan 15 j 09:24	12°♑37'44	
conjunction	-3019 Jan 28 j 14:24	15°♑47'00	-1°05'31
minimum elong	-3019 Jan 28 j 14:21	15°♑46'58	1°05'37
max. Earth dist.	-3019 Jan 29 j 22:05	16°♑05'56	6.00176 AU
morning rise	-3019 Feb 10 j 22:39	18°♑58'01	
	-3019 Apr 01 j 16:56	0°♒	
retrograde	-3019 Jun 23 j 04:52	9°♒21'01	
min. Earth dist.	-3019 Aug 21 j 01:22	4°♒26'10	4.00751 AU
opposition	-3019 Aug 22 j 04:32	4°♒16'59	-1°54'23
	-3019 Sep 29 j 23:59	30°℞♑	
direct	-3019 Oct 19 j 04:19	29°♑22'05	
	-3019 Nov 07 j 09:54	0°♒	
	-3018 Feb 05 j 07:24	15°♒	
evening set	-3018 Feb 21 j 08:02	18°♒43'08	
conjunction	-3018 Mar 06 j 20:14	21°♒54'19	-1°19'17
minimum elong	-3018 Mar 06 j 20:15	21°♒54'19	1°19'21
max. Earth dist.	-3018 Mar 08 j 18:29	22°♒21'37	6.02858 AU
morning rise	-3018 Mar 20 j 11:30	25°♒06'54	
	-3018 Apr 10 j 18:13	0°♓	
retrograde	-3018 Jul 29 j 07:33	15°♓07'04	
opposition	-3018 Sep 26 j 22:43	10°♓01'49	-1°51'22
min. Earth dist.	-3018 Sep 25 j 16:08	10°♓12'16	4.06734 AU
direct	-3018 Nov 24 j 04:23	5°♓03'45	
evening set	-3017 Mar 30 j 07:28	24°♓09'37	
conjunction	-3017 Apr 13 j 01:10	27°♓19'17	-1°03'22
minimum elong	-3017 Apr 13 j 01:13	27°♓19'19	1°03'22
max. Earth dist.	-3017 Apr 14 j 22:25	27°♓45'22	6.11586 AU
	-3017 Apr 24 j 16:40	0°♈	
morning rise	-3017 Apr 26 j 19:56	0°♈29'19	
retrograde	-3017 Sep 01 j 13:59	19°♈35'34	
min. Earth dist.	-3017 Oct 30 j 01:25	14°♈39'43	4.17218 AU
opposition	-3017 Oct 31 j 00:24	14°♈31'54	-1°08'42
direct	-3017 Dec 29 j 05:15	9°♈30'50	
evening set	-3016 May 04 j 05:33	28°♈10'27	
	-3016 May 12 j 09:16	0°♉	
conjunction	-3016 May 17 j 23:36	1°♉15'25	-0°25'57
minimum elong	-3016 May 17 j 23:39	1°♉15'26	0°25'54
max. Earth dist.	-3016 May 19 j 01:37	1°♉30'00	6.23023 AU
morning rise	-3016 May 31 j 16:54	4°♉19'44	
	-3016 Jul 22 j 09:20	15°♉	
retrograde	-3016 Oct 02 j 21:41	22°♉25'56	
opposition	-3016 Dec 01 j 11:01	17°♉25'43	-0°05'45
min. Earth dist.	-3016 Dec 01 j 01:44	17°♉28'50	4.28480 AU
	-3016 Dec 20 j 09:44	15°℞♉	
asc. node	-3015 Jan 05 j 05:11	13°♉25'35	
direct	-3015 Jan 30 j 22:55	12°♉22'38	
	-3015 Mar 13 j 23:34	15°♉	
	-3015 Jun 04 j 18:11	0°♊	
evening set	-3015 Jun 07 j 12:50	0°♊36'21	
conjunction	-3015 Jun 21 j 01:46	3°♊34'52	0°18'29
minimum elong	-3015 Jun 21 j 01:44	3°♊34'51	0°18'33
max. Earth dist.	-3015 Jun 21 j 02:57	3°♊35'31	6.33306 AU
morning rise	-3015 Jul 04 j 12:00	6°♊31'58	
retrograde	-3015 Nov 03 j 00:50	23°♊52'32	
opposition	-3014 Jan 01 j 20:27	18°♊56'16	0°56'07
min. Earth dist.	-3014 Jan 02 j 03:45	18°♊53'52	4.37016 AU
direct	-3014 Mar 04 j 13:42	13°♊52'42	
	-3014 Jul 01 j 20:19	0°♋	
evening set	-3014 Jul 10 j 05:42	1°♋48'28	
max. Earth dist.	-3014 Jul 22 j 10:14	4°♋27'59	6.39397 AU
conjunction	-3014 Jul 23 j 09:47	4°♋40'52	0°56'13
minimum elong	-3014 Jul 23 j 09:44	4°♋40'50	0°56'19
morning rise	-3014 Aug 05 j 10:43	7°♋31'39	
retrograde	-3014 Dec 03 j 17:38	24°♋30'46	
opposition	-3013 Feb 01 j 22:52	19°♋37'34	1°40'37
min. Earth dist.	-3013 Feb 02 j 20:45	19°♋30'29	4.40417 AU
direct	-3013 Apr 05 j 11:02	14°♋34'45	
	-3013 Jul 30 j 15:02	0°♌	
evening set	-3013 Aug 10 j 18:10	2°♌24'14	
max. Earth dist.	-3013 Aug 21 j 23:40	4°♌51'55	6.39734 AU
conjunction	-3013 Aug 23 j 13:50	5°♌12'54	1°17'42
minimum elong	-3013 Aug 23 j 13:48	5°♌12'53	1°17'46
morning rise	-3013 Sep 05 j 06:21	8°♌00'09	
	-3013 Oct 08 j 13:29	15°♌	
retrograde	-3012 Jan 03 j 20:50	25°♌04'00	
opposition	-3012 Mar 04 j 12:47	20°♌12'23	1°57'15
min. Earth dist.	-3012 Mar 05 j 19:02	20°♌02'43	4.37789 AU
direct	-3012 May 06 j 04:22	15°♌11'30	
	-3012 Aug 26 j 12:52	0°♍	
evening set	-3012 Sep 09 j 18:21	3°♍06'45	
max. Earth dist.	-3012 Sep 20 j 11:58	5°♍30'21	6.34241 AU
conjunction	-3012 Sep 22 j 08:28	5°♍55'15	1°17'29
minimum elong	-3012 Sep 22 j 08:30	5°♍55'15	1°17'31
morning rise	-3012 Oct 04 j 20:51	8°♍42'59	
retrograde	-3011 Feb 04 j 08:30	26°♍16'21	
opposition	-3011 Apr 06 j 07:08	21°♍24'28	1°40'51
min. Earth dist.	-3011 Apr 07 j 14:21	21°♍14'32	4.29761 AU

Attention, astronomical year style is used: The year -3011 in astronomical counting style is the year 3012 BCE in historical counting style.

direct	-3011 Jun 07 j 10:54	16°♍26'14		
	-3011 Sep 20 j 04:38	0°♎		
evening set	-3011 Oct 11 j 00:53	4°♎37'54		
max. Earth dist.	-3011 Oct 22 j 01:35	7°♎09'00	6.24345 AU	
conjunction	-3011 Oct 23 j 14:22	7°♎30'04	0°54'33	
minimum elong	-3011 Oct 23 j 14:25	7°♎30'06	0°54'32	
morning rise	-3011 Nov 05 j 03:24	10°♎22'16		
retrograde	-3010 Mar 10 j 13:52	28°♎45'00		
opposition	-3010 May 10 j 15:42	23°♎51'05	0°52'44	
min. Earth dist.	-3010 May 11 j 12:24	23°♎44'28	4.18571 AU	
direct	-3010 Jul 10 j 15:47	18°♎55'42		
	-3010 Oct 09 j 17:23	0°♏		
evening set	-3010 Nov 12 j 10:19	7°♏31'32		
max. Earth dist.	-3010 Nov 24 j 08:33	10°♏19'05	6.12891 AU	
conjunction	-3010 Nov 25 j 03:02	10°♏29'56	0°13'39	
minimum elong	-3010 Nov 25 j 03:03	10°♏29'56	0°13'34	
behind sun begin	-3010 Nov 24 j 22:29	10°♏27'16		
behind sun end	-3010 Nov 25 j 07:37	10°♏32'36		
morning rise	-3010 Dec 07 j 21:09	13°♏29'15		
	-3010 Dec 14 j 09:31	15°♏		
	-3009 Mar 03 j 04:55	0°♐		
desc. node	-3009 Mar 19 j 20:00	1°♐43'07		
retrograde	-3009 Apr 15 j 17:50	2°♐50'10		
	-3009 May 29 j 17:11	30°℞♏		
opposition	-3009 Jun 15 j 14:08	27°♏52'51	-0°15'43	
min. Earth dist.	-3009 Jun 15 j 18:07	27°♏51'33	4.07685 AU	
direct	-3009 Aug 14 j 05:58	22°♏59'23		
	-3009 Oct 22 j 03:19	0°♐		
evening set	-3009 Dec 16 j 13:20	12°♐01'09		
conjunction	-3009 Dec 29 j 12:08	15°♐06'13	-0°33'25	
minimum elong	-3009 Dec 29 j 12:06	15°♐06'11	0°33'30	
max. Earth dist.	-3009 Dec 29 j 20:37	15°♐11'16	6.03596 AU	
morning rise	-3008 Jan 11 j 13:37	18°♐12'51		
	-3008 Mar 05 j 09:12	0°♑		
retrograde	-3008 May 22 j 01:38	8°♑21'20		
opposition	-3008 Jul 21 j 11:56	3°♑20'06	-1°21'19	
min. Earth dist.	-3008 Jul 20 j 20:35	3°♑25'12	4.00969 AU	
	-3008 Aug 18 j 05:13	30°℞♐		
direct	-3008 Sep 17 j 23:05	28°♐26'49		
	-3008 Oct 18 j 12:35	0°♑		
evening set	-3007 Jan 20 j 11:56	17°♑46'32		
conjunction	-3007 Feb 02 j 17:53	20°♑56'19	-1°09'10	
minimum elong	-3007 Feb 02 j 17:50	20°♑56'17	1°09'15	
max. Earth dist.	-3007 Feb 04 j 03:05	21°♑16'10	5.99977 AU	
morning rise	-3007 Feb 16 j 03:19	24°♑07'52		
	-3007 Mar 13 j 12:16	0°♒		
retrograde	-3007 Jun 28 j 07:59	14°♒30'55		
min. Earth dist.	-3007 Aug 26 j 02:15	9°♒36'08	4.01001 AU	
opposition	-3007 Aug 27 j 06:39	9°♒26'30	-1°56'43	
direct	-3007 Oct 24 j 05:52	4°♒31'10		
	-3006 Jan 17 j 23:43	15°♒		
evening set	-3006 Feb 26 j 13:06	23°♒51'57		
conjunction	-3006 Mar 12 j 02:28	27°♒03'18	-1°18'45	
minimum elong	-3006 Mar 12 j 02:30	27°♒03'19	1°18'48	
max. Earth dist.	-3006 Mar 14 j 02:43	27°♒31'43	6.03537 AU	
	-3006 Mar 24 j 15:13	0°♓		
morning rise	-3006 Mar 25 j 18:21	0°♓15'51		
retrograde	-3006 Aug 03 j 07:34	20°♓10'49		
opposition	-3006 Oct 01 j 20:33	15°♓05'39	-1°47'23	
min. Earth dist.	-3006 Sep 30 j 14:56	15°♓15'46	4.07759 AU	
direct	-3006 Nov 29 j 04:24	10°♓07'10		
evening set	-3005 Apr 04 j 11:30	29°♓10'44		
	-3005 Apr 08 j 01:37	0°♈		
conjunction	-3005 Apr 18 j 05:32	2°♈20'02	-0°59'03	
minimum elong	-3005 Apr 18 j 05:36	2°♈20'04	0°59'03	
max. Earth dist.	-3005 Apr 20 j 00:28	2°♈44'41	6.12874 AU	
morning rise	-3005 May 02 j 00:39	5°♈29'36		
retrograde	-3005 Sep 06 j 06:00	24°♈28'03		
opposition	-3005 Nov 04 j 17:06	19°♈24'49	-1°00'27	
min. Earth dist.	-3005 Nov 03 j 18:48	19°♈32'23	4.18651 AU	
direct	-3004 Jan 03 j 01:22	14°♈23'24		
	-3004 Apr 25 j 14:28	0°♉		
evening set	-3004 May 09 j 05:14	2°♉59'49		
conjunction	-3004 May 22 j 22:58	6°♉04'00	-0°19'42	
minimum elong	-3004 May 22 j 23:00	6°♉04'01	0°19'38	
max. Earth dist.	-3004 May 23 j 22:29	6°♉17'10	6.24537 AU	
morning rise	-3004 Jun 05 j 15:31	9°♉07'23		
	-3004 Jul 02 j 20:57	15°♉		
retrograde	-3004 Oct 07 j 10:51	27°♉06'11		
asc. node	-3004 Nov 14 j 08:29	24°♉50'24		
opposition	-3004 Dec 05 j 23:49	22°♉06'34	0°03'34	
min. Earth dist.	-3004 Dec 05 j 16:45	22°♉08'56	4.29960 AU	
direct	-3003 Feb 04 j 16:43	17°♉03'25		
	-3003 May 18 j 17:49	0°♊		
evening set	-3003 Jun 12 j 06:54	5°♊13'39		
conjunction	-3003 Jun 25 j 18:39	8°♊11'08	0°24'29	
minimum elong	-3003 Jun 25 j 18:37	8°♊11'07	0°24'35	
max. Earth dist.	-3003 Jun 25 j 16:37	8°♊10'02	6.34659 AU	
morning rise	-3003 Jul 09 j 03:40	11°♊07'10		
retrograde	-3003 Nov 07 j 08:46	28°♊22'18		
opposition	-3002 Jan 06 j 06:26	23°♊26'32	1°03'42	
min. Earth dist.	-3002 Jan 06 j 15:08	23°♊23'41	4.38186 AU	
direct	-3002 Mar 09 j 02:55	18°♊23'00		
	-3002 Jun 14 j 20:27	0°♋		
evening set	-3002 Jul 14 j 18:04	6°♋15'49		
conjunction	-3002 Jul 27 j 20:51	9°♋07'18	1°00'21	
minimum elong	-3002 Jul 27 j 20:48	9°♋07'16	1°00'26	
max. Earth dist.	-3002 Jul 26 j 20:14	8°♋53'51	6.40302 AU	
morning rise	-3002 Aug 09 j 20:16	11°♋57'07		
retrograde	-3002 Dec 08 j 00:29	28°♋53'33		
opposition	-3001 Feb 06 j 07:53	24°♋00'43	1°44'38	
min. Earth dist.	-3001 Feb 07 j 07:01	23°♋53'16	4.41007 AU	
direct	-3001 Apr 09 j 22:10	18°♋58'10		
	-3001 Jul 13 j 20:08	0°♌		
evening set	-3001 Aug 15 j 01:57	6°♌45'40		
max. Earth dist.	-3001 Aug 26 j 03:31	9°♌11'17	6.39936 AU	
conjunction	-3001 Aug 27 j 20:24	9°♌33'47	1°18'58	
minimum elong	-3001 Aug 27 j 20:23	9°♌33'46	1°19'03	
morning rise	-3001 Sep 09 j 12:09	12°♌20'36		
	-3001 Sep 21 j 18:26	15°♌		
retrograde	-3000 Jan 08 j 05:50	29°♌25'05		
opposition	-3000 Mar 08 j 22:59	24°♌33'32	1°56'50	
min. Earth dist.	-3000 Mar 10 j 06:28	24°♌23'29	4.37585 AU	
direct	-3000 May 10 j 14:53	19°♌32'55		
	-3000 Aug 09 j 19:20	0°♍		
evening set	-3000 Sep 13 j 23:47	7°♍27'51		
max. Earth dist.	-3000 Sep 24 j 17:57	9°♍51'57	6.33640 AU	
conjunction	-3000 Sep 26 j 13:37	10°♍16'25	1°15'35	
minimum elong	-3000 Sep 26 j 13:39	10°♍16'26	1°15'36	
morning rise	-3000 Oct 09 j 01:34	13°♍04'17		
	-2999 Jan 18 j 14:57	0°♎		
retrograde	-2999 Feb 08 j 19:35	0°♎41'40		
	-2999 Mar 02 j 02:09	30°℞♍		

Attention, astronomical year style is used: The year -2999 in astronomical counting style is the year 3000 BCE in historical counting style.

opposition	-2999 Apr 10 j 20:06	25°♍49'39	1°35'57
min. Earth dist.	-2999 Apr 12 j 02:34	25°♍39'58	4.28784 AU
direct	-2999 Jun 11 j 20:41	20°♍51'48	
	-2999 Sep 02 j 21:38	0°♎	
evening set	-2999 Oct 15 j 07:43	9°♎05'14	
max. Earth dist.	-2999 Oct 26 j 08:37	11°♎36'57	6.23068 AU
conjunction	-2999 Oct 27 j 21:14	11°♎57'59	0°49'51
minimum elong	-2999 Oct 27 j 21:17	11°♎58'00	0°49'51
morning rise	-2999 Nov 09 j 10:46	14°♎50'55	
	-2998 Jan 26 j 16:47	0°♏	
retrograde	-2998 Mar 15 j 08:33	3°♏20'43	
	-2998 May 02 j 23:46	30°℞♎	
opposition	-2998 May 15 j 09:15	28°♎26'27	0°44'18
min. Earth dist.	-2998 May 16 j 05:23	28°♎19'59	4.17050 AU
direct	-2998 Jul 15 j 05:46	23°♎31'19	
	-2998 Sep 20 j 08:07	0°♏	
evening set	-2998 Nov 16 j 21:32	12°♏10'58	
	-2998 Nov 28 j 21:26	15°♏	
conjunction	-2998 Nov 29 j 15:05	15°♏10'23	0°07'21
minimum elong	-2998 Nov 29 j 15:06	15°♏10'24	0°07'17
behind sun begin	-2998 Nov 29 j 07:43	15°♏06'04	
behind sun end	-2998 Nov 29 j 22:29	15°♏14'43	
max. Earth dist.	-2998 Nov 28 j 23:10	15°♏01'01	6.11275 AU
morning rise	-2998 Dec 12 j 10:05	18°♏10'50	
desc. node	-2997 Jan 29 j 21:50	28°♏46'35	
	-2997 Feb 05 j 08:46	0°♐	
retrograde	-2997 Apr 20 j 17:20	7°♐40'13	
opposition	-2997 Jun 20 j 12:34	2°♐42'29	-0°25'19
min. Earth dist.	-2997 Jun 20 j 14:24	2°♐41'53	4.06123 AU
	-2997 Jul 12 j 13:16	30°℞♏	
direct	-2997 Aug 18 j 23:11	27°♏49'12	
	-2997 Sep 24 j 19:59	0°♐	
evening set	-2997 Dec 21 j 07:52	16°♐55'45	
conjunction	-2996 Jan 03 j 07:33	20°♐01'50	-0°39'16
minimum elong	-2996 Jan 03 j 07:30	20°♐01'48	0°39'23
max. Earth dist.	-2996 Jan 03 j 17:55	20°♐08'03	6.02220 AU
morning rise	-2996 Jan 16 j 10:16	23°♐09'37	
	-2996 Feb 15 j 03:33	0°♑	
retrograde	-2996 May 27 j 05:17	13°♑24'53	
opposition	-2996 Jul 26 j 13:29	8°♑23'08	-1°28'24
min. Earth dist.	-2996 Jul 25 j 19:55	8°♑29'00	3.99936 AU
direct	-2996 Sep 22 j 21:26	3°♑29'40	
evening set	-2995 Jan 25 j 13:36	22°♑53'17	
conjunction	-2995 Feb 07 j 20:53	26°♑03'52	-1°12'11
minimum elong	-2995 Feb 07 j 20:50	26°♑03'51	1°12'15
max. Earth dist.	-2995 Feb 09 j 10:23	26°♑26'18	5.99394 AU
morning rise	-2995 Feb 21 j 07:19	29°♑16'09	
	-2995 Feb 24 j 09:25	0°♒	
	-2995 May 08 j 12:50	15°♒	
retrograde	-2995 Jul 03 j 12:33	19°♒40'31	
	-2995 Aug 29 j 08:57	15°℞♒	
min. Earth dist.	-2995 Aug 31 j 03:17	14°♒45'39	4.00951 AU
opposition	-2995 Sep 01 j 08:06	14°♒35'52	-1°58'05
direct	-2995 Oct 29 j 06:42	9°♒40'10	
	-2995 Dec 26 j 18:49	15°♒	
evening set	-2994 Mar 03 j 18:42	29°♒01'52	
	-2994 Mar 07 j 21:56	0°♓	
conjunction	-2994 Mar 17 j 08:57	2°♓13'25	-1°17'32
minimum elong	-2994 Mar 17 j 08:58	2°♓13'26	1°17'34
max. Earth dist.	-2994 Mar 19 j 09:40	2°♓42'04	6.04011 AU
morning rise	-2994 Mar 31 j 01:50	5°♓26'08	
retrograde	-2994 Aug 08 j 05:39	25°♓16'13	
opposition	-2994 Oct 06 j 18:28	20°♓11'06	-1°42'31
min. Earth dist.	-2994 Oct 05 j 12:01	20°♓21'30	4.08702 AU
direct	-2994 Dec 04 j 03:57	15°♓12'08	
	-2993 Mar 21 j 19:52	0°♈	
evening set	-2993 Apr 09 j 15:43	4°♈13'23	
conjunction	-2993 Apr 23 j 10:09	7°♈22'15	-0°54'14
minimum elong	-2993 Apr 23 j 10:13	7°♈22'18	0°54'14
max. Earth dist.	-2993 Apr 25 j 03:52	7°♈46'09	6.14212 AU
morning rise	-2993 May 07 j 05:15	10°♈31'13	
retrograde	-2993 Sep 11 j 00:05	29°♈21'29	
opposition	-2993 Nov 09 j 10:04	24°♈18'33	-0°51'45
min. Earth dist.	-2993 Nov 08 j 13:54	24°♈25'23	4.20199 AU
direct	-2992 Jan 07 j 23:38	19°♈16'44	
	-2992 Apr 07 j 10:33	0°♉	
evening set	-2992 May 14 j 04:29	7°♉49'03	
conjunction	-2992 May 27 j 21:42	10°♉52'19	-0°13'19
minimum elong	-2992 May 27 j 21:43	10°♉52'20	0°13'16
behind sun begin	-2992 May 27 j 17:05	10°♉49'46	
behind sun end	-2992 May 28 j 02:21	10°♉54'54	
max. Earth dist.	-2992 May 28 j 18:59	11°♉04'11	6.26152 AU
morning rise	-2992 Jun 10 j 13:24	13°♉54'39	
	-2992 Jun 15 j 11:55	15°♉	
	-2992 Sep 08 j 11:35	0°♊	
asc. node	-2992 Sep 23 j 03:25	1°♊11'19	
retrograde	-2992 Oct 11 j 20:48	1°♊45'33	
	-2992 Nov 14 j 02:33	30°℞♉	
opposition	-2992 Dec 10 j 11:52	26°♉46'23	0°12'50
min. Earth dist.	-2992 Dec 10 j 06:02	26°♉48'20	4.31477 AU
direct	-2991 Feb 09 j 08:15	21°♉43'00	
	-2991 Apr 29 j 18:04	0°♊	
evening set	-2991 Jun 16 j 23:56	9°♊49'30	
conjunction	-2991 Jun 30 j 10:25	12°♊45'57	0°30'22
minimum elong	-2991 Jun 30 j 10:23	12°♊45'56	0°30'27
max. Earth dist.	-2991 Jun 30 j 04:47	12°♊42'52	6.35935 AU
morning rise	-2991 Jul 13 j 18:06	15°♊40'53	
	-2991 Sep 29 j 10:06	0°♋	
retrograde	-2991 Nov 11 j 18:05	2°♋51'07	
	-2991 Dec 25 j 07:40	30°℞♊	
opposition	-2990 Jan 10 j 16:11	27°♊55'48	1°10'58
min. Earth dist.	-2990 Jan 11 j 03:48	27°♊52'00	4.39114 AU
direct	-2990 Mar 13 j 16:55	22°♊52'17	
	-2990 May 26 j 10:46	0°♋	
evening set	-2990 Jul 19 j 05:38	10°♋42'52	
max. Earth dist.	-2990 Jul 31 j 03:10	13°♋18'20	6.40773 AU
conjunction	-2990 Aug 01 j 07:07	13°♋33'36	1°04'11
minimum elong	-2990 Aug 01 j 07:04	13°♋33'34	1°04'16
morning rise	-2990 Aug 14 j 05:18	16°♋22'43	
	-2990 Oct 26 j 07:07	0°♌	
retrograde	-2990 Dec 12 j 08:37	3°♌18'13	
	-2989 Jan 29 j 06:44	30°℞♋	
opposition	-2989 Feb 10 j 17:53	28°♋25'36	1°48'14
min. Earth dist.	-2989 Feb 11 j 18:27	28°♋17'41	4.41013 AU
direct	-2989 Apr 14 j 08:55	23°♋23'11	
	-2989 Jun 24 j 06:12	0°♌	
evening set	-2989 Aug 19 j 10:45	11°♌10'36	
max. Earth dist.	-2989 Aug 30 j 11:16	13°♌35'51	6.39466 AU
conjunction	-2989 Sep 01 j 04:21	13°♌58'30	1°19'52
minimum elong	-2989 Sep 01 j 04:20	13°♌58'30	1°19'56
	-2989 Sep 05 j 19:51	15°♌	
morning rise	-2989 Sep 13 j 19:07	16°♌45'09	
	-2989 Nov 22 j 06:16	0°♍	
retrograde	-2988 Jan 12 j 17:23	3°♍52'33	

Attention, astronomical year style is used: The year -2988 in astronomical counting style is the year 2989 BCE in historical counting style.

	-2988 Mar 05 j 17:18	30°℞♌		
opposition	-2988 Mar 13 j 11:55	29°♌01'04	1°55'54	
min. Earth dist.	-2988 Mar 14 j 20:07	28°♌50'49	4.36666 AU	
direct	-2988 May 15 j 02:45	24°♌00'49		
	-2988 Jul 20 j 15:30	0°♍		
evening set	-2988 Sep 18 j 08:47	11°♍57'41		
max. Earth dist.	-2988 Sep 29 j 01:09	14°♍21'18	6.32335 AU	
conjunction	-2988 Sep 30 j 22:10	14°♍46'37	1°13'13	
minimum elong	-2988 Sep 30 j 22:12	14°♍46'38	1°13'15	
morning rise	-2988 Oct 13 j 10:12	17°♍35'00		
	-2988 Dec 14 j 11:47	0°♎		
retrograde	-2987 Feb 13 j 14:10	5°♎18'54		
opposition	-2987 Apr 15 j 14:27	0°♎26'37	1°30'20	
min. Earth dist.	-2987 Apr 16 j 20:20	0°♎17'06	4.27159 AU	
	-2987 Apr 19 j 02:09	30°℞♍		
direct	-2987 Jun 16 j 11:51	25°♍29'07		
	-2987 Aug 11 j 16:00	0°♎		
evening set	-2987 Oct 19 j 19:46	13°♎46'15		
max. Earth dist.	-2987 Oct 31 j 00:10	16°♎20'30	6.21281 AU	
conjunction	-2987 Nov 01 j 09:49	16°♎39'55	0°44'38	
minimum elong	-2987 Nov 01 j 09:51	16°♎39'56	0°44'36	
morning rise	-2987 Nov 13 j 23:48	19°♎33'51		
	-2986 Jan 01 j 20:49	0°♏		
retrograde	-2986 Mar 20 j 09:24	8°♏12'27		
opposition	-2986 May 20 j 09:49	3°♏17'48	0°35'04	
min. Earth dist.	-2986 May 21 j 03:48	3°♏12'02	4.15229 AU	
	-2986 Jun 17 j 14:25	30°℞♎		
direct	-2986 Jul 20 j 01:16	28°♎23'05		
	-2986 Aug 21 j 04:41	0°♏		
	-2986 Nov 12 j 13:10	15°♏		
evening set	-2986 Nov 21 j 15:58	17°♏07'17		
conjunction	-2986 Dec 04 j 10:09	20°♏07'45	0°00'34	
minimum elong	-2986 Dec 04 j 10:09	20°♏07'45	0°00'30	
behind sun begin	-2986 Dec 04 j 02:06	20°♏03'01		
behind sun end	-2986 Dec 04 j 18:11	20°♏12'29		
max. Earth dist.	-2986 Dec 03 j 20:35	19°♏59'45	6.09592 AU	
desc. node	-2986 Dec 09 j 00:15	21°♏12'48		
morning rise	-2986 Dec 17 j 06:16	23°♏09'24		
	-2985 Jan 16 j 09:07	0°♐		
retrograde	-2985 Apr 25 j 23:58	12°♐47'18		
opposition	-2985 Jun 25 j 18:02	7°♐49'01	-0°35'22	
min. Earth dist.	-2985 Jun 25 j 16:35	7°♐49'29	4.04747 AU	
direct	-2985 Aug 24 j 00:13	2°♐55'52		
evening set	-2985 Dec 26 j 09:22	22°♐06'17		
conjunction	-2984 Jan 08 j 10:15	25°♐13'16	-0°45'12	
minimum elong	-2984 Jan 08 j 10:11	25°♐13'14	0°45'18	
max. Earth dist.	-2984 Jan 09 j 02:22	25°♐22'55	6.01307 AU	
morning rise	-2984 Jan 21 j 13:57	28°♐21'54		
	-2984 Jan 28 j 11:51	0°♑		
retrograde	-2984 Jun 01 j 15:16	18°♑41'19		
opposition	-2984 Jul 31 j 20:24	13°♑39'07	-1°35'10	
min. Earth dist.	-2984 Jul 31 j 00:58	13°♑45'37	3.99634 AU	
direct	-2984 Sep 28 j 01:54	8°♑45'32		
evening set	-2983 Jan 30 j 20:06	28°♑09'57		
	-2983 Feb 07 j 12:54	0°♒		
conjunction	-2983 Feb 13 j 04:16	1°♒20'49	-1°14'47	
minimum elong	-2983 Feb 13 j 04:14	1°♒20'48	1°14'52	
max. Earth dist.	-2983 Feb 14 j 20:03	1°♒44'34	5.99710 AU	
morning rise	-2983 Feb 26 j 15:52	4°♒33'24		
	-2983 Apr 14 j 13:20	15°♒		
retrograde	-2983 Jul 08 j 15:47	24°♒54'45		
min. Earth dist.	-2983 Sep 05 j 04:24	20°♒00'21	4.01885 AU	
opposition	-2983 Sep 06 j 11:19	19°♒49'51	-1°58'33	
	-2983 Oct 26 j 16:20	15°℞♒		
direct	-2983 Nov 03 j 09:37	14°♒53'45		
	-2983 Nov 11 j 04:12	15°♒		
	-2982 Feb 18 j 17:22	0°♓		
evening set	-2982 Mar 09 j 01:10	4°♓12'34		
conjunction	-2982 Mar 22 j 16:12	7°♓23'48	-1°15'47	
minimum elong	-2982 Mar 22 j 16:14	7°♓23'50	1°15'49	
max. Earth dist.	-2982 Mar 24 j 17:17	7°♓52'33	6.05465 AU	
morning rise	-2982 Apr 05 j 09:32	10°♓36'03		
	-2982 Jul 30 j 20:48	0°♈		
retrograde	-2982 Aug 13 j 03:24	0°♈17'30		
	-2982 Aug 26 j 06:47	30°℞♓		
min. Earth dist.	-2982 Oct 10 j 10:08	25°♓22'22	4.10493 AU	
opposition	-2982 Oct 11 j 14:56	25°♓12'32	-1°36'59	
direct	-2982 Dec 09 j 05:09	20°♓13'06		
	-2981 Mar 03 j 06:38	0°♈		
evening set	-2981 Apr 14 j 17:35	9°♈09'16		
conjunction	-2981 Apr 28 j 12:11	12°♈17'20	-0°49'12	
minimum elong	-2981 Apr 28 j 12:15	12°♈17'22	0°49'10	
max. Earth dist.	-2981 Apr 30 j 04:30	12°♈40'18	6.16189 AU	
morning rise	-2981 May 12 j 07:03	15°♈25'19		
	-2981 Jul 25 j 11:33	0°♉		
retrograde	-2981 Sep 15 j 12:07	4°♉05'34		
	-2981 Nov 06 j 22:25	30°℞♈		
opposition	-2981 Nov 13 j 23:21	29°♈03'08	-0°43'00	
min. Earth dist.	-2981 Nov 13 j 04:21	29°♈09'34	4.22162 AU	
direct	-2980 Jan 12 j 16:23	24°♈01'02		
	-2980 Mar 17 j 15:26	0°♉		
evening set	-2980 May 18 j 23:43	12°♉28'27		
	-2980 May 30 j 09:01	15°♉		
conjunction	-2980 Jun 01 j 16:07	15°♉30'39	-0°07'06	
minimum elong	-2980 Jun 01 j 16:08	15°♉30'39	0°07'02	
behind sun begin	-2980 Jun 01 j 08:29	15°♉26'25		
behind sun end	-2980 Jun 01 j 23:47	15°♉34'53		
max. Earth dist.	-2980 Jun 02 j 08:10	15°♉39'34	6.27941 AU	
morning rise	-2980 Jun 15 j 07:00	18°♉31'51		
asc. node	-2980 Aug 03 j 09:32	28°♉37'26		
	-2980 Aug 11 j 05:36	0°♊		
retrograde	-2980 Oct 16 j 05:43	6°♊15'14		
opposition	-2980 Dec 14 j 20:37	1°♊16'39	0°21'41	
min. Earth dist.	-2980 Dec 14 j 18:26	1°♊17'23	4.32942 AU	
	-2980 Dec 24 j 13:30	30°℞♉		
direct	-2979 Feb 13 j 22:17	26°♉13'09		
	-2979 Apr 06 j 09:54	0°♊		
evening set	-2979 Jun 21 j 12:52	14°♊16'29		
conjunction	-2979 Jul 04 j 22:18	17°♊12'04	0°35'52	
minimum elong	-2979 Jul 04 j 22:15	17°♊12'02	0°35'58	
max. Earth dist.	-2979 Jul 04 j 13:26	17°♊07'12	6.36954 AU	
morning rise	-2979 Jul 18 j 04:35	20°♊06'02		
	-2979 Sep 05 j 03:05	0°♋		
retrograde	-2979 Nov 15 j 22:41	7°♋12'51		
opposition	-2978 Jan 14 j 23:06	2°♋17'59	1°17'37	
min. Earth dist.	-2978 Jan 15 j 12:21	2°♋13'39	4.39650 AU	
	-2978 Feb 02 j 07:02	30°℞♊		
direct	-2978 Mar 18 j 01:20	27°♊14'33		
	-2978 May 01 j 03:44	0°♋		
evening set	-2978 Jul 23 j 14:48	15°♋04'32		
max. Earth dist.	-2978 Aug 04 j 08:00	17°♋37'47	6.40771 AU	
conjunction	-2978 Aug 05 j 15:01	17°♋54'45	1°07'33	
minimum elong	-2978 Aug 05 j 14:58	17°♋54'43	1°07'39	
morning rise	-2978 Aug 18 j 12:03	20°♋43'24		

Attention, astronomical year style is used: The year -2978 in astronomical counting style is the year 2979 BCE in historical counting style.

	-2978 Oct 03 j 02:06	0°♌		
retrograde	-2978 Dec 16 j 17:14	7°♌39'47		
opposition	-2977 Feb 15 j 02:40	2°♌47'30	1°51'12	
min. Earth dist.	-2977 Feb 16 j 05:42	2°♌38'49	4.40492 AU	
	-2977 Mar 10 j 04:43	30°℞♋		
direct	-2977 Apr 18 j 18:58	27°♋45'21		
	-2977 May 28 j 10:32	0°♌		
	-2977 Aug 21 j 03:31	15°♌		
evening set	-2977 Aug 23 j 18:33	15°♌34'28		
max. Earth dist.	-2977 Sep 03 j 15:54	17°♌58'26	6.38442 AU	
conjunction	-2977 Sep 05 j 11:23	18°♌22'28	1°20'17	
minimum elong	-2977 Sep 05 j 11:23	18°♌22'28	1°20'21	
morning rise	-2977 Sep 18 j 01:39	21°♌09'17		
	-2977 Oct 30 j 18:05	0°♍		
retrograde	-2976 Jan 17 j 06:26	8°♍21'41		
opposition	-2976 Mar 18 j 01:32	3°♍30'10	1°54'18	
min. Earth dist.	-2976 Mar 19 j 09:34	3°♍19'58	4.35223 AU	
	-2976 Apr 17 j 15:37	30°℞♌		
direct	-2976 May 19 j 13:47	28°♌30'16		
	-2976 Jun 20 j 12:17	0°♍		
evening set	-2976 Sep 22 j 18:18	16°♍30'45		
max. Earth dist.	-2976 Oct 03 j 12:48	18°♍56'07	6.30599 AU	
conjunction	-2976 Oct 05 j 07:40	19°♍20'20	1°10'24	
minimum elong	-2976 Oct 05 j 07:43	19°♍20'21	1°10'25	
morning rise	-2976 Oct 17 j 19:38	22°♍09'27		
	-2976 Nov 23 j 09:03	0°♎		
retrograde	-2975 Feb 18 j 10:21	10°♎01'20		
opposition	-2975 Apr 20 j 10:42	5°♎08'52	1°24'03	
min. Earth dist.	-2975 Apr 21 j 15:34	4°♎59'41	4.25243 AU	
direct	-2975 Jun 21 j 04:23	0°♎11'51		
evening set	-2975 Oct 24 j 10:04	18°♎33'30		
max. Earth dist.	-2975 Nov 04 j 16:19	21°♎09'33	6.19360 AU	
conjunction	-2975 Nov 06 j 00:25	21°♎28'08	0°39'01	
minimum elong	-2975 Nov 06 j 00:27	21°♎28'10	0°38'58	
morning rise	-2975 Nov 18 j 15:17	24°♎23'14		
	-2975 Dec 13 j 15:17	0°♏		
retrograde	-2974 Mar 25 j 12:10	13°♏10'59		
opposition	-2974 May 25 j 12:35	8°♏15'49	0°25'23	
min. Earth dist.	-2974 May 26 j 03:07	8°♏11'08	4.13454 AU	
direct	-2974 Jul 24 j 23:06	3°♏21'23		
desc. node	-2974 Oct 17 j 11:46	13°♏14'33		
	-2974 Oct 25 j 21:27	15°♏		
evening set	-2974 Nov 26 j 12:27	22°♏09'47		
conjunction	-2974 Dec 09 j 07:38	25°♏11'16	-0°06'23	
minimum elong	-2974 Dec 09 j 07:37	25°♏11'16	0°06'27	
behind sun begin	-2974 Dec 09 j 00:01	25°♏06'47		
behind sun end	-2974 Dec 09 j 15:13	25°♏15'45		
max. Earth dist.	-2974 Dec 08 j 23:57	25°♏06'44	6.08139 AU	
morning rise	-2974 Dec 22 j 04:38	28°♏13'58		
	-2974 Dec 29 j 17:53	0°♐		
retrograde	-2973 May 01 j 09:20	17°♐59'02		
opposition	-2973 Jul 01 j 00:59	13°♐00'09	-0°45'15	
min. Earth dist.	-2973 Jun 30 j 21:01	13°♐01'27	4.03764 AU	
direct	-2973 Aug 29 j 03:29	8°♐07'04		
evening set	-2973 Dec 31 j 12:00	27°♐19'36		
	-2972 Jan 11 j 16:21	0°♑		
conjunction	-2972 Jan 13 j 13:42	0°♑27'09	-0°50'49	
minimum elong	-2972 Jan 13 j 13:38	0°♑27'07	0°50'54	
max. Earth dist.	-2972 Jan 14 j 08:59	0°♑38'42	6.00848 AU	
morning rise	-2972 Jan 26 j 18:39	3°♑36'29		
retrograde	-2972 Jun 06 j 21:07	23°♑57'44		
min. Earth dist.	-2972 Aug 05 j 03:53	19°♑02'34	3.99772 AU	
opposition	-2972 Aug 06 j 02:34	18°♑54'58	-1°41'07	
direct	-2972 Oct 03 j 05:21	14°♑01'06		
	-2971 Jan 21 j 12:29	0°♒		
evening set	-2971 Feb 05 j 02:03	3°♒24'46		
conjunction	-2971 Feb 18 j 11:15	6°♒35'44	-1°16'48	
minimum elong	-2971 Feb 18 j 11:14	6°♒35'44	1°16'52	
max. Earth dist.	-2971 Feb 20 j 05:43	7°♒01'02	6.00399 AU	
morning rise	-2971 Mar 03 j 23:38	9°♒48'20		
	-2971 Mar 26 j 10:50	15°♒		
	-2971 Jul 06 j 15:22	0°♓		
retrograde	-2971 Jul 13 j 18:47	0°♓05'05		
	-2971 Jul 20 j 21:28	30°℞♒		
min. Earth dist.	-2971 Sep 10 j 06:14	25°♒10'20	4.03045 AU	
opposition	-2971 Sep 11 j 12:39	24°♒59'59	-1°58'05	
direct	-2971 Nov 08 j 13:38	20°♒03'23		
	-2970 Jan 31 j 02:26	0°♓		
evening set	-2970 Mar 14 j 06:02	9°♓18'46		
conjunction	-2970 Mar 27 j 21:51	12°♓29'38	-1°13'31	
minimum elong	-2970 Mar 27 j 21:54	12°♓29'40	1°13'33	
max. Earth dist.	-2970 Mar 29 j 23:30	12°♓58'35	6.06990 AU	
morning rise	-2970 Apr 10 j 15:39	15°♓41'22		
	-2970 Jun 19 j 12:18	0°♈		
retrograde	-2970 Aug 17 j 21:58	5°♈14'02		
min. Earth dist.	-2970 Oct 15 j 05:13	0°♈18'58	4.12225 AU	
opposition	-2970 Oct 16 j 09:30	0°♈09'19	-1°30'53	
	-2970 Oct 17 j 12:48	30°℞♓		
direct	-2970 Dec 14 j 02:08	25°♓09'29		
	-2969 Feb 08 j 19:00	0°♈		
evening set	-2969 Apr 19 j 17:57	14°♈01'02		
conjunction	-2969 May 03 j 12:26	17°♈08'19	-0°43'53	
minimum elong	-2969 May 03 j 12:29	17°♈08'21	0°43'51	
max. Earth dist.	-2969 May 05 j 00:23	17°♈28'43	6.17990 AU	
morning rise	-2969 May 17 j 07:11	20°♈15'26		
	-2969 Jul 02 j 08:14	0°♉		
retrograde	-2969 Sep 20 j 00:37	8°♉46'46		
opposition	-2969 Nov 18 j 12:00	3°♉44'48	-0°34'06	
min. Earth dist.	-2969 Nov 17 j 19:58	3°♉50'13	4.23858 AU	
	-2969 Dec 20 j 00:17	30°℞♈		
direct	-2968 Jan 17 j 10:12	28°♈42'24		
	-2968 Feb 15 j 05:04	0°♉		
	-2968 May 14 j 03:58	15°♉		
evening set	-2968 May 23 j 18:09	17°♉05'51		
conjunction	-2968 Jun 06 j 10:01	20°♉07'10	-0°00'48	
minimum elong	-2968 Jun 06 j 10:00	20°♉07'10	0°00'44	
behind sun begin	-2968 Jun 06 j 01:43	20°♉02'36		
behind sun end	-2968 Jun 06 j 18:18	20°♉11'45		
max. Earth dist.	-2968 Jun 06 j 23:34	20°♉14'41	6.29423 AU	
asc. node	-2968 Jun 13 j 09:19	21°♉39'53		
morning rise	-2968 Jun 19 j 23:45	23°♉07'19		
	-2968 Jul 22 j 10:17	0°♊		
retrograde	-2968 Oct 20 j 12:35	10°♊44'20		
opposition	-2968 Dec 19 j 05:20	5°♊46'20	0°30'24	
min. Earth dist.	-2968 Dec 19 j 04:52	5°♊46'29	4.34110 AU	
direct	-2967 Feb 18 j 10:05	0°♊42'48		
evening set	-2967 Jun 26 j 02:18	18°♊43'54		
conjunction	-2967 Jul 09 j 10:23	21°♊38'38	0°41'11	
minimum elong	-2967 Jul 09 j 10:20	21°♊38'37	0°41'16	
max. Earth dist.	-2967 Jul 08 j 20:36	21°♊31'06	6.37714 AU	
morning rise	-2967 Jul 22 j 15:32	24°♊31'49		
	-2967 Aug 17 j 11:52	0°♋		
retrograde	-2967 Nov 20 j 06:50	11°♋36'05		
opposition	-2966 Jan 19 j 07:23	6°♋41'41	1°23'54	

Attention, astronomical year style is used: The year -2966 in astronomical counting style is the year 2967 BCE in historical counting style.

min. Earth dist.	-2966 Jan 19 j 23:49	6°♋36'20	4.39974 AU
direct	-2966 Mar 22 j 13:07	1°♋38'22	
evening set	-2966 Jul 28 j 00:30	19°♋28'04	
conjunction	-2966 Aug 09 j 23:43	22°♋17'54	1°10'36
minimum elong	-2966 Aug 09 j 23:40	22°♋17'52	1°10'42
max. Earth dist.	-2966 Aug 08 j 14:52	21°♋59'55	6.40618 AU
morning rise	-2966 Aug 22 j 19:34	25°♋06'09	
	-2966 Sep 14 j 20:17	0°♌	
retrograde	-2966 Dec 21 j 01:35	12°♌03'59	
opposition	-2965 Feb 19 j 13:05	7°♌11'54	1°53'36
min. Earth dist.	-2965 Feb 20 j 16:23	7°♌03'09	4.39905 AU
direct	-2965 Apr 23 j 04:35	2°♌10'05	
	-2965 Aug 04 j 17:46	15°♌	
evening set	-2965 Aug 28 j 03:27	20°♌00'52	
max. Earth dist.	-2965 Sep 07 j 23:50	22°♌24'42	6.37468 AU
conjunction	-2965 Sep 09 j 19:30	22°♌48'55	1°20'17
minimum elong	-2965 Sep 09 j 19:30	22°♌48'55	1°20'19
morning rise	-2965 Sep 22 j 09:10	25°♌35'54	
	-2965 Oct 12 j 17:37	0°♍	
retrograde	-2964 Jan 21 j 21:14	12°♍53'07	
opposition	-2964 Mar 22 j 16:37	8°♍01'40	1°52'00
min. Earth dist.	-2964 Mar 24 j 01:20	7°♍51'15	4.33929 AU
direct	-2964 May 24 j 03:48	3°♍02'14	
evening set	-2964 Sep 27 j 04:44	21°♍05'36	
max. Earth dist.	-2964 Oct 07 j 23:25	23°♍31'39	6.29107 AU
conjunction	-2964 Oct 09 j 17:59	23°♍55'46	1°07'09
minimum elong	-2964 Oct 09 j 18:01	23°♍55'48	1°07'09
morning rise	-2964 Oct 22 j 06:11	26°♍45'36	
	-2964 Nov 05 j 19:29	0°♎	
retrograde	-2963 Feb 23 j 06:06	14°♎44'41	
opposition	-2963 Apr 25 j 07:33	9°♎51'56	1°17'12
min. Earth dist.	-2963 Apr 26 j 09:48	9°♎43'34	4.23662 AU
direct	-2963 Jun 25 j 20:50	4°♎55'22	
evening set	-2963 Oct 29 j 00:10	23°♎20'20	
max. Earth dist.	-2963 Nov 09 j 11:34	25°♎59'50	6.17854 AU
conjunction	-2963 Nov 10 j 15:05	26°♎15'49	0°33'11
minimum elong	-2963 Nov 10 j 15:07	26°♎15'51	0°33'08
morning rise	-2963 Nov 23 j 06:29	29°♎11'50	
	-2963 Nov 26 j 18:07	0°♏	
	-2962 Feb 12 j 18:27	15°♏	
retrograde	-2962 Mar 30 j 15:50	18°♏07'17	
	-2962 May 16 j 06:12	15°℞♏	
opposition	-2962 May 30 j 14:41	13°♏11'42	0°15'37
min. Earth dist.	-2962 May 31 j 03:16	13°♏07'38	4.12131 AU
direct	-2962 Jul 29 j 21:37	8°♏17'37	
desc. node	-2962 Aug 27 j 02:50	9°♏33'50	
	-2962 Oct 05 j 16:06	15°♏	
evening set	-2962 Dec 01 j 07:55	27°♏08'41	
	-2962 Dec 13 j 09:18	0°♐	
conjunction	-2962 Dec 14 j 03:45	0°♐10'56	-0°13'02
minimum elong	-2962 Dec 14 j 03:43	0°♐10'56	0°13'08
behind sun begin	-2962 Dec 13 j 22:49	0°♐08'02	
behind sun end	-2962 Dec 14 j 08:38	0°♐13'50	
max. Earth dist.	-2962 Dec 13 j 22:59	0°♐08'07	6.07118 AU
morning rise	-2962 Dec 27 j 01:52	3°♐14'33	
retrograde	-2961 May 06 j 13:20	23°♐05'04	
opposition	-2961 Jul 06 j 05:02	18°♐05'36	-0°54'34
min. Earth dist.	-2961 Jul 05 j 21:13	18°♐08'10	4.03160 AU
direct	-2961 Sep 03 j 02:40	13°♐12'34	
	-2961 Dec 26 j 04:33	0°♑	
evening set	-2960 Jan 05 j 12:23	2°♑26'17	

conjunction	-2960 Jan 18 j 15:04	5°♑34'19	-0°55'52
minimum elong	-2960 Jan 18 j 15:01	5°♑34'17	0°55'57
max. Earth dist.	-2960 Jan 19 j 14:33	5°♑48'23	6.00700 AU
morning rise	-2960 Jan 31 j 20:53	8°♑44'06	
retrograde	-2960 Jun 12 j 01:23	29°♑05'59	
min. Earth dist.	-2960 Aug 10 j 05:32	24°♑10'40	4.00103 AU
opposition	-2960 Aug 11 j 05:00	24°♑02'47	-1°46'05
direct	-2960 Oct 08 j 07:42	19°♑08'37	
	-2959 Jan 03 j 14:09	0°♒	
evening set	-2959 Feb 10 j 04:44	8°♒31'12	
conjunction	-2959 Feb 23 j 14:55	11°♒42'15	-1°18'08
minimum elong	-2959 Feb 23 j 14:54	11°♒42'14	1°18'12
max. Earth dist.	-2959 Feb 25 j 11:30	12°♒08'43	6.01155 AU
morning rise	-2959 Mar 09 j 04:11	14°♒54'50	
	-2959 Mar 09 j 12:57	15°♒	
	-2959 May 21 j 00:13	0°♓	
retrograde	-2959 Jul 18 j 17:39	5°♓06'45	
min. Earth dist.	-2959 Sep 15 j 03:12	0°♓12'07	4.04160 AU
opposition	-2959 Sep 16 j 10:05	0°♓01'36	-1°56'45
	-2959 Sep 16 j 14:47	30°℞♒	
direct	-2959 Nov 13 j 11:32	25°♒04'35	
	-2958 Jan 08 j 19:40	0°♓	
evening set	-2958 Mar 19 j 07:43	14°♓17'05	
conjunction	-2958 Apr 02 j 00:01	17°♓27'36	-1°10'46
minimum elong	-2958 Apr 02 j 00:04	17°♓27'38	1°10'47
max. Earth dist.	-2958 Apr 03 j 22:50	17°♓54'48	6.08347 AU
morning rise	-2958 Apr 15 j 18:20	20°♓38'53	
	-2958 May 28 j 14:23	0°♈	
retrograde	-2958 Aug 22 j 13:20	10°♈03'48	
min. Earth dist.	-2958 Oct 19 j 22:29	5°♈08'22	4.13675 AU
opposition	-2958 Oct 21 j 00:56	4°♈59'20	-1°24'22
	-2958 Dec 15 j 20:51	30°℞♓	
direct	-2958 Dec 18 j 21:20	29°♓59'04	
	-2958 Dec 21 j 21:59	0°♈	
evening set	-2957 Apr 24 j 15:46	18°♈47'19	
conjunction	-2957 May 08 j 10:27	21°♈54'01	-0°38'25
minimum elong	-2957 May 08 j 10:29	21°♈54'03	0°38'23
max. Earth dist.	-2957 May 09 j 20:35	22°♈13'20	6.19447 AU
morning rise	-2957 May 22 j 04:42	25°♈00'20	
	-2957 Jun 13 j 22:48	0°♉	
retrograde	-2957 Sep 24 j 11:10	13°♉24'09	
opposition	-2957 Nov 22 j 22:41	8°♉22'45	-0°25'12
min. Earth dist.	-2957 Nov 22 j 08:33	8°♉27'31	4.25190 AU
direct	-2956 Jan 22 j 00:37	3°♉20'10	
asc. node	-2956 Apr 23 j 23:21	14°♉23'10	
	-2956 Apr 27 j 00:44	15°♉	
evening set	-2956 May 28 j 11:25	21°♉41'00	
conjunction	-2956 Jun 11 j 02:22	24°♉41'32	0°05'26
minimum elong	-2956 Jun 11 j 02:20	24°♉41'31	0°05'31
behind sun begin	-2956 Jun 10 j 18:23	24°♉37'08	
behind sun end	-2956 Jun 11 j 10:17	24°♉45'53	
max. Earth dist.	-2956 Jun 11 j 10:45	24°♉46'09	6.30532 AU
morning rise	-2956 Jun 24 j 15:18	27°♉40'51	
	-2956 Jul 05 j 06:49	0°♊	
retrograde	-2956 Oct 24 j 20:33	15°♊12'55	
opposition	-2956 Dec 23 j 13:53	10°♊15'26	0°38'49
min. Earth dist.	-2956 Dec 23 j 16:12	10°♊14'39	4.34939 AU
direct	-2955 Feb 22 j 22:57	5°♊11'48	
evening set	-2955 Jun 30 j 15:08	23°♊11'36	
conjunction	-2955 Jul 13 j 22:11	26°♊05'40	0°46'13
minimum elong	-2955 Jul 13 j 22:08	26°♊05'38	0°46'19
max. Earth dist.	-2955 Jul 13 j 06:52	25°♊57'17	6.38207 AU

Attention, astronomical year style is used: The year -2955 in astronomical counting style is the year 2956 BCE in historical counting style.

morning rise	-2955 Jul 27 j 01:53	28°♊58'05		
	-2955 Jul 31 j 20:14	0°♋		
retrograde	-2955 Nov 24 j 13:10	16°♋00'36		
opposition	-2954 Jan 23 j 15:56	11°♋06'36	1°29'41	
min. Earth dist.	-2954 Jan 24 j 09:12	11°♋01'00	4.40134 AU	
direct	-2954 Mar 26 j 23:13	6°♋03'27		
evening set	-2954 Aug 01 j 10:40	23°♋53'07		
max. Earth dist.	-2954 Aug 12 j 20:55	26°♋22'58	6.40417 AU	
conjunction	-2954 Aug 14 j 08:33	26°♋42'30	1°13'14	
minimum elong	-2954 Aug 14 j 08:30	26°♋42'29	1°13'18	
morning rise	-2954 Aug 27 j 03:27	29°♋30'24		
	-2954 Aug 29 j 09:52	0°♌		
	-2954 Nov 24 j 08:10	15°♌		
retrograde	-2954 Dec 25 j 12:08	16°♌29'36		
	-2953 Jan 25 j 18:19	15°℞♌		
opposition	-2953 Feb 24 j 00:07	11°♌37'40	1°55'19	
min. Earth dist.	-2953 Feb 25 j 05:14	11°♌28'20	4.39371 AU	
direct	-2953 Apr 27 j 17:11	6°♌36'04		
	-2953 Jul 17 j 11:41	15°♌		
evening set	-2953 Sep 01 j 12:07	24°♌27'51		
max. Earth dist.	-2953 Sep 12 j 08:00	26°♌51'44	6.36622 AU	
conjunction	-2953 Sep 14 j 03:38	27°♌15'58	1°19'47	
minimum elong	-2953 Sep 14 j 03:39	27°♌15'58	1°19'50	
morning rise	-2953 Sep 26 j 16:45	0°♍03'04		
	-2953 Sep 26 j 11:11	0°♍		
retrograde	-2952 Jan 26 j 09:49	17°♍24'29		
opposition	-2952 Mar 27 j 07:38	12°♍32'52	1°49'01	
min. Earth dist.	-2952 Mar 28 j 15:00	12°♍22'53	4.32817 AU	
direct	-2952 May 28 j 16:00	7°♍33'46		
evening set	-2952 Oct 01 j 14:24	25°♍39'06		
max. Earth dist.	-2952 Oct 12 j 11:02	28°♍06'43	6.27805 AU	
conjunction	-2952 Oct 14 j 03:33	28°♍29'45	1°03'29	
minimum elong	-2952 Oct 14 j 03:36	28°♍29'46	1°03'29	
	-2952 Oct 20 j 18:20	0°♎		
morning rise	-2952 Oct 26 j 15:52	1°♎20'10		
retrograde	-2951 Feb 28 j 02:43	19°♎25'46		
opposition	-2951 Apr 30 j 03:38	14°♎32'42	1°09'52	
min. Earth dist.	-2951 May 01 j 05:27	14°♎24'28	4.22217 AU	
direct	-2951 Jun 30 j 14:29	9°♎36'27		
evening set	-2951 Nov 02 j 13:23	28°♎04'16		
	-2951 Nov 10 j 20:45	0°♏		
max. Earth dist.	-2951 Nov 14 j 02:59	0°♏45'34	6.16386 AU	
conjunction	-2951 Nov 15 j 04:46	1°♏00'35	0°27'09	
minimum elong	-2951 Nov 15 j 04:47	1°♏00'36	0°27'07	
morning rise	-2951 Nov 27 j 21:00	3°♏57'34		
	-2950 Jan 18 j 08:05	15°♏		
retrograde	-2950 Apr 04 j 15:51	23°♏00'31		
opposition	-2950 Jun 04 j 15:08	18°♏04'25	0°05'47	
min. Earth dist.	-2950 Jun 05 j 00:25	18°♏01'24	4.10754 AU	
	-2950 Jun 30 j 08:54	15°℞♏		
desc. node	-2950 Jul 07 j 04:07	14°♏22'24		
direct	-2950 Aug 03 j 16:24	13°♏10'31		
	-2950 Sep 06 j 15:01	15°♏		
	-2950 Nov 27 j 05:34	0°♐		
evening set	-2950 Dec 06 j 02:40	2°♐04'53		
conjunction	-2950 Dec 18 j 23:23	5°♐08'00	-0°19'37	
minimum elong	-2950 Dec 18 j 23:22	5°♐07'59	0°19'42	
max. Earth dist.	-2950 Dec 18 j 22:46	5°♐07'38	6.05952 AU	
morning rise	-2950 Dec 31 j 22:26	8°♐12'33		
retrograde	-2949 May 11 j 18:52	28°♐09'13		
opposition	-2949 Jul 11 j 08:26	23°♐09'11	-1°03'29	
min. Earth dist.	-2949 Jul 10 j 23:08	23°♐12'15	4.02315 AU	
direct	-2949 Sep 08 j 03:34	18°♐16'04		
	-2949 Dec 08 j 17:04	0°♑		
evening set	-2948 Jan 10 j 12:54	7°♑32'11		
conjunction	-2948 Jan 23 j 16:38	10°♑40'51	-1°00'32	
minimum elong	-2948 Jan 23 j 16:34	10°♑40'49	1°00'37	
max. Earth dist.	-2948 Jan 24 j 19:35	10°♑57'00	6.00241 AU	
morning rise	-2948 Feb 05 j 23:35	13°♑51'18		
	-2948 Apr 24 j 22:25	0°♒		
retrograde	-2948 Jun 17 j 06:00	4°♒14'50		
	-2948 Aug 10 j 06:22	30°℞♑		
min. Earth dist.	-2948 Aug 15 j 06:18	29°♑19'49	4.00111 AU	
opposition	-2948 Aug 16 j 07:38	29°♑11'17	-1°50'18	
direct	-2948 Oct 13 j 08:08	24°♑16'49		
	-2948 Dec 13 j 01:10	0°♒		
evening set	-2947 Feb 15 j 09:08	13°♒39'48		
	-2947 Feb 21 j 00:52	15°♒		
conjunction	-2947 Feb 28 j 20:12	16°♒51'04	-1°18'54	
minimum elong	-2947 Feb 28 j 20:12	16°♒51'03	1°18'57	
max. Earth dist.	-2947 Mar 02 j 16:47	17°♒17'29	6.01597 AU	
morning rise	-2947 Mar 14 j 10:28	20°♒03'50		
	-2947 Apr 28 j 04:24	0°♓		
retrograde	-2947 Jul 23 j 16:58	10°♓11'59		
min. Earth dist.	-2947 Sep 20 j 02:05	5°♓17'16	4.04980 AU	
opposition	-2947 Sep 21 j 08:52	5°♓06'45	-1°54'34	
direct	-2947 Nov 18 j 11:55	0°♓09'15		
evening set	-2946 Mar 24 j 11:47	19°♓20'03		
conjunction	-2946 Apr 07 j 04:57	22°♓30'24	-1°07'27	
minimum elong	-2946 Apr 07 j 05:01	22°♓30'26	1°07'27	
max. Earth dist.	-2946 Apr 09 j 04:09	22°♓57'45	6.09493 AU	
morning rise	-2946 Apr 20 j 23:31	25°♓41'20		
	-2946 May 10 j 01:53	0°♈		
retrograde	-2946 Aug 27 j 08:38	14°♈58'59		
opposition	-2946 Oct 25 j 18:54	9°♈54'55	-1°17'06	
min. Earth dist.	-2946 Oct 24 j 17:50	10°♈03'27	4.15013 AU	
direct	-2946 Dec 23 j 18:25	4°♈54'21		
evening set	-2945 Apr 29 j 16:28	23°♈39'36		
conjunction	-2945 May 13 j 10:53	26°♈45'38	-0°32'32	
minimum elong	-2945 May 13 j 10:56	26°♈45'40	0°32'30	
max. Earth dist.	-2945 May 14 j 17:25	27°♈02'51	6.20885 AU	
morning rise	-2945 May 27 j 04:56	29°♈51'13		
	-2945 May 27 j 20:39	0°♉		
	-2945 Aug 14 j 22:20	15°♉		
retrograde	-2945 Sep 28 j 23:37	18°♉07'34		
	-2945 Nov 13 j 02:46	15°℞♉		
opposition	-2945 Nov 27 j 12:15	13°♉06'43	-0°15'55	
min. Earth dist.	-2945 Nov 26 j 23:41	13°♉10'57	4.26620 AU	
direct	-2944 Jan 26 j 18:29	8°♉03'58		
asc. node	-2944 Mar 02 j 23:07	10°♉03'12		
	-2944 Apr 06 j 21:39	15°♉		
evening set	-2944 Jun 02 j 06:57	26°♉21'40		
conjunction	-2944 Jun 15 j 21:04	29°♉21'16	0°11'41	
minimum elong	-2944 Jun 15 j 21:03	29°♉21'16	0°11'46	
behind sun begin	-2944 Jun 15 j 15:21	29°♉18'08		
behind sun end	-2944 Jun 16 j 02:44	29°♉24'24		
max. Earth dist.	-2944 Jun 16 j 03:42	29°♉24'55	6.31897 AU	
	-2944 Jun 18 j 19:11	0°♊		
morning rise	-2944 Jun 29 j 08:43	2°♊19'33		
retrograde	-2944 Oct 29 j 05:55	19°♊45'47		
opposition	-2944 Dec 28 j 00:25	14°♊48'54	0°47'09	
min. Earth dist.	-2944 Dec 28 j 04:17	14°♊47'38	4.36161 AU	
direct	-2943 Feb 27 j 13:31	9°♊45'24		
evening set	-2943 Jul 05 j 05:14	27°♊42'17		

Attention, astronomical year style is used: The year -2943 in astronomical counting style is the year 2944 BCE in historical counting style.

	-2943 Jul 15 j 18:03	0°♋	
conjunction	-2943 Jul 18 j 10:48	0°♋35'23	0°51'03
minimum elong	-2943 Jul 18 j 10:45	0°♋35'21	0°51'08
max. Earth dist.	-2943 Jul 17 j 15:47	0°♋24'59	6.39198 AU
morning rise	-2943 Jul 31 j 13:16	3°♋26'52	
retrograde	-2943 Nov 28 j 21:09	20°♋26'07	
opposition	-2942 Jan 28 j 01:23	15°♋32'30	1°34'55
min. Earth dist.	-2942 Jan 28 j 20:36	15°♋26'17	4.40857 AU
direct	-2942 Mar 31 j 11:57	10°♋29'31	
evening set	-2942 Aug 05 j 19:39	28°♋17'00	
	-2942 Aug 13 j 16:28	0°♌	
max. Earth dist.	-2942 Aug 17 j 04:52	0°♌46'14	6.40811 AU
conjunction	-2942 Aug 18 j 16:30	1°♌05'46	1°15'25
minimum elong	-2942 Aug 18 j 16:28	1°♌05'45	1°15'29
morning rise	-2942 Aug 31 j 10:07	3°♌53'02	
	-2942 Oct 26 j 11:11	15°♌	
retrograde	-2942 Dec 29 j 18:46	20°♌51'56	
opposition	-2941 Feb 28 j 10:01	16°♌00'10	1°56'17
min. Earth dist.	-2941 Mar 01 j 15:10	15°♌50'51	4.39412 AU
	-2941 Mar 08 j 07:39	15℞♌	
direct	-2941 May 02 j 03:00	10°♌58'55	
	-2941 Jun 24 j 23:53	15°♌	
evening set	-2941 Sep 05 j 18:25	28°♌49'45	
	-2941 Sep 11 j 01:24	0°♍	
max. Earth dist.	-2941 Sep 16 j 12:21	1°♍12'47	6.36293 AU
conjunction	-2941 Sep 18 j 09:05	1°♍37'41	1°18'49
minimum elong	-2941 Sep 18 j 09:06	1°♍37'41	1°18'52
morning rise	-2941 Sep 30 j 21:47	4°♍24'44	
retrograde	-2940 Jan 30 j 21:36	21°♍49'01	
opposition	-2940 Mar 31 j 19:57	16°♍57'19	1°45'24
min. Earth dist.	-2940 Apr 02 j 04:21	16°♍47'01	4.32109 AU
direct	-2940 Jun 02 j 04:01	11°♍58'32	
evening set	-2940 Oct 05 j 20:32	0°♎04'42	
	-2940 Oct 05 j 12:13	0°♎	
max. Earth dist.	-2940 Oct 16 j 17:49	2°♎33'01	6.26781 AU
conjunction	-2940 Oct 18 j 09:46	2°♎55'46	0°59'33
minimum elong	-2940 Oct 18 j 09:49	2°♎55'48	0°59'32
morning rise	-2940 Oct 30 j 22:15	5°♎46'43	
retrograde	-2939 Mar 04 j 17:28	23°♎58'10	
opposition	-2939 May 04 j 19:41	19°♎04'46	1°02'19
min. Earth dist.	-2939 May 05 j 19:38	18°♎57'07	4.20926 AU
direct	-2939 Jul 05 j 01:45	14°♎08'51	
	-2939 Oct 26 j 08:57	0°♏	
evening set	-2939 Nov 06 j 22:47	2°♏39'25	
conjunction	-2939 Nov 19 j 14:39	5°♏36'33	0°21'11
minimum elong	-2939 Nov 19 j 14:41	5°♏36'34	0°21'08
max. Earth dist.	-2939 Nov 18 j 14:55	5°♏22'41	6.14945 AU
morning rise	-2939 Dec 02 j 07:38	8°♏34'30	
	-2939 Dec 30 j 19:49	15°♏	
retrograde	-2938 Apr 09 j 14:45	27°♏45'22	
desc. node	-2938 May 19 j 07:25	25°♏24'47	
opposition	-2938 Jun 09 j 11:57	22°♏48'46	-0°03'46
min. Earth dist.	-2938 Jun 09 j 20:22	22°♏46'02	4.09251 AU
direct	-2938 Aug 08 j 09:34	17°♏55'02	
	-2938 Nov 10 j 15:20	0°♐	
evening set	-2938 Dec 10 j 18:16	6°♐53'32	
conjunction	-2938 Dec 23 j 15:56	9°♐57'41	-0°25'49
minimum elong	-2938 Dec 23 j 15:54	9°♐57'40	0°25'54
max. Earth dist.	-2938 Dec 23 j 18:05	9°♐58'58	6.04536 AU
morning rise	-2937 Jan 05 j 16:05	13°♐03'20	
	-2937 Apr 01 j 09:06	0°♑	
retrograde	-2937 May 16 j 20:51	3°♑07'09	
	-2937 Jul 01 j 17:12	30℞♐	
opposition	-2937 Jul 16 j 08:34	28°♐06'40	-1°11'40
min. Earth dist.	-2937 Jul 15 j 20:55	28°♐10'31	4.01154 AU
direct	-2937 Sep 12 j 23:04	23°♐13'30	
	-2937 Nov 18 j 18:58	0°♑	
evening set	-2936 Jan 15 j 11:53	12°♑33'39	
conjunction	-2936 Jan 28 j 16:37	15°♑43'09	-1°04'35
minimum elong	-2936 Jan 28 j 16:34	15°♑43'07	1°04'41
max. Earth dist.	-2936 Jan 29 j 21:22	16°♑00'23	5.99428 AU
morning rise	-2936 Feb 11 j 00:48	18°♑54'28	
	-2936 Mar 31 j 23:12	0°♒	
retrograde	-2936 Jun 22 j 08:52	9°♒21'03	
min. Earth dist.	-2936 Aug 20 j 05:43	4°♒26'09	3.99752 AU
opposition	-2936 Aug 21 j 08:29	4°♒17'05	-1°53'33
	-2936 Sep 29 j 04:36	30℞♑	
direct	-2936 Oct 18 j 07:36	29°♑22'14	
	-2936 Nov 06 j 11:18	0°♒	
	-2935 Feb 04 j 06:30	15°♒	
evening set	-2935 Feb 20 j 12:53	18°♒47'07	
conjunction	-2935 Mar 06 j 01:15	21°♒58'51	-1°18'59
minimum elong	-2935 Mar 06 j 01:15	21°♒58'51	1°19'03
max. Earth dist.	-2935 Mar 08 j 00:56	22°♒27'05	6.01737 AU
morning rise	-2935 Mar 19 j 16:20	25°♒11'56	
	-2935 Apr 09 j 12:41	0°♓	
retrograde	-2935 Jul 28 j 18:00	15°♓17'06	
min. Earth dist.	-2935 Sep 25 j 00:48	10°♓22'17	4.05603 AU
opposition	-2935 Sep 26 j 07:25	10°♓11'49	-1°51'27
direct	-2935 Nov 23 j 11:40	5°♓13'54	
evening set	-2934 Mar 29 j 16:09	24°♓23'24	
conjunction	-2934 Apr 12 j 09:47	27°♓33'33	-1°03'35
minimum elong	-2934 Apr 12 j 09:50	27°♓33'35	1°03'34
max. Earth dist.	-2934 Apr 14 j 07:41	28°♓00'03	6.10536 AU
	-2934 Apr 22 j 23:51	0°♈	
morning rise	-2934 Apr 26 j 04:51	0°♈44'10	
retrograde	-2934 Sep 01 j 01:36	19°♈54'30	
min. Earth dist.	-2934 Oct 29 j 11:45	14°♈59'08	4.16354 AU
opposition	-2934 Oct 30 j 12:38	14°♈50'39	-1°09'16
direct	-2934 Dec 28 j 15:38	9°♈49'38	
evening set	-2933 May 04 j 17:03	28°♈31'29	
	-2933 May 11 j 07:07	0°♉	
conjunction	-2933 May 18 j 11:16	1°♉36'45	-0°26'25
minimum elong	-2933 May 18 j 11:19	1°♉36'47	0°26'22
max. Earth dist.	-2933 May 19 j 15:47	1°♉52'47	6.22423 AU
morning rise	-2933 Jun 01 j 04:39	4°♉41'23	
	-2933 Jul 20 j 19:45	15°♉	
retrograde	-2933 Oct 03 j 12:59	22°♉49'37	
opposition	-2933 Dec 02 j 01:18	17°♉49'13	-0°06'33
min. Earth dist.	-2933 Dec 01 j 15:02	17°♉52'39	4.28170 AU
	-2933 Dec 24 j 10:27	15℞♉	
asc. node	-2932 Jan 10 j 17:50	13°♉27'29	
direct	-2932 Jan 31 j 12:50	12°♉46'12	
	-2932 Mar 10 j 01:52	15°♉	
	-2932 Jun 02 j 11:24	0°♊	
evening set	-2932 Jun 07 j 01:30	1°♊00'00	
conjunction	-2932 Jun 20 j 14:32	3°♊58'34	0°17'52
minimum elong	-2932 Jun 20 j 14:31	3°♊58'33	0°17'57
max. Earth dist.	-2932 Jun 20 j 17:29	4°♊00'11	6.33297 AU
morning rise	-2932 Jul 04 j 01:04	6°♊55'45	
retrograde	-2932 Nov 02 j 13:49	24°♊16'07	
opposition	-2931 Jan 01 j 10:18	19°♊19'39	0°55'11
min. Earth dist.	-2931 Jan 01 j 16:01	19°♊17'46	4.37298 AU

Attention, astronomical year style is used: The year -2931 in astronomical counting style is the year 2932 BCE in historical counting style.

direct	-2931 Mar 04 j 02:48	14°♊16'03	
	-2931 Jun 29 j 15:30	0°♋	
evening set	-2931 Jul 09 j 17:58	2°♋10'13	
conjunction	-2931 Jul 22 j 22:16	5°♋02'28	0°55'35
minimum elong	-2931 Jul 22 j 22:13	5°♋02'26	0°55'41
max. Earth dist.	-2931 Jul 22 j 01:18	4°♋51'01	6.39957 AU
morning rise	-2931 Aug 04 j 23:15	7°♋53'03	
retrograde	-2931 Dec 03 j 04:37	24°♋50'04	
opposition	-2930 Feb 01 j 10:35	19°♋56'48	1°39'42
min. Earth dist.	-2930 Feb 02 j 07:37	19°♋50'01	4.41188 AU
direct	-2930 Apr 04 j 23:17	14°♋54'00	
	-2930 Jul 28 j 18:06	0°♌	
evening set	-2930 Aug 10 j 04:49	2°♌40'41	
max. Earth dist.	-2930 Aug 21 j 09:25	5°♌07'35	6.40655 AU
conjunction	-2930 Aug 23 j 00:27	5°♌29'00	1°17'14
minimum elong	-2930 Aug 23 j 00:25	5°♌28'59	1°17'18
morning rise	-2930 Sep 04 j 17:14	8°♌15'58	
	-2930 Oct 06 j 18:13	15°♌	
retrograde	-2929 Jan 03 j 05:30	25°♌16'34	
opposition	-2929 Mar 04 j 21:22	20°♌24'54	1°56'45
min. Earth dist.	-2929 Mar 06 j 04:07	20°♌15'05	4.38788 AU
direct	-2929 May 06 j 14:26	15°♌23'53	
	-2929 Aug 26 j 02:50	0°♍	
evening set	-2929 Sep 10 j 02:26	3°♍16'04	
max. Earth dist.	-2929 Sep 20 j 20:44	5°♍39'39	6.35243 AU
conjunction	-2929 Sep 22 j 16:47	6°♍04'14	1°17'27
minimum elong	-2929 Sep 22 j 16:49	6°♍04'15	1°17'29
morning rise	-2929 Oct 05 j 05:01	8°♍51'34	
retrograde	-2928 Feb 04 j 11:58	26°♍21'15	
opposition	-2928 Apr 05 j 11:51	21°♍29'27	1°41'11
min. Earth dist.	-2928 Apr 06 j 19:22	21°♍19'27	4.30693 AU
direct	-2928 Jun 06 j 16:16	16°♍31'06	
	-2928 Sep 19 j 04:56	0°♎	
evening set	-2928 Oct 10 j 06:52	4°♎40'26	
max. Earth dist.	-2928 Oct 21 j 04:52	7°♎09'46	6.25115 AU
conjunction	-2928 Oct 22 j 20:07	7°♎32'14	0°55'07
minimum elong	-2928 Oct 22 j 20:10	7°♎32'15	0°55'07
morning rise	-2928 Nov 04 j 09:06	10°♎24'04	
retrograde	-2927 Mar 09 j 16:53	28°♎43'51	
opposition	-2927 May 09 j 17:47	23°♎50'06	0°54'02
min. Earth dist.	-2927 May 10 j 16:42	23°♎42'46	4.19103 AU
direct	-2927 Jul 09 j 19:57	18°♎54'32	
	-2927 Oct 09 j 00:39	0°♏	
evening set	-2927 Nov 11 j 14:24	7°♏29'37	
max. Earth dist.	-2927 Nov 23 j 10:42	10°♏15'54	6.13149 AU
conjunction	-2927 Nov 24 j 07:05	10°♏27'52	0°14'44
minimum elong	-2927 Nov 24 j 07:06	10°♏27'52	0°14'40
behind sun begin	-2927 Nov 24 j 03:30	10°♏25'46	
behind sun end	-2927 Nov 24 j 10:42	10°♏29'58	
morning rise	-2927 Dec 07 j 00:56	13°♏26'59	
	-2927 Dec 13 j 17:15	15°♏	
	-2926 Mar 02 j 17:26	0°♐	
desc. node	-2926 Mar 28 j 17:53	2°♐19'31	
retrograde	-2926 Apr 14 j 19:03	2°♐46'49	
	-2926 May 28 j 08:02	30°℞♏	
opposition	-2926 Jun 14 j 15:30	27°♏49'48	-0°13'55
min. Earth dist.	-2926 Jun 14 j 20:50	27°♏48'04	4.07657 AU
direct	-2926 Aug 13 j 07:28	22°♏56'21	
	-2926 Oct 21 j 12:26	0°♐	
evening set	-2926 Dec 15 j 17:10	11°♐59'18	
conjunction	-2926 Dec 28 j 15:42	15°♐04'25	-0°32'15
minimum elong	-2926 Dec 28 j 15:40	15°♐04'23	0°32'19
max. Earth dist.	-2926 Dec 28 j 21:10	15°♐07'40	6.03292 AU
morning rise	-2925 Jan 10 j 17:05	18°♐11'08	
	-2925 Mar 05 j 14:32	0°♑	
retrograde	-2925 May 22 j 05:01	8°♑21'09	
opposition	-2925 Jul 21 j 15:05	3°♑20'08	-1°19'48
min. Earth dist.	-2925 Jul 21 j 00:28	3°♑24'59	4.00424 AU
	-2925 Aug 18 j 08:44	30°℞♐	
direct	-2925 Sep 18 j 02:36	28°♐26'55	
	-2925 Oct 18 j 15:01	0°♑	
evening set	-2924 Jan 20 j 16:43	17°♑49'13	
conjunction	-2924 Feb 02 j 22:42	20°♑59'19	-1°08'23
minimum elong	-2924 Feb 02 j 22:39	20°♑59'17	1°08'27
max. Earth dist.	-2924 Feb 04 j 08:53	21°♑19'47	5.99297 AU
morning rise	-2924 Feb 16 j 07:49	24°♑11'07	
	-2924 Mar 12 j 09:47	0°♒	
retrograde	-2924 Jun 27 j 15:55	14°♒37'17	
min. Earth dist.	-2924 Aug 25 j 09:22	9°♒42'26	4.00278 AU
opposition	-2924 Aug 26 j 13:14	9°♒33'00	-1°56'03
direct	-2924 Oct 23 j 11:53	4°♒37'51	
	-2923 Jan 16 j 14:46	15°♒	
evening set	-2923 Feb 25 j 19:51	24°♒01'04	
conjunction	-2923 Mar 11 j 08:57	27°♒12'40	-1°18'32
minimum elong	-2923 Mar 11 j 08:58	27°♒12'40	1°18'35
max. Earth dist.	-2923 Mar 13 j 09:18	27°♒41'11	6.02847 AU
	-2923 Mar 23 j 05:18	0°♓	
morning rise	-2923 Mar 25 j 00:58	0°♓25'34	
retrograde	-2923 Aug 02 j 15:47	20°♓23'28	
min. Earth dist.	-2923 Sep 29 j 22:33	15°♓28'55	4.07180 AU
opposition	-2923 Oct 01 j 05:54	15°♓18'12	-1°47'31
direct	-2923 Nov 28 j 12:15	10°♓19'49	
evening set	-2922 Apr 03 j 19:42	29°♓24'42	
	-2922 Apr 06 j 09:25	0°♈	
conjunction	-2922 Apr 17 j 13:45	2°♈34'10	-0°59'20
minimum elong	-2922 Apr 17 j 13:49	2°♈34'12	0°59'20
max. Earth dist.	-2922 Apr 19 j 10:08	2°♈59'41	6.12446 AU
morning rise	-2922 May 01 j 08:48	5°♈43'55	
retrograde	-2922 Sep 05 j 17:59	24°♈44'09	
min. Earth dist.	-2922 Nov 03 j 05:46	19°♈48'17	4.18368 AU
opposition	-2922 Nov 04 j 04:06	19°♈40'41	-1°01'10
direct	-2921 Jan 02 j 12:41	14°♈39'18	
	-2921 Apr 24 j 18:06	0°♉	
evening set	-2921 May 09 j 14:01	3°♉15'41	
conjunction	-2921 May 23 j 07:50	6°♉19'57	-0°20'20
minimum elong	-2921 May 23 j 07:51	6°♉19'58	0°20'17
max. Earth dist.	-2921 May 24 j 09:14	6°♉34'10	6.24376 AU
morning rise	-2921 Jun 06 j 00:29	9°♉23'26	
	-2921 Jul 01 j 22:58	15°♉	
retrograde	-2921 Oct 07 j 20:32	27°♉22'55	
asc. node	-2921 Nov 21 j 03:19	24°♉22'35	
opposition	-2921 Dec 06 j 10:50	22°♉23'03	0°02'31
min. Earth dist.	-2921 Dec 06 j 02:16	22°♉25'55	4.29896 AU
direct	-2920 Feb 05 j 01:56	17°♉19'51	
	-2920 May 16 j 19:42	0°♊	
evening set	-2920 Jun 11 j 15:56	5°♊29'35	
conjunction	-2920 Jun 25 j 03:50	8°♊27'08	0°23'44
minimum elong	-2920 Jun 25 j 03:48	8°♊27'07	0°23'49
max. Earth dist.	-2920 Jun 25 j 02:17	8°♊26'17	6.34663 AU
morning rise	-2920 Jul 08 j 13:06	11°♊23'14	
retrograde	-2920 Nov 06 j 20:32	28°♊38'32	
opposition	-2919 Jan 05 j 17:00	23°♊42'37	1°02'38
min. Earth dist.	-2919 Jan 06 j 02:08	23°♊39'37	4.38213 AU

Attention, astronomical year style is used: The year -2919 in astronomical counting style is the year 2920 BCE in historical counting style.

direct	-2919 Mar 08 j 13:43	18°♊39'01	
	-2919 Jun 12 j 22:08	0°♋	
evening set	-2919 Jul 14 j 03:25	6°♋31'28	
max. Earth dist.	-2919 Jul 26 j 05:30	9°♋09'23	6.40327 AU
conjunction	-2919 Jul 27 j 06:31	9°♋23'02	0°59'41
minimum elong	-2919 Jul 27 j 06:27	9°♋23'00	0°59'46
morning rise	-2919 Aug 09 j 06:18	12°♋12'59	
retrograde	-2919 Dec 07 j 10:34	29°♋09'23	
opposition	-2918 Feb 05 j 17:50	24°♋16'25	1°43'51
min. Earth dist.	-2918 Feb 06 j 16:40	24°♋09'02	4.41025 AU
direct	-2918 Apr 09 j 07:06	19°♋13'43	
	-2918 Jul 11 j 22:09	0°♌	
evening set	-2918 Aug 14 j 11:54	7°♌01'15	
max. Earth dist.	-2918 Aug 25 j 14:57	9°♌27'36	6.39959 AU
conjunction	-2918 Aug 27 j 06:43	9°♌49'29	1°18'35
minimum elong	-2918 Aug 27 j 06:41	9°♌49'28	1°18'40
morning rise	-2918 Sep 08 j 22:33	12°♌36'22	
	-2918 Sep 19 j 23:36	15°♌	
retrograde	-2917 Jan 07 j 15:44	29°♌40'36	
opposition	-2917 Mar 09 j 08:28	24°♌49'03	1°56'34
min. Earth dist.	-2917 Mar 10 j 16:06	24°♌38'58	4.37611 AU
direct	-2917 May 11 j 00:14	19°♌48'23	
	-2917 Aug 08 j 21:51	0°♍	
evening set	-2917 Sep 14 j 10:30	7°♍43'34	
max. Earth dist.	-2917 Sep 25 j 02:50	10°♍06'40	6.33667 AU
conjunction	-2917 Sep 27 j 00:22	10°♍32'11	1°15'36
minimum elong	-2917 Sep 27 j 00:24	10°♍32'12	1°15'37
morning rise	-2917 Oct 09 j 12:38	13°♍20'08	
	-2916 Jan 15 j 08:48	0°♎	
retrograde	-2916 Feb 09 j 05:57	0°♎57'03	
	-2916 Mar 05 j 04:17	30°℞♍	
opposition	-2916 Apr 10 j 05:11	26°♍05'03	1°36'17
min. Earth dist.	-2916 Apr 11 j 12:08	25°♍55'12	4.28819 AU
direct	-2916 Jun 11 j 06:20	21°♍07'03	
	-2916 Sep 01 j 00:02	0°♎	
evening set	-2916 Oct 14 j 18:43	9°♎20'56	
max. Earth dist.	-2916 Oct 25 j 20:24	11°♎52'59	6.23124 AU
conjunction	-2916 Oct 27 j 08:27	12°♎13'42	0°50'17
minimum elong	-2916 Oct 27 j 08:30	12°♎13'43	0°50'16
morning rise	-2916 Nov 08 j 21:50	15°♎06'35	
	-2915 Jan 24 j 06:16	0°♏	
retrograde	-2915 Mar 14 j 17:22	3°♏35'34	
	-2915 May 04 j 09:40	30°℞♎	
opposition	-2915 May 14 j 18:08	28°♎41'26	0°45'12
min. Earth dist.	-2915 May 15 j 14:29	28°♎34'55	4.17146 AU
direct	-2915 Jul 14 j 14:59	23°♎46'18	
	-2915 Sep 18 j 08:12	0°♏	
evening set	-2915 Nov 16 j 08:33	12°♏26'04	
	-2915 Nov 27 j 06:46	15°♏	
max. Earth dist.	-2915 Nov 28 j 08:25	15°♏15'07	6.11404 AU
conjunction	-2915 Nov 29 j 01:50	15°♏25'22	0°08'04
minimum elong	-2915 Nov 29 j 01:50	15°♏25'22	0°08'00
behind sun begin	-2915 Nov 28 j 18:39	15°♏21'09	
behind sun end	-2915 Nov 29 j 09:02	15°♏29'35	
morning rise	-2915 Dec 11 j 20:47	18°♏25'41	
	-2914 Feb 03 j 11:51	0°♐	
desc. node	-2914 Feb 04 j 13:55	0°♐12'06	
retrograde	-2914 Apr 20 j 01:37	7°♐54'04	
opposition	-2914 Jun 19 j 21:20	2°♐56'24	-0°24'08
min. Earth dist.	-2914 Jun 19 j 23:05	2°♐55'50	4.06280 AU
	-2914 Jul 14 j 03:08	30°℞♏	
direct	-2914 Aug 18 j 09:00	28°♏03'05	
	-2914 Sep 22 j 03:56	0°♐	
evening set	-2914 Dec 20 j 17:56	17°♐09'18	
conjunction	-2913 Jan 02 j 17:34	20°♐15'14	-0°38'30
minimum elong	-2913 Jan 02 j 17:31	20°♐15'12	0°38'35
max. Earth dist.	-2913 Jan 03 j 05:04	20°♐22'07	6.02411 AU
morning rise	-2913 Jan 15 j 19:53	23°♐22'47	
	-2913 Feb 13 j 13:25	0°♑	
retrograde	-2913 May 27 j 14:35	13°♑36'49	
opposition	-2913 Jul 26 j 22:05	8°♑35'14	-1°27'20
min. Earth dist.	-2913 Jul 26 j 05:21	8°♑40'48	4.00150 AU
direct	-2913 Sep 23 j 07:04	3°♑41'51	
evening set	-2912 Jan 25 j 22:21	23°♑04'33	
conjunction	-2912 Feb 08 j 05:08	26°♑14'52	-1°11'38
minimum elong	-2912 Feb 08 j 05:06	26°♑14'51	1°11'43
max. Earth dist.	-2912 Feb 09 j 17:21	26°♑36'31	5.99603 AU
morning rise	-2912 Feb 21 j 15:25	29°♑26'57	
	-2912 Feb 23 j 23:15	0°♒	
	-2912 May 06 j 18:08	15°♒	
retrograde	-2912 Jul 02 j 18:53	19°♒50'26	
	-2912 Aug 29 j 22:39	15°℞♒	
min. Earth dist.	-2912 Aug 30 j 10:31	14°♒55'59	4.01147 AU
opposition	-2912 Aug 31 j 16:23	14°♒45'51	-1°57'35
direct	-2912 Oct 28 j 14:31	9°♒50'16	
	-2912 Dec 25 j 03:16	15°♒	
evening set	-2911 Mar 03 j 01:39	29°♒10'50	
	-2911 Mar 06 j 13:39	0°♓	
conjunction	-2911 Mar 16 j 15:40	2°♓22'12	-1°17'29
minimum elong	-2911 Mar 16 j 15:41	2°♓22'13	1°17'31
max. Earth dist.	-2911 Mar 18 j 16:38	2°♓50'59	6.04181 AU
morning rise	-2911 Mar 30 j 08:11	5°♓34'43	
retrograde	-2911 Aug 07 j 14:14	25°♓24'45	
min. Earth dist.	-2911 Oct 04 j 21:07	20°♓29'45	4.08816 AU
opposition	-2911 Oct 06 j 02:47	20°♓19'36	-1°42'52
direct	-2911 Dec 03 j 13:25	15°♓20'45	
	-2910 Mar 20 j 11:46	0°♈	
evening set	-2910 Apr 08 j 21:44	4°♈21'07	
conjunction	-2910 Apr 22 j 16:04	7°♈29'55	-0°54'44
minimum elong	-2910 Apr 22 j 16:08	7°♈29'57	0°54'43
max. Earth dist.	-2910 Apr 24 j 11:03	7°♈54'31	6.14256 AU
morning rise	-2910 May 06 j 11:04	10°♈38'50	
retrograde	-2910 Sep 10 j 07:03	29°♈29'39	
opposition	-2910 Nov 08 j 18:08	24°♈26'40	-0°52'47
min. Earth dist.	-2910 Nov 07 j 20:53	24°♈33'53	4.20181 AU
direct	-2909 Jan 07 j 05:58	19°♈24'59	
	-2909 Apr 07 j 00:33	0°♉	
evening set	-2909 May 14 j 10:27	7°♉57'02	
conjunction	-2909 May 28 j 03:36	11°♉00'21	-0°14'10
minimum elong	-2909 May 28 j 03:37	11°♉00'21	0°14'07
behind sun begin	-2909 May 27 j 23:49	10°♉58'14	
behind sun end	-2909 May 28 j 07:26	11°♉02'28	
max. Earth dist.	-2909 May 29 j 00:00	11°♉11'43	6.26062 AU
morning rise	-2909 Jun 10 j 19:32	14°♉02'47	
	-2909 Jun 15 j 03:15	15°♉	
	-2909 Sep 07 j 08:18	0°♊	
asc. node	-2909 Oct 01 j 08:28	1°♊43'06	
retrograde	-2909 Oct 12 j 06:29	1°♊54'47	
	-2909 Nov 15 j 22:58	30°℞♉	
opposition	-2909 Dec 10 j 20:17	26°♉55'32	0°11'32
min. Earth dist.	-2909 Dec 10 j 15:16	26°♉57'12	4.31320 AU
direct	-2908 Feb 09 j 16:39	21°♉52'11	
	-2908 Apr 28 j 04:05	0°♊	
evening set	-2908 Jun 16 j 06:28	9°♊59'01	

Attention, astronomical year style is used: The year -2908 in astronomical counting style is the year 2909 BCE in historical counting style.

conjunction	-2908 Jun 29 j 17:23	12°♊55'42	0°29'28
minimum elong	-2908 Jun 29 j 17:21	12°♊55'41	0°29'34
max. Earth dist.	-2908 Jun 29 j 12:49	12°♊53'12	6.35716 AU
morning rise	-2908 Jul 13 j 01:19	15°♊50'52	
	-2908 Sep 27 j 08:07	0°♋	
retrograde	-2908 Nov 11 j 02:01	3°♋02'18	
	-2908 Dec 26 j 05:47	30°℞♊	
opposition	-2907 Jan 10 j 00:39	28°♊06'53	1°09'47
min. Earth dist.	-2907 Jan 10 j 11:17	28°♊03'24	4.38856 AU
direct	-2907 Mar 12 j 23:07	23°♊03'22	
	-2907 May 24 j 15:34	0°♋	
evening set	-2907 Jul 18 j 13:49	10°♋54'56	
max. Earth dist.	-2907 Jul 30 j 11:36	13°♋30'37	6.40500 AU
conjunction	-2907 Jul 31 j 15:35	13°♋45'55	1°03'30
minimum elong	-2907 Jul 31 j 15:32	13°♋45'53	1°03'34
morning rise	-2907 Aug 13 j 14:09	16°♋35'18	
	-2907 Oct 24 j 00:39	0°♌	
retrograde	-2907 Dec 11 j 19:18	3°♌31'49	
	-2906 Jan 30 j 12:15	30°℞♋	
opposition	-2906 Feb 10 j 02:52	28°♋39'14	1°47'30
min. Earth dist.	-2906 Feb 11 j 04:06	28°♋31'07	4.40739 AU
direct	-2906 Apr 13 j 17:49	23°♋36'50	
	-2906 Jun 22 j 05:15	0°♌	
evening set	-2906 Aug 18 j 20:28	11°♌25'28	
max. Earth dist.	-2906 Aug 29 j 20:18	13°♌50'25	6.39217 AU
conjunction	-2906 Aug 31 j 14:23	14°♌13'37	1°19'32
minimum elong	-2906 Aug 31 j 14:22	14°♌13'36	1°19'36
	-2906 Sep 04 j 02:31	15°♌	
morning rise	-2906 Sep 13 j 05:32	17°♌00'30	
	-2906 Nov 19 j 20:27	0°♍	
retrograde	-2905 Jan 12 j 03:50	4°♍08'35	
	-2905 Mar 08 j 06:11	30°℞♌	
opposition	-2905 Mar 13 j 21:18	29°♌17'06	1°55'44
min. Earth dist.	-2905 Mar 15 j 04:53	29°♌07'02	4.36487 AU
direct	-2905 May 15 j 11:04	24°♌16'49	
	-2905 Jul 19 j 08:58	0°♍	
evening set	-2905 Sep 18 j 19:47	12°♍14'46	
max. Earth dist.	-2905 Sep 29 j 13:57	14°♍39'22	6.32269 AU
conjunction	-2905 Oct 01 j 09:29	15°♍03'51	1°13'19
minimum elong	-2905 Oct 01 j 09:31	15°♍03'52	1°13'20
morning rise	-2905 Oct 13 j 21:30	17°♍52'18	
	-2905 Dec 13 j 04:15	0°♎	
retrograde	-2904 Feb 14 j 00:11	5°♎35'55	
opposition	-2904 Apr 14 j 23:51	0°♎43'47	1°30'45
min. Earth dist.	-2904 Apr 16 j 05:53	0°♎34'14	4.27242 AU
	-2904 Apr 20 j 17:59	30°℞♍	
direct	-2904 Jun 15 j 21:42	25°♍46'19	
	-2904 Aug 09 j 03:46	0°♎	
evening set	-2904 Oct 19 j 07:16	14°♎03'36	
max. Earth dist.	-2904 Oct 30 j 10:27	16°♎37'08	6.21520 AU
conjunction	-2904 Oct 31 j 21:09	16°♎57'09	0°45'07
minimum elong	-2904 Oct 31 j 21:12	16°♎57'11	0°45'05
morning rise	-2904 Nov 13 j 11:15	19°♎51'00	
	-2904 Dec 30 j 20:45	0°♏	
retrograde	-2903 Mar 19 j 17:21	8°♏27'57	
opposition	-2903 May 19 j 18:28	3°♏33'22	0°36'04
min. Earth dist.	-2903 May 20 j 11:45	3°♏27'49	4.15632 AU
	-2903 Jun 19 j 19:41	30°℞♎	
direct	-2903 Jul 19 j 11:01	28°♎38'35	
	-2903 Aug 17 j 21:02	0°♏	
	-2903 Nov 10 j 22:22	15°♏	
evening set	-2903 Nov 21 j 02:07	17°♏21'33	
conjunction	-2903 Dec 03 j 20:15	20°♏21'43	0°01'24
minimum elong	-2903 Dec 03 j 20:16	20°♏21'44	0°01'21
behind sun begin	-2903 Dec 03 j 12:13	20°♏17'00	
behind sun end	-2903 Dec 04 j 04:19	20°♏26'27	
max. Earth dist.	-2903 Dec 03 j 08:16	20°♏14'40	6.10138 AU
desc. node	-2903 Dec 15 j 08:22	23°♏04'27	
morning rise	-2903 Dec 16 j 15:58	23°♏22'59	
	-2902 Jan 14 j 18:37	0°♐	
retrograde	-2902 Apr 25 j 07:24	12°♐57'53	
opposition	-2902 Jun 25 j 01:07	7°♐59'43	-0°33'58
min. Earth dist.	-2902 Jun 25 j 00:34	7°♐59'53	4.05385 AU
direct	-2902 Aug 23 j 09:19	3°♐06'32	
evening set	-2902 Dec 25 j 16:59	22°♐14'33	
conjunction	-2901 Jan 07 j 17:21	25°♐21'03	-0°44'18
minimum elong	-2901 Jan 07 j 17:18	25°♐21'01	0°44'23
max. Earth dist.	-2901 Jan 08 j 07:29	25°♐29'30	6.01946 AU
morning rise	-2901 Jan 20 j 20:52	28°♐29'16	
	-2901 Jan 27 j 06:24	0°♑	
retrograde	-2901 Jun 01 j 17:33	18°♑45'35	
min. Earth dist.	-2901 Jul 31 j 05:31	13°♑50'05	4.00188 AU
opposition	-2901 Aug 01 j 01:23	13°♑43'27	-1°33'55
direct	-2901 Sep 28 j 07:17	8°♑49'52	
evening set	-2900 Jan 31 j 00:33	28°♑12'06	
	-2900 Feb 07 j 13:57	0°♒	
conjunction	-2900 Feb 13 j 08:24	1°♒22'37	-1°14'13
minimum elong	-2900 Feb 13 j 08:22	1°♒22'36	1°14'18
max. Earth dist.	-2900 Feb 14 j 23:33	1°♒45'59	6.00116 AU
morning rise	-2900 Feb 26 j 19:28	4°♒34'48	
	-2900 Apr 13 j 15:04	15°♒	
retrograde	-2900 Jul 07 j 20:01	24°♒54'57	
min. Earth dist.	-2900 Sep 04 j 10:15	20°♒00'06	4.02076 AU
opposition	-2900 Sep 05 j 15:39	19°♒50'07	-1°58'09
	-2900 Oct 26 j 02:40	15°℞♒	
direct	-2900 Nov 02 j 15:48	14°♒54'05	
	-2900 Nov 10 j 04:35	15°♒	
	-2899 Feb 17 j 21:05	0°♓	
evening set	-2899 Mar 08 j 03:49	4°♓11'59	
conjunction	-2899 Mar 21 j 18:38	7°♓23'07	-1°15'53
minimum elong	-2899 Mar 21 j 18:40	7°♓23'09	1°15'55
max. Earth dist.	-2899 Mar 23 j 20:00	7°♓52'01	6.05432 AU
morning rise	-2899 Apr 04 j 11:46	10°♓35'18	
	-2899 Jul 29 j 21:36	0°♈	
retrograde	-2899 Aug 12 j 07:36	0°♈17'48	
	-2899 Aug 25 j 15:00	30°℞♓	
opposition	-2899 Oct 10 j 19:46	25°♓12'51	-1°37'39
min. Earth dist.	-2899 Oct 09 j 14:29	25°♓22'51	4.10262 AU
direct	-2899 Dec 08 j 08:15	20°♓13'34	