Attention, astronomical year style is used: The year -4400 in astronomical counting style is the year 4401 BCE in historical counting style.

	-4400 Jan 18 j 04:03	15°♏		
retrograde	-4400 Apr 03 j 10:04	19°♏22'11		
opposition	-4400 Jun 12 j 22:58	15°♏58'09	0°36'00	
min. Earth dist.	-4400 Jun 13 j 09:35	15°♏56'07	8.62501 AU	
	-4400 Jun 25 j 19:55	15°℞♏		
direct	-4400 Aug 20 j 13:58	12°♏37'53		
	-4400 Oct 12 j 14:42	15°♏		
evening set	-4400 Nov 28 j 07:20	19°♏58'42		
conjunction	-4400 Dec 15 j 05:05	22°♏04'01	0°14'01	
minimum elong	-4400 Dec 15 j 05:05	22°♏04'01	0°13'52	
behind sun begin	-4400 Dec 15 j 01:20	22°♏02'51		
behind sun end	-4400 Dec 15 j 08:51	22°♏05'10		
max. Earth dist.	-4400 Dec 14 j 16:55	22°♏00'14	10.55223 AU	
morning rise	-4399 Jan 01 j 07:12	24°♏10'45		
	-4399 Feb 26 j 13:03	0°♐		
retrograde	-4399 Apr 17 j 00:18	1°♐58'22		
desc. node	-4399 May 29 j 21:03	0°♐31'34		
	-4399 Jun 06 j 18:56	30°℞♏		
opposition	-4399 Jun 26 j 05:06	28°♏32'41	-0°02'53	
min. Earth dist.	-4399 Jun 26 j 13:34	28°♏31'02	8.47674 AU	
direct	-4399 Sep 02 j 03:32	25°♏11'28		
	-4399 Nov 18 j 07:10	0°♐		
evening set	-4399 Dec 11 j 02:42	2°♐41'34		
conjunction	-4399 Dec 28 j 04:22	4°♐50'05	-0°18'08	
minimum elong	-4399 Dec 28 j 04:20	4°♐50'04	0°18'19	
max. Earth dist.	-4399 Dec 27 j 18:40	4°♐47'01	10.40364 AU	
morning rise	-4398 Jan 14 j 11:07	7°♐00'13		
retrograde	-4398 May 01 j 00:36	15°♐00'17		
opposition	-4398 Jul 09 j 19:31	11°♐32'59	-0°43'02	
min. Earth dist.	-4398 Jul 10 j 01:34	11°♐31'47	8.32966 AU	
direct	-4398 Sep 15 j 03:40	8°♐10'41		
evening set	-4398 Dec 24 j 11:09	15°♐50'59		
conjunction	-4397 Jan 10 j 16:57	18°♐02'46	-0°50'15	
minimum elong	-4397 Jan 10 j 16:55	18°♐02'45	0°50'27	
max. Earth dist.	-4397 Jan 10 j 11:13	18°♐00'56	10.25972 AU	
morning rise	-4397 Jan 28 j 04:09	20°♐16'17		
retrograde	-4397 May 15 j 11:12	28°♐28'25		
opposition	-4397 Jul 23 j 17:52	24°♐59'38	-1°22'17	
min. Earth dist.	-4397 Jul 23 j 20:44	24°♐59'04	8.19153 AU	
direct	-4397 Sep 28 j 12:36	21°♐36'07		
evening set	-4396 Jan 07 j 09:14	29°♐27'07		
	-4396 Jan 11 j 16:08	0°♑		
conjunction	-4396 Jan 24 j 19:12	1°♑42'02	-1°20'30	
minimum elong	-4396 Jan 24 j 19:09	1°♑42'01	1°20'43	
max. Earth dist.	-4396 Jan 24 j 18:05	1°♑41'40	10.12827 AU	
morning rise	-4396 Feb 11 j 10:26	3°♑58'42		
retrograde	-4396 May 29 j 06:49	12°♑21'39		
opposition	-4396 Aug 05 j 23:31	8°♑51'36	-1°58'04	
min. Earth dist.	-4396 Aug 05 j 22:38	8°♑51'47	8.06992 AU	
direct	-4396 Oct 11 j 06:39	5°♑26'46		
evening set	-4395 Jan 20 j 20:39	13°♑28'18		
conjunction	-4395 Feb 07 j 10:30	15°♑46'01	-1°46'49	
minimum elong	-4395 Feb 07 j 10:26	15°♑46'00	1°47'01	
max. Earth dist.	-4395 Feb 07 j 13:59	15°♑47'10	10.01673 AU	
morning rise	-4395 Feb 25 j 05:15	18°♑05'23		
retrograde	-4395 Jun 13 j 08:26	26°♑36'57		
opposition	-4395 Aug 20 j 11:07	23°♑05'58	-2°27'41	
min. Earth dist.	-4395 Aug 20 j 06:38	23°♑06'53	7.97168 AU	
direct	-4395 Oct 25 j 10:26	19°♑39'47		
evening set	-4394 Feb 04 j 19:58	27°♑50'53		

	-4394 Feb 21 j 04:21	0°♒		
conjunction	-4394 Feb 22 j 13:27	0°♒10'58	-2°07'05	
minimum elong	-4394 Feb 22 j 13:25	0°♒10'58	2°07'16	
max. Earth dist.	-4394 Feb 22 j 21:01	0°♒13'29	9.93157 AU	
morning rise	-4394 Mar 12 j 11:16	2°♒32'30		
retrograde	-4394 Jun 28 j 13:35	11°♒09'37		
opposition	-4394 Sep 04 j 03:05	7°♒38'05	-2°48'32	
min. Earth dist.	-4394 Sep 03 j 19:35	7°♒39'39	7.90239 AU	
direct	-4394 Nov 08 j 21:49	4°♒10'40		
evening set	-4393 Feb 20 j 04:50	12°♒29'39		
conjunction	-4393 Mar 10 j 01:41	14°♒51'32	-2°19'31	
minimum elong	-4393 Mar 10 j 01:40	14°♒51'31	2°19'40	
max. Earth dist.	-4393 Mar 10 j 12:36	14°♒55'10	9.87806 AU	
	-4393 Mar 11 j 03:08	15°♒		
morning rise	-4393 Mar 28 j 02:04	17°♒14'32		
retrograde	-4393 Jul 13 j 19:38	25°♒53'29		
opposition	-4393 Sep 18 j 21:19	22°♒21'54	-2°58'37	
min. Earth dist.	-4393 Sep 18 j 11:34	22°♒23'56	7.86691 AU	
direct	-4393 Nov 23 j 15:39	18°♒53'23		
evening set	-4392 Mar 06 j 20:07	27°♒17'43		
conjunction	-4392 Mar 24 j 19:52	29°♒40'38	-2°22'54	
minimum elong	-4392 Mar 24 j 19:53	29°♒40'38	2°23'01	
max. Earth dist.	-4392 Mar 25 j 09:40	29°♒45'14	9.86088 AU	
	-4392 Mar 27 j 06:02	0°♓		
morning rise	-4392 Apr 11 j 22:04	2°♓04'17		
retrograde	-4392 Jul 27 j 22:47	10°♓40'48		
opposition	-4392 Oct 02 j 15:16	7°♓09'37	-2°56'53	
min. Earth dist.	-4392 Oct 02 j 03:50	7°♓12'01	7.86903 AU	
direct	-4392 Dec 07 j 13:47	3°♓40'16		
evening set	-4391 Mar 22 j 13:29	12°♓06'37		
conjunction	-4391 Apr 09 j 15:31	14°♓29'43	-2°16'54	
minimum elong	-4391 Apr 09 j 15:34	14°♓29'44	2°16'58	
max. Earth dist.	-4391 Apr 10 j 07:41	14°♓35'05	9.88256 AU	
morning rise	-4391 Apr 27 j 18:46	16°♓53'06		
retrograde	-4391 Aug 11 j 20:02	25°♓23'03		
opposition	-4391 Oct 17 j 06:27	21°♓52'42	-2°43'30	
min. Earth dist.	-4391 Oct 16 j 17:45	21°♓55'22	7.90953 AU	
direct	-4391 Dec 22 j 14:13	18°♓22'47		
evening set	-4390 Apr 07 j 04:35	26°♓47'39		
conjunction	-4390 Apr 25 j 08:06	29°♓10'02	-2°02'04	
minimum elong	-4390 Apr 25 j 08:10	29°♓10'04	2°02'05	
max. Earth dist.	-4390 Apr 26 j 01:40	29°♓15'49	9.94202 AU	
	-4390 May 01 j 16:04	0°♈		
morning rise	-4390 May 13 j 11:26	1°♈32'15		
retrograde	-4390 Aug 26 j 08:11	9°♈52'12		
opposition	-4390 Oct 31 j 16:29	6°♈23'02	-2°19'48	
min. Earth dist.	-4390 Oct 31 j 03:03	6°♈25'50	7.98566 AU	
direct	-4389 Jan 06 j 13:47	2°♈52'56		
evening set	-4389 Apr 22 j 13:51	11°♈13'06		
conjunction	-4389 May 10 j 17:41	13°♈33'54	-1°39'49	
minimum elong	-4389 May 10 j 17:45	13°♈33'56	1°39'46	
max. Earth dist.	-4389 May 11 j 11:31	13°♈39'42	10.03488 AU	
morning rise	-4389 May 28 j 19:52	15°♈54'05		
retrograde	-4389 Sep 09 j 09:19	24°♈01'41		
opposition	-4389 Nov 14 j 19:26	20°♈34'02	-1°48'02	
min. Earth dist.	-4389 Nov 14 j 05:39	20°♈36'52	8.09203 AU	
direct	-4388 Jan 21 j 08:37	17°♈04'06		
evening set	-4388 May 06 j 13:59	25°♈17'01		

Attention, astronomical year style is used: The year -4388 in astronomical counting style is the year 4389 BCE in historical counting style.

conjunction	-4388 May 24 j 16:48	27°♈35'29	-1°12'04
minimum elong	-4388 May 24 j 16:52	27°♈35'30	1°11'59
max. Earth dist.	-4388 May 25 j 10:12	27°♈41'03	10.15459 AU
morning rise	-4388 Jun 11 j 16:37	29°♈52'56	
	-4388 Jun 12 j 15:10	0°♉	
retrograde	-4388 Sep 22 j 00:03	7°♉47'06	
opposition	-4388 Nov 27 j 14:26	4°♉21'07	-1°10'53
min. Earth dist.	-4388 Nov 27 j 01:07	4°♉23'50	8.22150 AU
direct	-4387 Feb 03 j 20:13	0°♉51'43	
evening set	-4387 May 21 j 02:42	8°♉55'34	
conjunction	-4387 Jun 08 j 03:12	11°♉11'08	-0°40'59
minimum elong	-4387 Jun 08 j 03:14	11°♉11'09	0°40'51
max. Earth dist.	-4387 Jun 08 j 19:21	11°♉16'14	10.29321 AU
morning rise	-4387 Jun 25 j 23:32	13°♉25'23	
	-4387 Jul 09 j 00:40	15°♉	
retrograde	-4387 Oct 05 j 05:07	21°♉06'03	
opposition	-4387 Dec 11 j 00:49	17°♉41'52	-0°31'06
min. Earth dist.	-4387 Dec 10 j 13:12	17°♉44'12	8.36598 AU
	-4386 Jan 18 j 16:29	15°℞♉	
direct	-4386 Feb 17 j 22:30	14°♉13'14	
	-4386 Mar 20 j 04:57	15°♉	
evening set	-4386 Jun 04 j 03:21	22°♉07'10	
conjunction	-4386 Jun 22 j 00:14	24°♉19'28	-0°08'38
minimum elong	-4386 Jun 22 j 00:14	24°♉19'28	0°08'29
behind sun begin	-4386 Jun 21 j 17:55	24°♉17'32	
behind sun end	-4386 Jun 22 j 06:34	24°♉21'25	
max. Earth dist.	-4386 Jun 22 j 13:45	24°♉23'39	10.44237 AU
morning rise	-4386 Jul 09 j 16:12	26°♉30'15	
	-4386 Aug 09 j 10:30	0°♊	
asc. node	-4386 Sep 30 j 14:10	3°♊41'47	
retrograde	-4386 Oct 17 j 22:23	3°♊58'09	
opposition	-4386 Dec 24 j 02:37	0°♊35'46	0°08'53
min. Earth dist.	-4386 Dec 23 j 17:41	0°♊37'32	8.51723 AU
	-4386 Dec 31 j 16:15	30°℞♉	
direct	-4385 Mar 03 j 17:08	27°♉08'09	
	-4385 May 03 j 01:35	0°♊	
evening set	-4385 Jun 17 j 15:30	4°♊52'00	
conjunction	-4385 Jul 05 j 07:46	7°♊00'51	0°23'17
minimum elong	-4385 Jul 05 j 07:45	7°♊00'51	0°23'27
max. Earth dist.	-4385 Jul 05 j 17:32	7°♊03'50	10.59400 AU
morning rise	-4385 Jul 22 j 18:50	9°♊08'07	
retrograde	-4385 Oct 30 j 05:35	16°♊24'39	
opposition	-4384 Jan 05 j 20:36	13°♊03'59	0°47'00
min. Earth dist.	-4384 Jan 05 j 14:23	13°♊05'11	8.66758 AU
direct	-4384 Mar 16 j 02:57	9°♊37'33	
evening set	-4384 Jun 29 j 15:17	17°♊11'36	
conjunction	-4384 Jul 17 j 02:22	19°♊17'04	0°53'07
minimum elong	-4384 Jul 17 j 02:20	19°♊17'03	0°53'18
max. Earth dist.	-4384 Jul 17 j 08:01	19°♊18'45	10.74087 AU
morning rise	-4384 Aug 03 j 08:19	21°♊20'57	
retrograde	-4384 Nov 10 j 05:47	28°♊27'50	
opposition	-4383 Jan 17 j 07:19	25°♊08'41	1°21'45
min. Earth dist.	-4383 Jan 17 j 03:17	25°♊09'28	8.81008 AU
direct	-4383 Mar 29 j 02:50	21°♊43'34	
evening set	-4383 Jul 12 j 03:51	29°♊08'33	
	-4383 Jul 19 j 11:11	0°♋	
conjunction	-4383 Jul 29 j 09:45	1°♋10'52	1°19'50
minimum elong	-4383 Jul 29 j 09:42	1°♋10'51	1°20'01
max. Earth dist.	-4383 Jul 29 j 12:13	1°♋11'36	10.87662 AU
morning rise	-4383 Aug 15 j 10:29	3°♋11'39	
retrograde	-4383 Nov 21 j 23:07	10°♋10'43	
opposition	-4382 Jan 29 j 11:46	6°♋52'53	1°51'59
min. Earth dist.	-4382 Jan 29 j 10:06	6°♋53'12	8.93874 AU
direct	-4382 Apr 10 j 18:05	3°♋29'07	
evening set	-4382 Jul 24 j 06:29	10°♋46'04	
conjunction	-4382 Aug 10 j 07:18	12°♋45'34	1°42'36
minimum elong	-4382 Aug 10 j 07:15	12°♋45'33	1°42'48
max. Earth dist.	-4382 Aug 10 j 06:59	12°♋45'28	10.99584 AU
morning rise	-4382 Aug 27 j 03:04	14°♋43'39	
retrograde	-4382 Dec 03 j 13:11	21°♋36'47	
opposition	-4381 Feb 10 j 11:34	18°♋20'04	2°16'56
min. Earth dist.	-4381 Feb 10 j 13:04	18°♋19'47	9.04864 AU
direct	-4381 Apr 23 j 01:26	14°♋57'37	
evening set	-4381 Aug 05 j 00:29	22°♋07'39	
conjunction	-4381 Aug 21 j 20:28	24°♋04'47	2°00'52
minimum elong	-4381 Aug 21 j 20:25	24°♋04'46	2°01'04
max. Earth dist.	-4381 Aug 21 j 16:40	24°♋03'40	11.09419 AU
morning rise	-4381 Sep 07 j 11:59	26°♋00'39	
	-4381 Oct 16 j 01:27	0°♌	
retrograde	-4381 Dec 14 j 22:13	2°♌49'43	
	-4380 Feb 16 j 09:53	30°℞♋	
opposition	-4380 Feb 22 j 07:50	29°♋33'49	2°36'06
min. Earth dist.	-4380 Feb 22 j 12:43	29°♋32'54	9.13594 AU
direct	-4380 May 04 j 01:21	26°♋12'36	
	-4380 Jul 15 j 11:13	0°♌	
evening set	-4380 Aug 15 j 11:29	3°♌16'58	
conjunction	-4380 Sep 01 j 03:15	5°♌12'13	2°14'14
minimum elong	-4380 Sep 01 j 03:13	5°♌12'12	2°14'25
max. Earth dist.	-4380 Aug 31 j 19:38	5°♌10'00	11.16847 AU
morning rise	-4380 Sep 17 j 15:26	7°♌06'26	
retrograde	-4380 Dec 25 j 05:43	13°♌53'17	
opposition	-4379 Mar 05 j 01:30	10°♌37'50	2°49'10
min. Earth dist.	-4379 Mar 05 j 08:51	10°♌36'29	9.19771 AU
direct	-4379 May 15 j 22:42	7°♌17'41	
evening set	-4379 Aug 26 j 16:56	14°♌17'43	
	-4379 Sep 01 j 21:21	15°♌	
conjunction	-4379 Sep 12 j 05:30	16°♌11'38	2°22'28
minimum elong	-4379 Sep 12 j 05:29	16°♌11'38	2°22'38
max. Earth dist.	-4379 Sep 11 j 19:30	16°♌08'45	11.21622 AU
morning rise	-4379 Sep 28 j 15:07	18°♌04'46	
retrograde	-4378 Jan 05 j 14:13	24°♌51'08	
opposition	-4378 Mar 16 j 18:04	21°♌35'49	2°55'57
min. Earth dist.	-4378 Mar 17 j 03:01	21°♌34'11	9.23176 AU
direct	-4378 May 27 j 14:37	18°♌16'37	
evening set	-4378 Sep 06 j 18:36	25°♌13'33	
conjunction	-4378 Sep 23 j 04:53	27°♌06'44	2°25'28
minimum elong	-4378 Sep 23 j 04:53	27°♌06'44	2°25'35
max. Earth dist.	-4378 Sep 22 j 17:22	27°♌03'24	11.23578 AU
morning rise	-4378 Oct 09 j 12:49	28°♌59'21	
	-4378 Oct 18 j 14:22	0°♍	
retrograde	-4377 Jan 16 j 23:35	5°♍47'00	
opposition	-4377 Mar 28 j 10:54	2°♍31'29	2°56'23
min. Earth dist.	-4377 Mar 28 j 22:01	2°♍29'27	9.23701 AU
	-4377 May 06 j 23:44	30°℞♌	
direct	-4377 Jun 08 j 03:19	29°♌12'59	
	-4377 Jul 09 j 18:11	0°♍	
evening set	-4377 Sep 17 j 18:20	6°♍08'12	
conjunction	-4377 Oct 04 j 03:10	8°♍01'13	2°23'10
minimum elong	-4377 Oct 04 j 03:11	8°♍01'14	2°23'16
max. Earth dist.	-4377 Oct 03 j 13:05	7°♍57'09	11.22659 AU
morning rise	-4377 Oct 20 j 10:40	9°♍53'56	
retrograde	-4376 Jan 28 j 11:45	16°♍44'29	
opposition	-4376 Apr 08 j 05:03	13°♍28'27	2°50'28

Attention, astronomical year style is used: The year -4376 in astronomical counting style is the year 4377 BCE in historical counting style.

min. Earth dist.	-4376 Apr 08 j 18:26	13°♑26'01	9.21329 AU
direct	-4376 Jun 18 j 15:19	10°♑10'24	
evening set	-4376 Sep 27 j 17:36	17°♑05'17	
max. Earth dist.	-4376 Oct 13 j 09:49	18°♑54'01	11.18874 AU
conjunction	-4376 Oct 14 j 02:03	18°♑58'44	2°15'38
minimum elong	-4376 Oct 14 j 02:05	18°♑58'45	2°15'41
morning rise	-4376 Oct 30 j 10:16	20°♑52'10	
retrograde	-4375 Feb 08 j 02:34	27°♑47'17	
opposition	-4375 Apr 20 j 01:37	24°♑30'22	2°38'18
min. Earth dist.	-4375 Apr 20 j 16:21	24°♑27'41	9.16084 AU
direct	-4375 Jun 30 j 03:58	21°♑12'29	
evening set	-4375 Oct 08 j 18:21	28°♑08'33	
max. Earth dist.	-4375 Oct 24 j 10:54	29°♑58'08	11.12269 AU
	-4375 Oct 24 j 17:17	0°♎	
conjunction	-4375 Oct 25 j 03:33	0°♎03'01	2°02'59
minimum elong	-4375 Oct 25 j 03:36	0°♎03'02	2°02'59
morning rise	-4375 Nov 10 j 13:15	1°♎57'43	
retrograde	-4374 Feb 20 j 01:54	8°♎59'06	
opposition	-4374 May 02 j 01:46	5°♎41'01	2°20'02
min. Earth dist.	-4374 May 02 j 16:36	5°♎38'18	9.08057 AU
direct	-4374 Jul 11 j 18:58	2°♎23'05	
evening set	-4374 Oct 19 j 22:31	9°♎21'50	
conjunction	-4374 Nov 05 j 09:21	11°♎17'54	1°45'26
minimum elong	-4374 Nov 05 j 09:24	11°♎17'55	1°45'24
max. Earth dist.	-4374 Nov 04 j 16:19	11°♎12'51	11.02992 AU
morning rise	-4374 Nov 21 j 21:30	13°♎14'29	
retrograde	-4373 Mar 04 j 07:14	20°♎23'46	
opposition	-4373 May 14 j 07:02	17°♎04'17	1°55'57
min. Earth dist.	-4373 May 14 j 21:53	17°♎01'33	8.97487 AU
direct	-4373 Jul 23 j 10:03	13°♎46'03	
evening set	-4373 Oct 31 j 08:07	20°♎49'08	
conjunction	-4373 Nov 16 j 21:17	22°♎47'18	1°23'21
minimum elong	-4373 Nov 16 j 21:20	22°♎47'19	1°23'17
max. Earth dist.	-4373 Nov 16 j 03:34	22°♎42'00	10.91370 AU
morning rise	-4373 Dec 03 j 12:53	24°♎46'18	
	-4372 Jan 24 j 06:17	0°♏	
retrograde	-4372 Mar 15 j 20:31	2°♏05'03	
	-4372 May 08 j 08:58	30°℞♎	
opposition	-4372 May 25 j 18:26	28°♎43'57	1°26'31
min. Earth dist.	-4372 May 26 j 09:15	28°♎41'11	8.84794 AU
direct	-4372 Aug 03 j 07:44	25°♎25'07	
	-4372 Oct 19 j 09:23	0°♏	
evening set	-4372 Nov 11 j 01:11	2°♏34'07	
conjunction	-4372 Nov 27 j 17:24	4°♏34'53	0°57'16
minimum elong	-4372 Nov 27 j 17:26	4°♏34'53	0°57'09
max. Earth dist.	-4372 Nov 27 j 00:13	4°♏29'39	10.77877 AU
morning rise	-4372 Dec 14 j 13:02	6°♏36'44	
retrograde	-4371 Mar 28 j 19:30	14°♏06'15	
opposition	-4371 Jun 07 j 12:36	10°♏43'22	0°52'29
min. Earth dist.	-4371 Jun 08 j 02:29	10°♏40'44	8.70518 AU
direct	-4371 Aug 15 j 11:17	7°♏23'41	
evening set	-4371 Nov 23 j 03:26	14°♏40'06	
	-4371 Nov 25 j 21:12	15°♏	
conjunction	-4371 Dec 09 j 23:20	16°♏43'49	0°27'58
minimum elong	-4371 Dec 09 j 23:22	16°♏43'49	0°27'49
max. Earth dist.	-4371 Dec 09 j 08:35	16°♏39'16	10.63083 AU
morning rise	-4371 Dec 26 j 23:18	18°♏48'51	
retrograde	-4370 Apr 11 j 04:11	26°♏30'16	
opposition	-4370 Jun 20 j 14:37	23°♏05'28	0°14'52
min. Earth dist.	-4370 Jun 21 j 01:59	23°♏03'16	8.55285 AU
direct	-4370 Aug 27 j 22:04	19°♏44'43	
desc. node	-4370 Nov 10 j 22:17	24°♏16'58	
evening set	-4370 Dec 05 j 16:39	27°♏09'56	
conjunction	-4370 Dec 22 j 16:34	29°♏16'51	-0°03'36
minimum elong	-4370 Dec 22 j 16:34	29°♏16'51	0°03'46
behind sun begin	-4370 Dec 22 j 09:32	29°♏14'41	
behind sun end	-4370 Dec 22 j 23:35	29°♏19'02	
max. Earth dist.	-4370 Dec 22 j 05:00	29°♏13'15	10.47644 AU
	-4370 Dec 28 j 10:13	0°♐	
morning rise	-4369 Jan 08 j 21:01	1°♐25'18	
retrograde	-4369 Apr 25 j 00:15	9°♐19'16	
opposition	-4369 Jul 04 j 00:46	5°♐52'33	-0°24'51
min. Earth dist.	-4369 Jul 04 j 08:53	5°♐50'57	8.39800 AU
direct	-4369 Sep 09 j 17:10	2°♐30'34	
evening set	-4369 Dec 18 j 18:38	10°♐05'46	
conjunction	-4368 Jan 04 j 22:37	12°♐16'02	-0°35'49
minimum elong	-4368 Jan 04 j 22:35	12°♐16'01	0°36'00
max. Earth dist.	-4368 Jan 04 j 14:05	12°♐13'19	10.32297 AU
morning rise	-4368 Jan 22 j 07:38	14°♐27'58	
retrograde	-4368 May 08 j 07:02	22°♐34'27	
opposition	-4368 Jul 16 j 19:02	19°♐05'59	-1°04'44
min. Earth dist.	-4368 Jul 16 j 23:51	19°♐05'01	8.24833 AU
direct	-4368 Sep 21 j 20:05	15°♐42'38	
evening set	-4368 Dec 31 j 10:08	23°♐28'39	
conjunction	-4367 Jan 17 j 18:08	25°♐42'12	-1°07'07
minimum elong	-4367 Jan 17 j 18:05	25°♐42'11	1°07'19
max. Earth dist.	-4367 Jan 17 j 12:54	25°♐40'30	10.17843 AU
morning rise	-4367 Feb 04 j 07:32	27°♐57'31	
	-4367 Feb 20 j 21:29	0°♑	
retrograde	-4367 May 22 j 22:59	6°♑15'49	
opposition	-4367 Jul 30 j 21:20	2°♑45'49	-1°42'25
min. Earth dist.	-4367 Jul 30 j 23:05	2°♑45'27	8.11196 AU
	-4367 Sep 08 j 19:17	30°℞♐	
direct	-4367 Oct 05 j 09:10	29°♐21'02	
	-4367 Oct 31 j 17:01	0°♑	
evening set	-4366 Jan 14 j 15:10	7°♑18'05	
conjunction	-4366 Feb 01 j 03:08	9°♑34'42	-1°35'28
minimum elong	-4366 Feb 01 j 03:04	9°♑34'40	1°35'40
max. Earth dist.	-4366 Feb 01 j 02:10	9°♑34'23	10.05104 AU
morning rise	-4366 Feb 18 j 20:29	11°♑53'03	
retrograde	-4366 Jun 06 j 21:42	20°♑21'29	
opposition	-4366 Aug 14 j 06:38	16°♑50'18	-2°15'13
min. Earth dist.	-4366 Aug 14 j 05:05	16°♑50'36	7.99699 AU
direct	-4366 Oct 19 j 09:28	13°♑24'04	
evening set	-4365 Jan 29 j 09:19	21°♑31'37	
conjunction	-4365 Feb 16 j 01:08	23°♑50'54	-1°58'45
minimum elong	-4365 Feb 16 j 01:05	23°♑50'53	1°58'56
max. Earth dist.	-4365 Feb 16 j 04:56	23°♑52'10	9.94876 AU
morning rise	-4365 Mar 05 j 21:54	26°♑11'47	
	-4365 Apr 06 j 03:22	0°♒	
retrograde	-4365 Jun 22 j 00:54	4°♒47'36	
opposition	-4365 Aug 28 j 21:09	1°♒15'37	-2°40'23
min. Earth dist.	-4365 Aug 28 j 16:15	1°♒16'38	7.91074 AU
	-4365 Sep 13 j 10:18	30°℞♑	
direct	-4365 Nov 02 j 18:12	27°♑48'04	
	-4365 Dec 21 j 14:17	0°♒	
evening set	-4364 Feb 13 j 14:32	6°♒04'36	
conjunction	-4364 Mar 02 j 09:58	8°♒26'01	-2°14'57
minimum elong	-4364 Mar 02 j 09:56	8°♒26'00	2°15'07
max. Earth dist.	-4364 Mar 02 j 18:42	8°♒28'55	9.87845 AU
morning rise	-4364 Mar 20 j 09:28	10°♒48'43	
	-4364 Apr 23 j 20:27	15°♒	

Attention, astronomical year style is used: The year -4364 in astronomical counting style is the year 4365 BCE in historical counting style.

retrograde	-4364 Jul 06 j 06:59	19°♒28'15	
opposition	-4364 Sep 11 j 15:05	15°♒55'58	-2°55'35
min. Earth dist.	-4364 Sep 11 j 06:42	15°♒57'44	7.85906 AU
	-4364 Sep 22 j 21:58	15℞♒	
direct	-4364 Nov 16 j 09:52	12°♒27'17	
	-4363 Jan 08 j 05:07	15°♒	
evening set	-4363 Feb 28 j 03:33	20°♒50'22	
conjunction	-4363 Mar 18 j 02:12	23°♒13'10	-2°22'33
minimum elong	-4363 Mar 18 j 02:12	23°♒13'10	2°22'41
max. Earth dist.	-4363 Mar 18 j 15:37	23°♒17'39	9.84521 AU
morning rise	-4363 Apr 05 j 03:46	25°♒36'53	
	-4363 May 11 j 08:13	0°♓	
retrograde	-4363 Jul 21 j 12:09	4°♓15'55	
opposition	-4363 Sep 26 j 09:53	0°♓43'50	-2°59'16
min. Earth dist.	-4363 Sep 25 j 22:16	0°♓46'16	7.84572 AU
	-4363 Oct 05 j 04:05	30℞♒	
direct	-4363 Dec 01 j 06:35	27°♒14'15	
	-4362 Jan 25 j 15:46	0°♓	
evening set	-4362 Mar 15 j 20:44	5°♓40'47	
conjunction	-4362 Apr 02 j 22:04	8°♓04'08	-2°20'47
minimum elong	-4362 Apr 02 j 22:05	8°♓04'09	2°20'52
max. Earth dist.	-4362 Apr 03 j 15:06	8°♓09'49	9.85172 AU
morning rise	-4362 Apr 21 j 00:59	10°♓28'00	
retrograde	-4362 Aug 05 j 13:18	19°♓02'09	
opposition	-4362 Oct 11 j 02:51	15°♓30'48	-2°51'01
min. Earth dist.	-4362 Oct 10 j 13:07	15°♓33'41	7.87187 AU
direct	-4362 Dec 16 j 06:03	12°♓00'39	
evening set	-4361 Mar 31 j 13:46	20°♓27'11	
conjunction	-4361 Apr 18 j 17:00	22°♓50'13	-2°09'47
minimum elong	-4361 Apr 18 j 17:03	22°♓50'14	2°09'50
max. Earth dist.	-4361 Apr 19 j 12:16	22°♓56'36	9.89761 AU
morning rise	-4361 May 06 j 20:23	25°♓13'16	
	-4361 Jun 16 j 06:19	0°♈	
retrograde	-4361 Aug 20 j 07:04	3°♈38'45	
opposition	-4361 Oct 25 j 15:47	0°♈08'36	-2°31'41
min. Earth dist.	-4361 Oct 25 j 01:02	0°♈11'41	7.93570 AU
	-4361 Oct 27 j 08:51	30℞♓	
direct	-4361 Dec 31 j 06:06	26°♓38'16	
	-4360 Mar 02 j 20:00	0°♈	
evening set	-4360 Apr 15 j 02:30	5°♈01'27	
conjunction	-4360 May 03 j 06:28	7°♈23'13	-1°50'37
minimum elong	-4360 May 03 j 06:32	7°♈23'15	1°50'36
max. Earth dist.	-4360 May 04 j 02:35	7°♈29'49	9.97954 AU
morning rise	-4360 May 21 j 09:14	9°♈44'34	
retrograde	-4360 Sep 02 j 14:05	17°♈58'33	
opposition	-4360 Nov 07 j 22:33	14°♈30'00	-2°03'08
min. Earth dist.	-4360 Nov 07 j 07:55	14°♈33'02	8.03286 AU
direct	-4359 Jan 14 j 02:55	10°♈59'53	
evening set	-4359 Apr 30 j 07:27	19°♈16'49	
conjunction	-4359 May 18 j 10:55	21°♈36'33	-1°25'02
minimum elong	-4359 May 18 j 10:59	21°♈36'34	1°24'58
max. Earth dist.	-4359 May 19 j 06:18	21°♈42'48	10.09188 AU
morning rise	-4359 Jun 05 j 11:58	23°♈55'26	
	-4359 Jul 31 j 22:19	0°♉	
retrograde	-4359 Sep 16 j 10:24	1°♉56'14	
	-4359 Nov 02 j 20:34	30℞♈	
opposition	-4359 Nov 21 j 21:38	28°♈29'32	-1°27'57
min. Earth dist.	-4359 Nov 21 j 07:54	28°♈32'21	8.15691 AU
direct	-4358 Jan 28 j 18:04	24°♈59'58	
	-4358 Apr 18 j 13:33	0°♉	
evening set	-4358 May 15 j 02:07	3°♉08'32	

conjunction	-4358 Jun 02 j 03:45	5°♉25'33	-0°55'06
minimum elong	-4358 Jun 02 j 03:48	5°♉25'34	0°54'59
max. Earth dist.	-4358 Jun 02 j 21:03	5°♉31'03	10.22715 AU
morning rise	-4358 Jun 20 j 01:56	7°♉41'24	
	-4358 Sep 07 j 03:49	15°♉	
retrograde	-4358 Sep 29 j 19:54	15°♉28'29	
	-4358 Oct 22 j 14:50	15℞♉	
opposition	-4358 Dec 05 j 12:23	12°♉03'45	-0°48'56
min. Earth dist.	-4358 Dec 04 j 23:43	12°♉06'18	8.29989 AU
direct	-4357 Feb 12 j 01:49	8°♉35'02	
	-4357 May 16 j 07:58	15°♉	
evening set	-4357 May 29 j 08:58	16°♉33'54	
conjunction	-4357 Jun 16 j 07:29	18°♉47'44	-0°23'00
minimum elong	-4357 Jun 16 j 07:30	18°♉47'44	0°22'51
max. Earth dist.	-4357 Jun 16 j 22:19	18°♉52'22	10.37684 AU
morning rise	-4357 Jul 04 j 01:41	21°♉00'09	
retrograde	-4357 Oct 12 j 18:01	28°♉33'58	
opposition	-4357 Dec 18 j 18:28	25°♉11'10	-0°08'42
min. Earth dist.	-4357 Dec 18 j 07:13	25°♉13'24	8.45327 AU
direct	-4356 Feb 26 j 01:43	21°♉43'32	
asc. node	-4356 Mar 10 j 04:28	21°♉52'25	
evening set	-4356 Jun 11 j 03:11	29°♉32'08	
	-4356 Jun 14 j 23:17	0°♊	
conjunction	-4356 Jun 28 j 21:36	1°♊42'32	0°09'23
minimum elong	-4356 Jun 28 j 21:36	1°♊42'32	0°09'34
behind sun begin	-4356 Jun 28 j 15:39	1°♊40'43	
behind sun end	-4356 Jun 29 j 03:34	1°♊44'21	
max. Earth dist.	-4356 Jun 29 j 09:47	1°♊46'16	10.53237 AU
morning rise	-4356 Jul 16 j 11:01	3°♊51'23	
retrograde	-4356 Oct 24 j 06:37	11°♊13'01	
opposition	-4356 Dec 30 j 16:16	7°♊52'03	0°30'30
min. Earth dist.	-4356 Dec 30 j 07:10	7°♊53'49	8.60861 AU
direct	-4355 Mar 10 j 15:29	4°♊25'37	
evening set	-4355 Jun 24 j 08:48	12°♊04'02	
conjunction	-4355 Jul 11 j 22:26	14°♊10'58	0°40'16
minimum elong	-4355 Jul 11 j 22:24	14°♊10'57	0°40'28
max. Earth dist.	-4355 Jul 12 j 07:30	14°♊13'43	10.68536 AU
morning rise	-4355 Jul 29 j 06:36	16°♊16'17	
retrograde	-4355 Nov 05 j 11:33	23°♊27'19	
opposition	-4354 Jan 12 j 06:25	20°♊08'00	1°06'55
min. Earth dist.	-4354 Jan 12 j 00:52	20°♊09'04	8.75769 AU
direct	-4354 Mar 23 j 18:45	16°♊42'50	
evening set	-4354 Jul 07 j 02:50	24°♊11'42	
conjunction	-4354 Jul 24 j 11:07	26°♊15'21	1°08'30
minimum elong	-4354 Jul 24 j 11:04	26°♊15'20	1°08'42
max. Earth dist.	-4354 Jul 24 j 15:41	26°♊16'42	10.82794 AU
morning rise	-4354 Aug 10 j 14:01	28°♊17'25	
	-4354 Aug 25 j 14:18	0°♋	
retrograde	-4354 Nov 17 j 07:13	5°♋19'40	
opposition	-4353 Jan 24 j 13:53	2°♋01'48	1°39'15
min. Earth dist.	-4353 Jan 24 j 12:10	2°♋02'08	8.89323 AU
	-4353 Feb 22 j 06:36	30℞♊	
direct	-4353 Apr 05 j 13:43	28°♊37'54	
	-4353 May 17 j 09:14	0°♋	
evening set	-4353 Jul 19 j 10:14	5°♋58'18	
conjunction	-4353 Aug 05 j 13:08	7°♋58'57	1°33'06
minimum elong	-4353 Aug 05 j 13:05	7°♋58'56	1°33'18
max. Earth dist.	-4353 Aug 05 j 12:48	7°♋58'51	10.95394 AU
morning rise	-4353 Aug 22 j 11:07	9°♋58'09	
retrograde	-4353 Nov 28 j 22:03	16°♋53'42	
opposition	-4352 Feb 05 j 16:02	13°♋36'57	2°06'36
min. Earth dist.	-4352 Feb 05 j 17:19	13°♋36'43	9.00995 AU

Attention, astronomical year style is used: The year -4352 in astronomical counting style is the year 4353 BCE in historical counting style.

direct	-4352 Apr 17 j 02:30	10°♋14'18	
evening set	-4352 Jul 30 j 08:07	17°♋27'20	
conjunction	-4352 Aug 16 j 06:07	19°♋25'26	1°53'24
minimum elong	-4352 Aug 16 j 06:04	19°♋25'25	1°53'36
max. Earth dist.	-4352 Aug 16 j 02:10	19°♋24'16	11.05916 AU
morning rise	-4352 Sep 01 j 23:35	21°♋22'13	
retrograde	-4352 Dec 09 j 09:32	28°♋12'58	
opposition	-4351 Feb 16 j 13:53	24°♋57'01	2°28'22
min. Earth dist.	-4351 Feb 16 j 17:30	24°♋56'21	9.10418 AU
direct	-4351 Apr 29 j 06:37	21°♋35'31	
evening set	-4351 Aug 10 j 22:23	28°♋42'22	
	-4351 Aug 22 j 04:03	0°♌	
conjunction	-4351 Aug 27 j 16:06	0°♌38'24	2°08'57
minimum elong	-4351 Aug 27 j 16:03	0°♌38'23	2°09'08
max. Earth dist.	-4351 Aug 27 j 09:41	0°♌36'32	11.14050 AU
morning rise	-4351 Sep 13 j 05:36	2°♌33'18	
retrograde	-4351 Dec 20 j 18:46	9°♌21'03	
opposition	-4350 Feb 28 j 08:43	6°♌05'33	2°44'09
min. Earth dist.	-4350 Feb 28 j 15:23	6°♌04'20	9.17320 AU
direct	-4350 May 11 j 04:54	2°♌45'01	
evening set	-4350 Aug 22 j 06:30	9°♌46'59	
conjunction	-4350 Sep 07 j 20:30	11°♌41'28	2°19'28
minimum elong	-4350 Sep 07 j 20:28	11°♌41'28	2°19'38
max. Earth dist.	-4350 Sep 07 j 10:50	11°♌38'40	11.19571 AU
morning rise	-4350 Sep 24 j 07:02	13°♌35'03	
	-4350 Oct 07 j 01:28	15°♌	
retrograde	-4349 Jan 01 j 02:12	20°♌21'34	
opposition	-4349 Mar 12 j 02:03	17°♌06'11	2°53'44
min. Earth dist.	-4349 Mar 12 j 11:53	17°♌04'23	9.21514 AU
	-4349 Apr 12 j 05:30	15℞♌	
direct	-4349 May 22 j 22:07	13°♌46'26	
	-4349 Jul 01 j 19:40	15°♌	
evening set	-4349 Sep 02 j 09:50	20°♌44'46	
conjunction	-4349 Sep 18 j 20:57	22°♌38'16	2°24'47
minimum elong	-4349 Sep 18 j 20:56	22°♌38'16	2°24'54
max. Earth dist.	-4349 Sep 18 j 08:02	22°♌34'32	11.22335 AU
morning rise	-4349 Oct 05 j 05:39	24°♌31'07	
	-4349 Dec 03 j 01:41	0°♍	
retrograde	-4348 Jan 12 j 09:27	1°♍18'11	
	-4348 Feb 22 j 23:27	30℞♌	
opposition	-4348 Mar 22 j 18:48	28°♌02'32	2°56'59
min. Earth dist.	-4348 Mar 23 j 06:45	28°♌00'22	9.22883 AU
direct	-4348 Jun 02 j 13:46	24°♌43'23	
	-4348 Aug 28 j 09:15	0°♍	
evening set	-4348 Sep 12 j 10:13	1°♍39'27	
conjunction	-4348 Sep 28 j 19:38	3°♍32'34	2°24'48
minimum elong	-4348 Sep 28 j 19:38	3°♍32'34	2°24'54
max. Earth dist.	-4348 Sep 28 j 05:14	3°♍28'24	11.22269 AU
morning rise	-4348 Oct 15 j 03:22	5°♍25'16	
retrograde	-4347 Jan 22 j 21:08	12°♍14'34	
opposition	-4347 Apr 03 j 12:00	8°♍58'21	2°53'52
min. Earth dist.	-4347 Apr 04 j 00:57	8°♍55'59	9.21388 AU
direct	-4347 Jun 14 j 03:20	5°♍39'37	
evening set	-4347 Sep 23 j 09:26	12°♍34'48	
conjunction	-4347 Oct 09 j 18:10	14°♍28'08	2°19'34
minimum elong	-4347 Oct 09 j 18:11	14°♍28'08	2°19'38
max. Earth dist.	-4347 Oct 09 j 02:51	14°♍23'41	11.19374 AU
morning rise	-4347 Oct 26 j 01:54	16°♍21'17	
retrograde	-4346 Feb 03 j 10:57	23°♍14'30	
opposition	-4346 Apr 15 j 07:21	19°♍57'27	2°44'26
min. Earth dist.	-4346 Apr 15 j 21:21	19°♍54'54	9.17078 AU

direct	-4346 Jun 25 j 14:13	16°♍38'57	
evening set	-4346 Oct 04 j 09:17	23°♍34'42	
conjunction	-4346 Oct 20 j 18:08	25°♍28'49	2°09'08
minimum elong	-4346 Oct 20 j 18:11	25°♍28'49	2°09'10
max. Earth dist.	-4346 Oct 20 j 01:15	25°♍23'52	11.13748 AU
morning rise	-4346 Nov 06 j 03:05	27°♍23'01	
	-4346 Nov 30 j 03:13	0°♎	
retrograde	-4345 Feb 15 j 06:28	4°♎21'50	
opposition	-4345 Apr 27 j 06:03	1°♎03'43	2°28'48
min. Earth dist.	-4345 Apr 27 j 21:21	1°♎00'55	9.10099 AU
	-4345 May 11 j 23:25	30℞♍	
direct	-4345 Jul 07 j 03:27	27°♍45'14	
	-4345 Aug 29 j 17:06	0°♎	
evening set	-4345 Oct 15 j 11:46	4°♎43'04	
conjunction	-4345 Oct 31 j 21:44	6°♎38'31	1°53'41
minimum elong	-4345 Oct 31 j 21:47	6°♎38'31	1°53'41
max. Earth dist.	-4345 Oct 31 j 03:57	6°♎33'15	11.05575 AU
morning rise	-4345 Nov 17 j 08:56	8°♎34'23	
retrograde	-4344 Feb 27 j 07:04	15°♎40'23	
opposition	-4344 May 08 j 08:57	12°♎20'58	2°07'12
min. Earth dist.	-4344 May 09 j 00:27	12°♎18'06	9.00678 AU
direct	-4344 Jul 17 j 18:10	9°♎02'17	
evening set	-4344 Oct 25 j 18:38	16°♎03'45	
conjunction	-4344 Nov 11 j 06:47	18°♎01'05	1°33'32
minimum elong	-4344 Nov 11 j 06:50	18°♎01'06	1°33'29
max. Earth dist.	-4344 Nov 10 j 13:49	17°♎56'01	10.95105 AU
morning rise	-4344 Nov 27 j 20:54	19°♎59'06	
retrograde	-4343 Mar 10 j 17:18	27°♎13'54	
opposition	-4343 May 20 j 17:23	23°♎52'59	1°40'02
min. Earth dist.	-4343 May 21 j 07:45	23°♎50'18	8.89116 AU
direct	-4343 Jul 29 j 14:48	20°♎33'57	
evening set	-4343 Nov 06 j 08:02	27°♎40'33	
conjunction	-4343 Nov 22 j 23:00	29°♎40'16	1°09'07
minimum elong	-4343 Nov 22 j 23:03	29°♎40'17	1°09'01
max. Earth dist.	-4343 Nov 22 j 07:24	29°♎35'33	10.82682 AU
	-4343 Nov 25 j 16:16	0°♏	
morning rise	-4343 Dec 09 j 16:42	1°♏40'55	
retrograde	-4342 Mar 23 j 13:22	9°♏05'54	
opposition	-4342 Jun 02 j 08:29	5°♏43'23	1°07'52
min. Earth dist.	-4342 Jun 02 j 21:06	5°♏41'01	8.75831 AU
direct	-4342 Aug 10 j 14:11	2°♏23'48	
evening set	-4342 Nov 18 j 06:02	9°♏37'05	
max. Earth dist.	-4342 Dec 04 j 09:35	11°♏35'03	10.68787 AU
conjunction	-4342 Dec 05 j 00:17	11°♏39'33	0°41'05
minimum elong	-4342 Dec 05 j 00:18	11°♏39'33	0°40'57
morning rise	-4342 Dec 21 j 22:14	13°♏43'15	
	-4341 Jan 01 j 18:27	15°♏	
retrograde	-4341 Apr 05 j 18:09	21°♏19'37	
opposition	-4341 Jun 15 j 07:07	17°♏55'25	0°31'37
min. Earth dist.	-4341 Jun 15 j 18:14	17°♏53'18	8.61367 AU
	-4341 Jul 31 j 20:52	15℞♏	
direct	-4341 Aug 22 j 20:06	14°♏35'02	
	-4341 Sep 13 j 14:32	15°♏	
evening set	-4341 Nov 30 j 14:23	21°♏56'30	
conjunction	-4341 Dec 17 j 12:23	24°♏02'03	0°10'24
minimum elong	-4341 Dec 17 j 12:23	24°♏02'03	0°10'15
behind sun begin	-4341 Dec 17 j 06:44	24°♏00'19	
behind sun end	-4341 Dec 17 j 18:02	24°♏03'48	
max. Earth dist.	-4341 Dec 16 j 23:30	23°♏58'03	10.53998 AU
morning rise	-4340 Jan 03 j 14:58	26°♏09'04	
	-4340 Feb 06 j 15:57	0°♐	

Attention, astronomical year style is used: The year -4340 in astronomical counting style is the year 4341 BCE in historical counting style.

retrograde	-4340 Apr 18 j 08:56	3°♐57'40	
desc. node	-4340 Apr 18 j 06:43	3°♐57'40	
opposition	-4340 Jun 27 j 13:51	0°♐31'48	-0°07'25
min. Earth dist.	-4340 Jun 27 j 23:00	0°♐30'01	8.46357 AU
	-4340 Jul 04 j 10:15	30°℞♏	
direct	-4340 Sep 03 j 12:03	27°♏10'26	
	-4340 Oct 31 j 02:09	0°♐	
evening set	-4340 Dec 12 j 10:46	4°♐41'22	
conjunction	-4340 Dec 29 j 12:49	6°♐50'10	-0°21'47
minimum elong	-4340 Dec 29 j 12:48	6°♐50'10	0°21'58
max. Earth dist.	-4340 Dec 29 j 03:13	6°♐47'09	10.38979 AU
morning rise	-4339 Jan 15 j 19:55	9°♐00'37	
retrograde	-4339 May 02 j 10:55	17°♐01'46	
opposition	-4339 Jul 11 j 04:47	13°♐34'18	-0°47'30
min. Earth dist.	-4339 Jul 11 j 11:03	13°♐33'04	8.31529 AU
direct	-4339 Sep 16 j 11:58	10°♐11'49	
evening set	-4339 Dec 25 j 20:23	17°♐53'10	
conjunction	-4338 Jan 12 j 02:36	20°♐05'15	-0°53'44
minimum elong	-4338 Jan 12 j 02:34	20°♐05'14	0°53'56
max. Earth dist.	-4338 Jan 11 j 21:31	20°♐03'37	10.24499 AU
morning rise	-4338 Jan 29 j 14:01	22°♐19'05	
	-4338 Apr 21 j 23:08	0°♑	
retrograde	-4338 May 16 j 22:50	0°♑32'24	
	-4338 Jun 11 j 01:52	30°℞♐	
opposition	-4338 Jul 25 j 03:57	27°♐03'27	-1°26'27
min. Earth dist.	-4338 Jul 25 j 06:17	27°♐02'59	8.17679 AU
direct	-4338 Sep 29 j 21:29	23°♐39'45	
	-4338 Dec 27 j 13:23	0°♑	
evening set	-4337 Jan 08 j 19:45	1°♑31'56	
conjunction	-4337 Jan 26 j 06:03	3°♑47'10	-1°23'38
minimum elong	-4337 Jan 26 j 06:00	3°♑47'09	1°23'50
max. Earth dist.	-4337 Jan 26 j 05:29	3°♑46'59	10.11366 AU
morning rise	-4337 Feb 12 j 21:30	6°♑04'08	
retrograde	-4337 May 31 j 19:12	14°♑28'17	
opposition	-4337 Aug 08 j 10:28	10°♑58'05	-2°01'40
min. Earth dist.	-4337 Aug 08 j 08:52	10°♑58'25	8.05593 AU
direct	-4337 Oct 13 j 16:53	7°♑33'06	
evening set	-4336 Jan 23 j 08:40	15°♑35'52	
conjunction	-4336 Feb 09 j 22:48	17°♑53'54	-1°49'20
minimum elong	-4336 Feb 09 j 22:44	17°♑53'53	1°49'32
max. Earth dist.	-4336 Feb 10 j 02:27	17°♑55'07	10.00357 AU
morning rise	-4336 Feb 27 j 17:50	20°♑13'34	
retrograde	-4336 Jun 14 j 21:32	28°♑46'08	
opposition	-4336 Aug 21 j 22:52	25°♑15'03	-2°30'24
min. Earth dist.	-4336 Aug 21 j 17:56	25°♑16'04	7.95990 AU
direct	-4336 Oct 26 j 20:52	21°♑48'44	
evening set	-4335 Feb 06 j 09:20	0°♒00'59	
	-4335 Feb 06 j 06:19	0°♒	
conjunction	-4335 Feb 24 j 03:02	2°♒21'19	-2°08'48
minimum elong	-4335 Feb 24 j 02:59	2°♒21'18	2°08'58
max. Earth dist.	-4335 Feb 24 j 10:30	2°♒23'48	9.92141 AU
morning rise	-4335 Mar 14 j 01:08	4°♒43'05	
retrograde	-4335 Jun 30 j 03:38	13°♒20'50	
opposition	-4335 Sep 05 j 15:32	9°♒49'15	-2°50'07
min. Earth dist.	-4335 Sep 05 j 07:59	9°♒50'49	7.89424 AU
direct	-4335 Nov 10 j 09:10	6°♒21'39	
evening set	-4334 Feb 21 j 19:03	14°♒41'29	
	-4334 Feb 24 j 03:37	15°♒	
conjunction	-4334 Mar 11 j 16:05	17°♒03'31	-2°20'15
minimum elong	-4334 Mar 11 j 16:04	17°♒03'31	2°20'23
max. Earth dist.	-4334 Mar 12 j 02:45	17°♒07'05	9.87192 AU
morning rise	-4334 Mar 29 j 16:43	19°♒26'41	
retrograde	-4334 Jul 15 j 09:49	28°♒05'49	
opposition	-4334 Sep 20 j 10:08	24°♒34'13	-2°58'53
min. Earth dist.	-4334 Sep 20 j 00:41	24°♒36'11	7.86275 AU
direct	-4334 Nov 25 j 04:19	21°♒05'34	
evening set	-4333 Mar 09 j 10:51	29°♒30'25	
	-4333 Mar 13 j 05:07	0°♓	
conjunction	-4333 Mar 27 j 10:50	1°♓53'26	-2°22'34
minimum elong	-4333 Mar 27 j 10:51	1°♓53'26	2°22'40
max. Earth dist.	-4333 Mar 28 j 00:23	1°♓57'57	9.85857 AU
morning rise	-4333 Apr 14 j 13:17	4°♓17'10	
retrograde	-4333 Jul 30 j 12:40	12°♓53'30	
opposition	-4333 Oct 05 j 04:09	9°♓22'22	-2°55'47
min. Earth dist.	-4333 Oct 04 j 16:54	9°♓24'43	7.86840 AU
direct	-4333 Dec 10 j 03:54	5°♓52'55	
evening set	-4332 Mar 24 j 04:30	14°♓19'33	
conjunction	-4332 Apr 11 j 06:47	16°♓42'41	-2°15'29
minimum elong	-4332 Apr 11 j 06:50	16°♓42'42	2°15'33
max. Earth dist.	-4332 Apr 11 j 22:55	16°♓48'02	9.88358 AU
morning rise	-4332 Apr 29 j 10:11	19°♓06'06	
retrograde	-4332 Aug 13 j 08:56	27°♓35'33	
opposition	-4332 Oct 18 j 19:17	24°♓05'18	-2°41'07
min. Earth dist.	-4332 Oct 18 j 06:20	24°♓08'01	7.91198 AU
direct	-4332 Dec 24 j 05:04	20°♓35'24	
evening set	-4331 Apr 08 j 19:30	29°♓00'15	
	-4331 Apr 16 j 11:36	0°♈	
conjunction	-4331 Apr 26 j 23:12	1°♈22'36	-1°59'42
minimum elong	-4331 Apr 26 j 23:16	1°♈22'38	1°59'42
max. Earth dist.	-4331 Apr 27 j 17:09	1°♈28'31	9.94599 AU
morning rise	-4331 May 15 j 02:30	3°♈44'45	
retrograde	-4331 Aug 27 j 19:59	12°♈04'02	
opposition	-4331 Nov 02 j 05:06	8°♈35'01	-2°16'19
min. Earth dist.	-4331 Nov 01 j 15:03	8°♈37'56	7.99090 AU
direct	-4330 Jan 08 j 03:35	5°♈04'59	
evening set	-4330 Apr 24 j 04:24	13°♈24'53	
conjunction	-4330 May 12 j 08:22	15°♈45'36	-1°36'40
minimum elong	-4330 May 12 j 08:26	15°♈45'37	1°36'38
max. Earth dist.	-4330 May 13 j 02:58	15°♈51'39	10.04153 AU
morning rise	-4330 May 30 j 10:23	18°♈05'39	
retrograde	-4330 Sep 10 j 21:44	26°♈12'26	
opposition	-4330 Nov 16 j 07:43	22°♈44'57	-1°43'43
min. Earth dist.	-4330 Nov 15 j 17:30	22°♈47'53	8.09976 AU
direct	-4329 Jan 22 j 21:08	19°♈15'07	
evening set	-4329 May 09 j 04:04	27°♈27'35	
conjunction	-4329 May 27 j 06:52	29°♈45'55	-1°08'23
minimum elong	-4329 May 27 j 06:56	29°♈45'56	1°08'17
max. Earth dist.	-4329 May 28 j 00:58	29°♈51'43	10.16351 AU
	-4329 May 29 j 02:51	0°♉	
morning rise	-4329 Jun 14 j 06:24	2°♉03'10	
retrograde	-4329 Sep 24 j 12:56	9°♉56'25	
opposition	-4329 Nov 30 j 02:20	6°♉30'39	-1°06'04
min. Earth dist.	-4329 Nov 29 j 13:13	6°♉33'19	8.23130 AU
direct	-4328 Feb 06 j 08:04	3°♉01'22	
evening set	-4328 May 22 j 16:12	11°♉04'39	
conjunction	-4328 Jun 09 j 16:25	13°♉20'01	-0°36'59
minimum elong	-4328 Jun 09 j 16:27	13°♉20'01	0°36'51
max. Earth dist.	-4328 Jun 10 j 08:39	13°♉25'08	10.30394 AU
	-4328 Jun 22 j 22:39	15°♉	
morning rise	-4328 Jun 27 j 12:23	15°♉34'01	
retrograde	-4328 Oct 06 j 16:17	23°♉13'45	
opposition	-4328 Dec 12 j 12:19	19°♉49'47	-0°26'05

Attention, astronomical year style is used: The year -4328 in astronomical counting style is the year 4329 BCE in historical counting style.

min. Earth dist.	-4328 Dec 12 j 01:15	19°♉52'01	8.37743 AU
direct	-4327 Feb 19 j 11:24	16°♉21'18	
evening set	-4327 Jun 05 j 15:58	24°♉14'35	
conjunction	-4327 Jun 23 j 12:23	26°♉26'36	-0°04'36
minimum elong	-4327 Jun 23 j 12:23	26°♉26'36	0°04'27
behind sun begin	-4327 Jun 23 j 05:17	26°♉24'25	
behind sun end	-4327 Jun 23 j 19:30	26°♉28'47	
max. Earth dist.	-4327 Jun 24 j 01:20	26°♉30'36	10.45446 AU
morning rise	-4327 Jul 11 j 04:01	28°♉37'07	
	-4327 Jul 22 j 18:26	0°♊	
asc. node	-4327 Aug 15 j 18:21	2°♊35'44	
retrograde	-4327 Oct 19 j 07:54	6°♊04'07	
opposition	-4327 Dec 25 j 13:31	2°♊41'58	0°13'48
min. Earth dist.	-4327 Dec 25 j 04:52	2°♊43'41	8.52987 AU
	-4326 Feb 02 j 23:34	30℞♉	
direct	-4326 Mar 05 j 05:55	29°♉14'29	
	-4326 Apr 04 j 10:09	0°♊	
evening set	-4326 Jun 19 j 03:07	6°♊57'36	
conjunction	-4326 Jul 06 j 18:53	9°♊06'09	0°27'10
minimum elong	-4326 Jul 06 j 18:52	9°♊06'09	0°27'21
max. Earth dist.	-4326 Jul 07 j 04:00	9°♊08'56	10.60697 AU
morning rise	-4326 Jul 24 j 05:36	11°♊13'08	
retrograde	-4326 Oct 31 j 15:09	18°♊28'50	
opposition	-4325 Jan 07 j 06:49	15°♊08'20	0°51'37
min. Earth dist.	-4325 Jan 07 j 00:14	15°♊09'37	8.68078 AU
direct	-4325 Mar 18 j 14:24	11°♊42'04	
evening set	-4325 Jul 02 j 01:57	19°♊15'20	
conjunction	-4325 Jul 19 j 12:36	21°♊20'30	0°56'41
minimum elong	-4325 Jul 19 j 12:34	21°♊20'29	0°56'52
max. Earth dist.	-4325 Jul 19 j 18:24	21°♊22'15	10.75409 AU
morning rise	-4325 Aug 05 j 18:01	23°♊24'05	
	-4325 Oct 19 j 15:09	0°♋	
retrograde	-4325 Nov 12 j 14:12	0°♋30'12	
	-4325 Dec 06 j 20:31	30℞♊	
opposition	-4324 Jan 19 j 16:57	27°♊11'12	1°25'50
min. Earth dist.	-4324 Jan 19 j 12:29	27°♊12'03	8.82322 AU
direct	-4324 Mar 30 j 13:41	23°♊46'14	
	-4324 Jul 03 j 07:22	0°♋	
evening set	-4324 Jul 13 j 13:32	1°♋10'25	
conjunction	-4324 Jul 30 j 18:59	3°♋12'25	1°22'56
minimum elong	-4324 Jul 30 j 18:56	3°♋12'25	1°23'08
max. Earth dist.	-4324 Jul 30 j 22:07	3°♋13'21	10.88953 AU
morning rise	-4324 Aug 16 j 19:07	5°♋12'55	
retrograde	-4324 Nov 23 j 08:32	12°♋11'17	
opposition	-4323 Jan 30 j 20:59	8°♋53'36	1°55'25
min. Earth dist.	-4323 Jan 30 j 19:35	8°♋53'52	8.95142 AU
direct	-4323 Apr 12 j 03:59	5°♋29'57	
evening set	-4323 Jul 25 j 15:10	12°♋46'05	
conjunction	-4323 Aug 11 j 15:28	14°♋45'18	1°45'09
minimum elong	-4323 Aug 11 j 15:25	14°♋45'17	1°45'21
max. Earth dist.	-4323 Aug 11 j 15:02	14°♋45'10	11.00805 AU
morning rise	-4323 Aug 28 j 10:48	16°♋43'07	
retrograde	-4323 Dec 04 j 20:05	23°♋35'37	
opposition	-4322 Feb 11 j 20:13	20°♋18'59	2°19'38
min. Earth dist.	-4322 Feb 11 j 22:22	20°♋18'35	9.06048 AU
direct	-4322 Apr 24 j 09:32	16°♋56'38	
evening set	-4322 Aug 06 j 08:19	24°♋05'54	
conjunction	-4322 Aug 23 j 03:46	26°♋02'45	2°02'47
minimum elong	-4322 Aug 23 j 03:44	26°♋02'45	2°02'58
max. Earth dist.	-4322 Aug 22 j 23:08	26°♋01'24	11.10537 AU
morning rise	-4322 Sep 08 j 19:01	27°♋58'25	
	-4322 Sep 27 j 04:25	0°♌	
retrograde	-4322 Dec 16 j 04:12	4°♌46'57	
opposition	-4321 Feb 23 j 15:49	1°♌31'05	2°38'00
min. Earth dist.	-4321 Feb 23 j 20:39	1°♌30'11	9.14655 AU
	-4321 Mar 16 j 23:31	30℞♋	
direct	-4321 May 06 j 11:11	28°♋09'56	
	-4321 Jun 24 j 14:04	0°♌	
evening set	-4321 Aug 17 j 18:25	5°♌13'35	
conjunction	-4321 Sep 03 j 09:52	7°♌08'37	2°15'29
minimum elong	-4321 Sep 03 j 09:50	7°♌08'36	2°15'39
max. Earth dist.	-4321 Sep 03 j 02:23	7°♌06'26	11.17829 AU
morning rise	-4321 Sep 19 j 21:44	9°♌02'38	
	-4321 Nov 25 j 22:37	15°♌	
retrograde	-4321 Dec 27 j 12:55	15°♌49'03	
	-4320 Jan 28 j 18:00	15℞♌	
opposition	-4320 Mar 06 j 09:04	12°♌33'36	2°50'15
min. Earth dist.	-4320 Mar 06 j 15:48	12°♌32'22	9.20674 AU
direct	-4320 May 17 j 06:45	9°♌13'34	
	-4320 Aug 17 j 00:32	15°♌	
evening set	-4320 Aug 27 j 23:01	16°♌12'51	
conjunction	-4320 Sep 13 j 11:25	18°♌06'37	2°23'03
minimum elong	-4320 Sep 13 j 11:24	18°♌06'37	2°23'11
max. Earth dist.	-4320 Sep 13 j 02:04	18°♌03'55	11.22439 AU
morning rise	-4320 Sep 29 j 20:44	19°♌59'35	
retrograde	-4319 Jan 06 j 20:21	26°♌45'38	
opposition	-4319 Mar 18 j 01:16	23°♌30'19	2°56'13
min. Earth dist.	-4319 Mar 18 j 10:15	23°♌28'40	9.23905 AU
direct	-4319 May 28 j 21:23	20°♌11'11	
evening set	-4319 Sep 08 j 00:10	27°♌07'29	
conjunction	-4319 Sep 24 j 10:15	29°♌00'33	2°25'22
minimum elong	-4319 Sep 24 j 10:15	29°♌00'33	2°25'28
max. Earth dist.	-4319 Sep 23 j 22:19	28°♌57'06	11.24217 AU
	-4319 Oct 03 j 00:16	0°♍	
morning rise	-4319 Oct 10 j 18:08	0°♍53'03	
retrograde	-4318 Jan 18 j 05:49	7°♍40'26	
opposition	-4318 Mar 29 j 17:41	4°♍24'55	2°55'50
min. Earth dist.	-4318 Mar 30 j 05:28	4°♍22'46	9.24250 AU
direct	-4318 Jun 09 j 10:08	1°♍06'28	
evening set	-4318 Sep 18 j 23:24	8°♍01'10	
conjunction	-4318 Oct 05 j 08:06	9°♍54'06	2°22'24
minimum elong	-4318 Oct 05 j 08:08	9°♍54'06	2°22'29
max. Earth dist.	-4318 Oct 04 j 17:28	9°♍49'51	11.23120 AU
morning rise	-4318 Oct 21 j 15:44	11°♍46'46	
retrograde	-4317 Jan 29 j 16:00	18°♍37'11	
opposition	-4317 Apr 10 j 11:36	15°♍21'06	2°49'09
min. Earth dist.	-4317 Apr 11 j 01:02	15°♍18'39	9.21696 AU
direct	-4317 Jun 20 j 21:23	12°♍03'06	
evening set	-4317 Sep 29 j 22:14	18°♍57'34	
conjunction	-4317 Oct 16 j 06:47	20°♍50'59	2°14'15
minimum elong	-4317 Oct 16 j 06:49	20°♍50'59	2°14'17
max. Earth dist.	-4317 Oct 15 j 15:11	20°♍46'26	11.19162 AU
morning rise	-4317 Nov 01 j 15:03	22°♍44'23	
retrograde	-4316 Feb 10 j 09:24	29°♍39'31	
opposition	-4316 Apr 21 j 08:00	26°♍22'32	2°36'14
min. Earth dist.	-4316 Apr 21 j 21:58	26°♍19'59	9.16287 AU
direct	-4316 Jul 01 j 11:08	23°♍04'44	
evening set	-4316 Oct 09 j 22:51	0°♎00'25	
	-4316 Oct 09 j 21:23	0°♎	
conjunction	-4316 Oct 26 j 08:14	1°♎54'54	2°01'01
minimum elong	-4316 Oct 26 j 08:17	1°♎54'55	2°01'01
max. Earth dist.	-4316 Oct 25 j 16:09	1°♎50'11	11.12411 AU

Attention, astronomical year style is used: The year -4316 in astronomical counting style is the year 4317 BCE in historical counting style.

morning rise	-4316 Nov 11 j 18:04	3°♎49'38	
retrograde	-4315 Feb 21 j 07:52	10°♎51'02	
opposition	-4315 May 03 j 08:02	7°♎32'54	2°17'18
min. Earth dist.	-4315 May 03 j 22:33	7°♎30'14	9.08134 AU
direct	-4315 Jul 12 j 23:30	4°♎15'02	
evening set	-4315 Oct 21 j 03:05	11°♎13'31	
conjunction	-4315 Nov 06 j 14:00	13°♎09'36	1°42'58
minimum elong	-4315 Nov 06 j 14:03	13°♎09'37	1°42'55
max. Earth dist.	-4315 Nov 05 j 20:30	13°♎04'26	11.03023 AU
morning rise	-4315 Nov 23 j 02:28	15°♎06'14	
retrograde	-4314 Mar 05 j 12:55	22°♎15'37	
opposition	-4314 May 15 j 13:18	18°♎56'05	1°52'38
min. Earth dist.	-4314 May 16 j 04:38	18°♎53'15	8.97451 AU
direct	-4314 Jul 24 j 15:53	15°♎37'52	
evening set	-4314 Nov 01 j 12:41	22°♎40'48	
max. Earth dist.	-4314 Nov 17 j 07:58	24°♎33'38	10.91280 AU
conjunction	-4314 Nov 18 j 02:00	24°♎39'02	1°20'27
minimum elong	-4314 Nov 18 j 02:02	24°♎39'03	1°20'22
morning rise	-4314 Dec 04 j 17:56	26°♎38'06	
	-4313 Jan 04 j 10:34	0°♏	
retrograde	-4313 Mar 18 j 02:29	3°♏57'04	
opposition	-4313 May 28 j 00:44	0°♏35'56	1°22'45
min. Earth dist.	-4313 May 28 j 15:57	0°♏33'05	8.84625 AU
	-4313 Jun 05 j 01:40	30°℞♎	
direct	-4313 Aug 05 j 13:24	27°♎17'07	
	-4313 Oct 02 j 11:38	0°♏	
evening set	-4313 Nov 13 j 05:55	4°♏26'06	
conjunction	-4313 Nov 29 j 22:27	6°♏26'57	0°54'02
minimum elong	-4313 Nov 29 j 22:29	6°♏26'58	0°53'56
max. Earth dist.	-4313 Nov 29 j 05:53	6°♏21'55	10.77640 AU
morning rise	-4313 Dec 16 j 18:20	8°♏28'54	
	-4312 Feb 24 j 07:36	15°♏	
retrograde	-4312 Mar 30 j 01:22	15°♏58'48	
	-4312 May 04 j 10:07	15°℞♏	
opposition	-4312 Jun 08 j 18:59	12°♏35'52	0°48'21
min. Earth dist.	-4312 Jun 09 j 08:32	12°♏33'18	8.70202 AU
direct	-4312 Aug 16 j 17:11	9°♏16'13	
	-4312 Nov 11 j 05:53	15°♏	
evening set	-4312 Nov 24 j 08:36	16°♏32'48	
conjunction	-4312 Dec 11 j 04:52	18°♏36'39	0°24'31
minimum elong	-4312 Dec 11 j 04:53	18°♏36'39	0°24'23
max. Earth dist.	-4312 Dec 10 j 14:30	18°♏32'13	10.62690 AU
morning rise	-4312 Dec 28 j 05:02	20°♏41'49	
retrograde	-4311 Apr 12 j 11:55	28°♏23'44	
opposition	-4311 Jun 21 j 21:09	24°♏58'53	0°10'33
min. Earth dist.	-4311 Jun 22 j 08:04	24°♏56'47	8.54820 AU
direct	-4311 Aug 29 j 04:06	21°♏38'11	
desc. node	-4311 Oct 01 j 12:55	22°♏37'04	
evening set	-4311 Dec 06 j 22:30	29°♏03'44	
	-4311 Dec 14 j 12:20	0°♐	
conjunction	-4311 Dec 23 j 22:36	1°♐10'49	-0°07'06
minimum elong	-4311 Dec 23 j 22:36	1°♐10'49	0°07'16
behind sun begin	-4311 Dec 23 j 16:04	1°♐08'47	
behind sun end	-4311 Dec 24 j 05:08	1°♐12'50	
max. Earth dist.	-4311 Dec 23 j 10:33	1°♐07'03	10.47111 AU
morning rise	-4310 Jan 10 j 03:21	3°♐19'26	
retrograde	-4310 Apr 26 j 09:16	11°♐13'58	
opposition	-4310 Jul 05 j 07:42	7°♐47'16	-0°29'10
min. Earth dist.	-4310 Jul 05 j 15:50	7°♐45'40	8.39211 AU
direct	-4310 Sep 10 j 21:41	4°♐25'18	
evening set	-4310 Dec 20 j 01:11	12°♐01'01	

conjunction	-4309 Jan 06 j 05:18	14°♐11'26	-0°39'13
minimum elong	-4309 Jan 06 j 05:16	14°♐11'25	0°39'24
max. Earth dist.	-4309 Jan 05 j 19:54	14°♐08'26	10.31666 AU
morning rise	-4309 Jan 23 j 14:41	16°♐23'34	
retrograde	-4309 May 10 j 15:24	24°♐30'43	
opposition	-4309 Jul 19 j 02:28	21°♐02'16	-1°08'50
min. Earth dist.	-4309 Jul 19 j 07:54	21°♐01'11	8.24170 AU
direct	-4309 Sep 24 j 02:23	17°♐38'53	
evening set	-4308 Jan 02 j 17:31	25°♐25'35	
conjunction	-4308 Jan 20 j 01:45	27°♐39'19	-1°10'15
minimum elong	-4308 Jan 20 j 01:42	27°♐39'18	1°10'26
max. Earth dist.	-4308 Jan 19 j 20:09	27°♐37'30	10.17163 AU
morning rise	-4308 Feb 06 j 15:28	29°♐54'48	
	-4308 Feb 07 j 07:54	0°♑	
retrograde	-4308 May 24 j 06:43	8°♑13'48	
opposition	-4308 Aug 01 j 05:12	4°♑43'48	-1°46'03
min. Earth dist.	-4308 Aug 01 j 07:33	4°♑43'20	8.10513 AU
direct	-4308 Oct 06 j 17:24	1°♑18'59	
evening set	-4307 Jan 15 j 23:31	9°♑16'48	
conjunction	-4307 Feb 02 j 11:46	11°♑33'36	-1°38'07
minimum elong	-4307 Feb 02 j 11:43	11°♑33'35	1°38'18
max. Earth dist.	-4307 Feb 02 j 11:04	11°♑33'22	10.04423 AU
morning rise	-4307 Feb 20 j 05:17	13°♑52'07	
retrograde	-4307 Jun 08 j 05:43	22°♑21'12	
opposition	-4307 Aug 15 j 14:50	18°♑50'01	-2°18'07
min. Earth dist.	-4307 Aug 15 j 13:22	18°♑50'19	7.99048 AU
direct	-4307 Oct 20 j 17:23	15°♑23'45	
evening set	-4306 Jan 30 j 18:30	23°♑32'03	
conjunction	-4306 Feb 17 j 10:38	25°♑51'32	-2°00'42
minimum elong	-4306 Feb 17 j 10:35	25°♑51'30	2°00'53
max. Earth dist.	-4306 Feb 17 j 15:07	25°♑53'01	9.94254 AU
morning rise	-4306 Mar 07 j 07:27	28°♑12'33	
	-4306 Mar 21 j 10:15	0°♒	
retrograde	-4306 Jun 23 j 10:38	6°♒48'54	
opposition	-4306 Aug 30 j 05:46	3°♒16'55	-2°42'20
min. Earth dist.	-4306 Aug 30 j 00:24	3°♒18'02	7.90512 AU
	-4306 Oct 21 j 11:35	30°℞♑	
direct	-4306 Nov 04 j 01:55	29°♑49'18	
	-4306 Nov 17 j 14:58	0°♒	
evening set	-4305 Feb 15 j 00:27	8°♒06'31	
conjunction	-4305 Mar 04 j 20:11	10°♒28'06	-2°16'03
minimum elong	-4305 Mar 04 j 20:10	10°♒28'05	2°16'13
max. Earth dist.	-4305 Mar 05 j 05:39	10°♒31'15	9.87340 AU
morning rise	-4305 Mar 22 j 19:45	12°♒50'56	
	-4305 Apr 08 j 18:19	15°♒	
retrograde	-4305 Jul 08 j 17:41	21°♒30'48	
opposition	-4305 Sep 13 j 23:58	17°♒58'30	-2°56'24
min. Earth dist.	-4305 Sep 13 j 15:01	18°♒00'22	7.85480 AU
	-4305 Oct 26 j 18:47	15°℞♒	
direct	-4305 Nov 18 j 18:17	14°♒29'44	
	-4305 Dec 11 j 15:08	15°♒	
evening set	-4304 Mar 01 j 14:13	22°♒53'24	
conjunction	-4304 Mar 19 j 13:06	25°♒16'19	-2°22'42
minimum elong	-4304 Mar 19 j 13:06	25°♒16'19	2°22'49
max. Earth dist.	-4304 Mar 20 j 02:49	25°♒20'54	9.84173 AU
morning rise	-4304 Apr 06 j 14:43	27°♒40'08	
	-4304 Apr 24 j 23:43	0°♓	
retrograde	-4304 Jul 22 j 22:56	6°♓19'12	
opposition	-4304 Sep 27 j 18:53	2°♓47'08	-2°58'51
min. Earth dist.	-4304 Sep 27 j 07:09	2°♓49'36	7.84312 AU
	-4304 Nov 05 j 06:39	30°℞♒	
direct	-4304 Dec 02 j 15:50	29°♒17'28	

Attention, astronomical year style is used: The year -4304 in astronomical counting style is the year 4305 BCE in historical counting style.

	-4304 Dec 29 j 22:24	0°♓		
evening set	-4303 Mar 17 j 07:44	7°♓44'25		
conjunction	-4303 Apr 04 j 09:12	10°♓07'50	-2°19'57	
minimum elong	-4303 Apr 04 j 09:14	10°♓07'51	2°20'02	
max. Earth dist.	-4303 Apr 05 j 02:04	10°♓13'27	9.85006 AU	
morning rise	-4303 Apr 22 j 12:11	12°♓31'44		
retrograde	-4303 Aug 06 j 23:22	21°♓05'41		
opposition	-4303 Oct 12 j 11:59	17°♓34'21	-2°49'23	
min. Earth dist.	-4303 Oct 11 j 22:36	17°♓37'10	7.87114 AU	
direct	-4303 Dec 17 j 15:58	14°♓04'07		
evening set	-4302 Apr 02 j 00:43	22°♓30'49		
conjunction	-4302 Apr 20 j 04:00	24°♓53'52	-2°08'02	
minimum elong	-4302 Apr 20 j 04:04	24°♓53'53	2°08'03	
max. Earth dist.	-4302 Apr 20 j 22:43	25°♓00'03	9.89787 AU	
morning rise	-4302 May 08 j 07:30	27°♓16'55		
	-4302 May 30 j 03:03	0°♈		
retrograde	-4302 Aug 21 j 15:54	5°♈41'58		
min. Earth dist.	-4302 Oct 26 j 10:42	2°♈14'49	7.93686 AU	
opposition	-4302 Oct 27 j 00:49	2°♈11'51	-2°28'57	
	-4302 Nov 24 j 11:59	30°℞♓		
direct	-4301 Jan 01 j 15:40	28°♓41'26		
	-4301 Feb 08 j 15:09	0°♈		
evening set	-4301 Apr 17 j 13:19	7°♈04'34		
conjunction	-4301 May 05 j 17:18	9°♈26'20	-1°48'05	
minimum elong	-4301 May 05 j 17:22	9°♈26'22	1°48'03	
max. Earth dist.	-4301 May 06 j 12:30	9°♈32'37	9.98165 AU	
morning rise	-4301 May 23 j 20:09	11°♈47'38		
retrograde	-4301 Sep 04 j 22:48	20°♈01'00		
opposition	-4301 Nov 10 j 07:18	16°♈32'30	-1°59'33	
min. Earth dist.	-4301 Nov 09 j 17:08	16°♈35'26	8.03576 AU	
direct	-4300 Jan 16 j 12:31	13°♈02'17		
evening set	-4300 May 01 j 17:55	21°♈19'01		
conjunction	-4300 May 19 j 21:19	23°♈38'41	-1°21'53	
minimum elong	-4300 May 19 j 21:23	23°♈38'42	1°21'49	
max. Earth dist.	-4300 May 20 j 15:54	23°♈44'41	10.09562 AU	
morning rise	-4300 Jun 06 j 22:21	25°♈57'28		
	-4300 Jul 11 j 09:53	0°♉		
retrograde	-4300 Sep 17 j 18:43	3°♉57'36		
opposition	-4300 Nov 23 j 06:09	0°♉30'56	-1°23'46	
min. Earth dist.	-4300 Nov 22 j 16:14	0°♉33'47	8.16130 AU	
	-4300 Nov 29 j 13:40	30°℞♈		
direct	-4299 Jan 30 j 04:05	27°♈01'18		
	-4299 Mar 31 j 02:46	0°♉		
evening set	-4299 May 16 j 11:54	5°♉09'31		
conjunction	-4299 Jun 03 j 13:27	7°♉26'25	-0°51'35	
minimum elong	-4299 Jun 03 j 13:29	7°♉26'26	0°51'28	
max. Earth dist.	-4299 Jun 04 j 06:39	7°♉31'53	10.23227 AU	
morning rise	-4299 Jun 21 j 11:27	9°♉42'08		
	-4299 Aug 08 j 21:52	15°♉		
retrograde	-4299 Oct 01 j 03:05	17°♉28'33		
	-4299 Nov 25 j 02:52	15°℞♉		
opposition	-4299 Dec 06 j 20:30	14°♉03'50	-0°44'26	
min. Earth dist.	-4299 Dec 06 j 07:15	14°♉06'31	8.30552 AU	
direct	-4298 Feb 13 j 12:02	10°♉35'07		
	-4298 Apr 29 j 18:59	15°♉		
evening set	-4298 May 30 j 18:10	18°♉33'33		
conjunction	-4298 Jun 17 j 16:34	20°♉47'13	-0°19'19	
minimum elong	-4298 Jun 17 j 16:35	20°♉47'14	0°19'10	
max. Earth dist.	-4298 Jun 18 j 07:58	20°♉52'02	10.38309 AU	
morning rise	-4298 Jul 05 j 10:26	22°♉59'28		
	-4298 Sep 19 j 14:44	0°♊		

retrograde	-4298 Oct 14 j 01:16	0°♊32'38		
	-4298 Nov 07 j 17:09	30°℞♉		
opposition	-4298 Dec 20 j 02:12	27°♉09'53	-0°04'08	
min. Earth dist.	-4298 Dec 19 j 14:42	27°♉12'11	8.45992 AU	
asc. node	-4297 Jan 28 j 06:30	24°♉27'56		
direct	-4297 Feb 27 j 10:27	23°♉42'17		
	-4297 May 31 j 17:22	0°♊		
evening set	-4297 Jun 13 j 11:51	1°♊30'25		
conjunction	-4297 Jul 01 j 06:01	3°♊40'38	0°13'02	
minimum elong	-4297 Jul 01 j 06:00	3°♊40'38	0°13'12	
behind sun begin	-4297 Jul 01 j 01:51	3°♊39'22		
behind sun end	-4297 Jul 01 j 10:10	3°♊41'54		
max. Earth dist.	-4297 Jul 01 j 18:50	3°♊44'34	10.53953 AU	
morning rise	-4297 Jul 18 j 18:58	5°♊49'16		
retrograde	-4297 Oct 26 j 14:43	13°♊10'17		
opposition	-4296 Jan 01 j 23:47	9°♊49'25	0°34'53	
min. Earth dist.	-4296 Jan 01 j 15:03	9°♊51'08	8.61622 AU	
direct	-4296 Mar 11 j 22:28	6°♊23'03		
evening set	-4296 Jun 25 j 16:52	14°♊00'58		
conjunction	-4296 Jul 13 j 06:00	16°♊07'41	0°43'43	
minimum elong	-4296 Jul 13 j 05:58	16°♊07'41	0°43'54	
max. Earth dist.	-4296 Jul 13 j 15:06	16°♊10'26	10.69347 AU	
morning rise	-4296 Jul 30 j 13:45	18°♊12'48		
retrograde	-4296 Nov 06 j 17:10	25°♊23'15		
opposition	-4295 Jan 13 j 13:40	22°♊04'03	1°10'56	
min. Earth dist.	-4295 Jan 13 j 08:23	22°♊05'04	8.76645 AU	
direct	-4295 Mar 25 j 02:47	18°♊38'57		
evening set	-4295 Jul 08 j 10:10	26°♊07'17		
conjunction	-4295 Jul 25 j 17:55	28°♊10'40	1°11'35	
minimum elong	-4295 Jul 25 j 17:52	28°♊10'39	1°11'46	
max. Earth dist.	-4295 Jul 25 j 22:04	28°♊11'54	10.83730 AU	
	-4295 Aug 10 j 01:48	0°♋		
morning rise	-4295 Aug 11 j 20:30	0°♋12'31		
retrograde	-4295 Nov 18 j 12:38	7°♋14'14		
opposition	-4294 Jan 25 j 20:36	3°♋56'26	1°42'44	
min. Earth dist.	-4294 Jan 25 j 18:23	3°♋56'51	8.90324 AU	
direct	-4294 Apr 06 j 22:37	0°♋32'38		
evening set	-4294 Jul 20 j 16:45	7°♋52'24		
conjunction	-4294 Aug 06 j 19:14	9°♋52'48	1°35'42	
minimum elong	-4294 Aug 06 j 19:11	9°♋52'47	1°35'54	
max. Earth dist.	-4294 Aug 06 j 19:15	9°♋52'48	10.96437 AU	
morning rise	-4294 Aug 23 j 16:49	11°♋51'45		
retrograde	-4294 Nov 30 j 03:32	18°♋46'45		
opposition	-4293 Feb 06 j 22:16	15°♋30'05	2°09'26	
min. Earth dist.	-4293 Feb 06 j 22:46	15°♋30'00	9.02064 AU	
direct	-4293 Apr 19 j 09:05	12°♋07'35		
evening set	-4293 Aug 01 j 13:53	19°♋19'55		
conjunction	-4293 Aug 18 j 11:33	21°♋17'47	1°55'27	
minimum elong	-4293 Aug 18 j 11:30	21°♋17'46	1°55'38	
max. Earth dist.	-4293 Aug 18 j 08:33	21°♋16'54	11.06989 AU	
morning rise	-4293 Sep 04 j 04:31	23°♋14'20		
	-4293 Dec 02 j 02:30	0°♌		
retrograde	-4293 Dec 11 j 14:52	0°♌04'37		
	-4293 Dec 21 j 04:10	30°℞♋		
opposition	-4292 Feb 18 j 19:48	26°♋48'45	2°30'29	
min. Earth dist.	-4292 Feb 18 j 23:21	26°♋48'06	9.11485 AU	
direct	-4292 Apr 30 j 12:57	23°♋27'24		
	-4292 Aug 07 j 04:27	0°♌		
evening set	-4292 Aug 12 j 03:28	0°♌33'36		
conjunction	-4292 Aug 28 j 20:47	2°♌29'25	2°10'23	
minimum elong	-4292 Aug 28 j 20:45	2°♌29'24	2°10'34	

Attention, astronomical year style is used: The year -4292 in astronomical counting style is the year 4293 BCE in historical counting style.

max. Earth dist.	-4292 Aug 28 j 14:29	2°♌27'35	11.15093 AU
morning rise	-4292 Sep 14 j 09:58	4°♌24'07	
retrograde	-4292 Dec 21 j 23:38	11°♌11'27	
opposition	-4291 Mar 01 j 14:19	7°♌56'05	2°45'30
min. Earth dist.	-4291 Mar 01 j 21:30	7°♌54'45	9.18341 AU
direct	-4291 May 12 j 09:58	4°♌35'43	
evening set	-4291 Aug 23 j 10:58	11°♌37'03	
conjunction	-4291 Sep 09 j 00:35	13°♌31'22	2°20'16
minimum elong	-4291 Sep 09 j 00:33	13°♌31'21	2°20'25
max. Earth dist.	-4291 Sep 08 j 14:19	13°♌28'23	11.20545 AU
	-4291 Sep 21 j 19:58	15°♌	
morning rise	-4291 Sep 25 j 11:01	15°♌24'47	
retrograde	-4290 Jan 02 j 05:34	22°♌10'59	
opposition	-4290 Mar 13 j 07:12	18°♌55'42	2°54'18
min. Earth dist.	-4290 Mar 13 j 17:04	18°♌53'54	9.22442 AU
direct	-4290 May 24 j 03:46	15°♌36'07	
evening set	-4290 Sep 03 j 13:43	22°♌33'54	
conjunction	-4290 Sep 20 j 00:40	24°♌27'16	2°24'56
minimum elong	-4290 Sep 20 j 00:40	24°♌27'16	2°25'04
max. Earth dist.	-4290 Sep 19 j 12:01	24°♌23'36	11.23200 AU
morning rise	-4290 Oct 06 j 09:13	26°♌19'59	
	-4290 Nov 10 j 18:03	0°♍	
retrograde	-4289 Jan 13 j 14:34	3°♍06'49	
	-4289 Mar 22 j 23:35	30°℞♌	
opposition	-4289 Mar 24 j 23:36	29°♌51'15	2°56'46
min. Earth dist.	-4289 Mar 25 j 10:52	29°♌49'12	9.23677 AU
direct	-4289 Jun 04 j 19:22	26°♌32'17	
	-4289 Aug 12 j 10:48	0°♍	
evening set	-4289 Sep 14 j 13:37	3°♍27'50	
conjunction	-4289 Sep 30 j 23:01	5°♍20'51	2°24'20
minimum elong	-4289 Sep 30 j 23:02	5°♍20'51	2°24'26
max. Earth dist.	-4289 Sep 30 j 09:17	5°♍16'53	11.22989 AU
morning rise	-4289 Oct 17 j 06:36	7°♍13'28	
retrograde	-4288 Jan 25 j 00:53	14°♍02'36	
opposition	-4288 Apr 04 j 16:43	10°♍46'27	2°52'54
min. Earth dist.	-4288 Apr 05 j 05:31	10°♍44'07	9.22026 AU
direct	-4288 Jun 15 j 06:30	7°♍27'53	
evening set	-4288 Sep 24 j 12:27	14°♍22'36	
conjunction	-4288 Oct 10 j 21:08	16°♍15'52	2°18'30
minimum elong	-4288 Oct 10 j 21:09	16°♍15'52	2°18'33
max. Earth dist.	-4288 Oct 10 j 05:24	16°♍11'18	11.19933 AU
morning rise	-4288 Oct 27 j 04:59	18°♍08'59	
retrograde	-4287 Feb 04 j 15:22	25°♍02'05	
opposition	-4287 Apr 16 j 11:52	21°♍45'06	2°42'46
min. Earth dist.	-4287 Apr 17 j 02:29	21°♍42'26	9.17546 AU
direct	-4287 Jun 26 j 18:30	18°♍26'42	
evening set	-4287 Oct 05 j 12:05	25°♍22'04	
conjunction	-4287 Oct 21 j 20:55	27°♍16'09	2°07'30
minimum elong	-4287 Oct 21 j 20:58	27°♍16'09	2°07'32
max. Earth dist.	-4287 Oct 21 j 03:27	27°♍11'02	11.14132 AU
morning rise	-4287 Nov 07 j 06:06	29°♍10'22	
	-4287 Nov 14 j 13:28	0°♎	
retrograde	-4286 Feb 16 j 09:01	6°♎09'06	
opposition	-4286 Apr 28 j 10:14	2°♎51'00	2°26'30
min. Earth dist.	-4286 Apr 29 j 01:52	2°♎48'08	9.10384 AU
	-4286 Jun 14 j 06:57	30°℞♍	
direct	-4286 Jul 08 j 06:55	29°♍32'35	
	-4286 Jul 31 j 23:50	0°♎	
evening set	-4286 Oct 16 j 14:18	6°♎30'07	
max. Earth dist.	-4286 Nov 01 j 07:09	8°♎20'28	11.05770 AU
conjunction	-4286 Nov 02 j 00:28	8°♎25'34	1°51'34
minimum elong	-4286 Nov 02 j 00:31	8°♎25'35	1°51'33
morning rise	-4286 Nov 18 j 11:48	10°♎21'27	
retrograde	-4285 Feb 28 j 11:07	17°♎27'31	
opposition	-4285 May 10 j 13:02	14°♎08'03	2°04'19
min. Earth dist.	-4285 May 11 j 04:02	14°♎05'17	9.00771 AU
direct	-4285 Jul 19 j 23:11	10°♎49'25	
evening set	-4285 Oct 27 j 21:04	17°♎50'38	
conjunction	-4285 Nov 13 j 09:28	19°♎48'02	1°30'59
minimum elong	-4285 Nov 13 j 09:31	19°♎48'02	1°30'55
max. Earth dist.	-4285 Nov 12 j 16:53	19°♎43'05	10.95105 AU
morning rise	-4285 Nov 29 j 23:44	21°♎46'06	
retrograde	-4284 Mar 11 j 22:26	29°♎01'00	
opposition	-4284 May 21 j 21:25	25°♎40'02	1°36'40
min. Earth dist.	-4284 May 22 j 11:27	25°♎37'25	8.89015 AU
direct	-4284 Jul 30 j 17:20	22°♎21'00	
evening set	-4284 Nov 07 j 10:41	29°♎27'29	
	-4284 Nov 12 j 00:06	0°♏	
max. Earth dist.	-4284 Nov 23 j 09:27	1°♏22'19	10.82494 AU
conjunction	-4284 Nov 24 j 01:48	1°♏27'15	1°06'13
minimum elong	-4284 Nov 24 j 01:50	1°♏27'16	1°06'07
morning rise	-4284 Dec 10 j 19:49	3°♏28'00	
retrograde	-4283 Mar 24 j 16:37	10°♏53'09	
opposition	-4283 Jun 03 j 12:27	7°♏30'34	1°04'09
min. Earth dist.	-4283 Jun 04 j 01:36	7°♏28'05	8.75543 AU
direct	-4283 Aug 11 j 16:49	4°♏10'54	
evening set	-4283 Nov 19 j 08:52	11°♏24'15	
max. Earth dist.	-4283 Dec 05 j 11:49	13°♏22'04	10.68419 AU
conjunction	-4283 Dec 06 j 03:17	13°♏26'48	0°37'57
minimum elong	-4283 Dec 06 j 03:18	13°♏26'49	0°37'50
	-4283 Dec 18 j 20:11	15°♏	
morning rise	-4283 Dec 23 j 01:37	15°♏30'37	
retrograde	-4282 Apr 06 j 21:34	23°♏07'17	
opposition	-4282 Jun 16 j 11:12	19°♏42'59	0°27'41
min. Earth dist.	-4282 Jun 16 j 23:04	19°♏40'43	8.60905 AU
direct	-4282 Aug 24 j 00:33	16°♏22'30	
evening set	-4282 Dec 01 j 17:26	23°♏44'08	
conjunction	-4282 Dec 18 j 15:42	25°♏49'48	0°07'11
minimum elong	-4282 Dec 18 j 15:43	25°♏49'49	0°07'02
behind sun begin	-4282 Dec 18 j 09:09	25°♏47'47	
behind sun end	-4282 Dec 18 j 22:16	25°♏51'50	
max. Earth dist.	-4282 Dec 18 j 02:59	25°♏45'51	10.53458 AU
morning rise	-4281 Jan 04 j 18:33	27°♏56'57	
	-4281 Jan 22 j 02:24	0°♐	
desc. node	-4281 Mar 13 j 07:02	4°♐33'38	
retrograde	-4281 Apr 20 j 13:38	5°♐45'59	
opposition	-4281 Jun 29 j 18:04	2°♐19'59	-0°11'25
min. Earth dist.	-4281 Jun 30 j 03:23	2°♐18'10	8.45739 AU
	-4281 Aug 01 j 22:41	30°℞♏	
direct	-4281 Sep 05 j 15:29	28°♏58'30	
	-4281 Oct 09 j 13:48	0°♐	
evening set	-4281 Dec 14 j 14:20	6°♐29'46	
conjunction	-4281 Dec 31 j 16:44	8°♐38'43	-0°24'59
minimum elong	-4281 Dec 31 j 16:43	8°♐38'43	0°25'09
max. Earth dist.	-4281 Dec 31 j 07:40	8°♐35'52	10.38289 AU
morning rise	-4280 Jan 18 j 00:00	10°♐49'19	
retrograde	-4280 May 03 j 15:35	18°♐51'01	
opposition	-4280 Jul 12 j 09:08	15°♐23'22	-0°51'23
min. Earth dist.	-4280 Jul 12 j 15:00	15°♐22'13	8.30779 AU
direct	-4280 Sep 17 j 16:02	12°♐00'46	
evening set	-4280 Dec 27 j 00:38	19°♐42'38	
conjunction	-4279 Jan 13 j 07:07	21°♐54'54	-0°56'45

Attention, astronomical year style is used: The year -4279 in astronomical counting style is the year 4280 BCE in historical counting style.

minimum elong	-4279 Jan 13 j 07:05	21°♐54'53	0°56'56	
max. Earth dist.	-4279 Jan 13 j 02:01	21°♐53'16	10.23689 AU	
morning rise	-4279 Jan 30 j 18:43	24°♐08'53		
	-4279 Mar 25 j 12:16	0°♑		
retrograde	-4279 May 18 j 04:12	2°♑22'50		
	-4279 Jul 12 j 07:55	30°℞♐		
opposition	-4279 Jul 26 j 08:38	28°♐53'44	-1°30'00	
min. Earth dist.	-4279 Jul 26 j 10:37	28°♐53'20	8.16830 AU	
direct	-4279 Oct 01 j 01:38	25°♐29'55		
	-4279 Dec 12 j 22:47	0°♑		
evening set	-4278 Jan 10 j 00:46	3°♑22'45		
conjunction	-4278 Jan 27 j 11:12	5°♑38'10	-1°26'16	
minimum elong	-4278 Jan 27 j 11:08	5°♑38'09	1°26'27	
max. Earth dist.	-4278 Jan 27 j 10:01	5°♑37'47	10.10489 AU	
morning rise	-4278 Feb 14 j 02:53	7°♑55'19		
retrograde	-4278 Jun 02 j 01:37	16°♑20'09		
opposition	-4278 Aug 09 j 15:39	12°♑49'51	-2°04'39	
min. Earth dist.	-4278 Aug 09 j 14:11	12°♑50'09	8.04714 AU	
direct	-4278 Oct 14 j 20:35	9°♑24'43		
evening set	-4277 Jan 24 j 14:31	17°♑28'16		
conjunction	-4277 Feb 11 j 04:46	19°♑46'30	-1°51'25	
minimum elong	-4277 Feb 11 j 04:42	19°♑46'29	1°51'36	
max. Earth dist.	-4277 Feb 11 j 07:41	19°♑47'27	9.99496 AU	
morning rise	-4277 Mar 01 j 00:06	22°♑06'22		
	-4277 May 21 j 00:31	0°♒		
retrograde	-4277 Jun 17 j 05:09	0°♒39'35		
	-4277 Jul 14 j 09:55	30°℞♑		
opposition	-4277 Aug 24 j 04:35	27°♑08'26	-2°32'36	
min. Earth dist.	-4277 Aug 24 j 00:08	27°♑09'22	7.95176 AU	
direct	-4277 Oct 29 j 01:28	23°♑41'59		
	-4276 Jan 24 j 13:24	0°♒		
evening set	-4276 Feb 08 j 16:08	1°♒55'05		
conjunction	-4276 Feb 26 j 10:00	4°♒15'36	-2°10'10	
minimum elong	-4276 Feb 26 j 09:57	4°♒15'35	2°10'19	
max. Earth dist.	-4276 Feb 26 j 17:03	4°♒17'56	9.91404 AU	
morning rise	-4276 Mar 15 j 08:24	6°♒37'33		
	-4276 Jun 14 j 12:23	15°♒		
retrograde	-4276 Jul 01 j 11:17	15°♒15'47		
	-4276 Jul 18 j 08:27	15°℞♒		
opposition	-4276 Sep 06 j 21:44	11°♒44'10	-2°51'20	
min. Earth dist.	-4276 Sep 06 j 14:33	11°♒45'40	7.88798 AU	
direct	-4276 Nov 11 j 15:52	8°♒16'28		
	-4275 Feb 10 j 11:41	15°♒		
evening set	-4275 Feb 23 j 02:35	16°♒37'00		
conjunction	-4275 Mar 12 j 23:49	18°♒59'10	-2°20'46	
minimum elong	-4275 Mar 12 j 23:48	18°♒59'10	2°20'54	
max. Earth dist.	-4275 Mar 13 j 10:39	19°♒02'47	9.86695 AU	
morning rise	-4275 Mar 31 j 00:38	21°♒22'27		
	-4275 Jul 11 j 01:46	0°♓		
retrograde	-4275 Jul 16 j 16:26	0°♓01'46		
	-4275 Jul 22 j 07:05	30°℞♒		
opposition	-4275 Sep 21 j 16:37	26°♒30'09	-2°58'59	
min. Earth dist.	-4275 Sep 21 j 07:07	26°♒32'08	7.85918 AU	
direct	-4275 Nov 26 j 12:04	23°♒01'25		
	-4274 Feb 27 j 12:42	0°♓		
evening set	-4274 Mar 10 j 18:45	1°♓26'43		
conjunction	-4274 Mar 28 j 18:59	3°♓49'49	-2°22'10	
minimum elong	-4274 Mar 28 j 19:00	3°♓49'49	2°22'16	
max. Earth dist.	-4274 Mar 29 j 09:03	3°♓54'30	9.85627 AU	
morning rise	-4274 Apr 15 j 21:32	6°♓13'36		
retrograde	-4274 Jul 31 j 18:41	14°♓49'52		
opposition	-4274 Oct 06 j 10:42	11°♓18'45	-2°54'43	
min. Earth dist.	-4274 Oct 05 j 23:02	11°♓21'12	7.86720 AU	
direct	-4274 Dec 11 j 11:26	7°♓49'17		
evening set	-4273 Mar 26 j 12:37	16°♓16'09		
conjunction	-4273 Apr 13 j 15:11	18°♓39'22	-2°14'12	
minimum elong	-4273 Apr 13 j 15:15	18°♓39'23	2°14'15	
max. Earth dist.	-4273 Apr 14 j 07:58	18°♓44'56	9.88337 AU	
morning rise	-4273 May 01 j 18:36	21°♓02'47		
retrograde	-4273 Aug 15 j 15:09	29°♓32'01		
opposition	-4273 Oct 21 j 01:49	26°♓01'50	-2°38'58	
min. Earth dist.	-4273 Oct 20 j 12:23	26°♓04'39	7.91256 AU	
direct	-4273 Dec 26 j 11:25	22°♓31'57		
	-4272 Apr 02 j 17:17	0°♈		
evening set	-4272 Apr 10 j 03:47	0°♈56'55		
conjunction	-4272 Apr 28 j 07:41	3°♈19'19	-1°57'36	
minimum elong	-4272 Apr 28 j 07:45	3°♈19'21	1°57'36	
max. Earth dist.	-4272 Apr 29 j 02:16	3°♈25'26	9.94739 AU	
morning rise	-4272 May 16 j 10:53	5°♈41'26		
retrograde	-4272 Aug 29 j 03:39	14°♈00'23		
opposition	-4272 Nov 03 j 11:38	10°♈31'29	-2°13'14	
min. Earth dist.	-4272 Nov 02 j 21:21	10°♈34'27	7.99296 AU	
direct	-4271 Jan 09 j 09:27	7°♈01'29		
evening set	-4271 Apr 25 j 12:36	15°♈21'24		
conjunction	-4271 May 13 j 16:35	17°♈42'08	-1°33'54	
minimum elong	-4271 May 13 j 16:39	17°♈42'09	1°33'51	
max. Earth dist.	-4271 May 14 j 11:37	17°♈48'19	10.04437 AU	
morning rise	-4271 May 31 j 18:28	20°♈02'07		
retrograde	-4271 Sep 12 j 05:43	28°♈08'30		
opposition	-4271 Nov 17 j 14:15	24°♈41'10	-1°39'56	
min. Earth dist.	-4271 Nov 17 j 00:20	24°♈44'02	8.10323 AU	
direct	-4270 Jan 24 j 03:51	21°♈11'24		
evening set	-4270 May 10 j 12:02	29°♈23'47		
	-4270 May 15 j 06:56	0°♉		
conjunction	-4270 May 28 j 14:43	1°♉42'03	-1°05'08	
minimum elong	-4270 May 28 j 14:46	1°♉42'04	1°05'03	
max. Earth dist.	-4270 May 29 j 08:41	1°♉47'48	10.16769 AU	
morning rise	-4270 Jun 15 j 14:06	3°♉59'15		
retrograde	-4270 Sep 25 j 19:15	11°♉52'01		
opposition	-4270 Dec 01 j 08:47	8°♉26'27	-1°01'50	
min. Earth dist.	-4270 Nov 30 j 20:19	8°♉28'59	8.23606 AU	
direct	-4269 Feb 07 j 15:43	4°♉57'14		
evening set	-4269 May 24 j 23:59	13°♉00'23		
	-4269 Jun 09 j 22:21	15°♉		
conjunction	-4269 Jun 11 j 23:55	15°♉15'37	-0°33'29	
minimum elong	-4269 Jun 11 j 23:57	15°♉15'38	0°33'21	
max. Earth dist.	-4269 Jun 12 j 15:21	15°♉20'29	10.30928 AU	
morning rise	-4269 Jun 29 j 19:43	17°♉29'31		
retrograde	-4269 Oct 08 j 21:30	25°♉08'46		
opposition	-4269 Dec 14 j 18:36	21°♉45'00	-0°21'40	
min. Earth dist.	-4269 Dec 14 j 07:48	21°♉47'10	8.38329 AU	
direct	-4268 Feb 21 j 19:05	18°♉16'37		
evening set	-4268 Jun 06 j 23:21	26°♉09'40		
conjunction	-4268 Jun 24 j 19:25	28°♉21'31	-0°01'00	
minimum elong	-4268 Jun 24 j 19:26	28°♉21'32	0°00'51	
behind sun begin	-4268 Jun 24 j 12:11	28°♉19'18		
behind sun end	-4268 Jun 25 j 02:40	28°♉23'45		
max. Earth dist.	-4268 Jun 25 j 07:42	28°♉25'19	10.46080 AU	
asc. node	-4268 Jul 06 j 05:40	29°♉46'20		
	-4268 Jul 08 j 02:13	0°♊		
morning rise	-4268 Jul 12 j 10:49	0°♊31'53		
retrograde	-4268 Oct 20 j 13:55	7°♊58'27		
opposition	-4268 Dec 26 j 19:41	4°♊36'27	0°18'09	

Attention, astronomical year style is used: The year -4268 in astronomical counting style is the year 4269 BCE in historical counting style.

min. Earth dist.	-4268 Dec 26 j 10:33	4°♊38'14	8.53663 AU
direct	-4267 Mar 06 j 12:34	1°♊09'06	
evening set	-4267 Jun 20 j 09:52	8°♊51'51	
conjunction	-4267 Jul 08 j 01:21	11°♊00'15	0°30'37
minimum elong	-4267 Jul 08 j 01:20	11°♊00'14	0°30'47
max. Earth dist.	-4267 Jul 08 j 10:41	11°♊03'06	10.61409 AU
morning rise	-4267 Jul 25 j 11:42	13°♊07'03	
retrograde	-4267 Nov 01 j 20:12	20°♊22'20	
opposition	-4266 Jan 08 j 12:43	17°♊01'57	0°55'41
min. Earth dist.	-4266 Jan 08 j 05:32	17°♊03'21	8.68814 AU
direct	-4266 Mar 19 j 21:31	13°♊35'49	
evening set	-4266 Jul 03 j 08:15	21°♊08'40	
conjunction	-4266 Jul 20 j 18:36	23°♊13'39	0°59'50
minimum elong	-4266 Jul 20 j 18:34	23°♊13'38	1°00'02
max. Earth dist.	-4266 Jul 21 j 01:13	23°♊15'38	10.76165 AU
morning rise	-4266 Aug 06 j 23:31	25°♊17'02	
	-4266 Sep 21 j 08:28	0°♋	
retrograde	-4266 Nov 13 j 20:06	2°♋22'44	
	-4265 Jan 08 j 13:27	30°℞♊	
opposition	-4265 Jan 20 j 22:37	29°♊03'51	1°29'29
min. Earth dist.	-4265 Jan 20 j 18:19	29°♊04'40	8.83089 AU
direct	-4265 Apr 01 j 20:00	25°♊38'59	
	-4265 Jun 18 j 01:08	0°♋	
evening set	-4265 Jul 15 j 19:20	3°♋02'42	
conjunction	-4265 Aug 02 j 00:20	5°♋04'31	1°25'41
minimum elong	-4265 Aug 02 j 00:17	5°♋04'30	1°25'53
max. Earth dist.	-4265 Aug 02 j 03:36	5°♋05'29	10.89722 AU
morning rise	-4265 Aug 19 j 00:02	7°♋04'48	
retrograde	-4265 Nov 25 j 13:07	14°♋02'46	
opposition	-4264 Feb 02 j 02:31	10°♋45'09	1°58'29
min. Earth dist.	-4264 Feb 02 j 01:37	10°♋45'19	8.95918 AU
direct	-4264 Apr 13 j 08:39	7°♋21'36	
evening set	-4264 Jul 26 j 20:17	14°♋37'12	
conjunction	-4264 Aug 12 j 20:03	16°♋36'13	1°47'24
minimum elong	-4264 Aug 12 j 20:00	16°♋36'12	1°47'36
max. Earth dist.	-4264 Aug 12 j 19:04	16°♋35'55	11.01569 AU
morning rise	-4264 Aug 29 j 15:06	18°♋33'52	
retrograde	-4264 Dec 05 j 23:26	25°♋25'59	
opposition	-4263 Feb 13 j 01:23	22°♋09'23	2°22'02
min. Earth dist.	-4263 Feb 13 j 03:25	22°♋09'00	9.06810 AU
direct	-4263 Apr 25 j 16:27	18°♋47'05	
evening set	-4263 Aug 07 j 12:44	25°♋55'49	
conjunction	-4263 Aug 24 j 07:50	27°♋52'28	2°04'28
minimum elong	-4263 Aug 24 j 07:48	27°♋52'28	2°04'39
max. Earth dist.	-4263 Aug 24 j 03:15	27°♋51'08	11.11276 AU
morning rise	-4263 Sep 09 j 22:48	29°♋47'57	
	-4263 Sep 11 j 17:09	0°♌	
retrograde	-4263 Dec 17 j 08:46	6°♌36'09	
opposition	-4262 Feb 24 j 20:26	3°♌20'15	2°39'41
min. Earth dist.	-4262 Feb 25 j 00:31	3°♌19'30	9.15372 AU
	-4262 May 03 j 12:59	30°℞♋	
direct	-4262 May 07 j 16:51	29°♋59'11	
	-4262 May 11 j 20:21	0°♌	
evening set	-4262 Aug 18 j 22:11	7°♌02'15	
conjunction	-4262 Sep 04 j 13:26	8°♌57'07	2°16'34
minimum elong	-4262 Sep 04 j 13:24	8°♌57'06	2°16'43
max. Earth dist.	-4262 Sep 04 j 06:48	8°♌55'12	11.18514 AU
morning rise	-4262 Sep 21 j 00:57	10°♌50'59	
	-4262 Oct 31 j 20:07	15°♌	
retrograde	-4262 Dec 28 j 16:06	17°♌37'04	
	-4261 Feb 27 j 18:42	15°℞♌	
opposition	-4261 Mar 08 j 13:26	14°♌21'36	2°51'10
min. Earth dist.	-4261 Mar 08 j 19:57	14°♌20'24	9.21324 AU
direct	-4261 May 19 j 10:40	11°♌01'37	
	-4261 Aug 01 j 18:44	15°♌	
evening set	-4261 Aug 30 j 02:15	18°♌00'20	
conjunction	-4261 Sep 15 j 14:23	19°♌53'57	2°23'30
minimum elong	-4261 Sep 15 j 14:22	19°♌53'57	2°23'38
max. Earth dist.	-4261 Sep 15 j 05:06	19°♌51'16	11.23050 AU
morning rise	-4261 Oct 01 j 23:30	21°♌46'47	
retrograde	-4260 Jan 08 j 23:52	28°♌32'33	
opposition	-4260 Mar 19 j 05:24	25°♌17'12	2°56'23
min. Earth dist.	-4260 Mar 19 j 14:53	25°♌15'29	9.24480 AU
direct	-4260 May 30 j 01:25	21°♌58'06	
evening set	-4260 Sep 09 j 02:53	28°♌53'51	
	-4260 Sep 18 j 18:32	0°♍	
conjunction	-4260 Sep 25 j 12:44	0°♍46'49	2°25'12
minimum elong	-4260 Sep 25 j 12:44	0°♍46'49	2°25'18
max. Earth dist.	-4260 Sep 25 j 00:13	0°♍43'11	11.24752 AU
morning rise	-4260 Oct 11 j 20:40	2°♍39'14	
retrograde	-4259 Jan 19 j 07:06	9°♍26'22	
opposition	-4259 Mar 30 j 21:22	6°♍10'48	2°55'16
min. Earth dist.	-4259 Mar 31 j 09:13	6°♍08'38	9.24739 AU
direct	-4259 Jun 10 j 13:34	2°♍52'22	
evening set	-4259 Sep 20 j 01:36	9°♍46'35	
conjunction	-4259 Oct 06 j 10:19	11°♍39'27	2°21'39
minimum elong	-4259 Oct 06 j 10:20	11°♍39'27	2°21'43
max. Earth dist.	-4259 Oct 05 j 20:07	11°♍35'20	11.23563 AU
morning rise	-4259 Oct 22 j 17:57	13°♍32'03	
retrograde	-4258 Jan 30 j 19:47	20°♍22'17	
opposition	-4258 Apr 11 j 14:54	17°♍06'09	2°47'51
min. Earth dist.	-4258 Apr 12 j 03:41	17°♍03'50	9.22082 AU
direct	-4258 Jun 22 j 02:18	13°♍48'11	
evening set	-4258 Oct 01 j 00:05	20°♍42'13	
conjunction	-4258 Oct 17 j 08:44	22°♍35'36	2°12'55
minimum elong	-4258 Oct 17 j 08:46	22°♍35'36	2°12'58
max. Earth dist.	-4258 Oct 16 j 17:53	22°♍31'16	11.19499 AU
morning rise	-4258 Nov 02 j 17:00	24°♍28'58	
	-4258 Dec 31 j 07:52	0°♎	
retrograde	-4257 Feb 11 j 12:14	1°♎23'58	
	-4257 Mar 26 j 22:16	30°℞♍	
opposition	-4257 Apr 23 j 11:11	28°♍06'58	2°34'17
min. Earth dist.	-4257 Apr 24 j 00:43	28°♍04'30	9.16572 AU
direct	-4257 Jul 03 j 12:52	24°♍49'13	
	-4257 Sep 26 j 08:45	0°♎	
evening set	-4257 Oct 12 j 00:31	1°♎44'32	
conjunction	-4257 Oct 28 j 09:55	3°♎38'59	1°59'11
minimum elong	-4257 Oct 28 j 09:58	3°♎39'00	1°59'11
max. Earth dist.	-4257 Oct 27 j 17:37	3°♎34'13	11.12664 AU
morning rise	-4257 Nov 13 j 19:57	5°♎33'44	
retrograde	-4256 Feb 23 j 10:11	12°♎35'05	
opposition	-4256 May 04 j 11:09	9°♎16'56	2°14'45
min. Earth dist.	-4256 May 05 j 02:02	9°♎14'12	9.08353 AU
direct	-4256 Jul 14 j 02:00	5°♎59'06	
evening set	-4256 Oct 22 j 04:34	12°♎57'17	
conjunction	-4256 Nov 07 j 15:35	14°♎53'22	1°40'40
minimum elong	-4256 Nov 07 j 15:38	14°♎53'23	1°40'38
max. Earth dist.	-4256 Nov 06 j 21:49	14°♎48'07	11.03227 AU
morning rise	-4256 Nov 24 j 04:22	16°♎50'02	
retrograde	-4255 Mar 06 j 15:05	23°♎59'22	
opposition	-4255 May 16 j 16:11	20°♎39'49	1°49'36
min. Earth dist.	-4255 May 17 j 07:47	20°♎36'56	8.97627 AU

Attention, astronomical year style is used: The year -4255 in astronomical counting style is the year 4256 BCE in historical counting style.

direct	-4255 Jul 25 j 18:22	17°♎21'39	
evening set	-4255 Nov 02 j 14:03	24°♎24'19	
max. Earth dist.	-4255 Nov 18 j 10:15	26°♎17'22	10.91427 AU
conjunction	-4255 Nov 19 j 03:37	26°♎22'34	1°17'48
minimum elong	-4255 Nov 19 j 03:39	26°♎22'35	1°17'43
morning rise	-4255 Dec 05 j 19:44	28°♎21'41	
	-4255 Dec 20 j 03:18	0°♏	
retrograde	-4254 Mar 19 j 04:19	5°♏40'41	
opposition	-4254 May 29 j 03:23	2°♏19'30	1°19'18
min. Earth dist.	-4254 May 29 j 18:09	2°♏16'44	8.84728 AU
	-4254 Jul 02 j 13:55	30°℞♎	
direct	-4254 Aug 06 j 16:16	29°♎00'45	
	-4254 Sep 09 j 21:22	0°♏	
evening set	-4254 Nov 14 j 07:19	6°♏09'35	
max. Earth dist.	-4254 Nov 30 j 08:09	8°♏05'38	10.77692 AU
conjunction	-4254 Dec 01 j 00:07	8°♏10'29	0°51'07
minimum elong	-4254 Dec 01 j 00:09	8°♏10'30	0°51'00
morning rise	-4254 Dec 17 j 20:08	10°♏12'29	
	-4253 Feb 01 j 04:58	15°♏	
retrograde	-4253 Apr 01 j 05:09	17°♏42'32	
	-4253 Jun 01 j 22:58	15°℞♏	
opposition	-4253 Jun 10 j 21:39	14°♏19'35	0°44'38
min. Earth dist.	-4253 Jun 11 j 10:33	14°♏17'08	8.70196 AU
direct	-4253 Aug 18 j 19:24	11°♏00'00	
	-4253 Oct 28 j 10:58	15°♏	
evening set	-4253 Nov 26 j 10:15	18°♏16'33	
conjunction	-4253 Dec 13 j 06:39	20°♏20'28	0°21'27
minimum elong	-4253 Dec 13 j 06:40	20°♏20'28	0°21'18
max. Earth dist.	-4253 Dec 12 j 15:50	20°♏15'53	10.62627 AU
morning rise	-4253 Dec 30 j 07:06	22°♏25'44	
	-4252 Apr 01 j 02:55	0°♐	
retrograde	-4252 Apr 13 j 16:04	0°♐07'51	
	-4252 Apr 26 j 04:16	30°℞♏	
opposition	-4252 Jun 22 j 23:55	26°♏43'03	0°06'42
min. Earth dist.	-4252 Jun 23 j 10:56	26°♏40'56	8.54692 AU
desc. node	-4252 Aug 26 j 15:24	23°♏23'04	
direct	-4252 Aug 30 j 04:34	23°♏22'24	
	-4252 Dec 01 j 10:06	0°♐	
evening set	-4252 Dec 08 j 00:36	0°♐48'07	
max. Earth dist.	-4252 Dec 24 j 11:50	2°♐51'12	10.46928 AU
conjunction	-4252 Dec 25 j 00:48	2°♐55'16	-0°10'12
minimum elong	-4252 Dec 25 j 00:48	2°♐55'15	0°10'22
behind sun begin	-4252 Dec 24 j 19:10	2°♐53'31	
behind sun end	-4252 Dec 25 j 06:25	2°♐57'00	
morning rise	-4251 Jan 11 j 05:53	5°♐03'59	
retrograde	-4251 Apr 27 j 11:45	12°♐58'50	
opposition	-4251 Jul 06 j 10:33	9°♐32'11	-0°32'58
min. Earth dist.	-4251 Jul 06 j 19:24	9°♐30'27	8.38967 AU
direct	-4251 Sep 12 j 00:17	6°♐10'14	
evening set	-4251 Dec 21 j 03:43	13°♐46'17	
conjunction	-4250 Jan 07 j 08:00	15°♐56'48	-0°42'12
minimum elong	-4250 Jan 07 j 07:58	15°♐56'48	0°42'23
max. Earth dist.	-4250 Jan 06 j 22:15	15°♐53'42	10.31374 AU
morning rise	-4250 Jan 24 j 17:37	18°♐09'02	
retrograde	-4250 May 11 j 18:15	26°♐16'37	
opposition	-4250 Jul 20 j 05:35	22°♐48'12	-1°12'24
min. Earth dist.	-4250 Jul 20 j 11:35	22°♐47'00	8.23834 AU
direct	-4250 Sep 25 j 05:38	19°♐24'50	
evening set	-4249 Jan 03 j 20:31	27°♐11'57	
conjunction	-4249 Jan 21 j 05:01	29°♐25'47	-1°12'57
minimum elong	-4249 Jan 21 j 04:58	29°♐25'47	1°13'08
max. Earth dist.	-4249 Jan 20 j 23:52	29°♐24'07	10.16790 AU
	-4249 Jan 25 j 14:40	0°♑	
morning rise	-4249 Feb 07 j 18:51	1°♑41'24	
retrograde	-4249 May 26 j 10:41	10°♑00'53	
opposition	-4249 Aug 03 j 08:34	6°♑30'54	-1°49'10
min. Earth dist.	-4249 Aug 03 j 10:52	6°♑30'26	8.10118 AU
direct	-4249 Oct 08 j 20:08	3°♑06'05	
evening set	-4248 Jan 18 j 03:18	11°♑04'24	
conjunction	-4248 Feb 04 j 15:50	13°♑21'20	-1°40'21
minimum elong	-4248 Feb 04 j 15:46	13°♑21'19	1°40'33
max. Earth dist.	-4248 Feb 04 j 15:39	13°♑21'16	10.04006 AU
morning rise	-4248 Feb 22 j 09:24	15°♑39'58	
retrograde	-4248 Jun 09 j 10:49	24°♑09'30	
opposition	-4248 Aug 16 j 18:20	20°♑38'18	-2°20'34
min. Earth dist.	-4248 Aug 16 j 16:28	20°♑38'41	7.98631 AU
direct	-4248 Oct 21 j 20:08	17°♑12'02	
evening set	-4247 Jan 31 j 22:58	25°♑20'54	
conjunction	-4247 Feb 18 j 15:18	27°♑40'29	-2°02'20
minimum elong	-4247 Feb 18 j 15:15	27°♑40'28	2°02'30
max. Earth dist.	-4247 Feb 18 j 20:00	27°♑42'03	9.93835 AU
morning rise	-4247 Mar 08 j 12:10	0°♒01'37	
	-4247 Mar 08 j 07:11	0°♒	
retrograde	-4247 Jun 24 j 16:05	8°♒38'20	
opposition	-4247 Aug 31 j 09:35	5°♒06'21	-2°43'55
min. Earth dist.	-4247 Aug 31 j 03:52	5°♒07'32	7.90116 AU
direct	-4247 Nov 05 j 05:33	1°♒38'43	
evening set	-4246 Feb 16 j 05:26	9°♒56'28	
conjunction	-4246 Mar 06 j 01:17	12°♒18'09	-2°16'56
minimum elong	-4246 Mar 06 j 01:16	12°♒18'08	2°17'04
max. Earth dist.	-4246 Mar 06 j 10:33	12°♒21'14	9.86969 AU
morning rise	-4246 Mar 24 j 00:58	14°♒41'04	
	-4246 Mar 26 j 11:08	15°♒	
retrograde	-4246 Jul 09 j 22:43	23°♒21'10	
opposition	-4246 Sep 15 j 04:04	19°♒48'53	-2°56'59
min. Earth dist.	-4246 Sep 14 j 19:12	19°♒50'44	7.85149 AU
direct	-4246 Nov 19 j 22:01	16°♒20'03	
evening set	-4245 Mar 03 j 19:42	24°♒44'11	
conjunction	-4245 Mar 21 j 18:41	27°♒07'12	-2°22'45
minimum elong	-4245 Mar 21 j 18:41	27°♒07'12	2°22'51
max. Earth dist.	-4245 Mar 22 j 07:43	27°♒11'33	9.83891 AU
morning rise	-4245 Apr 08 j 20:30	29°♒31'06	
	-4245 Apr 12 j 13:20	0°♓	
retrograde	-4245 Jul 25 j 03:50	8°♓10'11	
opposition	-4245 Sep 29 j 23:07	4°♓38'08	-2°58'21
min. Earth dist.	-4245 Sep 29 j 12:01	4°♓40'28	7.84081 AU
direct	-4245 Dec 04 j 19:51	1°♓08'22	
evening set	-4244 Mar 18 j 13:34	9°♓35'40	
conjunction	-4244 Apr 05 j 15:07	11°♓59'10	-2°19'08
minimum elong	-4244 Apr 05 j 15:09	11°♓59'11	2°19'12
max. Earth dist.	-4244 Apr 06 j 06:59	12°♓04'28	9.84835 AU
morning rise	-4244 Apr 23 j 18:18	14°♓23'07	
retrograde	-4244 Aug 08 j 04:06	22°♓56'54	
opposition	-4244 Oct 13 j 16:22	19°♓25'36	-2°47'51
min. Earth dist.	-4244 Oct 13 j 03:41	19°♓28'16	7.86999 AU
direct	-4244 Dec 18 j 20:24	15°♓55'16	
evening set	-4243 Apr 03 j 06:31	24°♓22'08	
conjunction	-4243 Apr 21 j 09:52	26°♓45'13	-2°06'25
minimum elong	-4243 Apr 21 j 09:56	26°♓45'15	2°06'26
max. Earth dist.	-4243 Apr 22 j 03:43	26°♓51'08	9.89739 AU
morning rise	-4243 May 09 j 13:31	29°♓08'18	
	-4243 May 16 j 06:45	0°♈	

Attention, astronomical year style is used: The year -4243 in astronomical counting style is the year 4244 BCE in historical counting style.

retrograde	-4243 Aug 22 j 20:33	7°♈33'02	
opposition	-4243 Oct 28 j 05:10	4°♈02'56	-2°26'29
min. Earth dist.	-4243 Oct 27 j 15:21	4°♈05'50	7.93697 AU
direct	-4242 Jan 02 j 20:57	0°♈32'25	
evening set	-4242 Apr 18 j 18:58	8°♈55'34	
conjunction	-4242 May 06 j 23:04	11°♈17'20	-1°45'47
minimum elong	-4242 May 06 j 23:08	11°♈17'21	1°45'46
max. Earth dist.	-4242 May 07 j 17:47	11°♈23'28	9.98243 AU
morning rise	-4242 May 25 j 02:00	13°♈38'37	
retrograde	-4242 Sep 06 j 02:43	21°♈51'34	
opposition	-4242 Nov 11 j 11:28	18°♈23'03	-1°56'20
min. Earth dist.	-4242 Nov 10 j 21:03	18°♈26'03	8.03703 AU
direct	-4241 Jan 17 j 18:38	14°♈52'46	
evening set	-4241 May 03 j 23:22	23°♈09'23	
conjunction	-4241 May 22 j 02:52	25°♈29'00	-1°19'05
minimum elong	-4241 May 22 j 02:56	25°♈29'02	1°19'01
max. Earth dist.	-4241 May 22 j 21:32	25°♈35'02	10.09749 AU
morning rise	-4241 Jun 09 j 03:48	27°♈47'44	
	-4241 Jun 27 j 03:52	0°♉	
retrograde	-4241 Sep 19 j 21:45	5°♉47'24	
opposition	-4241 Nov 25 j 10:09	2°♉20'43	-1°20'03
min. Earth dist.	-4241 Nov 24 j 19:42	2°♉23'41	8.16355 AU
	-4241 Dec 26 j 22:30	30°℞♈	
direct	-4240 Feb 01 j 09:34	28°♈51'04	
	-4240 Mar 08 j 16:22	0°♉	
evening set	-4240 May 17 j 17:01	6°♉59'02	
conjunction	-4240 Jun 04 j 18:33	9°♉15'52	-0°48'27
minimum elong	-4240 Jun 04 j 18:35	9°♉15'53	0°48'20
max. Earth dist.	-4240 Jun 05 j 12:25	9°♉21'33	10.23503 AU
morning rise	-4240 Jun 22 j 16:17	11°♉31'27	
	-4240 Jul 22 j 10:08	15°♉	
retrograde	-4240 Oct 02 j 06:54	19°♉17'26	
min. Earth dist.	-4240 Dec 07 j 10:57	15°♉55'26	8.30861 AU
opposition	-4240 Dec 08 j 00:22	15°♉52'44	-0°40'26
	-4240 Dec 19 j 00:38	15°℞♉	
direct	-4239 Feb 14 j 16:04	12°♉23'59	
	-4239 Apr 12 j 02:16	15°♉	
evening set	-4239 May 31 j 22:50	20°♉22'08	
conjunction	-4239 Jun 18 j 21:05	22°♉35'42	-0°16'04
minimum elong	-4239 Jun 18 j 21:06	22°♉35'43	0°15'55
max. Earth dist.	-4239 Jun 19 j 13:06	22°♉40'42	10.38663 AU
morning rise	-4239 Jul 06 j 14:37	24°♉47'49	
	-4239 Aug 24 j 03:51	0°♊	
retrograde	-4239 Oct 15 j 05:42	2°♊20'33	
	-4239 Dec 08 j 00:01	30°℞♉	
opposition	-4239 Dec 21 j 05:52	28°♉57'50	-0°00'06
min. Earth dist.	-4239 Dec 20 j 18:48	29°♉00'02	8.46381 AU
asc. node	-4239 Dec 22 j 05:39	28°♉53'07	
direct	-4238 Feb 28 j 13:27	25°♉30'13	
	-4238 May 16 j 14:04	0°♊	
evening set	-4238 Jun 14 j 16:09	3°♊18'04	
conjunction	-4238 Jul 02 j 09:59	5°♊28'09	0°16'15
minimum elong	-4238 Jul 02 j 09:58	5°♊28'09	0°16'25
max. Earth dist.	-4238 Jul 02 j 22:36	5°♊32'01	10.54376 AU
morning rise	-4238 Jul 19 j 22:39	7°♊36'40	
retrograde	-4238 Oct 27 j 16:48	14°♊57'18	
opposition	-4237 Jan 03 j 03:14	11°♊36'29	0°38'46
min. Earth dist.	-4237 Jan 02 j 18:59	11°♊38'06	8.62083 AU
direct	-4237 Mar 14 j 03:13	8°♊10'08	
evening set	-4237 Jun 27 j 20:48	15°♊47'47	
conjunction	-4237 Jul 15 j 09:29	17°♊54'20	0°46'45
minimum elong	-4237 Jul 15 j 09:27	17°♊54'20	0°46'55
max. Earth dist.	-4237 Jul 15 j 17:57	17°♊56'54	10.69840 AU
morning rise	-4237 Aug 01 j 16:59	19°♊59'18	
retrograde	-4237 Nov 08 j 19:29	27°♊09'27	
opposition	-4236 Jan 15 j 16:55	23°♊50'19	1°14'28
min. Earth dist.	-4236 Jan 15 j 11:18	23°♊51'24	8.77185 AU
direct	-4236 Mar 26 j 07:32	20°♊25'18	
evening set	-4236 Jul 09 j 13:35	27°♊53'19	
conjunction	-4236 Jul 26 j 20:57	29°♊56'32	1°14'17
minimum elong	-4236 Jul 26 j 20:54	29°♊56'31	1°14'28
max. Earth dist.	-4236 Jul 27 j 01:20	29°♊57'50	10.84317 AU
	-4236 Jul 27 j 08:34	0°♋	
morning rise	-4236 Aug 12 j 23:12	1°♋58'12	
retrograde	-4236 Nov 19 j 15:20	8°♋59'38	
opposition	-4235 Jan 26 j 23:40	5°♋41'54	1°45'48
min. Earth dist.	-4235 Jan 26 j 20:32	5°♋42'30	8.90968 AU
direct	-4235 Apr 08 j 01:59	2°♋18'13	
evening set	-4235 Jul 21 j 19:35	9°♋37'33	
conjunction	-4235 Aug 07 j 21:49	11°♋37'47	1°37'59
minimum elong	-4235 Aug 07 j 21:46	11°♋37'46	1°38'11
max. Earth dist.	-4235 Aug 07 j 22:57	11°♋38'07	10.97134 AU
morning rise	-4235 Aug 24 j 18:58	13°♋36'34	
retrograde	-4235 Dec 01 j 06:14	20°♋31'15	
opposition	-4234 Feb 08 j 01:04	17°♋14'40	2°11'55
min. Earth dist.	-4234 Feb 08 j 01:15	17°♋14'38	9.02807 AU
direct	-4234 Apr 20 j 12:31	13°♋52'15	
evening set	-4234 Aug 02 j 16:20	21°♋04'08	
conjunction	-4234 Aug 19 j 13:38	23°♋01'49	1°57'14
minimum elong	-4234 Aug 19 j 13:35	23°♋01'48	1°57'25
max. Earth dist.	-4234 Aug 19 j 11:05	23°♋01'04	11.07758 AU
morning rise	-4234 Sep 05 j 06:13	24°♋58'12	
	-4234 Oct 26 j 14:27	0°♌	
retrograde	-4234 Dec 12 j 16:56	1°♌48'08	
	-4233 Jan 30 j 11:50	30°℞♋	
opposition	-4233 Feb 19 j 22:22	28°♋32'23	2°32'19
min. Earth dist.	-4233 Feb 20 j 02:23	28°♋31'38	9.12276 AU
direct	-4233 May 02 j 14:40	25°♋11'10	
	-4233 Jul 24 j 07:25	0°♌	
evening set	-4233 Aug 14 j 05:25	2°♌16'53	
conjunction	-4233 Aug 30 j 22:17	4°♌12'32	2°11'38
minimum elong	-4233 Aug 30 j 22:15	4°♌12'31	2°11'48
max. Earth dist.	-4233 Aug 30 j 15:24	4°♌10'32	11.15881 AU
morning rise	-4233 Sep 16 j 11:17	6°♌07'06	
retrograde	-4233 Dec 23 j 23:36	12°♌54'09	
opposition	-4232 Mar 02 j 16:39	9°♌38'52	2°46'38
min. Earth dist.	-4232 Mar 02 j 23:48	9°♌37'33	9.19129 AU
direct	-4232 May 13 j 12:32	6°♌18'38	
evening set	-4232 Aug 24 j 12:14	13°♌19'31	
	-4232 Sep 08 j 02:22	15°♌	
conjunction	-4232 Sep 10 j 01:37	15°♌13'40	2°20'56
minimum elong	-4232 Sep 10 j 01:36	15°♌13'40	2°21'04
max. Earth dist.	-4232 Sep 09 j 15:33	15°♌10'46	11.21311 AU
morning rise	-4232 Sep 26 j 11:54	17°♌06'59	
retrograde	-4231 Jan 03 j 08:00	23°♌52'58	
opposition	-4231 Mar 14 j 09:10	20°♌37'45	2°54'44
min. Earth dist.	-4231 Mar 14 j 18:18	20°♌36'06	9.23180 AU
direct	-4231 May 25 j 07:03	17°♌18'21	
evening set	-4231 Sep 04 j 14:33	24°♌15'40	
conjunction	-4231 Sep 21 j 01:27	26°♌08'56	2°25'01
minimum elong	-4231 Sep 21 j 01:27	26°♌08'56	2°25'08
max. Earth dist.	-4231 Sep 20 j 13:37	26°♌05'31	11.23899 AU

Attention, astronomical year style is used: The year -4231 in astronomical counting style is the year 4232 BCE in historical counting style.

morning rise	-4231 Oct 07 j 09:47	28°♌01'33		
	-4231 Oct 25 j 11:26	0°♍		
retrograde	-4230 Jan 14 j 15:37	4°♍48'11		
opposition	-4230 Mar 26 j 01:16	1°♍32'43	2°56'30	
min. Earth dist.	-4230 Mar 26 j 12:13	1°♍30'43	9.24331 AU	
	-4230 Apr 17 j 03:12	30°℞♌		
direct	-4230 Jun 05 j 19:52	28°♌13'55		
	-4230 Jul 23 j 22:02	0°♍		
evening set	-4230 Sep 15 j 14:09	5°♍09'02		
conjunction	-4230 Oct 01 j 23:26	7°♍01'58	2°23'51	
minimum elong	-4230 Oct 01 j 23:27	7°♍01'58	2°23'56	
max. Earth dist.	-4230 Oct 01 j 09:33	6°♍57'57	11.23596 AU	
morning rise	-4230 Oct 18 j 06:59	8°♍54'31		
retrograde	-4229 Jan 26 j 02:30	15°♍43'29		
opposition	-4229 Apr 06 j 18:21	12°♍27'26	2°51'57	
min. Earth dist.	-4229 Apr 07 j 07:39	12°♍25'01	9.22578 AU	
direct	-4229 Jun 17 j 08:05	9°♍09'00		
evening set	-4229 Sep 26 j 12:39	16°♍03'19		
conjunction	-4229 Oct 12 j 21:13	17°♍56'31	2°17'27	
minimum elong	-4229 Oct 12 j 21:15	17°♍56'32	2°17'31	
max. Earth dist.	-4229 Oct 12 j 04:55	17°♍51'47	11.20437 AU	
morning rise	-4229 Oct 29 j 05:13	19°♍49'37		
retrograde	-4228 Feb 06 j 14:47	26°♍42'36		
opposition	-4228 Apr 17 j 13:19	23°♍25'39	2°41'11	
min. Earth dist.	-4228 Apr 18 j 04:14	23°♍22'56	9.17987 AU	
direct	-4228 Jun 27 j 18:55	20°♍07'22		
evening set	-4228 Oct 06 j 12:01	27°♍02'23		
conjunction	-4228 Oct 22 j 20:59	28°♍56'25	2°05'58	
minimum elong	-4228 Oct 22 j 21:02	28°♍56'26	2°05'59	
max. Earth dist.	-4228 Oct 22 j 03:53	28°♍51'25	11.14517 AU	
	-4228 Oct 31 j 22:48	0°♎		
morning rise	-4228 Nov 08 j 06:17	0°♎50'37		
retrograde	-4227 Feb 17 j 10:04	7°♎49'19		
opposition	-4227 Apr 29 j 11:20	4°♎31'12	2°24'19	
min. Earth dist.	-4227 Apr 30 j 02:27	4°♎28'26	9.10696 AU	
direct	-4227 Jul 09 j 09:05	1°♎12'51		
evening set	-4227 Oct 17 j 14:05	8°♎10'04		
max. Earth dist.	-4227 Nov 02 j 07:44	10°♎00'36	11.06017 AU	
conjunction	-4227 Nov 03 j 00:28	10°♎05'32	1°49'35	
minimum elong	-4227 Nov 03 j 00:31	10°♎05'33	1°49'33	
morning rise	-4227 Nov 19 j 11:52	12°♎01'25		
retrograde	-4226 Mar 01 j 13:07	19°♎07'25		
opposition	-4226 May 11 j 14:01	15°♎47'57	2°01'38	
min. Earth dist.	-4226 May 12 j 04:36	15°♎45'15	9.00943 AU	
direct	-4226 Jul 20 j 23:29	12°♎29'23		
evening set	-4226 Oct 28 j 20:50	19°♎30'19		
conjunction	-4226 Nov 14 j 09:18	21°♎27'42	1°28'37	
minimum elong	-4226 Nov 14 j 09:21	21°♎27'43	1°28'32	
max. Earth dist.	-4226 Nov 13 j 16:15	21°♎22'37	10.95217 AU	
morning rise	-4226 Nov 30 j 23:48	23°♎25'49		
	-4225 Feb 12 j 22:10	0°♏		
retrograde	-4225 Mar 13 j 22:18	0°♏40'43		
	-4225 Apr 12 j 08:05	30°℞♎		
opposition	-4225 May 23 j 22:25	27°♎19'42	1°33'34	
min. Earth dist.	-4225 May 24 j 12:49	27°♎17'00	8.89057 AU	
direct	-4225 Aug 01 j 17:01	24°♎00'40		
	-4225 Oct 30 j 20:02	0°♏		
evening set	-4225 Nov 09 j 10:27	1°♏06'58		
max. Earth dist.	-4225 Nov 25 j 08:41	3°♏01'38	10.82486 AU	
conjunction	-4225 Nov 26 j 01:41	3°♏06'46	1°03'33	
minimum elong	-4225 Nov 26 j 01:43	3°♏06'47	1°03'27	

morning rise	-4225 Dec 12 j 20:02	5°♏07'34		
retrograde	-4224 Mar 25 j 17:14	12°♏32'46		
opposition	-4224 Jun 04 j 13:17	9°♏10'06	1°00'44	
min. Earth dist.	-4224 Jun 05 j 03:07	9°♏07'29	8.75469 AU	
direct	-4224 Aug 12 j 17:55	5°♏50'23		
evening set	-4224 Nov 20 j 08:41	13°♏03'38		
	-4224 Dec 06 j 06:59	15°♏		
conjunction	-4224 Dec 07 j 03:21	15°♏06'15	0°35'06	
minimum elong	-4224 Dec 07 j 03:23	15°♏06'15	0°34'59	
max. Earth dist.	-4224 Dec 06 j 12:09	15°♏01'35	10.68289 AU	
morning rise	-4224 Dec 24 j 01:54	17°♏10'07		
retrograde	-4223 Apr 07 j 22:08	24°♏46'53		
opposition	-4223 Jun 17 j 11:52	21°♏22'30	0°24'06	
min. Earth dist.	-4223 Jun 17 j 23:49	21°♏20'12	8.60712 AU	
direct	-4223 Aug 25 j 00:58	18°♏01'57		
evening set	-4223 Dec 02 j 17:23	25°♏23'36		
conjunction	-4223 Dec 19 j 15:56	27°♏29'20	0°04'17	
minimum elong	-4223 Dec 19 j 15:56	27°♏29'20	0°04'08	
behind sun begin	-4223 Dec 19 j 08:57	27°♏27'11		
behind sun end	-4223 Dec 19 j 22:55	27°♏31'29		
max. Earth dist.	-4223 Dec 19 j 03:47	27°♏25'34	10.53206 AU	
morning rise	-4222 Jan 05 j 18:51	29°♏36'32		
	-4222 Jan 09 j 00:08	0°♐		
desc. node	-4222 Feb 07 j 17:32	3°♐20'55		
retrograde	-4222 Apr 21 j 13:52	7°♐25'46		
opposition	-4222 Jun 30 j 18:42	3°♐59'38	-0°15'01	
min. Earth dist.	-4222 Jul 01 j 03:31	3°♐57'55	8.45434 AU	
direct	-4222 Sep 06 j 16:25	0°♐38'05		
evening set	-4222 Dec 15 j 14:35	8°♐09'27		
conjunction	-4221 Jan 01 j 17:09	10°♐18'30	-0°27'51	
minimum elong	-4221 Jan 01 j 17:08	10°♐18'30	0°28'00	
max. Earth dist.	-4221 Jan 01 j 08:03	10°♐15'38	10.37931 AU	
morning rise	-4221 Jan 19 j 00:34	12°♐29'10		
retrograde	-4221 May 05 j 17:29	20°♐31'08		
opposition	-4221 Jul 14 j 09:54	17°♐03'22	-0°54'50	
min. Earth dist.	-4221 Jul 14 j 15:29	17°♐02'16	8.30380 AU	
direct	-4221 Sep 19 j 15:52	13°♐40'41		
evening set	-4221 Dec 29 j 01:20	21°♐22'47		
conjunction	-4220 Jan 15 j 07:54	23°♐35'08	-0°59'24	
minimum elong	-4220 Jan 15 j 07:51	23°♐35'07	0°59'35	
max. Earth dist.	-4220 Jan 15 j 01:55	23°♐33'13	10.23250 AU	
morning rise	-4220 Feb 01 j 19:45	25°♐49'14		
	-4220 Mar 08 j 17:25	0°♑		
retrograde	-4220 May 19 j 06:47	4°♑03'29		
opposition	-4220 Jul 27 j 09:32	0°♑34'17	-1°33'06	
min. Earth dist.	-4220 Jul 27 j 11:56	0°♑33'49	8.16361 AU	
	-4220 Aug 03 j 13:14	30°℞♐		
direct	-4220 Oct 02 j 01:04	27°♐10'20		
	-4220 Nov 27 j 14:23	0°♑		
evening set	-4219 Jan 11 j 01:56	5°♑03'35		
conjunction	-4219 Jan 28 j 12:25	7°♑19'05	-1°28'33	
minimum elong	-4219 Jan 28 j 12:22	7°♑19'04	1°28'44	
max. Earth dist.	-4219 Jan 28 j 10:17	7°♑18'24	10.09995 AU	
morning rise	-4219 Feb 15 j 04:21	9°♑36'21		
retrograde	-4219 Jun 03 j 03:48	18°♑01'32		
opposition	-4219 Aug 10 j 16:47	14°♑31'10	-2°07'13	
min. Earth dist.	-4219 Aug 10 j 16:04	14°♑31'19	8.04209 AU	
direct	-4219 Oct 15 j 21:27	11°♑05'55		
evening set	-4218 Jan 25 j 16:07	19°♑10'00		
conjunction	-4218 Feb 12 j 06:30	21°♑28'19	-1°53'12	
minimum elong	-4218 Feb 12 j 06:26	21°♑28'18	1°53'23	

Attention, astronomical year style is used: The year -4218 in astronomical counting style is the year 4219 BCE in historical counting style.

max. Earth dist.	-4218 Feb 12 j 09:05	21°♓29'10	9.98993 AU
morning rise	-4218 Mar 02 j 02:01	23°♓48'18	
	-4218 Apr 26 j 16:51	0°♒	
retrograde	-4218 Jun 18 j 06:32	2°♒21'54	
	-4218 Aug 10 j 23:06	30°℞♓	
opposition	-4218 Aug 25 j 06:00	28°♓50'43	-2°34'27
min. Earth dist.	-4218 Aug 25 j 01:59	28°♓51'33	7.94697 AU
direct	-4218 Oct 30 j 03:52	25°♓24'11	
	-4217 Jan 11 j 03:35	0°♒	
evening set	-4217 Feb 09 j 18:12	3°♒37'49	
conjunction	-4217 Feb 27 j 12:20	5°♒58'28	-2°11'17
minimum elong	-4217 Feb 27 j 12:17	5°♒58'27	2°11'27
max. Earth dist.	-4217 Feb 27 j 19:44	6°♒00'55	9.90962 AU
morning rise	-4217 Mar 17 j 10:51	8°♒20'31	
	-4217 May 16 j 23:45	15°♒	
retrograde	-4217 Jul 03 j 12:07	16°♒59'05	
	-4217 Aug 20 j 18:32	15°℞♒	
opposition	-4217 Sep 08 j 23:22	13°♒27'28	-2°52'18
min. Earth dist.	-4217 Sep 08 j 16:01	13°♒29'00	7.88424 AU
direct	-4217 Nov 13 j 17:45	9°♒59'44	
	-4216 Jan 29 j 06:26	15°♒	
evening set	-4216 Feb 25 j 05:17	18°♒20'44	
conjunction	-4216 Mar 14 j 02:46	20°♒43'01	-2°21'09
minimum elong	-4216 Mar 14 j 02:46	20°♒43'01	2°21'16
max. Earth dist.	-4216 Mar 14 j 14:32	20°♒46'56	9.86407 AU
morning rise	-4216 Apr 01 j 03:37	23°♒06'22	
	-4216 Jun 03 j 09:24	0°♓	
retrograde	-4216 Jul 17 j 18:01	1°♓45'47	
	-4216 Aug 31 j 16:13	30°℞♒	
opposition	-4216 Sep 22 j 18:18	28°♒14'11	-2°58'58
min. Earth dist.	-4216 Sep 22 j 08:05	28°♒16'19	7.85743 AU
direct	-4216 Nov 27 j 13:22	24°♒45'26	
	-4215 Feb 14 j 08:38	0°♓	
evening set	-4215 Mar 11 j 21:41	3°♓10'58	
conjunction	-4215 Mar 29 j 22:08	5°♓34'08	-2°21'46
minimum elong	-4215 Mar 29 j 22:09	5°♓34'08	2°21'51
max. Earth dist.	-4215 Mar 30 j 13:14	5°♓39'10	9.85562 AU
morning rise	-4215 Apr 17 j 00:38	7°♓57'57	
retrograde	-4215 Aug 01 j 21:11	16°♓34'04	
opposition	-4215 Oct 07 j 12:23	13°♓02'58	-2°53'43
min. Earth dist.	-4215 Oct 07 j 00:05	13°♓05'32	7.86751 AU
direct	-4215 Dec 12 j 12:30	9°♓33'28	
evening set	-4214 Mar 27 j 15:29	18°♓00'24	
conjunction	-4214 Apr 14 j 18:14	20°♓23'38	-2°13'02
minimum elong	-4214 Apr 14 j 18:17	20°♓23'39	2°13'04
max. Earth dist.	-4214 Apr 15 j 11:36	20°♓29'24	9.88446 AU
morning rise	-4214 May 02 j 21:36	22°♓47'03	
	-4214 Jul 10 j 15:31	0°♈	
retrograde	-4214 Aug 16 j 18:13	1°♈16'01	
	-4214 Sep 23 j 02:44	30°℞♓	
opposition	-4214 Oct 22 j 03:25	27°♓45'53	-2°37'03
min. Earth dist.	-4214 Oct 21 j 13:57	27°♓48'42	7.91416 AU
direct	-4214 Dec 27 j 12:51	24°♓16'00	
	-4213 Mar 21 j 15:46	0°♈	
evening set	-4213 Apr 12 j 06:42	2°♈41'00	
conjunction	-4213 Apr 30 j 10:39	5°♈03'23	-1°55'45
minimum elong	-4213 Apr 30 j 10:43	5°♈03'24	1°55'44
max. Earth dist.	-4213 May 01 j 05:07	5°♈09'27	9.94944 AU
morning rise	-4213 May 18 j 13:50	7°♈25'30	
retrograde	-4213 Aug 31 j 06:10	15°♈44'05	
opposition	-4213 Nov 05 j 13:07	12°♈15'17	-2°10'33
min. Earth dist.	-4213 Nov 04 j 23:26	12°♈18'08	7.99526 AU
direct	-4212 Jan 11 j 11:48	8°♈45'19	
evening set	-4212 Apr 26 j 15:25	17°♈05'15	
conjunction	-4212 May 14 j 19:20	19°♈25'56	-1°31'30
minimum elong	-4212 May 14 j 19:24	19°♈25'57	1°31'27
max. Earth dist.	-4212 May 15 j 13:39	19°♈31'53	10.04693 AU
morning rise	-4212 Jun 01 j 21:12	21°♈45'54	
retrograde	-4212 Sep 13 j 06:48	29°♈51'56	
opposition	-4212 Nov 18 j 15:48	26°♈24'45	-1°36'40
min. Earth dist.	-4212 Nov 18 j 02:38	26°♈27'28	8.10595 AU
direct	-4211 Jan 25 j 06:03	22°♈55'02	
	-4211 May 02 j 12:43	0°♉	
evening set	-4211 May 11 j 14:33	1°♉07'22	
conjunction	-4211 May 29 j 17:06	3°♉25'36	-1°02'20
minimum elong	-4211 May 29 j 17:09	3°♉25'37	1°02'15
max. Earth dist.	-4211 May 30 j 10:02	3°♉31'01	10.17057 AU
morning rise	-4211 Jun 16 j 16:29	5°♉42'44	
retrograde	-4211 Sep 26 j 20:30	13°♉35'14	
opposition	-4211 Dec 02 j 10:16	10°♉09'48	-0°58'12
min. Earth dist.	-4211 Dec 01 j 22:06	10°♉12'16	8.23906 AU
direct	-4210 Feb 08 j 17:41	6°♉40'38	
evening set	-4210 May 26 j 02:22	14°♉43'44	
	-4210 May 28 j 06:58	15°♉	
conjunction	-4210 Jun 13 j 02:10	16°♉58'55	-0°30'28
minimum elong	-4210 Jun 13 j 02:11	16°♉58'56	0°30'20
max. Earth dist.	-4210 Jun 13 j 16:48	17°♉03'32	10.31238 AU
morning rise	-4210 Jun 30 j 21:54	19°♉12'45	
retrograde	-4210 Oct 09 j 22:54	26°♉51'45	
opposition	-4210 Dec 15 j 19:57	23°♉28'06	-0°17'53
min. Earth dist.	-4210 Dec 15 j 08:49	23°♉30'20	8.38642 AU
direct	-4209 Feb 22 j 21:05	19°♉59'48	
asc. node	-4209 Jun 02 j 06:34	27°♉03'49	
evening set	-4209 Jun 09 j 01:35	27°♉52'46	
conjunction	-4209 Jun 26 j 21:30	0°♊04'34	0°02'09
minimum elong	-4209 Jun 26 j 21:32	0°♊04'34	0°02'19
behind sun begin	-4209 Jun 26 j 14:17	0°♊02'21	
behind sun end	-4209 Jun 27 j 04:46	0°♊06'47	
	-4209 Jun 26 j 06:46	0°♊	
max. Earth dist.	-4209 Jun 27 j 09:53	0°♊08'23	10.46401 AU
morning rise	-4209 Jul 14 j 12:40	2°♊14'51	
retrograde	-4209 Oct 22 j 14:39	9°♊41'13	
opposition	-4209 Dec 28 j 21:10	6°♊19'19	0°21'54
min. Earth dist.	-4209 Dec 28 j 11:34	6°♊21'12	8.53980 AU
direct	-4208 Mar 07 j 15:20	2°♊52'05	
evening set	-4208 Jun 21 j 11:50	10°♊34'42	
conjunction	-4208 Jul 09 j 03:08	12°♊43'00	0°33'35
minimum elong	-4208 Jul 09 j 03:06	12°♊42'59	0°33'45
max. Earth dist.	-4208 Jul 09 j 13:10	12°♊46'03	10.61730 AU
morning rise	-4208 Jul 26 j 13:05	14°♊49'41	
retrograde	-4208 Nov 02 j 22:44	22°♊04'50	
opposition	-4207 Jan 09 j 14:18	18°♊44'33	0°59'13
min. Earth dist.	-4207 Jan 09 j 07:15	18°♊45'56	8.69134 AU
direct	-4207 Mar 20 j 22:41	15°♊18'30	
evening set	-4207 Jul 04 j 10:02	22°♊51'12	
conjunction	-4207 Jul 21 j 20:05	24°♊56'04	1°02'34
minimum elong	-4207 Jul 21 j 20:03	24°♊56'04	1°02'45
max. Earth dist.	-4207 Jul 22 j 02:54	24°♊58'07	10.76483 AU
morning rise	-4207 Aug 08 j 00:40	26°♊59'21	
	-4207 Sep 04 j 03:24	0°♋	
retrograde	-4207 Nov 14 j 21:23	4°♋04'54	
opposition	-4206 Jan 22 j 00:10	0°♋46'05	1°32'37
min. Earth dist.	-4206 Jan 21 j 20:30	0°♋46'47	8.83412 AU

Attention, astronomical year style is used: The year -4206 in astronomical counting style is the year 4207 BCE in historical counting style.

	-4206 Feb 01 j 03:01	30°℞♊		
direct	-4206 Apr 02 j 20:38	27°♊21'17		
	-4206 May 31 j 18:58	0°♋		
evening set	-4206 Jul 16 j 20:57	4°♋44'50		
conjunction	-4206 Aug 03 j 01:31	6°♋46'32	1°28'04	
minimum elong	-4206 Aug 03 j 01:28	6°♋46'31	1°28'15	
max. Earth dist.	-4206 Aug 03 j 04:04	6°♋47'17	10.90034 AU	
morning rise	-4206 Aug 20 j 01:00	8°♋46'43		
retrograde	-4206 Nov 26 j 12:35	15°♋44'34		
opposition	-4205 Feb 03 j 04:01	12°♋26'59	2°01'09	
min. Earth dist.	-4205 Feb 03 j 03:09	12°♋27'09	8.96231 AU	
direct	-4205 Apr 15 j 11:40	9°♋03'27		
evening set	-4205 Jul 28 j 21:34	16°♋18'52		
conjunction	-4205 Aug 14 j 20:58	18°♋17'45	1°49'21	
minimum elong	-4205 Aug 14 j 20:55	18°♋17'44	1°49'32	
max. Earth dist.	-4205 Aug 14 j 19:51	18°♋17'25	11.01869 AU	
morning rise	-4205 Aug 31 j 15:46	20°♋15'17		
retrograde	-4205 Dec 08 j 00:56	27°♋07'20		
opposition	-4204 Feb 15 j 02:51	23°♋50'43	2°24'07	
min. Earth dist.	-4204 Feb 15 j 04:08	23°♋50'28	9.07104 AU	
direct	-4204 Apr 26 j 18:35	20°♋28'28		
evening set	-4204 Aug 08 j 13:38	27°♋36'54		
conjunction	-4204 Aug 25 j 08:33	29°♋33'28	2°05'55	
minimum elong	-4204 Aug 25 j 08:30	29°♋33'28	2°06'05	
max. Earth dist.	-4204 Aug 25 j 04:54	29°♋32'25	11.11559 AU	
	-4204 Aug 29 j 03:32	0°♌		
morning rise	-4204 Sep 10 j 23:10	1°♌28'51		
retrograde	-4204 Dec 18 j 09:27	8°♌16'57		
opposition	-4203 Feb 25 j 21:49	5°♌01'01	2°41'08	
min. Earth dist.	-4203 Feb 26 j 01:32	5°♌00'20	9.15646 AU	
direct	-4203 May 08 j 17:52	1°♌39'59		
evening set	-4203 Aug 19 j 22:49	8°♌42'45		
conjunction	-4203 Sep 05 j 13:51	10°♌37'31	2°17'29	
minimum elong	-4203 Sep 05 j 13:49	10°♌37'31	2°17'38	
max. Earth dist.	-4203 Sep 05 j 07:35	10°♌35'42	11.18775 AU	
morning rise	-4203 Sep 22 j 01:08	12°♌31'18		
	-4203 Oct 14 j 23:10	15°♌		
retrograde	-4203 Dec 29 j 17:25	19°♌17'17		
opposition	-4202 Mar 09 j 14:43	16°♌01'48	2°51'57	
min. Earth dist.	-4202 Mar 09 j 21:40	16°♌00'31	9.21579 AU	
	-4202 Mar 23 j 21:31	15°℞♌		
direct	-4202 May 20 j 12:06	12°♌41'49		
	-4202 Jul 14 j 22:04	15°♌		
evening set	-4202 Aug 31 j 02:40	19°♌40'14		
conjunction	-4202 Sep 16 j 14:30	21°♌33'46	2°23'52	
minimum elong	-4202 Sep 16 j 14:29	21°♌33'46	2°23'59	
max. Earth dist.	-4202 Sep 16 j 04:43	21°♌30'57	11.23294 AU	
morning rise	-4202 Oct 02 j 23:36	23°♌26'33		
	-4202 Dec 25 j 05:06	0°♍		
retrograde	-4201 Jan 09 j 22:49	0°♍12'13		
	-4201 Jan 25 j 21:33	30°℞♌		
opposition	-4201 Mar 21 j 06:33	26°♌56'49	2°56'28	
min. Earth dist.	-4201 Mar 21 j 16:08	26°♌55'04	9.24718 AU	
direct	-4201 Jun 01 j 02:05	23°♌37'43		
	-4201 Sep 06 j 04:24	0°♍		
evening set	-4201 Sep 11 j 02:54	0°♍33'11		
conjunction	-4201 Sep 27 j 12:38	2°♍26'04	2°25'00	
minimum elong	-4201 Sep 27 j 12:39	2°♍26'04	2°25'05	
max. Earth dist.	-4201 Sep 27 j 00:26	2°♍22'32	11.24982 AU	
morning rise	-4201 Oct 13 j 20:32	4°♍18'27		
retrograde	-4200 Jan 21 j 08:02	11°♍05'32		
opposition	-4200 Mar 31 j 22:21	7°♍49'54	2°54'40	
min. Earth dist.	-4200 Apr 01 j 09:21	7°♍47'54	9.24960 AU	
direct	-4200 Jun 11 j 15:48	4°♍31'30		
evening set	-4200 Sep 21 j 01:14	11°♍25'23		
conjunction	-4200 Oct 07 j 10:02	13°♍18'13	2°20'54	
minimum elong	-4200 Oct 07 j 10:04	13°♍18'14	2°20'58	
max. Earth dist.	-4200 Oct 06 j 20:52	13°♍14'24	11.23775 AU	
morning rise	-4200 Oct 23 j 17:37	15°♍10'48		
retrograde	-4199 Jan 31 j 20:16	22°♍00'58		
opposition	-4199 Apr 12 j 15:41	18°♍44'47	2°46'37	
min. Earth dist.	-4199 Apr 13 j 03:51	18°♍42'35	9.22282 AU	
direct	-4199 Jun 23 j 02:01	15°♍26'53		
evening set	-4199 Oct 01 j 23:34	22°♍20'36		
conjunction	-4199 Oct 18 j 08:14	24°♍13'58	2°11'39	
minimum elong	-4199 Oct 18 j 08:16	24°♍13'58	2°11'41	
max. Earth dist.	-4199 Oct 17 j 17:24	24°♍09'39	11.19696 AU	
morning rise	-4199 Nov 03 j 16:35	26°♍07'20		
	-4199 Dec 11 j 02:39	0°♎		
retrograde	-4198 Feb 12 j 12:32	3°♎02'16		
	-4198 Apr 21 j 02:59	30°℞♍		
opposition	-4198 Apr 24 j 11:48	29°♍45'16	2°32'26	
min. Earth dist.	-4198 Apr 25 j 01:33	29°♍42'45	9.16764 AU	
direct	-4198 Jul 04 j 13:03	26°♍27'33		
	-4198 Sep 11 j 04:49	0°♎		
evening set	-4198 Oct 12 j 23:49	3°♎22'36		
conjunction	-4198 Oct 29 j 09:12	5°♎17'04	1°57'26	
minimum elong	-4198 Oct 29 j 09:15	5°♎17'04	1°57'26	
max. Earth dist.	-4198 Oct 28 j 16:34	5°♎12'11	11.12870 AU	
morning rise	-4198 Nov 14 j 19:29	7°♎11'49		
retrograde	-4197 Feb 24 j 09:47	14°♎13'08		
opposition	-4197 May 06 j 11:44	10°♎54'59	2°12'22	
min. Earth dist.	-4197 May 07 j 02:42	10°♎52'14	9.08568 AU	
direct	-4197 Jul 16 j 01:59	7°♎37'12		
evening set	-4197 Oct 24 j 03:36	14°♎35'07		
conjunction	-4197 Nov 09 j 14:48	16°♎31'12	1°38'31	
minimum elong	-4197 Nov 09 j 14:51	16°♎31'13	1°38'28	
max. Earth dist.	-4197 Nov 08 j 21:55	16°♎26'12	11.03470 AU	
morning rise	-4197 Nov 26 j 03:45	18°♎27'53		
retrograde	-4196 Mar 07 j 14:14	25°♎37'12		
opposition	-4196 May 17 j 16:29	22°♎17'38	1°46'44	
min. Earth dist.	-4196 May 18 j 07:18	22°♎14'53	8.97894 AU	
direct	-4196 Jul 26 j 18:58	18°♎59'31		
evening set	-4196 Nov 03 j 13:04	26°♎01'54		
max. Earth dist.	-4196 Nov 19 j 10:30	27°♎55'16	10.91722 AU	
conjunction	-4196 Nov 20 j 02:52	28°♎00'10	1°15'20	
minimum elong	-4196 Nov 20 j 02:54	28°♎00'11	1°15'14	
morning rise	-4196 Dec 06 j 19:04	29°♎59'16		
	-4196 Dec 06 j 21:33	0°♏		
retrograde	-4195 Mar 20 j 05:48	7°♏18'10		
opposition	-4195 May 30 j 03:19	3°♏57'00	1°16'06	
min. Earth dist.	-4195 May 30 j 17:14	3°♏54'24	8.85043 AU	
direct	-4195 Aug 07 j 16:04	0°♏38'20		
evening set	-4195 Nov 15 j 06:19	7°♏46'51		
conjunction	-4195 Dec 01 j 23:12	9°♏47'45	0°48'25	
minimum elong	-4195 Dec 01 j 23:14	9°♏47'46	0°48'18	
max. Earth dist.	-4195 Dec 01 j 07:07	9°♏42'52	10.78019 AU	
morning rise	-4195 Dec 18 j 19:24	11°♏49'46		
	-4194 Jan 16 j 02:33	15°♏		
retrograde	-4194 Apr 02 j 05:12	19°♏19'40		
opposition	-4194 Jun 11 j 21:28	15°♏56'46	0°41'13	
min. Earth dist.	-4194 Jun 12 j 10:17	15°♏54'20	8.70519 AU	

Attention, astronomical year style is used: The year -4194 in astronomical counting style is the year 4195 BCE in historical counting style.

	-4194 Jun 24 j 13:03	15°℞♏		
direct	-4194 Aug 19 j 17:26	12°♏37'16		
	-4194 Oct 12 j 04:14	15°♏		
evening set	-4194 Nov 27 j 09:11	19°♏53'35		
conjunction	-4194 Dec 14 j 05:37	21°♏57'28	0°18'38	
minimum elong	-4194 Dec 14 j 05:38	21°♏57'28	0°18'30	
max. Earth dist.	-4194 Dec 13 j 14:09	21°♏52'43	10.62947 AU	
morning rise	-4194 Dec 31 j 06:20	24°♏02'44		
	-4193 Feb 28 j 01:12	0°♐		
retrograde	-4193 Apr 15 j 14:30	1°♐44'47		
	-4193 Jun 02 j 07:42	30°℞♏		
opposition	-4193 Jun 24 j 23:36	28°♏20'02	0°03'13	
min. Earth dist.	-4193 Jun 25 j 11:12	28°♏17'48	8.54992 AU	
desc. node	-4193 Jul 26 j 02:25	26°♏08'16		
direct	-4193 Sep 01 j 04:24	24°♏59'26		
	-4193 Nov 19 j 11:17	0°♐		
evening set	-4193 Dec 09 j 23:36	2°♐25'00		
conjunction	-4193 Dec 26 j 23:57	4°♐32'09	-0°12'59	
minimum elong	-4193 Dec 26 j 23:57	4°♐32'09	0°13'09	
behind sun begin	-4193 Dec 26 j 19:41	4°♐30'50		
behind sun end	-4193 Dec 27 j 04:12	4°♐33'28		
max. Earth dist.	-4193 Dec 26 j 10:57	4°♐28'05	10.47210 AU	
morning rise	-4192 Jan 13 j 05:13	6°♐40'53		
retrograde	-4192 Apr 28 j 11:04	14°♐35'40		
opposition	-4192 Jul 07 j 09:54	11°♐09'04	-0°36'21	
min. Earth dist.	-4192 Jul 07 j 19:11	11°♐07'15	8.39220 AU	
direct	-4192 Sep 12 j 23:51	7°♐47'11		
evening set	-4192 Dec 22 j 02:48	15°♐23'09		
conjunction	-4191 Jan 08 j 07:19	17°♐33'41	-0°44'51	
minimum elong	-4191 Jan 08 j 07:17	17°♐33'40	0°45'02	
max. Earth dist.	-4191 Jan 07 j 22:08	17°♐30'45	10.31593 AU	
morning rise	-4191 Jan 25 j 16:58	19°♐45'55		
retrograde	-4191 May 12 j 18:08	27°♐53'28		
opposition	-4191 Jul 21 j 04:47	24°♐25'06	-1°15'31	
min. Earth dist.	-4191 Jul 21 j 10:35	24°♐23'57	8.24023 AU	
direct	-4191 Sep 26 j 04:23	21°♐01'48		
evening set	-4190 Jan 04 j 19:43	28°♐48'55		
	-4190 Jan 14 j 02:10	0°♑		
conjunction	-4190 Jan 22 j 04:23	1°♑02'45	-1°15'18	
minimum elong	-4190 Jan 22 j 04:20	1°♑02'44	1°15'29	
max. Earth dist.	-4190 Jan 21 j 23:40	1°♑01'14	10.16938 AU	
morning rise	-4190 Feb 08 j 18:12	3°♑18'21		
retrograde	-4190 May 27 j 10:22	11°♑37'50		
opposition	-4190 Aug 04 j 07:39	8°♑07'54	-1°51'50	
min. Earth dist.	-4190 Aug 04 j 09:28	8°♑07'32	8.10241 AU	
direct	-4190 Oct 09 j 19:10	4°♑43'08		
evening set	-4189 Jan 19 j 02:47	12°♑41'31		
conjunction	-4189 Feb 05 j 15:24	14°♑58'28	-1°42'16	
minimum elong	-4189 Feb 05 j 15:20	14°♑58'27	1°42'27	
max. Earth dist.	-4189 Feb 05 j 14:57	14°♑58'19	10.04095 AU	
morning rise	-4189 Feb 23 j 09:02	17°♑17'05		
retrograde	-4189 Jun 11 j 10:23	25°♑46'37		
opposition	-4189 Aug 18 j 17:23	22°♑15'28	-2°22'37	
min. Earth dist.	-4189 Aug 18 j 15:28	22°♑15'52	7.98697 AU	
direct	-4189 Oct 23 j 19:07	18°♑49'12		
evening set	-4188 Feb 02 j 22:46	26°♑58'12		
conjunction	-4188 Feb 20 j 15:07	29°♑17'49	-2°03'41	
minimum elong	-4188 Feb 20 j 15:04	29°♑17'48	2°03'51	
max. Earth dist.	-4188 Feb 20 j 18:55	29°♑19'04	9.93875 AU	
	-4188 Feb 25 j 22:35	0°♒		
morning rise	-4188 Mar 09 j 12:07	1°♒38'57		

retrograde	-4188 Jun 25 j 15:37	10°♒15'37		
opposition	-4188 Sep 01 j 08:40	6°♒43'41	-2°45'12	
min. Earth dist.	-4188 Sep 01 j 03:30	6°♒44'45	7.90133 AU	
direct	-4188 Nov 06 j 03:42	3°♒16'01		
evening set	-4187 Feb 17 j 05:22	11°♒33'56		
conjunction	-4187 Mar 07 j 01:13	13°♒55'38	-2°17'38	
minimum elong	-4187 Mar 07 j 01:12	13°♒55'37	2°17'46	
max. Earth dist.	-4187 Mar 07 j 09:21	13°♒58'20	9.86969 AU	
	-4187 Mar 15 j 02:38	15°♒		
morning rise	-4187 Mar 25 j 01:03	16°♒18'35		
retrograde	-4187 Jul 10 j 22:48	24°♒58'35		
opposition	-4187 Sep 16 j 03:12	21°♒26'21	-2°57'24	
min. Earth dist.	-4187 Sep 15 j 19:12	21°♒28'02	7.85135 AU	
direct	-4187 Nov 20 j 20:45	17°♒57'27		
evening set	-4186 Mar 04 j 19:44	26°♒21'45		
conjunction	-4186 Mar 22 j 18:47	28°♒44'48	-2°22'43	
minimum elong	-4186 Mar 22 j 18:47	28°♒44'48	2°22'49	
max. Earth dist.	-4186 Mar 23 j 06:45	28°♒48'48	9.83870 AU	
	-4186 Apr 01 j 04:22	0°♓		
morning rise	-4186 Apr 09 j 20:48	1°♓08'45		
retrograde	-4186 Jul 26 j 03:52	9°♓47'41		
opposition	-4186 Sep 30 j 22:15	6°♓15'40	-2°57'52	
min. Earth dist.	-4186 Sep 30 j 11:56	6°♓17'51	7.84050 AU	
direct	-4186 Dec 05 j 19:42	2°♓45'50		
evening set	-4185 Mar 20 j 13:42	11°♓13'17		
conjunction	-4185 Apr 07 j 15:24	13°♓36'49	-2°18'24	
minimum elong	-4185 Apr 07 j 15:27	13°♓36'50	2°18'27	
max. Earth dist.	-4185 Apr 08 j 06:32	13°♓41'52	9.84800 AU	
morning rise	-4185 Apr 25 j 18:46	16°♓00'49		
retrograde	-4185 Aug 10 j 03:21	24°♓34'24		
opposition	-4185 Oct 15 j 15:27	21°♓03'07	-2°46'29	
min. Earth dist.	-4185 Oct 15 j 03:06	21°♓05'43	7.86954 AU	
direct	-4185 Dec 20 j 21:04	17°♓32'43		
evening set	-4184 Apr 04 j 06:43	25°♓59'43		
conjunction	-4184 Apr 22 j 10:14	28°♓22'50	-2°05'01	
minimum elong	-4184 Apr 22 j 10:18	28°♓22'51	2°05'02	
max. Earth dist.	-4184 Apr 23 j 03:52	28°♓28'40	9.89690 AU	
	-4184 May 04 j 16:56	0°♈		
morning rise	-4184 May 10 j 13:55	0°♈45'55		
retrograde	-4184 Aug 23 j 18:56	9°♈10'28		
opposition	-4184 Oct 29 j 04:13	5°♈40'21	-2°24'22	
min. Earth dist.	-4184 Oct 28 j 14:09	5°♈43'18	7.93639 AU	
direct	-4183 Jan 03 j 21:34	2°♈09'47		
evening set	-4183 Apr 19 j 19:03	10°♈32'59		
conjunction	-4183 May 07 j 23:18	12°♈54'47	-1°43'49	
minimum elong	-4183 May 07 j 23:22	12°♈54'49	1°43'47	
max. Earth dist.	-4183 May 08 j 18:21	13°♈01'01	9.98187 AU	
morning rise	-4183 May 26 j 02:11	15°♈16'04		
retrograde	-4183 Sep 07 j 01:06	23°♈28'51		
opposition	-4183 Nov 12 j 10:30	20°♈00'19	-1°53'36	
min. Earth dist.	-4183 Nov 11 j 19:45	20°♈03'22	8.03641 AU	
direct	-4182 Jan 18 j 17:39	16°♈29'58		
evening set	-4182 May 04 j 23:22	24°♈46'36		
conjunction	-4182 May 23 j 02:59	27°♈06'16	-1°16'41	
minimum elong	-4182 May 23 j 03:03	27°♈06'17	1°16'37	
max. Earth dist.	-4182 May 23 j 22:08	27°♈12'27	10.09692 AU	
morning rise	-4182 Jun 10 j 03:48	29°♈24'59		
	-4182 Jun 14 j 19:28	0°♉		
retrograde	-4182 Sep 20 j 21:58	7°♉24'28		
opposition	-4182 Nov 26 j 09:12	3°♉57'46	-1°16'52	
min. Earth dist.	-4182 Nov 25 j 18:51	4°♉00'43	8.16290 AU	

Attention, astronomical year style is used: The year -4181 in astronomical counting style is the year 4182 BCE in historical counting style.

direct	-4181 Feb 02 j 07:46	0°♉28'03	
evening set	-4181 May 19 j 17:04	8°♉36'04	
conjunction	-4181 Jun 06 j 18:33	10°♉52'54	-0°45'46
minimum elong	-4181 Jun 06 j 18:35	10°♉52'55	0°45'39
max. Earth dist.	-4181 Jun 07 j 12:36	10°♉58'39	10.23442 AU
morning rise	-4181 Jun 24 j 16:05	13°♉08'28	
	-4181 Jul 10 j 00:20	15°♉	
retrograde	-4181 Oct 04 j 06:49	20°♉54'18	
opposition	-4181 Dec 09 j 23:29	17°♉29'36	-0°37'01
min. Earth dist.	-4181 Dec 09 j 10:45	17°♉32'10	8.30802 AU
	-4180 Jan 13 j 13:46	15°℞♉	
direct	-4180 Feb 16 j 15:06	14°♉00'47	
	-4180 Mar 21 j 15:16	15°♉	
evening set	-4180 Jun 01 j 22:47	21°♉59'00	
conjunction	-4180 Jun 19 j 20:47	24°♉12'33	-0°13'15
minimum elong	-4180 Jun 19 j 20:48	24°♉12'33	0°13'07
behind sun begin	-4180 Jun 19 j 16:35	24°♉11'15	
behind sun end	-4180 Jun 20 j 01:01	24°♉13'51	
max. Earth dist.	-4180 Jun 20 j 12:18	24°♉17'23	10.38609 AU
morning rise	-4180 Jul 07 j 14:11	26°♉24'38	
	-4180 Aug 08 j 00:26	0°♊	
retrograde	-4180 Oct 16 j 03:54	3°♊57'16	
asc. node	-4180 Nov 20 j 08:46	2°♊52'32	
opposition	-4180 Dec 22 j 05:05	0°♊34'35	0°03'23
min. Earth dist.	-4180 Dec 21 j 18:34	0°♊36'41	8.46343 AU
	-4180 Dec 29 j 11:53	30°℞♉	
direct	-4179 Mar 01 j 13:55	27°♉06'56	
	-4179 Apr 30 j 22:14	0°♊	
evening set	-4179 Jun 15 j 15:51	4°♊54'51	
conjunction	-4179 Jul 03 j 09:25	7°♊04'52	0°19'02
minimum elong	-4179 Jul 03 j 09:24	7°♊04'52	0°19'12
max. Earth dist.	-4179 Jul 03 j 21:12	7°♊08'29	10.54348 AU
morning rise	-4179 Jul 20 j 22:00	9°♊13'20	
retrograde	-4179 Oct 28 j 15:38	16°♊33'58	
opposition	-4178 Jan 04 j 02:26	13°♊13'10	0°42'07
min. Earth dist.	-4178 Jan 03 j 17:58	13°♊14'49	8.62074 AU
direct	-4178 Mar 15 j 03:07	9°♊46'49	
evening set	-4178 Jun 28 j 20:25	17°♊24'31	
conjunction	-4178 Jul 16 j 08:53	19°♊31'02	0°49'23
minimum elong	-4178 Jul 16 j 08:51	19°♊31'01	0°49'34
max. Earth dist.	-4178 Jul 16 j 17:13	19°♊33'33	10.69850 AU
morning rise	-4178 Aug 02 j 16:11	21°♊35'57	
retrograde	-4178 Nov 09 j 18:25	28°♊46'06	
opposition	-4177 Jan 16 j 16:09	25°♊26'59	1°17'34
min. Earth dist.	-4177 Jan 16 j 09:44	25°♊28'13	8.77219 AU
direct	-4177 Mar 28 j 07:00	22°♊02'02	
evening set	-4177 Jul 11 j 13:04	29°♊30'04	
	-4177 Jul 15 j 19:01	0°♋	
conjunction	-4177 Jul 28 j 20:15	1°♋33'14	1°16'39
minimum elong	-4177 Jul 28 j 20:13	1°♋33'13	1°16'51
max. Earth dist.	-4177 Jul 29 j 01:37	1°♋34'50	10.84388 AU
morning rise	-4177 Aug 14 j 22:09	3°♋34'50	
retrograde	-4177 Nov 21 j 14:46	10°♋36'20	
opposition	-4176 Jan 28 j 23:10	7°♋18'38	1°48'30
min. Earth dist.	-4176 Jan 28 j 19:39	7°♋19'18	8.91085 AU
direct	-4176 Apr 09 j 01:48	3°♋55'01	
evening set	-4176 Jul 22 j 18:51	11°♋14'17	
conjunction	-4176 Aug 08 j 20:49	13°♋14'26	1°39'59
minimum elong	-4176 Aug 08 j 20:46	13°♋14'25	1°40'11
max. Earth dist.	-4176 Aug 08 j 22:44	13°♋15'00	10.97309 AU
morning rise	-4176 Aug 25 j 17:38	15°♋13'08	
retrograde	-4176 Dec 02 j 06:08	22°♋07'49	
opposition	-4175 Feb 09 j 00:38	18°♋51'16	2°14'07
min. Earth dist.	-4175 Feb 09 j 01:00	18°♋51'12	9.03052 AU
direct	-4175 Apr 21 j 10:55	15°♋28'57	
evening set	-4175 Aug 03 j 15:26	22°♋40'39	
conjunction	-4175 Aug 20 j 12:22	24°♋38'14	1°58'48
minimum elong	-4175 Aug 20 j 12:19	24°♋38'14	1°58'59
max. Earth dist.	-4175 Aug 20 j 09:36	24°♋37'26	11.08059 AU
morning rise	-4175 Sep 06 j 04:49	26°♋34'33	
	-4175 Oct 08 j 11:55	0°♌	
retrograde	-4175 Dec 13 j 14:23	3°♌24'24	
opposition	-4174 Feb 20 j 21:45	0°♌08'41	2°33'56
min. Earth dist.	-4174 Feb 21 j 01:42	0°♌07'57	9.12634 AU
	-4174 Feb 22 j 20:39	30°℞♋	
direct	-4174 May 03 j 14:27	26°♋47'31	
	-4174 Jul 08 j 16:56	0°♌	
evening set	-4174 Aug 15 j 04:12	3°♌53'02	
conjunction	-4174 Aug 31 j 20:48	5°♌48'35	2°12'43
minimum elong	-4174 Aug 31 j 20:46	5°♌48'34	2°12'52
max. Earth dist.	-4174 Aug 31 j 14:00	5°♌46'36	11.16274 AU
morning rise	-4174 Sep 17 j 09:40	7°♌43'03	
retrograde	-4174 Dec 24 j 23:09	14°♌30'03	
opposition	-4173 Mar 04 j 15:57	11°♌14'47	2°47'38
min. Earth dist.	-4173 Mar 04 j 22:10	11°♌13'38	9.19547 AU
direct	-4173 May 15 j 13:11	7°♌54'40	
evening set	-4173 Aug 26 j 10:37	14°♌55'15	
	-4173 Aug 27 j 03:25	15°♌	
conjunction	-4173 Sep 11 j 23:55	16°♌49'20	2°21'30
minimum elong	-4173 Sep 11 j 23:53	16°♌49'19	2°21'38
max. Earth dist.	-4173 Sep 11 j 14:57	16°♌46'44	11.21746 AU
morning rise	-4173 Sep 28 j 09:57	18°♌42'32	
retrograde	-4172 Jan 05 j 06:26	25°♌28'27	
opposition	-4172 Mar 15 j 08:25	22°♌13'17	2°55'05
min. Earth dist.	-4172 Mar 15 j 16:54	22°♌11'44	9.23625 AU
direct	-4172 May 26 j 05:03	18°♌54'01	
evening set	-4172 Sep 05 j 12:47	25°♌51'00	
conjunction	-4172 Sep 21 j 23:34	27°♌44'11	2°25'03
minimum elong	-4172 Sep 21 j 23:34	27°♌44'11	2°25'09
max. Earth dist.	-4172 Sep 21 j 12:08	27°♌40'53	11.24350 AU
morning rise	-4172 Oct 08 j 07:47	29°♌36'44	
	-4172 Oct 11 j 18:28	0°♍	
retrograde	-4171 Jan 15 j 14:51	6°♍23'16	
opposition	-4171 Mar 27 j 00:22	3°♍07'52	2°56'13
min. Earth dist.	-4171 Mar 27 j 11:37	3°♍05'49	9.24783 AU
	-4171 May 22 j 13:53	30°℞♌	
direct	-4171 Jun 06 j 18:53	29°♌49'10	
	-4171 Jun 21 j 21:41	0°♍	
evening set	-4171 Sep 16 j 12:13	6°♍43'58	
conjunction	-4171 Oct 02 j 21:20	8°♍36'51	2°23'22
minimum elong	-4171 Oct 02 j 21:21	8°♍36'51	2°23'26
max. Earth dist.	-4171 Oct 02 j 06:53	8°♍32'40	11.24047 AU
morning rise	-4171 Oct 19 j 04:59	10°♍29'21	
retrograde	-4170 Jan 26 j 23:44	17°♍18'11	
opposition	-4170 Apr 07 j 17:17	14°♍02'12	2°51'03
min. Earth dist.	-4170 Apr 08 j 06:50	13°♍59'44	9.23018 AU
direct	-4170 Jun 18 j 06:19	10°♍43'52	
evening set	-4170 Sep 27 j 10:27	17°♍37'51	
conjunction	-4170 Oct 13 j 19:01	19°♍31'00	2°16'28
minimum elong	-4170 Oct 13 j 19:03	19°♍31'00	2°16'31
max. Earth dist.	-4170 Oct 13 j 03:05	19°♍26'22	11.20867 AU
morning rise	-4170 Oct 30 j 03:04	21°♍24'03	

Attention, astronomical year style is used: The year -4169 in astronomical counting style is the year 4170 BCE in historical counting style.

retrograde	-4169 Feb 07 j 13:23	28°♍16'57	
opposition	-4169 Apr 19 j 12:06	25°♍00'01	2°39'41
min. Earth dist.	-4169 Apr 20 j 02:22	24°♍57'24	9.18393 AU
direct	-4169 Jun 29 j 18:55	21°♍41'49	
evening set	-4169 Oct 08 j 09:33	28°♍36'28	
	-4169 Oct 20 j 10:21	0°♎	
conjunction	-4169 Oct 24 j 18:41	0°♎30'29	2°04'31
minimum elong	-4169 Oct 24 j 18:44	0°♎30'30	2°04'32
max. Earth dist.	-4169 Oct 24 j 02:30	0°♎25'45	11.14905 AU
morning rise	-4169 Nov 10 j 03:59	2°♎24'40	
retrograde	-4168 Feb 19 j 09:19	9°♎23'12	
opposition	-4168 Apr 30 j 09:55	6°♎05'06	2°22'17
min. Earth dist.	-4168 May 01 j 00:23	6°♎02'27	9.11055 AU
direct	-4168 Jul 10 j 06:54	2°♎46'51	
evening set	-4168 Oct 18 j 11:32	9°♎43'41	
conjunction	-4168 Nov 03 j 21:59	11°♎39'08	1°47'44
minimum elong	-4168 Nov 03 j 22:02	11°♎39'09	1°47'42
max. Earth dist.	-4168 Nov 03 j 05:04	11°♎34'08	11.06351 AU
morning rise	-4168 Nov 20 j 09:33	13°♎35'01	
retrograde	-4167 Mar 02 j 10:27	20°♎40'51	
opposition	-4167 May 12 j 12:25	17°♎21'22	1°59'09
min. Earth dist.	-4167 May 13 j 03:19	17°♎18'37	9.01240 AU
direct	-4167 Jul 21 j 20:44	14°♎02'50	
evening set	-4167 Oct 29 j 18:09	21°♎03'27	
conjunction	-4167 Nov 15 j 06:38	23°♎00'49	1°26'26
minimum elong	-4167 Nov 15 j 06:40	23°♎00'50	1°26'21
max. Earth dist.	-4167 Nov 14 j 12:59	22°♎55'34	10.95489 AU
morning rise	-4167 Dec 01 j 21:24	24°♎58'56	
	-4166 Jan 20 j 07:48	0°♏	
retrograde	-4166 Mar 14 j 20:13	2°♏13'41	
	-4166 May 09 j 12:10	30°℞♎	
opposition	-4166 May 24 j 20:36	28°♎52'39	1°30'43
min. Earth dist.	-4166 May 25 j 11:35	28°♎49'51	8.89289 AU
direct	-4166 Aug 02 j 15:47	25°♎33'37	
	-4166 Oct 17 j 15:21	0°♏	
evening set	-4166 Nov 10 j 07:33	2°♏39'37	
conjunction	-4166 Nov 26 j 22:57	4°♏39'24	1°01'08
minimum elong	-4166 Nov 26 j 22:59	4°♏39'25	1°01'02
max. Earth dist.	-4166 Nov 26 j 06:18	4°♏34'23	10.82687 AU
morning rise	-4166 Dec 13 j 17:28	6°♏40'13	
retrograde	-4165 Mar 27 j 14:14	14°♏05'19	
opposition	-4165 Jun 06 j 11:17	10°♏42'35	0°57'38
min. Earth dist.	-4165 Jun 07 j 01:01	10°♏40'00	8.75629 AU
direct	-4165 Aug 14 j 15:44	7°♏22'52	
evening set	-4165 Nov 22 j 05:41	14°♏35'52	
	-4165 Nov 25 j 13:54	15°♏	
max. Earth dist.	-4165 Dec 08 j 10:10	16°♏34'04	10.68406 AU
conjunction	-4165 Dec 09 j 00:37	16°♏38'29	0°32'32
minimum elong	-4165 Dec 09 j 00:38	16°♏38'30	0°32'24
morning rise	-4165 Dec 25 j 23:14	18°♏42'22	
retrograde	-4164 Apr 08 j 19:40	26°♏19'04	
opposition	-4164 Jun 18 j 09:34	22°♏54'35	0°20'52
min. Earth dist.	-4164 Jun 18 j 20:53	22°♏52'25	8.60786 AU
direct	-4164 Aug 25 j 23:09	19°♏34'01	
evening set	-4164 Dec 03 j 14:31	26°♏55'30	
conjunction	-4164 Dec 20 j 13:11	29°♏01'16	0°01'38
minimum elong	-4164 Dec 20 j 13:11	29°♏01'16	0°01'29
behind sun begin	-4164 Dec 20 j 06:05	28°♏59'05	
behind sun end	-4164 Dec 20 j 20:16	29°♏03'27	
max. Earth dist.	-4164 Dec 20 j 00:49	28°♏57'25	10.53228 AU
	-4164 Dec 28 j 09:54	0°♐	
morning rise	-4163 Jan 06 j 16:12	1°♐08'29	
desc. node	-4163 Jan 08 j 11:55	1°♐21'47	
retrograde	-4163 Apr 22 j 12:38	8°♐57'41	
opposition	-4163 Jul 01 j 16:11	5°♐31'29	-0°18'14
min. Earth dist.	-4163 Jul 02 j 00:51	5°♐29'48	8.45410 AU
direct	-4163 Sep 07 j 13:03	2°♐09'53	
evening set	-4163 Dec 16 j 11:48	9°♐41'12	
conjunction	-4162 Jan 02 j 14:21	11°♐50'15	-0°30'23
minimum elong	-4162 Jan 02 j 14:20	11°♐50'15	0°30'33
max. Earth dist.	-4162 Jan 02 j 04:19	11°♐47'05	10.37862 AU
morning rise	-4162 Jan 19 j 21:58	14°♐00'58	
retrograde	-4162 May 06 j 15:48	22°♐02'57	
opposition	-4162 Jul 15 j 07:23	18°♐35'08	-0°57'52
min. Earth dist.	-4162 Jul 15 j 13:30	18°♐33'56	8.30264 AU
direct	-4162 Sep 20 j 12:15	15°♐12'21	
evening set	-4162 Dec 29 j 22:36	22°♐54'32	
conjunction	-4161 Jan 16 j 05:12	25°♐06'55	-1°01'43
minimum elong	-4161 Jan 16 j 05:10	25°♐06'54	1°01'54
max. Earth dist.	-4161 Jan 15 j 22:26	25°♐04'45	10.23092 AU
morning rise	-4161 Feb 02 j 17:16	27°♐21'03	
	-4161 Feb 24 j 14:38	0°♑	
retrograde	-4161 May 21 j 03:35	5°♑35'25	
opposition	-4161 Jul 29 j 06:59	2°♑06'10	-1°35'48
min. Earth dist.	-4161 Jul 29 j 10:12	2°♑05'32	8.16158 AU
	-4161 Aug 26 j 12:58	30°℞♐	
direct	-4161 Oct 03 j 23:13	28°♐42'07	
	-4161 Nov 10 j 12:24	0°♑	
evening set	-4160 Jan 12 j 23:28	6°♑35'35	
conjunction	-4160 Jan 30 j 10:07	8°♑51'09	-1°30'32
minimum elong	-4160 Jan 30 j 10:03	8°♑51'08	1°30'43
max. Earth dist.	-4160 Jan 30 j 07:48	8°♑50'24	10.09751 AU
morning rise	-4160 Feb 17 j 02:08	11°♑08'27	
retrograde	-4160 Jun 04 j 00:15	19°♑33'48	
opposition	-4160 Aug 11 j 14:05	16°♑03'24	-2°09'25
min. Earth dist.	-4160 Aug 11 j 13:51	16°♑03'27	8.03929 AU
direct	-4160 Oct 16 j 19:34	12°♑38'05	
evening set	-4159 Jan 26 j 13:54	20°♑42'27	
conjunction	-4159 Feb 13 j 04:29	23°♑00'52	-1°54'43
minimum elong	-4159 Feb 13 j 04:26	23°♑00'51	1°54'54
max. Earth dist.	-4159 Feb 13 j 07:27	23°♑01'51	9.98679 AU
morning rise	-4159 Mar 02 j 23:59	25°♑20'54	
	-4159 Apr 11 j 06:14	0°♒	
retrograde	-4159 Jun 19 j 03:41	3°♒54'45	
opposition	-4159 Aug 26 j 03:24	0°♒23'32	-2°36'00
min. Earth dist.	-4159 Aug 25 j 23:12	0°♒24'24	7.94368 AU
	-4159 Aug 30 j 21:49	30°℞♑	
direct	-4159 Oct 31 j 00:54	26°♑56'57	
	-4159 Dec 28 j 07:09	0°♒	
evening set	-4158 Feb 10 j 16:16	5°♒10'58	
conjunction	-4158 Feb 28 j 10:35	7°♒31'43	-2°12'14
minimum elong	-4158 Feb 28 j 10:33	7°♒31'42	2°12'23
max. Earth dist.	-4158 Feb 28 j 18:36	7°♒34'22	9.90622 AU
morning rise	-4158 Mar 18 j 09:05	9°♒53'50	
	-4158 Apr 30 j 15:34	15°♒	
retrograde	-4158 Jul 04 j 10:46	18°♒32'41	
opposition	-4158 Sep 09 j 20:54	15°♒01'03	-2°53'04
min. Earth dist.	-4158 Sep 09 j 13:02	15°♒02'41	7.88100 AU
	-4158 Sep 10 j 01:57	15°℞♒	
direct	-4158 Nov 14 j 14:31	11°♒33'18	
	-4157 Jan 15 j 19:40	15°♒	
evening set	-4157 Feb 26 j 03:52	19°♒54'44	

Attention, astronomical year style is used: The year -4157 in astronomical counting style is the year 4158 BCE in historical counting style.

conjunction	-4157 Mar 16 j 01:32	22°♒17'06	-2°21'26
minimum elong	-4157 Mar 16 j 01:32	22°♒17'06	2°21'33
max. Earth dist.	-4157 Mar 16 j 13:49	22°♒21'12	9.86116 AU
morning rise	-4157 Apr 03 j 02:23	24°♒40'32	
	-4157 May 18 j 09:35	0°♓	
retrograde	-4157 Jul 19 j 17:35	3°♓20'07	
	-4157 Sep 22 j 09:14	30°℞♒	
opposition	-4157 Sep 24 j 15:59	29°♒48'32	-2°58'54
min. Earth dist.	-4157 Sep 24 j 05:22	29°♒50'46	7.85512 AU
direct	-4157 Nov 29 j 10:54	26°♒19'46	
	-4156 Feb 02 j 00:43	0°♓	
evening set	-4156 Mar 12 j 20:39	4°♓45'39	
conjunction	-4156 Mar 30 j 21:12	7°♓08'53	-2°21'22
minimum elong	-4156 Mar 30 j 21:13	7°♓08'53	2°21'27
max. Earth dist.	-4156 Mar 31 j 12:33	7°♓14'00	9.85411 AU
morning rise	-4156 Apr 17 j 23:44	9°♓32'44	
retrograde	-4156 Aug 02 j 20:08	18°♓08'48	
opposition	-4156 Oct 08 j 10:17	14°♓37'43	-2°52'48
min. Earth dist.	-4156 Oct 07 j 22:01	14°♓40'18	7.86683 AU
direct	-4156 Dec 13 j 10:39	11°♓08'12	
evening set	-4155 Mar 28 j 14:26	19°♓35'17	
conjunction	-4155 Apr 15 j 17:11	21°♓58'32	-2°11'58
minimum elong	-4155 Apr 15 j 17:14	21°♓58'33	2°12'00
max. Earth dist.	-4155 Apr 16 j 10:12	22°♓04'10	9.88452 AU
morning rise	-4155 May 03 j 20:39	24°♓21'57	
	-4155 Jun 21 j 20:25	0°♈	
retrograde	-4155 Aug 17 j 16:19	2°♈50'42	
	-4155 Oct 15 j 04:08	30°℞♓	
opposition	-4155 Oct 23 j 01:20	29°♓20'38	-2°35'19
min. Earth dist.	-4155 Oct 22 j 12:31	29°♓23'19	7.91472 AU
direct	-4155 Dec 28 j 11:10	25°♓50'42	
	-4154 Mar 08 j 13:57	0°♈	
evening set	-4154 Apr 13 j 05:35	4°♈15'45	
conjunction	-4154 May 01 j 09:33	6°♈38'09	-1°54'05
minimum elong	-4154 May 01 j 09:37	6°♈38'11	1°54'04
max. Earth dist.	-4154 May 02 j 03:01	6°♈43'54	9.95038 AU
morning rise	-4154 May 19 j 12:53	9°♈00'16	
retrograde	-4154 Sep 01 j 03:40	17°♈18'36	
opposition	-4154 Nov 06 j 10:57	13°♈49'53	-2°08'10
min. Earth dist.	-4154 Nov 05 j 22:00	13°♈52'35	7.99635 AU
direct	-4153 Jan 12 j 09:44	10°♈19'54	
evening set	-4153 Apr 28 j 14:16	18°♈39'52	
conjunction	-4153 May 16 j 18:10	21°♈00'34	-1°29'22
minimum elong	-4153 May 16 j 18:14	21°♈00'35	1°29'19
max. Earth dist.	-4153 May 17 j 11:24	21°♈06'09	10.04812 AU
morning rise	-4153 Jun 03 j 20:08	23°♈20'31	
	-4153 Aug 06 j 11:04	0°♉	
retrograde	-4153 Sep 15 j 04:57	1°♉26'20	
	-4153 Oct 25 j 10:23	30°℞♈	
opposition	-4153 Nov 20 j 13:41	27°♈59'14	-1°33'46
min. Earth dist.	-4153 Nov 20 j 00:44	28°♈01'54	8.10710 AU
direct	-4152 Jan 27 j 04:20	24°♈29'32	
	-4152 Apr 20 j 03:46	0°♉	
evening set	-4152 May 12 j 13:14	2°♉41'54	
conjunction	-4152 May 30 j 15:45	5°♉00'07	-0°59'52
minimum elong	-4152 May 30 j 15:48	5°♉00'08	0°59'46
max. Earth dist.	-4152 May 31 j 08:08	5°♉05'22	10.17173 AU
morning rise	-4152 Jun 17 j 15:08	7°♉17'15	
	-4152 Sep 14 j 16:38	15°♉	
retrograde	-4152 Sep 27 j 18:05	15°♉09'36	
	-4152 Oct 10 j 20:57	15°℞♉	
opposition	-4152 Dec 03 j 08:10	11°♉44'13	-0°54'59
min. Earth dist.	-4152 Dec 02 j 19:35	11°♉46'47	8.24014 AU
direct	-4151 Feb 09 j 16:46	8°♉15'08	
	-4151 May 16 j 07:08	15°♉	
evening set	-4151 May 27 j 00:56	16°♉18'15	
conjunction	-4151 Jun 14 j 00:44	18°♉33'24	-0°27'48
minimum elong	-4151 Jun 14 j 00:46	18°♉33'25	0°27'40
max. Earth dist.	-4151 Jun 14 j 15:37	18°♉38'06	10.31346 AU
morning rise	-4151 Jul 01 j 20:19	20°♉47'12	
retrograde	-4151 Oct 10 j 20:26	28°♉26'08	
opposition	-4151 Dec 16 j 17:54	25°♉02'33	-0°14'31
min. Earth dist.	-4151 Dec 16 j 06:24	25°♉04'51	8.38738 AU
direct	-4150 Feb 23 j 19:54	21°♉34'18	
asc. node	-4150 May 02 j 06:39	25°♉08'58	
evening set	-4150 Jun 10 j 00:11	29°♉27'18	
	-4150 Jun 14 j 11:25	0°♊	
conjunction	-4150 Jun 27 j 20:05	1°♊39'04	0°04'53
minimum elong	-4150 Jun 27 j 20:05	1°♊39'04	0°05'02
behind sun begin	-4150 Jun 27 j 13:03	1°♊36'55	
behind sun end	-4150 Jun 28 j 03:07	1°♊41'13	
max. Earth dist.	-4150 Jun 28 j 09:07	1°♊43'06	10.46493 AU
morning rise	-4150 Jul 15 j 10:56	3°♊49'17	
retrograde	-4150 Oct 23 j 13:47	11°♊15'38	
opposition	-4150 Dec 29 j 19:19	7°♊53'47	0°25'13
min. Earth dist.	-4150 Dec 29 j 10:02	7°♊55'37	8.54062 AU
direct	-4149 Mar 09 j 12:44	4°♊26'37	
evening set	-4149 Jun 23 j 10:32	12°♊09'16	
conjunction	-4149 Jul 11 j 01:35	14°♊17'31	0°36'13
minimum elong	-4149 Jul 11 j 01:33	14°♊17'30	0°36'23
max. Earth dist.	-4149 Jul 11 j 11:42	14°♊20'36	10.61805 AU
morning rise	-4149 Jul 28 j 11:15	16°♊24'09	
retrograde	-4149 Nov 04 j 20:57	23°♊39'16	
opposition	-4148 Jan 11 j 12:41	20°♊19'04	1°02'20
min. Earth dist.	-4148 Jan 11 j 06:17	20°♊20'18	8.69211 AU
direct	-4148 Mar 21 j 20:20	16°♊53'02	
evening set	-4148 Jul 05 j 08:41	24°♊25'46	
conjunction	-4148 Jul 22 j 18:22	26°♊30'34	1°05'00
minimum elong	-4148 Jul 22 j 18:20	26°♊30'34	1°05'11
max. Earth dist.	-4148 Jul 23 j 00:31	26°♊32'25	10.76554 AU
morning rise	-4148 Aug 08 j 22:48	28°♊33'48	
	-4148 Aug 21 j 10:03	0°♋	
retrograde	-4148 Nov 15 j 18:29	5°♋39'22	
opposition	-4147 Jan 22 j 22:37	2°♋20'36	1°35'26
min. Earth dist.	-4147 Jan 22 j 19:04	2°♋21'17	8.83489 AU
	-4147 Feb 25 j 19:49	30°℞♊	
direct	-4147 Apr 03 j 20:26	28°♊55'49	
	-4147 May 10 j 12:29	0°♋	
evening set	-4147 Jul 17 j 19:27	6°♋19'23	
conjunction	-4147 Aug 03 j 23:44	8°♋20'59	1°30'11
minimum elong	-4147 Aug 03 j 23:41	8°♋20'59	1°30'23
max. Earth dist.	-4147 Aug 04 j 01:55	8°♋21'38	10.90103 AU
morning rise	-4147 Aug 20 j 23:04	10°♋21'07	
retrograde	-4147 Nov 27 j 11:19	17°♋19'01	
opposition	-4146 Feb 04 j 02:29	14°♋01'25	2°03'31
min. Earth dist.	-4146 Feb 04 j 00:59	14°♋01'42	8.96296 AU
direct	-4146 Apr 16 j 10:57	10°♋37'56	
evening set	-4146 Jul 29 j 19:58	17°♋53'18	
conjunction	-4146 Aug 15 j 19:12	19°♋52'07	1°51'05
minimum elong	-4146 Aug 15 j 19:10	19°♋52'07	1°51'16
max. Earth dist.	-4146 Aug 15 j 18:48	19°♋52'00	11.01924 AU
morning rise	-4146 Sep 01 j 13:41	21°♋49'35	
retrograde	-4146 Dec 08 j 23:10	28°♋41'41	

Attention, astronomical year style is used: The year -4145 in astronomical counting style is the year 4146 BCE in historical counting style.

opposition	-4145 Feb 16 j 01:27	25°♋25'03	2°25'58
min. Earth dist.	-4145 Feb 16 j 02:21	25°♋24'53	9.07152 AU
direct	-4145 Apr 28 j 16:57	22°♋02'50	
evening set	-4145 Aug 10 j 11:56	29°♋11'11	
	-4145 Aug 17 j 13:50	0°♌	
conjunction	-4145 Aug 27 j 06:38	1°♌07'41	2°07'12
minimum elong	-4145 Aug 27 j 06:36	1°♌07'40	2°07'22
max. Earth dist.	-4145 Aug 27 j 03:34	1°♌06'47	11.11599 AU
morning rise	-4145 Sep 12 j 20:58	3°♌03'00	
retrograde	-4145 Dec 20 j 08:28	9°♌51'09	
opposition	-4144 Feb 27 j 20:38	6°♌35'13	2°42'24
min. Earth dist.	-4144 Feb 28 j 00:45	6°♌34'27	9.15690 AU
direct	-4144 May 09 j 16:13	3°♌14'10	
evening set	-4144 Aug 20 j 20:55	10°♌16'49	
conjunction	-4144 Sep 06 j 11:40	12°♌11'32	2°18'17
minimum elong	-4144 Sep 06 j 11:38	12°♌11'32	2°18'25
max. Earth dist.	-4144 Sep 06 j 04:54	12°♌09'35	11.18812 AU
morning rise	-4144 Sep 22 j 22:55	14°♌05'17	
	-4144 Oct 01 j 02:27	15°♌	
retrograde	-4144 Dec 30 j 14:11	20°♌51'18	
opposition	-4143 Mar 10 j 13:28	17°♌35'46	2°52'37
min. Earth dist.	-4143 Mar 10 j 20:35	17°♌34'28	9.21622 AU
	-4143 Apr 20 j 06:38	15°℞♌	
direct	-4143 May 21 j 10:10	14°♌15'47	
	-4143 Jun 21 j 04:59	15°♌	
evening set	-4143 Sep 01 j 00:33	21°♌14'05	
conjunction	-4143 Sep 17 j 12:14	23°♌07'34	2°24'09
minimum elong	-4143 Sep 17 j 12:13	23°♌07'34	2°24'16
max. Earth dist.	-4143 Sep 17 j 02:28	23°♌04'45	11.23332 AU
morning rise	-4143 Oct 03 j 21:18	25°♌00'20	
	-4143 Nov 24 j 15:37	0°♍	
retrograde	-4142 Jan 10 j 21:39	1°♍46'03	
	-4142 Feb 28 j 23:32	30°℞♌	
opposition	-4142 Mar 22 j 05:09	28°♌30'36	2°56'30
min. Earth dist.	-4142 Mar 22 j 14:01	28°♌28'59	9.24753 AU
direct	-4142 Jun 02 j 02:18	25°♌11'31	
	-4142 Aug 23 j 13:55	0°♍	
evening set	-4142 Sep 12 j 00:32	2°♍06'48	
conjunction	-4142 Sep 28 j 10:19	3°♍59'41	2°24'46
minimum elong	-4142 Sep 28 j 10:19	3°♍59'41	2°24'52
max. Earth dist.	-4142 Sep 27 j 23:06	3°♍56'26	11.25014 AU
morning rise	-4142 Oct 14 j 18:05	5°♍52'02	
retrograde	-4141 Jan 22 j 06:33	12°♍39'11	
opposition	-4141 Apr 02 j 21:01	9°♍23'29	2°54'05
min. Earth dist.	-4141 Apr 03 j 07:16	9°♍21'37	9.24987 AU
direct	-4141 Jun 13 j 13:25	6°♍05'08	
evening set	-4141 Sep 22 j 22:40	12°♍58'48	
conjunction	-4141 Oct 09 j 07:28	14°♍51'38	2°20'10
minimum elong	-4141 Oct 09 j 07:29	14°♍51'39	2°20'14
max. Earth dist.	-4141 Oct 08 j 18:38	14°♍47'55	11.23805 AU
morning rise	-4141 Oct 25 j 15:03	16°♍44'14	
retrograde	-4140 Feb 02 j 18:32	23°♍34'28	
opposition	-4140 Apr 13 j 14:22	20°♍18'15	2°45'26
min. Earth dist.	-4140 Apr 14 j 02:40	20°♍16'00	9.22313 AU
direct	-4140 Jun 24 j 00:03	17°♍00'21	
evening set	-4140 Oct 02 j 20:58	23°♍53'54	
conjunction	-4140 Oct 19 j 05:35	25°♍47'16	2°10'27
minimum elong	-4140 Oct 19 j 05:37	25°♍47'16	2°10'28
max. Earth dist.	-4140 Oct 18 j 14:20	25°♍42'50	11.19736 AU
morning rise	-4140 Nov 04 j 14:09	27°♍40'40	
	-4140 Nov 25 j 21:00	0°♎	
retrograde	-4139 Feb 13 j 09:51	4°♎35'37	
opposition	-4139 Apr 25 j 10:16	1°♎18'35	2°30'41
min. Earth dist.	-4139 Apr 26 j 00:15	1°♎16'02	9.16809 AU
	-4139 May 13 j 21:13	30°℞♍	
direct	-4139 Jul 05 j 10:50	28°♍00'55	
	-4139 Aug 24 j 21:35	0°♎	
evening set	-4139 Oct 13 j 21:01	4°♎55'48	
conjunction	-4139 Oct 30 j 06:32	6°♎50'16	1°55'48
minimum elong	-4139 Oct 30 j 06:35	6°♎50'16	1°55'47
max. Earth dist.	-4139 Oct 29 j 14:24	6°♎45'32	11.12931 AU
morning rise	-4139 Nov 15 j 16:57	8°♎45'03	
retrograde	-4138 Feb 25 j 07:13	15°♎46'25	
opposition	-4138 May 07 j 10:05	12°♎28'14	2°10'06
min. Earth dist.	-4138 May 08 j 00:22	12°♎25'36	9.08639 AU
direct	-4138 Jul 17 j 00:48	9°♎10'31	
evening set	-4138 Oct 25 j 00:42	16°♎08'14	
conjunction	-4138 Nov 10 j 12:07	18°♎04'22	1°36'30
minimum elong	-4138 Nov 10 j 12:10	18°♎04'22	1°36'26
max. Earth dist.	-4138 Nov 09 j 20:25	17°♎59'43	11.03568 AU
morning rise	-4138 Nov 27 j 01:07	20°♎01'03	
retrograde	-4137 Mar 09 j 13:53	27°♎10'24	
opposition	-4137 May 19 j 14:46	23°♎50'49	1°44'04
min. Earth dist.	-4137 May 20 j 04:30	23°♎48'17	8.98023 AU
direct	-4137 Jul 28 j 17:20	20°♎32'48	
evening set	-4137 Nov 05 j 10:14	27°♎34'56	
max. Earth dist.	-4137 Nov 21 j 07:59	29°♎28'23	10.91900 AU
conjunction	-4137 Nov 22 j 00:09	29°♎33'13	1°13'00
minimum elong	-4137 Nov 22 j 00:11	29°♎33'14	1°12'55
	-4137 Nov 25 j 17:34	0°♏	
morning rise	-4137 Dec 08 j 16:32	1°♏32'21	
retrograde	-4136 Mar 21 j 03:21	8°♏51'09	
opposition	-4136 May 31 j 01:22	5°♏30'00	1°13'06
min. Earth dist.	-4136 May 31 j 15:03	5°♏27'26	8.85265 AU
direct	-4136 Aug 08 j 12:02	2°♏11'23	
evening set	-4136 Nov 16 j 03:29	9°♏19'41	
conjunction	-4136 Dec 02 j 20:25	11°♏20'33	0°45'54
minimum elong	-4136 Dec 02 j 20:26	11°♏20'34	0°45'47
max. Earth dist.	-4136 Dec 02 j 03:54	11°♏15'33	10.78287 AU
morning rise	-4136 Dec 19 j 16:53	13°♏22'34	
	-4135 Jan 02 j 16:33	15°♏	
retrograde	-4135 Apr 03 j 02:10	20°♏52'20	
opposition	-4135 Jun 12 j 19:19	17°♏29'27	0°38'02
min. Earth dist.	-4135 Jun 13 j 08:34	17°♏26'56	8.70813 AU
	-4135 Jul 19 j 22:22	15°℞♏	
direct	-4135 Aug 20 j 15:43	14°♏09'59	
	-4135 Sep 20 j 17:14	15°♏	
evening set	-4135 Nov 28 j 06:13	21°♏26'04	
max. Earth dist.	-4135 Dec 14 j 11:37	23°♏25'17	10.63263 AU
conjunction	-4135 Dec 15 j 02:45	23°♏29'57	0°16'01
minimum elong	-4135 Dec 15 j 02:46	23°♏29'57	0°15'53
behind sun begin	-4135 Dec 15 j 01:23	23°♏29'32	
behind sun end	-4135 Dec 15 j 04:09	23°♏30'22	
morning rise	-4134 Jan 01 j 03:38	25°♏35'12	
	-4134 Feb 10 j 10:38	0°♐	
retrograde	-4134 Apr 16 j 12:03	3°♐17'06	
	-4134 Jun 24 j 05:38	30°℞♏	
opposition	-4134 Jun 25 j 21:11	29°♏52'24	-0°00'01
desc. node	-4134 Jun 25 j 16:26	29°♏53'19	
min. Earth dist.	-4134 Jun 26 j 08:54	29°♏50'09	8.55318 AU
direct	-4134 Sep 02 j 02:09	26°♏31'51	
	-4134 Nov 05 j 18:15	0°♐	
evening set	-4134 Dec 10 j 20:34	3°♐57'12	

Attention, astronomical year style is used: The year -4134 in astronomical counting style is the year 4135 BCE in historical counting style.

conjunction	-4134 Dec 27 j 21:09	6°♐04'20	-0°15'35	
minimum elong	-4134 Dec 27 j 21:08	6°♐04'20	0°15'44	
behind sun begin	-4134 Dec 27 j 19:31	6°♐03'50		
behind sun end	-4134 Dec 27 j 22:45	6°♐04'50		
max. Earth dist.	-4134 Dec 27 j 09:00	6°♐00'32	10.47535 AU	
morning rise	-4133 Jan 14 j 02:27	8°♐13'02		
retrograde	-4133 Apr 30 j 08:29	16°♐07'42		
opposition	-4133 Jul 09 j 07:14	12°♐41'08	-0°39'30	
min. Earth dist.	-4133 Jul 09 j 16:01	12°♐39'25	8.39547 AU	
direct	-4133 Sep 14 j 20:59	9°♐19'19		
evening set	-4133 Dec 23 j 23:54	16°♐55'07		
conjunction	-4132 Jan 10 j 04:34	19°♐05'38	-0°47'18	
minimum elong	-4132 Jan 10 j 04:32	19°♐05'37	0°47'28	
max. Earth dist.	-4132 Jan 09 j 19:46	19°♐02'50	10.31904 AU	
morning rise	-4132 Jan 27 j 14:13	21°♐17'49		
retrograde	-4132 May 13 j 15:12	29°♐25'14		
opposition	-4132 Jul 22 j 01:52	25°♐56'54	-1°18'23	
min. Earth dist.	-4132 Jul 22 j 07:10	25°♐55'51	8.24326 AU	
direct	-4132 Sep 27 j 01:41	22°♐33'41		
	-4131 Jan 02 j 23:24	0°♑		
evening set	-4131 Jan 05 j 16:57	0°♑20'40		
conjunction	-4131 Jan 23 j 01:35	2°♑34'29	-1°17'27	
minimum elong	-4131 Jan 23 j 01:32	2°♑34'28	1°17'38	
max. Earth dist.	-4131 Jan 22 j 20:25	2°♑32'49	10.17222 AU	
morning rise	-4131 Feb 09 j 15:27	4°♑50'02		
retrograde	-4131 May 28 j 08:12	13°♑09'23		
opposition	-4131 Aug 05 j 04:38	9°♑39'30	-1°54'16	
min. Earth dist.	-4131 Aug 05 j 06:25	9°♑39'09	8.10514 AU	
direct	-4131 Oct 10 j 15:12	6°♑14'46		
evening set	-4130 Jan 20 j 00:03	14°♑13'05		
conjunction	-4130 Feb 06 j 12:35	16°♑29'58	-1°44'01	
minimum elong	-4130 Feb 06 j 12:32	16°♑29'57	1°44'12	
max. Earth dist.	-4130 Feb 06 j 11:10	16°♑29'31	10.04355 AU	
morning rise	-4130 Feb 24 j 06:21	18°♑48'35		
retrograde	-4130 Jun 12 j 08:26	27°♑17'56		
opposition	-4130 Aug 19 j 14:17	23°♑46'51	-2°24'28	
min. Earth dist.	-4130 Aug 19 j 12:59	23°♑47'07	7.98946 AU	
direct	-4130 Oct 24 j 15:06	20°♑20'35		
evening set	-4129 Feb 03 j 20:05	28°♑29'33		
	-4129 Feb 15 j 08:01	0°♒		
conjunction	-4129 Feb 21 j 12:25	0°♒49'07	-2°04'54	
minimum elong	-4129 Feb 21 j 12:23	0°♒49'06	2°05'04	
max. Earth dist.	-4129 Feb 21 j 15:19	0°♒50'04	9.94113 AU	
morning rise	-4129 Mar 11 j 09:34	3°♒10'14		
retrograde	-4129 Jun 27 j 13:18	11°♒46'40		
opposition	-4129 Sep 03 j 05:25	8°♒14'49	-2°46'20	
min. Earth dist.	-4129 Sep 03 j 01:05	8°♒15'42	7.90359 AU	
direct	-4129 Nov 08 j 00:56	4°♒47'07		
evening set	-4128 Feb 19 j 02:46	13°♒05'03		
	-4128 Mar 04 j 14:33	15°♒		
conjunction	-4128 Mar 07 j 22:40	15°♒26'42	-2°18'14	
minimum elong	-4128 Mar 07 j 22:38	15°♒26'42	2°18'22	
max. Earth dist.	-4128 Mar 08 j 06:13	15°♒29'13	9.87180 AU	
morning rise	-4128 Mar 25 j 22:34	17°♒49'38		
retrograde	-4128 Jul 11 j 19:20	26°♒29'22		
opposition	-4128 Sep 16 j 23:44	22°♒57'12	-2°57'44	
min. Earth dist.	-4128 Sep 16 j 16:16	22°♒58'46	7.85332 AU	
direct	-4128 Nov 21 j 18:55	19°♒28'18		
evening set	-4127 Mar 05 j 17:01	27°♒52'35		
	-4127 Mar 21 j 17:28	0°♓		
conjunction	-4127 Mar 23 j 16:12	0°♓15'36	-2°22'40	
minimum elong	-4127 Mar 23 j 16:12	0°♓15'37	2°22'46	
max. Earth dist.	-4127 Mar 24 j 04:04	0°♓19'34	9.84053 AU	
morning rise	-4127 Apr 10 j 18:13	2°♓39'31		
retrograde	-4127 Jul 26 j 23:10	11°♓18'12		
opposition	-4127 Oct 01 j 18:38	7°♓46'14	-2°57'23	
min. Earth dist.	-4127 Oct 01 j 08:19	7°♓48'24	7.84220 AU	
direct	-4127 Dec 06 j 17:05	4°♓16'24		
evening set	-4126 Mar 21 j 10:51	12°♓43'47		
conjunction	-4126 Apr 08 j 12:45	15°♓07'20	-2°17'42	
minimum elong	-4126 Apr 08 j 12:48	15°♓07'21	2°17'46	
max. Earth dist.	-4126 Apr 09 j 04:12	15°♓12'29	9.84955 AU	
morning rise	-4126 Apr 26 j 16:05	17°♓31'17		
retrograde	-4126 Aug 10 j 22:53	26°♓04'37		
opposition	-4126 Oct 16 j 11:39	22°♓33'21	-2°45'14	
min. Earth dist.	-4126 Oct 15 j 22:56	22°♓36'02	7.87085 AU	
direct	-4126 Dec 21 j 17:23	19°♓02'56		
evening set	-4125 Apr 06 j 03:55	27°♓29'54		
conjunction	-4125 Apr 24 j 07:37	29°♓53'02	-2°03'44	
minimum elong	-4125 Apr 24 j 07:41	29°♓53'03	2°03'44	
max. Earth dist.	-4125 Apr 25 j 01:41	29°♓59'00	9.89801 AU	
	-4125 Apr 25 j 04:40	0°♈		
morning rise	-4125 May 12 j 11:13	2°♈16'05		
retrograde	-4125 Aug 25 j 15:24	10°♈40'23		
min. Earth dist.	-4125 Oct 30 j 10:07	7°♈13'15	7.93719 AU	
opposition	-4125 Oct 31 j 00:16	7°♈10'17	-2°22'26	
direct	-4124 Jan 05 j 16:55	3°♈39'41		
evening set	-4124 Apr 20 j 16:09	12°♈02'52		
conjunction	-4124 May 08 j 20:29	14°♈24'41	-1°42'02	
minimum elong	-4124 May 08 j 20:33	14°♈24'42	1°42'01	
max. Earth dist.	-4124 May 09 j 15:45	14°♈30'59	9.98242 AU	
morning rise	-4124 May 26 j 23:15	16°♈45'57		
retrograde	-4124 Sep 07 j 22:38	24°♈58'31		
opposition	-4124 Nov 13 j 06:35	21°♈29'58	-1°51'08	
min. Earth dist.	-4124 Nov 12 j 16:16	21°♈32'57	8.03665 AU	
direct	-4123 Jan 19 j 13:16	17°♈59'35		
evening set	-4123 May 05 j 20:15	26°♈16'14		
conjunction	-4123 May 23 j 23:51	28°♈35'54	-1°14'32	
minimum elong	-4123 May 23 j 23:55	28°♈35'55	1°14'27	
max. Earth dist.	-4123 May 24 j 18:42	28°♈41'58	10.09687 AU	
	-4123 Jun 03 j 21:01	0°♉		
morning rise	-4123 Jun 11 j 00:36	0°♉54'37		
retrograde	-4123 Sep 21 j 18:21	8°♉53'56		
opposition	-4123 Nov 27 j 05:17	5°♉27'15	-1°14'02	
min. Earth dist.	-4123 Nov 26 j 15:49	5°♉30'01	8.16254 AU	
direct	-4122 Feb 03 j 04:38	1°♉57'27		
evening set	-4122 May 20 j 13:56	10°♉05'34		
conjunction	-4122 Jun 07 j 15:17	12°♉22'23	-0°43'23	
minimum elong	-4122 Jun 07 j 15:19	12°♉22'24	0°43'16	
max. Earth dist.	-4122 Jun 08 j 08:20	12°♉27'48	10.23373 AU	
morning rise	-4122 Jun 25 j 12:49	14°♉37'58		
	-4122 Jun 28 j 11:59	15°♉		
retrograde	-4122 Oct 05 j 02:07	22°♉23'41		
opposition	-4122 Dec 10 j 19:32	18°♉59'00	-0°33'58	
min. Earth dist.	-4122 Dec 10 j 07:31	19°♉01'25	8.30703 AU	
direct	-4121 Feb 17 j 12:06	15°♉30'07		
evening set	-4121 Jun 03 j 19:33	23°♉28'28		
conjunction	-4121 Jun 21 j 17:23	25°♉42'00	-0°10'46	
minimum elong	-4121 Jun 21 j 17:24	25°♉42'00	0°10'38	
behind sun begin	-4121 Jun 21 j 11:50	25°♉40'17		
behind sun end	-4121 Jun 21 j 22:58	25°♉43'44		
max. Earth dist.	-4121 Jun 22 j 07:43	25°♉46'28	10.38477 AU	

Attention, astronomical year style is used: The year -4121 in astronomical counting style is the year 4122 BCE in historical counting style.

morning rise	-4121 Jul	09 j 10:46	27°♉54'05	
	-4121 Jul	27 j 03:41	0°♊	
retrograde	-4121 Oct	17 j 23:52	5°♊26'44	
asc. node	-4121 Oct	24 j 04:03	5°♊24'38	
opposition	-4121 Dec	24 j 01:16	2°♊04'02	0°06'28
min. Earth dist.	-4121 Dec	23 j 14:37	2°♊06'09	8.46185 AU
	-4120 Jan	21 j 00:37	30°℞♉	
direct	-4120 Mar	02 j 10:32	28°♉36'21	
	-4120 Apr	12 j 12:52	0°♊	
evening set	-4120 Jun	16 j 12:24	6°♊24'24	
conjunction	-4120 Jul	04 j 05:50	8°♊34'26	0°21'30
minimum elong	-4120 Jul	04 j 05:49	8°♊34'25	0°21'40
max. Earth dist.	-4120 Jul	04 j 17:21	8°♊37'58	10.54164 AU
morning rise	-4120 Jul	21 j 18:18	10°♊42'53	
retrograde	-4120 Oct	29 j 11:37	18°♊03'38	
opposition	-4119 Jan	04 j 22:41	14°♊42'48	0°45'06
min. Earth dist.	-4119 Jan	04 j 13:41	14°♊44'34	8.61867 AU
direct	-4119 Mar	15 j 23:46	11°♊16'27	
evening set	-4119 Jun	29 j 16:56	18°♊54'19	
conjunction	-4119 Jul	17 j 05:21	21°♊00'50	0°51'43
minimum elong	-4119 Jul	17 j 05:18	21°♊00'49	0°51'54
max. Earth dist.	-4119 Jul	17 j 14:17	21°♊03'32	10.69627 AU
morning rise	-4119 Aug	03 j 12:23	23°♊05'45	
	-4119 Oct	24 j 05:48	0°♋	
retrograde	-4119 Nov	10 j 15:26	0°♋16'05	
	-4119 Nov	28 j 03:29	30°℞♊	
opposition	-4118 Jan	17 j 12:32	26°♊56'58	1°20'19
min. Earth dist.	-4118 Jan	17 j 06:03	26°♊58'13	8.76984 AU
direct	-4118 Mar	29 j 03:39	23°♊32'00	
	-4118 Jul	03 j 16:56	0°♋	
evening set	-4118 Jul	12 j 09:43	1°♋00'14	
conjunction	-4118 Jul	29 j 16:44	3°♋03'24	1°18'46
minimum elong	-4118 Jul	29 j 16:42	3°♋03'23	1°18'57
max. Earth dist.	-4118 Jul	29 j 22:36	3°♋05'09	10.84152 AU
morning rise	-4118 Aug	15 j 18:21	5°♋04'59	
retrograde	-4118 Nov	22 j 12:13	12°♋06'40	
opposition	-4117 Jan	29 j 19:56	8°♋49'00	1°50'54
min. Earth dist.	-4117 Jan	29 j 16:55	8°♋49'35	8.90864 AU
direct	-4117 Apr	10 j 21:10	5°♋25'25	
evening set	-4117 Jul	24 j 15:34	12°♋44'51	
conjunction	-4117 Aug	10 j 17:12	14°♋44'59	1°41'47
minimum elong	-4117 Aug	10 j 17:09	14°♋44'58	1°41'58
max. Earth dist.	-4117 Aug	10 j 18:48	14°♋45'27	10.97111 AU
morning rise	-4117 Aug	27 j 13:54	16°♋43'41	
retrograde	-4117 Dec	04 j 01:03	23°♋38'34	
opposition	-4116 Feb	10 j 21:39	20°♋22'02	2°16'05
min. Earth dist.	-4116 Feb	10 j 22:00	20°♋21'58	9.02903 AU
direct	-4116 Apr	22 j 07:54	16°♋59'43	
evening set	-4116 Aug	04 j 12:07	24°♋11'32	
conjunction	-4116 Aug	21 j 08:48	26°♋09'04	2°00'12
minimum elong	-4116 Aug	21 j 08:45	26°♋09'03	2°00'22
max. Earth dist.	-4116 Aug	21 j 05:59	26°♋08'15	11.07958 AU
morning rise	-4116 Sep	07 j 01:10	28°♋05'22	
	-4116 Sep	24 j 06:56	0°♌	
retrograde	-4116 Dec	14 j 11:55	4°♌55'23	
opposition	-4115 Feb	21 j 18:45	1°♌39'38	2°35'23
min. Earth dist.	-4115 Feb	21 j 21:51	1°♌39'04	9.12583 AU
	-4115 Mar	17 j 06:26	30°℞♋	
direct	-4115 May	04 j 12:43	28°♋18'31	
	-4115 Jun	20 j 13:36	0°♌	
evening set	-4115 Aug	16 j 00:47	5°♌24'01	
conjunction	-4115 Sep	01 j 17:19	7°♌19'32	2°13'40
minimum elong	-4115 Sep	01 j 17:17	7°♌19'31	2°13'49
max. Earth dist.	-4115 Sep	01 j 11:31	7°♌17'51	11.16263 AU
morning rise	-4115 Sep	18 j 05:57	9°♌13'58	
	-4115 Nov	20 j 13:42	15°♌	
retrograde	-4115 Dec	25 j 20:00	16°♌01'03	
	-4114 Jan	30 j 22:27	15°℞♌	
opposition	-4114 Mar	05 j 13:04	12°♌45'47	2°48'32
min. Earth dist.	-4114 Mar	05 j 18:36	12°♌44'46	9.19566 AU
direct	-4114 May	16 j 09:23	9°♌25'44	
	-4114 Aug	14 j 07:22	15°♌	
evening set	-4114 Aug	27 j 07:12	16°♌26'14	
conjunction	-4114 Sep	12 j 20:22	18°♌20'17	2°21'59
minimum elong	-4114 Sep	12 j 20:21	18°♌20'17	2°22'06
max. Earth dist.	-4114 Sep	12 j 12:05	18°♌17'53	11.21791 AU
morning rise	-4114 Sep	29 j 06:13	20°♌13'28	
retrograde	-4113 Jan	06 j 04:04	26°♌59'28	
opposition	-4113 Mar	17 j 05:47	23°♌44'19	2°55'23
min. Earth dist.	-4113 Mar	17 j 14:26	23°♌42'45	9.23695 AU
direct	-4113 May	28 j 02:18	20°♌25'06	
evening set	-4113 Sep	07 j 09:21	27°♌22'00	
conjunction	-4113 Sep	23 j 19:56	29°♌15'10	2°25'03
minimum elong	-4113 Sep	23 j 19:56	29°♌15'10	2°25'09
max. Earth dist.	-4113 Sep	23 j 08:11	29°♌11'46	11.24443 AU
	-4113 Sep	30 j 07:21	0°♍	
morning rise	-4113 Oct	10 j 04:13	1°♍07'42	
retrograde	-4112 Jan	17 j 10:44	7°♍54'17	
opposition	-4112 Mar	27 j 21:49	4°♍38'54	2°55'54
min. Earth dist.	-4112 Mar	28 j 09:15	4°♍36'49	9.24900 AU
direct	-4112 Jun	07 j 15:09	1°♍20'16	
evening set	-4112 Sep	17 j 08:40	8°♍14'57	
conjunction	-4112 Oct	03 j 17:45	10°♍07'49	2°22'52
minimum elong	-4112 Oct	03 j 17:46	10°♍07'49	2°22'57
max. Earth dist.	-4112 Oct	03 j 03:30	10°♍03'41	11.24182 AU
morning rise	-4112 Oct	20 j 01:29	12°♍00'19	
retrograde	-4111 Jan	27 j 20:40	18°♍49'14	
opposition	-4111 Apr	08 j 14:39	15°♍33'13	2°50'09
min. Earth dist.	-4111 Apr	09 j 03:30	15°♍30'53	9.23164 AU
direct	-4111 Jun	19 j 04:33	12°♍14'58	
evening set	-4111 Sep	28 j 06:49	19°♍08'48	
conjunction	-4111 Oct	14 j 15:32	21°♍01'57	2°15'30
minimum elong	-4111 Oct	14 j 15:34	21°♍01'58	2°15'33
max. Earth dist.	-4111 Oct	14 j 00:40	20°♍57'38	11.21023 AU
morning rise	-4111 Oct	30 j 23:33	22°♍55'00	
retrograde	-4110 Feb	08 j 11:41	29°♍47'54	
opposition	-4110 Apr	20 j 09:30	26°♍30'59	2°38'13
min. Earth dist.	-4110 Apr	20 j 22:56	26°♍28'32	9.18555 AU
direct	-4110 Jun	30 j 16:08	23°♍12'54	
	-4110 Oct	08 j 04:18	0°♎	
evening set	-4110 Oct	09 j 05:58	0°♎07'19	
conjunction	-4110 Oct	25 j 15:09	2°♎01'20	2°03'07
minimum elong	-4110 Oct	25 j 15:12	2°♎01'21	2°03'07
max. Earth dist.	-4110 Oct	24 j 23:12	1°♎56'41	11.15080 AU
morning rise	-4110 Nov	11 j 00:33	3°♎55'32	
retrograde	-4109 Feb	20 j 06:11	10°♎54'04	
opposition	-4109 May	02 j 07:29	7°♎35'59	2°20'19
min. Earth dist.	-4109 May	02 j 21:57	7°♎33'19	9.11238 AU
direct	-4109 Jul	12 j 03:07	4°♎17'47	
evening set	-4109 Oct	20 j 07:52	11°♎14'24	
conjunction	-4109 Nov	05 j 18:20	13°♎09'50	1°45'56
minimum elong	-4109 Nov	05 j 18:23	13°♎09'51	1°45'53

Attention, astronomical year style is used: The year -4109 in astronomical counting style is the year 4110 BCE in historical counting style.

max. Earth dist.	-4109 Nov 05 j 00:59	13°♎04'43	11.06554 AU
morning rise	-4109 Nov 22 j 06:11	15°♎05'44	
retrograde	-4108 Mar 03 j 07:31	22°♎11'32	
opposition	-4108 May 13 j 09:53	18°♎52'03	1°56'44
min. Earth dist.	-4108 May 14 j 01:10	18°♎49'14	9.01449 AU
direct	-4108 Jul 22 j 18:10	15°♎33'33	
evening set	-4108 Oct 30 j 14:26	22°♎33'55	
max. Earth dist.	-4108 Nov 15 j 09:54	24°♎26'10	10.95712 AU
conjunction	-4108 Nov 16 j 03:04	24°♎31'17	1°24'19
minimum elong	-4108 Nov 16 j 03:07	24°♎31'18	1°24'13
morning rise	-4108 Dec 02 j 18:00	26°♎29'25	
	-4107 Jan 04 j 03:14	0°♏	
retrograde	-4107 Mar 15 j 16:08	3°♏44'05	
opposition	-4107 May 25 j 17:46	0°♏23'01	1°27'57
min. Earth dist.	-4107 May 26 j 08:23	0°♏20'17	8.89516 AU
	-4107 May 30 j 21:25	30°℞♎	
direct	-4107 Aug 03 j 12:51	27°♎04'01	
	-4107 Oct 03 j 02:55	0°♏	
evening set	-4107 Nov 11 j 03:43	4°♏09'46	
conjunction	-4107 Nov 27 j 19:20	6°♏09'34	0°58'46
minimum elong	-4107 Nov 27 j 19:22	6°♏09'34	0°58'40
max. Earth dist.	-4107 Nov 27 j 03:39	6°♏04'49	10.82920 AU
morning rise	-4107 Dec 14 j 13:53	8°♏10'21	
	-4106 Mar 01 j 14:02	15°♏	
retrograde	-4106 Mar 28 j 11:46	15°♏35'22	
	-4106 Apr 24 j 16:41	15°℞♏	
opposition	-4106 Jun 07 j 08:16	12°♏12'36	0°54'38
min. Earth dist.	-4106 Jun 07 j 21:08	12°♏10'10	8.75868 AU
direct	-4106 Aug 15 j 13:26	8°♏52'55	
	-4106 Nov 13 j 19:23	15°♏	
evening set	-4106 Nov 23 j 01:49	16°♏05'37	
conjunction	-4106 Dec 09 j 20:50	18°♏08'15	0°30'02
minimum elong	-4106 Dec 09 j 20:51	18°♏08'15	0°29'54
max. Earth dist.	-4106 Dec 09 j 06:32	18°♏03'52	10.68650 AU
morning rise	-4106 Dec 26 j 19:34	20°♏12'07	
retrograde	-4105 Apr 10 j 17:33	27°♏48'40	
opposition	-4105 Jun 20 j 06:20	24°♏24'11	0°17'46
min. Earth dist.	-4105 Jun 20 j 17:16	24°♏22'05	8.61033 AU
direct	-4105 Aug 27 j 18:33	21°♏03'37	
evening set	-4105 Dec 05 j 10:40	28°♏24'51	
desc. node	-4105 Dec 11 j 06:28	29°♏07'43	
	-4105 Dec 18 j 07:07	0°♐	
conjunction	-4105 Dec 22 j 09:20	0°♐30'34	-0°00'58
minimum elong	-4105 Dec 22 j 09:19	0°♐30'34	0°01'07
behind sun begin	-4105 Dec 22 j 02:14	0°♐28'23	
behind sun end	-4105 Dec 22 j 16:25	0°♐32'45	
max. Earth dist.	-4105 Dec 21 j 20:13	0°♐26'30	10.53479 AU
morning rise	-4104 Jan 08 j 12:34	2°♐37'47	
retrograde	-4104 Apr 23 j 08:41	10°♐26'46	
opposition	-4104 Jul 02 j 12:33	7°♐00'34	-0°21'18
min. Earth dist.	-4104 Jul 02 j 21:43	6°♐58'47	8.45656 AU
direct	-4104 Sep 08 j 08:50	3°♐38'56	
evening set	-4104 Dec 17 j 07:48	11°♐10'05	
conjunction	-4103 Jan 03 j 10:23	13°♐19'06	-0°32'48
minimum elong	-4103 Jan 03 j 10:22	13°♐19'05	0°32'57
max. Earth dist.	-4103 Jan 02 j 23:57	13°♐15'48	10.38104 AU
morning rise	-4103 Jan 20 j 18:09	15°♐29'46	
retrograde	-4103 May 07 j 10:22	23°♐31'34	
opposition	-4103 Jul 16 j 03:28	20°♐03'44	-1°00'44
min. Earth dist.	-4103 Jul 16 j 10:09	20°♐02'24	8.30494 AU
direct	-4103 Sep 21 j 09:28	16°♐40'55	
evening set	-4103 Dec 30 j 18:20	24°♐22'55	
conjunction	-4102 Jan 17 j 01:04	26°♐35'16	-1°03'55
minimum elong	-4102 Jan 17 j 01:02	26°♐35'15	1°04'05
max. Earth dist.	-4102 Jan 16 j 18:39	26°♐33'12	10.23307 AU
morning rise	-4102 Feb 03 j 13:08	28°♐49'22	
	-4102 Feb 13 j 00:49	0°♑	
retrograde	-4102 May 21 j 23:02	7°♑03'33	
opposition	-4102 Jul 30 j 02:41	3°♑34'17	-1°38'19
min. Earth dist.	-4102 Jul 30 j 06:02	3°♑33'36	8.16356 AU
direct	-4102 Oct 04 j 18:58	0°♑10'12	
evening set	-4101 Jan 13 j 19:09	8°♑03'31	
conjunction	-4101 Jan 31 j 05:58	10°♑19'03	-1°32'22
minimum elong	-4101 Jan 31 j 05:55	10°♑19'02	1°32'33
max. Earth dist.	-4101 Jan 31 j 04:18	10°♑18'30	10.09920 AU
morning rise	-4101 Feb 17 j 21:56	12°♑36'19	
retrograde	-4101 Jun 05 j 20:09	21°♑01'30	
opposition	-4101 Aug 13 j 09:22	17°♑31'04	-2°11'26
min. Earth dist.	-4101 Aug 13 j 08:47	17°♑31'11	8.04076 AU
direct	-4101 Oct 18 j 14:42	14°♑05'42	
evening set	-4100 Jan 28 j 09:35	22°♑10'01	
conjunction	-4100 Feb 15 j 00:16	24°♑28'25	-1°56'06
minimum elong	-4100 Feb 15 j 00:13	24°♑28'23	1°56'16
max. Earth dist.	-4100 Feb 15 j 03:28	24°♑29'28	9.98788 AU
morning rise	-4100 Mar 03 j 19:42	26°♑48'24	
	-4100 Mar 29 j 18:27	0°♒	
retrograde	-4100 Jun 19 j 23:38	5°♒22'07	
opposition	-4100 Aug 26 j 22:28	1°♒50'53	-2°37'23
min. Earth dist.	-4100 Aug 26 j 17:53	1°♒51'49	7.94449 AU
	-4100 Sep 19 j 14:16	30°℞♑	
direct	-4100 Oct 31 j 19:59	28°♑24'16	
	-4100 Dec 12 j 04:19	0°♒	
evening set	-4099 Feb 11 j 11:51	6°♒38'18	
conjunction	-4099 Mar 01 j 06:10	8°♒59'01	-2°13'04
minimum elong	-4099 Mar 01 j 06:08	8°♒59'01	2°13'13
max. Earth dist.	-4099 Mar 01 j 13:54	9°♒01'35	9.90673 AU
morning rise	-4099 Mar 19 j 04:39	11°♒21'08	
	-4099 Apr 17 j 20:55	15°♒	
retrograde	-4099 Jul 05 j 06:21	19°♒59'52	
opposition	-4099 Sep 10 j 15:51	16°♒28'15	-2°53'44
min. Earth dist.	-4099 Sep 10 j 08:03	16°♒29'52	7.88130 AU
	-4099 Sep 28 j 21:54	15°℞♒	
direct	-4099 Nov 15 j 09:35	13°♒00'28	
	-4099 Dec 31 j 19:26	15°♒	
evening set	-4098 Feb 26 j 23:27	21°♒21'59	
conjunction	-4098 Mar 16 j 21:07	23°♒44'22	-2°21'40
minimum elong	-4098 Mar 16 j 21:07	23°♒44'22	2°21'47
max. Earth dist.	-4098 Mar 17 j 08:43	23°♒48'14	9.86139 AU
morning rise	-4098 Apr 03 j 22:04	26°♒07'48	
	-4098 May 05 j 10:35	0°♓	
retrograde	-4098 Jul 20 j 12:35	4°♓47'18	
opposition	-4098 Sep 25 j 10:54	1°♓15'45	-2°58'48
min. Earth dist.	-4098 Sep 25 j 00:47	1°♓17'52	7.85539 AU
	-4098 Oct 10 j 21:13	30°℞♒	
direct	-4098 Nov 30 j 05:14	27°♒46'57	
	-4097 Jan 18 j 11:21	0°♓	
evening set	-4097 Mar 14 j 16:22	6°♓12'56	
conjunction	-4097 Apr 01 j 16:54	8°♓36'11	-2°20'59
minimum elong	-4097 Apr 01 j 16:55	8°♓36'11	2°21'03
max. Earth dist.	-4097 Apr 02 j 07:23	8°♓41'00	9.85467 AU
morning rise	-4097 Apr 19 j 19:36	11°♓00'03	
retrograde	-4097 Aug 04 j 15:16	19°♓35'55	
opposition	-4097 Oct 10 j 05:12	16°♓04'54	-2°51'56
min. Earth dist.	-4097 Oct 09 j 17:37	16°♓07'20	7.86777 AU

Attention, astronomical year style is used: The year -4097 in astronomical counting style is the year 4098 BCE in historical counting style.

direct	-4097 Dec 15 j 05:23	12°♓35'20	
evening set	-4096 Mar 29 j 10:04	21°♓02'23	
conjunction	-4096 Apr 16 j 12:47	23°♓25'38	-2°11'00
minimum elong	-4096 Apr 16 j 12:51	23°♓25'39	2°11'02
max. Earth dist.	-4096 Apr 17 j 04:55	23°♓30'58	9.88592 AU
morning rise	-4096 May 04 j 16:23	25°♓49'02	
	-4096 Jun 08 j 07:17	0°♈	
retrograde	-4096 Aug 18 j 11:15	4°♈17'28	
opposition	-4096 Oct 23 j 20:07	0°♈47'26	-2°33'47
min. Earth dist.	-4096 Oct 23 j 07:47	0°♈50'01	7.91638 AU
	-4096 Nov 02 j 08:41	30°℞♓	
direct	-4096 Dec 29 j 06:32	27°♓17'28	
	-4095 Feb 22 j 19:01	0°♈	
evening set	-4095 Apr 14 j 00:58	5°♈42'24	
conjunction	-4095 May 02 j 04:58	8°♈04'47	-1°52'37
minimum elong	-4095 May 02 j 05:02	8°♈04'48	1°52'37
max. Earth dist.	-4095 May 02 j 21:44	8°♈10'18	9.95213 AU
morning rise	-4095 May 20 j 08:23	10°♈26'53	
retrograde	-4095 Sep 01 j 22:13	18°♈44'54	
opposition	-4095 Nov 07 j 05:32	15°♈16'14	-2°06'03
min. Earth dist.	-4095 Nov 06 j 16:38	15°♈18'55	7.99792 AU
direct	-4094 Jan 13 j 05:43	11°♈46'14	
evening set	-4094 Apr 29 j 09:30	20°♈06'08	
conjunction	-4094 May 17 j 13:31	22°♈26'49	-1°27'29
minimum elong	-4094 May 17 j 13:35	22°♈26'50	1°27'26
max. Earth dist.	-4094 May 18 j 06:28	22°♈32'19	10.04941 AU
morning rise	-4094 Jun 04 j 15:29	24°♈46'46	
	-4094 Jul 20 j 17:00	0°♉	
retrograde	-4094 Sep 15 j 22:45	2°♉52'23	
	-4094 Nov 14 j 06:48	30°℞♈	
opposition	-4094 Nov 21 j 08:11	29°♈25'19	-1°31'14
min. Earth dist.	-4094 Nov 20 j 19:00	29°♈28'02	8.10792 AU
direct	-4093 Jan 28 j 00:22	25°♈55'39	
	-4093 Apr 08 j 19:29	0°♉	
evening set	-4093 May 14 j 08:32	4°♉08'02	
conjunction	-4093 Jun 01 j 11:08	6°♉26'15	-0°57'42
minimum elong	-4093 Jun 01 j 11:11	6°♉26'16	0°57'36
max. Earth dist.	-4093 Jun 02 j 03:43	6°♉31'33	10.17210 AU
morning rise	-4093 Jun 19 j 10:21	8°♉43'21	
	-4093 Aug 18 j 11:14	15°♉	
retrograde	-4093 Sep 29 j 12:41	16°♉35'39	
	-4093 Nov 11 j 08:43	15°℞♉	
opposition	-4093 Dec 05 j 02:48	13°♉10'19	-0°52'10
min. Earth dist.	-4093 Dec 04 j 14:08	13°♉12'54	8.23997 AU
direct	-4092 Feb 11 j 11:08	9°♉41'16	
	-4092 May 04 j 16:09	15°♉	
evening set	-4092 May 27 j 20:17	17°♉44'29	
conjunction	-4092 Jun 14 j 20:05	19°♉59'39	-0°25'27
minimum elong	-4092 Jun 14 j 20:06	19°♉59'40	0°25'20
max. Earth dist.	-4092 Jun 15 j 11:21	20°♉04'28	10.31284 AU
morning rise	-4092 Jul 02 j 15:26	22°♉13'26	
retrograde	-4092 Oct 11 j 16:46	29°♉52'25	
opposition	-4092 Dec 17 j 12:48	26°♉28'53	-0°11'34
min. Earth dist.	-4092 Dec 17 j 01:50	26°♉31'05	8.38633 AU
direct	-4091 Feb 24 j 13:29	23°♉00'40	
asc. node	-4091 Apr 05 j 01:03	24°♉18'45	
	-4091 Jun 03 j 08:19	0°♊	
evening set	-4091 Jun 10 j 19:41	0°♊53'51	
conjunction	-4091 Jun 28 j 15:27	3°♊05'38	0°07'16
minimum elong	-4091 Jun 28 j 15:26	3°♊05'38	0°07'25
behind sun begin	-4091 Jun 28 j 08:51	3°♊03'37	
behind sun end	-4091 Jun 28 j 22:02	3°♊07'40	
max. Earth dist.	-4091 Jun 29 j 04:15	3°♊09'36	10.46345 AU
morning rise	-4091 Jul 16 j 06:09	5°♊15'52	
retrograde	-4091 Oct 24 j 09:10	12°♊42'20	
opposition	-4091 Dec 30 j 14:29	9°♊20'33	0°28'10
min. Earth dist.	-4091 Dec 30 j 06:03	9°♊22'13	8.53884 AU
direct	-4090 Mar 10 j 07:36	5°♊53'23	
evening set	-4090 Jun 24 j 06:19	13°♊36'19	
conjunction	-4090 Jul 11 j 21:06	15°♊44'34	0°38'33
minimum elong	-4090 Jul 11 j 21:04	15°♊44'33	0°38'43
max. Earth dist.	-4090 Jul 12 j 06:12	15°♊47'20	10.61588 AU
morning rise	-4090 Jul 29 j 06:41	17°♊51'13	
retrograde	-4090 Nov 05 j 15:21	25°♊06'33	
opposition	-4089 Jan 12 j 08:08	21°♊46'23	1°05'08
min. Earth dist.	-4089 Jan 12 j 01:59	21°♊47'35	8.68973 AU
direct	-4089 Mar 23 j 17:07	18°♊20'23	
evening set	-4089 Jul 07 j 04:36	25°♊53'24	
conjunction	-4089 Jul 24 j 14:03	27°♊58'12	1°07'10
minimum elong	-4089 Jul 24 j 14:00	27°♊58'12	1°07'21
max. Earth dist.	-4089 Jul 24 j 19:36	27°♊59'53	10.76288 AU
morning rise	-4089 Aug 10 j 18:21	0°♋01'26	
	-4089 Aug 10 j 13:28	0°♋	
retrograde	-4089 Nov 17 j 14:39	7°♋07'18	
opposition	-4088 Jan 24 j 18:27	3°♋48'32	1°37'57
min. Earth dist.	-4088 Jan 24 j 14:18	3°♋49'20	8.83207 AU
direct	-4088 Apr 04 j 16:12	0°♋23'48	
evening set	-4088 Jul 18 j 15:22	7°♋47'36	
conjunction	-4088 Aug 04 j 19:33	9°♋49'14	1°32'06
minimum elong	-4088 Aug 04 j 19:30	9°♋49'13	1°32'17
max. Earth dist.	-4088 Aug 04 j 22:19	9°♋50'03	10.89802 AU
morning rise	-4088 Aug 21 j 18:39	11°♋49'23	
retrograde	-4088 Nov 28 j 07:29	18°♋47'34	
opposition	-4087 Feb 04 j 22:38	15°♋29'59	2°05'40
min. Earth dist.	-4087 Feb 04 j 20:47	15°♋30'20	8.95980 AU
direct	-4087 Apr 17 j 06:48	12°♋06'31	
evening set	-4087 Jul 30 j 16:06	19°♋22'07	
conjunction	-4087 Aug 16 j 15:13	21°♋20'57	1°52'39
minimum elong	-4087 Aug 16 j 15:10	21°♋20'56	1°52'49
max. Earth dist.	-4087 Aug 16 j 15:25	21°♋21'01	11.01593 AU
morning rise	-4087 Sep 02 j 09:26	23°♋18'26	
	-4087 Nov 25 j 06:11	0°♌	
retrograde	-4087 Dec 09 j 20:37	0°♌10'49	
	-4087 Dec 24 j 11:26	30°℞♋	
opposition	-4086 Feb 16 j 21:55	26°♋54'11	2°27'40
min. Earth dist.	-4086 Feb 16 j 23:16	26°♋53'56	9.06818 AU
direct	-4086 Apr 29 j 12:56	23°♋31'58	
	-4086 Aug 05 j 08:49	0°♌	
evening set	-4086 Aug 11 j 08:15	0°♌40'32	
conjunction	-4086 Aug 28 j 02:41	2°♌37'03	2°08'22
minimum elong	-4086 Aug 28 j 02:39	2°♌37'02	2°08'32
max. Earth dist.	-4086 Aug 27 j 23:12	2°♌36'02	11.11257 AU
morning rise	-4086 Sep 13 j 16:56	4°♌32'23	
retrograde	-4086 Dec 21 j 03:46	11°♌20'49	
opposition	-4085 Feb 28 j 17:29	8°♌04'51	2°43'34
min. Earth dist.	-4085 Feb 28 j 21:54	8°♌04'02	9.15356 AU
direct	-4085 May 11 j 12:08	4°♌43'48	
evening set	-4085 Aug 22 j 17:10	11°♌46'37	
conjunction	-4085 Sep 08 j 07:43	13°♌41'20	2°19'00
minimum elong	-4085 Sep 08 j 07:42	13°♌41'20	2°19'07
max. Earth dist.	-4085 Sep 08 j 00:45	13°♌39'19	11.18480 AU
	-4085 Sep 19 j 15:57	15°♌	

Attention, astronomical year style is used: The year -4085 in astronomical counting style is the year 4086 BCE in historical counting style.

morning rise	-4085 Sep 24 j 18:57	15°♌35'06	
retrograde	-4084 Jan 01 j 11:06	22°♌21'26	
opposition	-4084 Mar 11 j 10:27	19°♌05'50	2°53'13
min. Earth dist.	-4084 Mar 11 j 16:52	19°♌04'39	9.21300 AU
direct	-4084 May 22 j 08:24	15°♌45'50	
evening set	-4084 Sep 01 j 20:47	22°♌44'14	
conjunction	-4084 Sep 18 j 08:30	24°♌37'45	2°24'24
minimum elong	-4084 Sep 18 j 08:29	24°♌37'45	2°24'30
max. Earth dist.	-4084 Sep 17 j 23:39	24°♌35'12	11.23019 AU
morning rise	-4084 Oct 04 j 17:26	26°♌30'32	
	-4084 Nov 07 j 04:46	0°♍	
retrograde	-4083 Jan 11 j 18:45	3°♍16'30	
opposition	-4083 Mar 23 j 02:09	0°♍00'58	2°56'31
min. Earth dist.	-4083 Mar 23 j 10:16	29°♌59'30	9.24450 AU
	-4083 Mar 23 j 07:29	30°℞♌	
direct	-4083 Jun 02 j 22:27	26°♌41'54	
	-4083 Aug 08 j 23:16	0°♍	
evening set	-4083 Sep 12 j 20:49	3°♍37'15	
conjunction	-4083 Sep 29 j 06:36	5°♍30'08	2°24'32
minimum elong	-4083 Sep 29 j 06:37	5°♍30'09	2°24'37
max. Earth dist.	-4083 Sep 28 j 19:58	5°♍27'04	11.24727 AU
morning rise	-4083 Oct 15 j 14:19	7°♍22'32	
retrograde	-4082 Jan 23 j 03:52	14°♍09'53	
opposition	-4082 Apr 03 j 18:16	10°♍54'08	2°53'31
min. Earth dist.	-4082 Apr 04 j 04:34	10°♍52'16	9.24716 AU
direct	-4082 Jun 14 j 10:09	7°♍35'46	
evening set	-4082 Sep 23 j 18:58	14°♍29'28	
conjunction	-4082 Oct 10 j 03:40	16°♍22'19	2°19'27
minimum elong	-4082 Oct 10 j 03:42	16°♍22'20	2°19'30
max. Earth dist.	-4082 Oct 09 j 14:25	16°♍18'29	11.23561 AU
morning rise	-4082 Oct 26 j 11:25	18°♍14'57	
retrograde	-4081 Feb 03 j 15:02	25°♍05'22	
opposition	-4081 Apr 15 j 11:44	21°♍49'05	2°44'17
min. Earth dist.	-4081 Apr 16 j 00:16	21°♍46'48	9.22094 AU
direct	-4081 Jun 25 j 20:44	18°♍31'11	
evening set	-4081 Oct 04 j 17:12	25°♍24'41	
max. Earth dist.	-4081 Oct 20 j 11:03	27°♍13'46	11.19554 AU
conjunction	-4081 Oct 21 j 01:54	27°♍18'05	2°09'16
minimum elong	-4081 Oct 21 j 01:56	27°♍18'05	2°09'17
morning rise	-4081 Nov 06 j 10:38	29°♍11'33	
	-4081 Nov 13 j 14:45	0°♎	
retrograde	-4080 Feb 15 j 06:05	6°♎06'39	
opposition	-4080 Apr 26 j 07:31	2°♎49'32	2°29'00
min. Earth dist.	-4080 Apr 26 j 20:51	2°♎47'06	9.16653 AU
	-4080 Jun 11 j 21:30	30°℞♍	
direct	-4080 Jul 06 j 08:20	29°♍31'51	
	-4080 Jul 30 j 10:48	0°♎	
evening set	-4080 Oct 14 j 17:13	6°♎26'40	
max. Earth dist.	-4080 Oct 30 j 11:59	8°♎16'48	11.12810 AU
conjunction	-4080 Oct 31 j 02:58	8°♎21'11	1°54'12
minimum elong	-4080 Oct 31 j 03:01	8°♎21'12	1°54'11
morning rise	-4080 Nov 16 j 13:27	10°♎16'01	
retrograde	-4079 Feb 26 j 05:48	17°♎17'28	
opposition	-4079 May 08 j 07:17	13°♎59'14	2°07'56
min. Earth dist.	-4079 May 08 j 20:33	13°♎56'48	9.08550 AU
direct	-4079 Jul 17 j 22:02	10°♎41'33	
evening set	-4079 Oct 25 j 20:56	17°♎39'08	
conjunction	-4079 Nov 11 j 08:28	19°♎35'18	1°34'33
minimum elong	-4079 Nov 11 j 08:31	19°♎35'18	1°34'29
max. Earth dist.	-4079 Nov 10 j 17:09	19°♎30'46	11.03526 AU
morning rise	-4079 Nov 27 j 21:37	21°♎32'03	

retrograde	-4078 Mar 10 j 10:37	28°♎41'25	
opposition	-4078 May 20 j 12:04	25°♎21'48	1°41'28
min. Earth dist.	-4078 May 21 j 01:29	25°♎19'19	8.98033 AU
direct	-4078 Jul 29 j 12:47	22°♎03'49	
evening set	-4078 Nov 06 j 06:31	29°♎05'48	
	-4078 Nov 13 j 22:01	0°♏	
conjunction	-4078 Nov 22 j 20:27	1°♏04'05	1°10'45
minimum elong	-4078 Nov 22 j 20:30	1°♏04'06	1°10'40
max. Earth dist.	-4078 Nov 22 j 04:10	0°♏59'13	10.91983 AU
morning rise	-4078 Dec 09 j 13:09	3°♏03'15	
retrograde	-4077 Mar 22 j 23:54	10°♏22'02	
opposition	-4077 Jun 01 j 22:39	7°♏00'51	1°10'12
min. Earth dist.	-4077 Jun 02 j 12:28	6°♏58'15	8.85419 AU
direct	-4077 Aug 10 j 09:47	3°♏42'14	
evening set	-4077 Nov 17 j 23:40	10°♏50'17	
conjunction	-4077 Dec 04 j 16:45	12°♏51'10	0°43'27
minimum elong	-4077 Dec 04 j 16:47	12°♏51'11	0°43'20
max. Earth dist.	-4077 Dec 04 j 00:51	12°♏46'21	10.78519 AU
morning rise	-4077 Dec 21 j 13:27	14°♏53'12	
	-4077 Dec 22 j 12:23	15°♏	
retrograde	-4076 Apr 03 j 22:50	22°♏22'48	
opposition	-4076 Jun 13 j 16:16	18°♏59'54	0°34'57
min. Earth dist.	-4076 Jun 14 j 05:22	18°♏57'25	8.71109 AU
direct	-4076 Aug 21 j 12:23	15°♏40'27	
evening set	-4076 Nov 29 j 02:19	22°♏56'14	
conjunction	-4076 Dec 15 j 23:04	25°♏00'05	0°13'30
minimum elong	-4076 Dec 15 j 23:05	25°♏00'05	0°13'22
behind sun begin	-4076 Dec 15 j 18:58	24°♏58'50	
behind sun end	-4076 Dec 16 j 03:12	25°♏01'20	
max. Earth dist.	-4076 Dec 15 j 09:07	24°♏55'47	10.63604 AU
morning rise	-4075 Jan 01 j 23:58	27°♏05'18	
	-4075 Jan 27 j 08:57	0°♐	
retrograde	-4075 Apr 17 j 08:00	4°♐47'01	
desc. node	-4075 May 27 j 08:48	3°♐31'26	
opposition	-4075 Jun 26 j 17:47	1°♐22'17	-0°03'08
min. Earth dist.	-4075 Jun 27 j 04:42	1°♐20'11	8.55699 AU
	-4075 Jul 15 j 02:15	30°℞♏	
direct	-4075 Sep 02 j 23:01	28°♏01'47	
	-4075 Oct 20 j 18:56	0°♐	
evening set	-4075 Dec 11 j 16:37	5°♐26'50	
conjunction	-4075 Dec 28 j 17:17	7°♐33'55	-0°18'04
minimum elong	-4075 Dec 28 j 17:17	7°♐33'55	0°18'13
max. Earth dist.	-4075 Dec 28 j 05:37	7°♐30'16	10.47934 AU
morning rise	-4074 Jan 14 j 22:36	9°♐42'34	
retrograde	-4074 May 01 j 04:55	17°♐37'01	
opposition	-4074 Jul 10 j 03:37	14°♐10'27	-0°42'30
min. Earth dist.	-4074 Jul 10 j 11:43	14°♐08'52	8.39966 AU
direct	-4074 Sep 15 j 17:27	10°♐48'42	
evening set	-4074 Dec 24 j 19:58	18°♐24'13	
conjunction	-4073 Jan 11 j 00:36	20°♐34'40	-0°49'38
minimum elong	-4073 Jan 11 j 00:33	20°♐34'39	0°49'48
max. Earth dist.	-4073 Jan 10 j 15:18	20°♐31'42	10.32327 AU
morning rise	-4073 Jan 28 j 10:22	22°♐46'48	
	-4073 Apr 12 j 22:49	0°♑	
retrograde	-4073 May 15 j 12:44	0°♑53'58	
	-4073 Jun 17 j 07:30	30°℞♐	
opposition	-4073 Jul 23 j 21:59	27°♐25'41	-1°21'07
min. Earth dist.	-4073 Jul 24 j 03:23	27°♐24'37	8.24751 AU
direct	-4073 Sep 28 j 20:17	24°♐02'29	
	-4073 Dec 23 j 18:35	0°♑	
evening set	-4072 Jan 07 j 13:03	1°♑49'16	

Attention, astronomical year style is used: The year -4072 in astronomical counting style is the year 4073 BCE in historical counting style.

conjunction	-4072 Jan 24 j 21:36	4°♑03'00	-1°19'30	
minimum elong	-4072 Jan 24 j 21:33	4°♑02'59	1°19'41	
max. Earth dist.	-4072 Jan 24 j 15:31	4°♑01'02	10.17641 AU	
morning rise	-4072 Feb 11 j 11:36	6°♑18'30		
retrograde	-4072 May 29 j 04:40	14°♑37'33		
opposition	-4072 Aug 06 j 00:25	11°♑07'46	-1°56'34	
min. Earth dist.	-4072 Aug 06 j 02:55	11°♑07'15	8.10923 AU	
direct	-4072 Oct 11 j 10:58	7°♑43'02		
evening set	-4071 Jan 20 j 20:01	15°♑41'12		
conjunction	-4071 Feb 07 j 08:33	17°♑58'01	-1°45'39	
minimum elong	-4071 Feb 07 j 08:29	17°♑58'00	1°45'50	
max. Earth dist.	-4071 Feb 07 j 06:37	17°♑57'23	10.04752 AU	
morning rise	-4071 Feb 25 j 02:22	20°♑16'33		
retrograde	-4071 Jun 13 j 03:27	28°♑45'37		
opposition	-4071 Aug 20 j 09:52	25°♑14'38	-2°26'11	
min. Earth dist.	-4071 Aug 20 j 09:14	25°♑14'46	7.99328 AU	
direct	-4071 Oct 25 j 11:52	21°♑48'23		
evening set	-4070 Feb 04 j 15:52	29°♑57'12		
	-4070 Feb 05 j 00:30	0°♒		
conjunction	-4070 Feb 22 j 08:19	2°♒16'44	-2°06'01	
minimum elong	-4070 Feb 22 j 08:16	2°♒16'43	2°06'11	
max. Earth dist.	-4070 Feb 22 j 11:17	2°♒17'43	9.94475 AU	
morning rise	-4070 Mar 12 j 05:27	4°♒37'46		
retrograde	-4070 Jun 28 j 07:26	13°♒13'57		
opposition	-4070 Sep 04 j 00:42	9°♒42'10	-2°47'22	
min. Earth dist.	-4070 Sep 03 j 20:34	9°♒43'01	7.90702 AU	
direct	-4070 Nov 08 j 21:25	6°♒14'31		
evening set	-4069 Feb 19 j 22:35	14°♒32'18		
	-4069 Feb 23 j 11:10	15°♒		
conjunction	-4069 Mar 09 j 18:39	16°♒53'56	-2°18'46	
minimum elong	-4069 Mar 09 j 18:38	16°♒53'56	2°18'54	
max. Earth dist.	-4069 Mar 10 j 02:32	16°♒56'34	9.87495 AU	
morning rise	-4069 Mar 27 j 18:29	19°♒16'48		
retrograde	-4069 Jul 13 j 13:25	27°♒56'16		
opposition	-4069 Sep 18 j 18:40	24°♒24'10	-2°58'01	
min. Earth dist.	-4069 Sep 18 j 11:01	24°♒25'46	7.85621 AU	
direct	-4069 Nov 23 j 13:41	20°♒55'18		
evening set	-4068 Mar 06 j 12:45	29°♒19'29		
	-4068 Mar 11 j 16:00	0°♓		
conjunction	-4068 Mar 24 j 12:05	1°♓42'30	-2°22'36	
minimum elong	-4068 Mar 24 j 12:05	1°♓42'30	2°22'42	
max. Earth dist.	-4068 Mar 25 j 00:20	1°♓46'35	9.84311 AU	
morning rise	-4068 Apr 11 j 14:00	4°♓06'21		
retrograde	-4068 Jul 27 j 18:34	12°♓44'47		
opposition	-4068 Oct 02 j 13:25	9°♓12'52	-2°56'54	
min. Earth dist.	-4068 Oct 02 j 02:49	9°♓15'06	7.84445 AU	
direct	-4068 Dec 07 j 11:15	5°♓43'04		
evening set	-4067 Mar 22 j 06:22	14°♓10'22		
conjunction	-4067 Apr 09 j 08:23	16°♓33'54	-2°17'02	
minimum elong	-4067 Apr 09 j 08:26	16°♓33'55	2°17'05	
max. Earth dist.	-4067 Apr 10 j 00:05	16°♓39'08	9.85149 AU	
morning rise	-4067 Apr 27 j 11:39	18°♓57'50		
retrograde	-4067 Aug 11 j 19:00	27°♓30'56		
opposition	-4067 Oct 17 j 06:19	23°♓59'43	-2°44'02	
min. Earth dist.	-4067 Oct 16 j 17:42	24°♓02'22	7.87241 AU	
direct	-4067 Dec 22 j 11:50	20°♓29'19		
evening set	-4066 Apr 06 j 23:24	28°♓56'15		
	-4066 Apr 15 j 02:38	0°♈		
conjunction	-4066 Apr 25 j 03:10	1°♈19'23	-2°02'31	
minimum elong	-4066 Apr 25 j 03:14	1°♈19'24	2°02'31	
max. Earth dist.	-4066 Apr 25 j 20:57	1°♈25'16	9.89924 AU	
morning rise	-4066 May 13 j 06:46	3°♈42'26		
retrograde	-4066 Aug 26 j 11:00	12°♈06'30		
opposition	-4066 Oct 31 j 18:51	8°♈36'27	-2°20'36	
min. Earth dist.	-4066 Oct 31 j 05:25	8°♈39'16	7.93798 AU	
direct	-4065 Jan 06 j 11:57	5°♈05'50		
evening set	-4065 Apr 22 j 11:37	13°♈29'04		
conjunction	-4065 May 10 j 15:54	15°♈50'52	-1°40'22	
minimum elong	-4065 May 10 j 15:59	15°♈50'53	1°40'20	
max. Earth dist.	-4065 May 11 j 10:17	15°♈56'53	9.98283 AU	
morning rise	-4065 May 28 j 18:43	18°♈12'08		
retrograde	-4065 Sep 09 j 17:07	26°♈24'32		
min. Earth dist.	-4065 Nov 14 j 11:52	22°♈58'49	8.03661 AU	
opposition	-4065 Nov 15 j 01:14	22°♈56'03	-1°48'48	
direct	-4064 Jan 21 j 08:43	19°♈25'37		
evening set	-4064 May 06 j 15:30	27°♈42'19		
conjunction	-4064 May 24 j 19:00	0°♉01'58	-1°12'30	
minimum elong	-4064 May 24 j 19:03	0°♉01'59	1°12'26	
	-4064 May 24 j 12:53	0°♉		
max. Earth dist.	-4064 May 25 j 12:38	0°♉07'40	10.09640 AU	
morning rise	-4064 Jun 11 j 19:49	2°♉20'42		
retrograde	-4064 Sep 22 j 12:25	10°♉19'57		
opposition	-4064 Nov 27 j 23:56	6°♉53'17	-1°11'21	
min. Earth dist.	-4064 Nov 27 j 11:03	6°♉55'55	8.16167 AU	
direct	-4063 Feb 03 j 23:26	3°♉23'26		
evening set	-4063 May 21 j 09:05	11°♉31'37		
conjunction	-4063 Jun 08 j 10:22	13°♉48'28	-0°41'08	
minimum elong	-4063 Jun 08 j 10:24	13°♉48'28	0°41'02	
max. Earth dist.	-4063 Jun 09 j 02:22	13°♉53'32	10.23243 AU	
	-4063 Jun 17 j 19:51	15°♉		
morning rise	-4063 Jun 26 j 07:58	16°♉04'03		
retrograde	-4063 Oct 05 j 20:48	23°♉49'45		
opposition	-4063 Dec 11 j 14:08	20°♉25'03	-0°31'06	
min. Earth dist.	-4063 Dec 11 j 02:02	20°♉27'29	8.30531 AU	
direct	-4062 Feb 18 j 07:13	16°♉56'08		
evening set	-4062 Jun 04 j 14:43	24°♉54'36		
conjunction	-4062 Jun 22 j 12:32	27°♉08'10	-0°08'26	
minimum elong	-4062 Jun 22 j 12:32	27°♉08'10	0°08'18	
behind sun begin	-4062 Jun 22 j 06:09	27°♉06'11		
behind sun end	-4062 Jun 22 j 18:55	27°♉10'09		
max. Earth dist.	-4062 Jun 23 j 02:32	27°♉12'32	10.38264 AU	
morning rise	-4062 Jul 10 j 05:48	29°♉20'15		
	-4062 Jul 15 j 16:46	0°♊		
asc. node	-4062 Sep 27 j 16:23	6°♊28'36		
retrograde	-4062 Oct 18 j 18:05	6°♊52'59		
opposition	-4062 Dec 24 j 19:59	3°♊30'15	0°09'22	
min. Earth dist.	-4062 Dec 24 j 08:55	3°♊32'27	8.45926 AU	
direct	-4061 Mar 04 j 06:14	0°♊02'31		
evening set	-4061 Jun 18 j 07:35	7°♊50'44		
conjunction	-4061 Jul 06 j 00:59	10°♊00'47	0°23'50	
minimum elong	-4061 Jul 06 j 00:57	10°♊00'46	0°23'59	
max. Earth dist.	-4061 Jul 06 j 13:04	10°♊04'30	10.53871 AU	
morning rise	-4061 Jul 23 j 13:10	12°♊09'14		
retrograde	-4061 Oct 31 j 06:50	19°♊30'09		
opposition	-4060 Jan 06 j 17:40	16°♊09'17	0°47'55	
min. Earth dist.	-4060 Jan 06 j 08:46	16°♊11'02	8.61540 AU	
direct	-4060 Mar 16 j 18:59	12°♊42'54		
evening set	-4060 Jun 30 j 12:12	20°♊20'58		
conjunction	-4060 Jul 18 j 00:28	22°♊27'30	0°53'55	
minimum elong	-4060 Jul 18 j 00:25	22°♊27'29	0°54'05	
max. Earth dist.	-4060 Jul 18 j 09:45	22°♊30'18	10.69276 AU	
morning rise	-4060 Aug 04 j 07:15	24°♊32'24		

Attention, astronomical year style is used: The year -4060 in astronomical counting style is the year 4061 BCE in historical counting style.

	-4060 Sep 27 j 14:05	0°♋	
retrograde	-4060 Nov 11 j 11:27	1°♋42'57	
	-4060 Dec 27 j 13:52	30°℞♊	
opposition	-4059 Jan 18 j 07:44	28°♊23'48	1°22'54
min. Earth dist.	-4059 Jan 18 j 01:54	28°♊24'56	8.76620 AU
direct	-4059 Mar 29 j 21:05	24°♊58'48	
	-4059 Jun 21 j 08:12	0°♋	
evening set	-4059 Jul 13 j 05:09	2°♋27'17	

conjunction	-4059 Jul 30 j 11:54	4°♋30'27	1°20'45
minimum elong	-4059 Jul 30 j 11:51	4°♋30'26	1°20'56
max. Earth dist.	-4059 Jul 30 j 17:12	4°♋32'02	10.83772 AU
morning rise	-4059 Aug 16 j 13:24	6°♋32'04	
retrograde	-4059 Nov 23 j 06:08	13°♋33'59	
opposition	-4058 Jan 30 j 15:21	10°♋16'18	1°53'10
min. Earth dist.	-4058 Jan 30 j 12:38	10°♋16'48	8.90491 AU
direct	-4058 Apr 11 j 17:11	6°♋52'39	
evening set	-4058 Jul 25 j 11:08	14°♋12'23	

conjunction	-4058 Aug 11 j 12:30	16°♋12'30	1°43'28
minimum elong	-4058 Aug 11 j 12:27	16°♋12'29	1°43'39
max. Earth dist.	-4058 Aug 11 j 13:37	16°♋12'50	10.96744 AU
morning rise	-4058 Aug 28 j 09:05	18°♋11'13	
retrograde	-4058 Dec 04 j 20:58	25°♋06'23	
opposition	-4057 Feb 11 j 17:19	21°♋49'48	2°17'56
min. Earth dist.	-4057 Feb 11 j 16:57	21°♋49'52	9.02563 AU
direct	-4057 Apr 24 j 04:58	18°♋27'29	
evening set	-4057 Aug 06 j 07:41	25°♋39'29	

conjunction	-4057 Aug 23 j 04:15	27°♋37'02	2°01'31
minimum elong	-4057 Aug 23 j 04:12	27°♋37'01	2°01'41
max. Earth dist.	-4057 Aug 23 j 02:21	27°♋36'28	11.07654 AU
morning rise	-4057 Sep 08 j 20:24	29°♋33'19	
	-4057 Sep 12 j 18:10	0°♌	
retrograde	-4057 Dec 16 j 07:40	6°♌23'34	
opposition	-4056 Feb 23 j 14:43	3°♌07'47	2°36'45
min. Earth dist.	-4056 Feb 23 j 17:02	3°♌07'21	9.12325 AU
	-4056 Apr 18 j 11:14	30°℞♋	
direct	-4056 May 05 j 07:42	29°♋46'40	
	-4056 May 22 j 02:01	0°♌	
evening set	-4056 Aug 16 j 20:23	6°♌52'14	

conjunction	-4056 Sep 02 j 12:50	8°♌47'45	2°14'35
minimum elong	-4056 Sep 02 j 12:48	8°♌47'45	2°14'43
max. Earth dist.	-4056 Sep 02 j 07:57	8°♌46'20	11.16048 AU
morning rise	-4056 Sep 19 j 01:16	10°♌42'11	
	-4056 Oct 31 j 11:02	15°♌	
retrograde	-4056 Dec 26 j 16:33	17°♌29'27	
	-4055 Feb 23 j 21:10	15°℞♌	
opposition	-4055 Mar 06 j 09:15	14°♌14'09	2°49'22
min. Earth dist.	-4055 Mar 06 j 14:55	14°♌13'06	9.19394 AU
direct	-4055 May 17 j 05:21	10°♌54'05	
	-4055 Jul 31 j 20:04	15°♌	
evening set	-4055 Aug 28 j 02:56	17°♌54'38	

conjunction	-4055 Sep 13 j 15:53	19°♌48'41	2°22'26
minimum elong	-4055 Sep 13 j 15:52	19°♌48'40	2°22'33
max. Earth dist.	-4055 Sep 13 j 07:17	19°♌46'11	11.21649 AU
morning rise	-4055 Sep 30 j 01:43	21°♌41'52	
retrograde	-4054 Jan 06 j 23:15	28°♌27'59	
opposition	-4054 Mar 18 j 02:07	25°♌12'50	2°55'39
min. Earth dist.	-4054 Mar 18 j 11:03	25°♌11'12	9.23585 AU
direct	-4054 May 28 j 21:45	21°♌53'38	
evening set	-4054 Sep 08 j 05:03	28°♌50'32	
	-4054 Sep 18 j 08:11	0°♍	

conjunction	-4054 Sep 24 j 15:31	0°♍43'41	2°25'02
minimum elong	-4054 Sep 24 j 15:31	0°♍43'41	2°25'07
max. Earth dist.	-4054 Sep 24 j 03:44	0°♍40'17	11.24356 AU
morning rise	-4054 Oct 10 j 23:49	2°♍36'15	
retrograde	-4053 Jan 18 j 06:53	9°♍23'01	
opposition	-4053 Mar 29 j 18:21	6°♍07'36	2°55'35
min. Earth dist.	-4053 Mar 30 j 05:08	6°♍05'38	9.24833 AU
direct	-4053 Jun 09 j 12:34	2°♍49'00	
evening set	-4053 Sep 19 j 04:14	9°♍43'39	

conjunction	-4053 Oct 05 j 13:25	11°♍36'32	2°22'22
minimum elong	-4053 Oct 05 j 13:26	11°♍36'32	2°22'27
max. Earth dist.	-4053 Oct 05 j 00:13	11°♍32'43	11.24131 AU
morning rise	-4053 Oct 21 j 21:06	13°♍29'03	
retrograde	-4052 Jan 29 j 18:03	20°♍18'07	
opposition	-4052 Apr 09 j 11:16	17°♍02'07	2°49'15
min. Earth dist.	-4052 Apr 09 j 23:12	16°♍59'57	9.23124 AU
direct	-4052 Jun 20 j 00:39	13°♍43'56	
evening set	-4052 Sep 29 j 02:32	20°♍37'42	

conjunction	-4052 Oct 15 j 11:19	22°♍30'53	2°14'33
minimum elong	-4052 Oct 15 j 11:21	22°♍30'53	2°14'35
max. Earth dist.	-4052 Oct 14 j 20:52	22°♍26'41	11.20996 AU
morning rise	-4052 Oct 31 j 19:22	24°♍23'58	
	-4052 Dec 31 j 00:03	0°♎	
retrograde	-4051 Feb 09 j 07:50	1°♎17'00	
	-4051 Mar 22 j 18:12	30°℞♍	
opposition	-4051 Apr 21 j 06:13	28°♍00'06	2°36'47
min. Earth dist.	-4051 Apr 21 j 19:41	27°♍57'38	9.18536 AU
direct	-4051 Jul 01 j 11:23	24°♍42'04	
	-4051 Sep 25 j 14:55	0°♎	
evening set	-4051 Oct 10 j 01:47	1°♎36'27	

conjunction	-4051 Oct 26 j 10:57	3°♎30'29	2°01'43
minimum elong	-4051 Oct 26 j 10:59	3°♎30'30	2°01'43
max. Earth dist.	-4051 Oct 25 j 18:32	3°♎25'42	11.15078 AU
morning rise	-4051 Nov 11 j 20:34	5°♎24'44	
retrograde	-4050 Feb 21 j 02:53	12°♎23'22	
opposition	-4050 May 03 j 04:23	9°♎05'18	2°18'22
min. Earth dist.	-4050 May 03 j 19:11	9°♎02'35	9.11242 AU
direct	-4050 Jul 12 j 23:48	5°♎47'11	
evening set	-4050 Oct 21 j 03:37	12°♎43'42	

conjunction	-4050 Nov 06 j 14:12	14°♎39'10	1°44'09
minimum elong	-4050 Nov 06 j 14:15	14°♎39'11	1°44'06
max. Earth dist.	-4050 Nov 05 j 21:11	14°♎34'08	11.06577 AU
morning rise	-4050 Nov 23 j 02:15	16°♎35'07	
retrograde	-4049 Mar 05 j 03:15	23°♎41'01	
opposition	-4049 May 15 j 06:46	20°♎21'32	1°54'21
min. Earth dist.	-4049 May 15 j 21:40	20°♎18'47	9.01478 AU
direct	-4049 Jul 24 j 14:50	17°♎03'05	
evening set	-4049 Nov 01 j 10:16	24°♎03'22	

conjunction	-4049 Nov 17 j 23:10	26°♎00'46	1°22'13
minimum elong	-4049 Nov 17 j 23:12	26°♎00'47	1°22'08
max. Earth dist.	-4049 Nov 17 j 07:03	25°♎55'58	10.95752 AU
morning rise	-4049 Dec 04 j 14:11	27°♎58'55	
	-4049 Dec 22 j 11:06	0°♏	
retrograde	-4048 Mar 16 j 13:42	5°♏13'40	
opposition	-4048 May 26 j 14:27	1°♏52'35	1°25'13
min. Earth dist.	-4048 May 27 j 04:10	1°♏50'02	8.89563 AU
	-4048 Jun 22 j 07:35	30°℞♎	
direct	-4048 Aug 04 j 10:09	28°♎33'39	
	-4048 Sep 15 j 01:53	0°♏	
evening set	-4048 Nov 11 j 23:41	5°♏39'16	

conjunction	-4048 Nov 28 j 15:26	7°♏39'06	0°56'26
minimum elong	-4048 Nov 28 j 15:29	7°♏39'06	0°56'20

Attention, astronomical year style is used: The year -4048 in astronomical counting style is the year 4049 BCE in historical counting style.

max. Earth dist.	-4048 Nov 27 j 23:56	7♏34'25	10.82977 AU
morning rise	-4048 Dec 15 j 10:08	9♏39'56	
	-4047 Feb 05 j 21:30	15♏	
retrograde	-4047 Mar 29 j 09:22	17♏04'56	
	-4047 May 21 j 13:43	15℞♏	
opposition	-4047 Jun 08 j 04:57	13♏42'11	0°51'39
min. Earth dist.	-4047 Jun 08 j 17:29	13♏39'49	8.75933 AU
direct	-4047 Aug 16 j 08:12	10♏22'32	
	-4047 Nov 01 j 07:14	15♏	
evening set	-4047 Nov 23 j 21:48	17♏35'07	
conjunction	-4047 Dec 10 j 16:50	19♏37'45	0°27'33
minimum elong	-4047 Dec 10 j 16:51	19♏37'45	0°27'26
max. Earth dist.	-4047 Dec 10 j 01:58	19♏33'12	10.68732 AU
morning rise	-4047 Dec 27 j 15:49	21♏41'38	
retrograde	-4046 Apr 11 j 13:13	29♏18'11	
opposition	-4046 Jun 21 j 02:59	25♏53'41	0°14'40
min. Earth dist.	-4046 Jun 21 j 14:20	25♏51'30	8.61124 AU
direct	-4046 Aug 28 j 14:58	22♏33'06	
desc. node	-4046 Nov 12 j 00:20	27♏05'45	
evening set	-4046 Dec 06 j 06:40	29♏54'14	
	-4046 Dec 07 j 01:35	0♐	
conjunction	-4046 Dec 23 j 05:26	1♐59'58	-0°03'30
minimum elong	-4046 Dec 23 j 05:25	1♐59'58	0°03'39
behind sun begin	-4046 Dec 22 j 22:24	1♐57'48	
behind sun end	-4046 Dec 23 j 12:27	2♐02'08	
max. Earth dist.	-4046 Dec 22 j 16:15	1♐55'53	10.53590 AU
morning rise	-4045 Jan 09 j 08:53	4♐07'11	
retrograde	-4045 Apr 25 j 04:24	11♐56'07	
opposition	-4045 Jul 04 j 08:57	8♐29'53	-0°24'21
min. Earth dist.	-4045 Jul 04 j 18:32	8♐28'01	8.45776 AU
direct	-4045 Sep 10 j 05:58	5♐08'13	
evening set	-4045 Dec 19 j 03:45	12♐39'15	
conjunction	-4044 Jan 05 j 06:33	14♐48'16	-0°35'12
minimum elong	-4044 Jan 05 j 06:31	14♐48'15	0°35'22
max. Earth dist.	-4044 Jan 04 j 20:47	14♐45'11	10.38229 AU
morning rise	-4044 Jan 22 j 14:22	16♐58'56	
retrograde	-4044 May 08 j 06:47	25♐00'38	
opposition	-4044 Jul 16 j 23:32	21♐32'45	-1°03'36
min. Earth dist.	-4044 Jul 17 j 06:01	21♐31'28	8.30626 AU
direct	-4044 Sep 22 j 05:21	18♐09'55	
evening set	-4044 Dec 31 j 14:14	25♐51'47	
conjunction	-4043 Jan 17 j 21:06	28♐04'07	-1°06'06
minimum elong	-4043 Jan 17 j 21:04	28♐04'07	1°06'16
max. Earth dist.	-4043 Jan 17 j 15:24	28♐02'17	10.23431 AU
	-4043 Feb 01 j 23:28	0♑	
morning rise	-4043 Feb 04 j 09:07	0♑18'11	
retrograde	-4043 May 22 j 19:04	8♑32'16	
opposition	-4043 Jul 30 j 22:28	5♑02'56	-1°40'50
min. Earth dist.	-4043 Jul 31 j 01:13	5♑02'23	8.16486 AU
direct	-4043 Oct 05 j 15:01	1♑38'49	
evening set	-4042 Jan 14 j 14:59	9♑32'01	
conjunction	-4042 Feb 01 j 01:50	11♑47'32	-1°34'13
minimum elong	-4042 Feb 01 j 01:47	11♑47'31	1°34'23
max. Earth dist.	-4042 Feb 01 j 00:19	11♑47'02	10.10040 AU
morning rise	-4042 Feb 18 j 17:48	14♑04'46	
retrograde	-4042 Jun 06 j 15:45	22♑29'48	
opposition	-4042 Aug 14 j 04:55	18♑59'19	-2°13'26
min. Earth dist.	-4042 Aug 14 j 03:58	18♑59'30	8.04195 AU
direct	-4042 Oct 19 j 10:15	15♑33'53	
evening set	-4041 Jan 29 j 05:25	23♑38'08	
conjunction	-4041 Feb 15 j 20:05	25♑56'30	-1°57'28
minimum elong	-4041 Feb 15 j 20:01	25♑56'29	1°57'38
max. Earth dist.	-4041 Feb 15 j 22:36	25♑57'20	9.98896 AU
morning rise	-4041 Mar 05 j 15:36	28♑16'28	
	-4041 Mar 19 j 07:22	0♒	
retrograde	-4041 Jun 21 j 19:16	6♒49'59	
opposition	-4041 Aug 28 j 17:46	3♒18'43	-2°38'45
min. Earth dist.	-4041 Aug 28 j 13:31	3♒19'36	7.94547 AU
	-4041 Oct 21 j 21:15	30℞♑	
direct	-4041 Nov 02 j 14:47	29♑52'02	
	-4041 Nov 14 j 08:16	0♒	
evening set	-4040 Feb 13 j 07:38	8♒06'01	
conjunction	-4040 Mar 02 j 01:52	10♒26'43	-2°13'53
minimum elong	-4040 Mar 02 j 01:50	10♒26'42	2°14'02
max. Earth dist.	-4040 Mar 02 j 08:33	10♒28'56	9.90760 AU
morning rise	-4040 Mar 20 j 00:28	12♒48'48	
	-4040 Apr 06 j 07:18	15♒	
retrograde	-4040 Jul 06 j 01:55	21♒27'21	
opposition	-4040 Sep 11 j 11:00	17♒55'43	-2°54'23
min. Earth dist.	-4040 Sep 11 j 03:56	17♒57'12	7.88212 AU
	-4040 Oct 23 j 11:44	15℞♒	
direct	-4040 Nov 16 j 04:07	14♒27'53	
	-4040 Dec 09 j 19:12	15♒	
evening set	-4039 Feb 27 j 19:06	22♒49'22	
conjunction	-4039 Mar 17 j 16:44	25♒11'44	-2°21'53
minimum elong	-4039 Mar 17 j 16:44	25♒11'44	2°22'00
max. Earth dist.	-4039 Mar 18 j 03:27	25♒15'19	9.86222 AU
morning rise	-4039 Apr 04 j 17:49	27♒35'11	
	-4039 Apr 23 j 19:42	0♓	
retrograde	-4039 Jul 21 j 08:18	6♓14'28	
opposition	-4039 Sep 26 j 05:56	2♓42'56	-2°58'40
min. Earth dist.	-4039 Sep 25 j 20:26	2♓44'56	7.85631 AU
	-4039 Nov 02 j 13:05	30℞♒	
direct	-4039 Dec 01 j 00:46	29♒14'06	
	-4039 Dec 29 j 09:17	0♓	
evening set	-4038 Mar 15 j 11:54	7♓40'04	
conjunction	-4038 Apr 02 j 12:32	10♓03'18	-2°20'35
minimum elong	-4038 Apr 02 j 12:33	10♓03'19	2°20'40
max. Earth dist.	-4038 Apr 03 j 02:33	10♓07'59	9.85584 AU
morning rise	-4038 Apr 20 j 15:21	12♓27'11	
retrograde	-4038 Aug 05 j 10:21	21♓02'48	
opposition	-4038 Oct 11 j 00:04	17♓31'49	-2°51'04
min. Earth dist.	-4038 Oct 10 j 12:37	17♓34'13	7.86930 AU
direct	-4038 Dec 16 j 01:50	14♓02'14	
evening set	-4037 Mar 31 j 05:38	22♓29'13	
conjunction	-4037 Apr 18 j 08:29	24♓52'25	-2°10'02
minimum elong	-4037 Apr 18 j 08:32	24♓52'26	2°10'03
max. Earth dist.	-4037 Apr 19 j 00:42	24♓57'48	9.88800 AU
morning rise	-4037 May 06 j 12:05	27♓15'48	
	-4037 May 28 j 10:00	0♈	
retrograde	-4037 Aug 20 j 04:54	5♈43'51	
opposition	-4037 Oct 25 j 14:44	2♈13'50	-2°32'14
min. Earth dist.	-4037 Oct 25 j 01:58	2♈16'30	7.91897 AU
	-4037 Nov 23 j 14:24	30℞♓	
direct	-4037 Dec 31 j 02:41	28♓43'51	
	-4036 Feb 06 j 07:54	0♈	
evening set	-4036 Apr 14 j 20:15	7♈08'33	
conjunction	-4036 May 03 j 00:22	9♈30'53	-1°51'09
minimum elong	-4036 May 03 j 00:26	9♈30'54	1°51'09
max. Earth dist.	-4036 May 03 j 17:39	9♈36'34	9.95515 AU
morning rise	-4036 May 21 j 03:42	11♈52'53	
retrograde	-4036 Sep 02 j 15:38	20♈10'30	
opposition	-4036 Nov 07 j 23:55	16♈41'50	-2°03'57

Attention, astronomical year style is used: The year -4036 in astronomical counting style is the year 4037 BCE in historical counting style.

min. Earth dist.	-4036 Nov 07 j 10:30	16°♈44'37	8.00104 AU
direct	-4035 Jan 14 j 00:39	13°♈11'50	
evening set	-4035 Apr 30 j 04:24	21°♈31'27	
conjunction	-4035 May 18 j 08:31	23°♈52'05	-1°25'38
minimum elong	-4035 May 18 j 08:35	23°♈52'07	1°25'35
max. Earth dist.	-4035 May 19 j 02:03	23°♈57'47	10.05247 AU
morning rise	-4035 Jun 05 j 10:22	26°♈11'57	
	-4035 Jul 07 j 09:43	0°♉	
retrograde	-4035 Sep 16 j 17:10	4°♉17'14	
opposition	-4035 Nov 22 j 02:21	0°♉50'12	-1°28'45
min. Earth dist.	-4035 Nov 21 j 13:14	0°♉52'53	8.11063 AU
	-4035 Dec 02 j 08:59	30°℞♈	
direct	-4034 Jan 28 j 17:35	27°♈20'32	
	-4034 Mar 25 j 21:40	0°♉	
evening set	-4034 May 15 j 03:22	5°♉32'45	
conjunction	-4034 Jun 02 j 05:57	7°♉50'56	-0°55'34
minimum elong	-4034 Jun 02 j 06:00	7°♉50'57	0°55'29
max. Earth dist.	-4034 Jun 02 j 22:37	7°♉56'16	10.17438 AU
morning rise	-4034 Jun 20 j 05:00	10°♉07'58	
	-4034 Aug 02 j 10:17	15°♉	
retrograde	-4034 Sep 30 j 08:12	18°♉00'02	
	-4034 Nov 30 j 16:29	15°℞♉	
opposition	-4034 Dec 05 j 20:56	14°♉34'47	-0°49'25
min. Earth dist.	-4034 Dec 05 j 09:01	14°♉37'12	8.24169 AU
direct	-4033 Feb 12 j 04:40	11°♉05'43	
	-4033 Apr 23 j 05:56	15°♉	
evening set	-4033 May 29 j 15:04	19°♉08'55	
conjunction	-4033 Jun 16 j 14:42	21°♉24'04	-0°23'11
minimum elong	-4033 Jun 16 j 14:43	21°♉24'04	0°23'04
max. Earth dist.	-4033 Jun 17 j 05:20	21°♉28'41	10.31394 AU
morning rise	-4033 Jul 04 j 09:56	23°♉37'50	
	-4033 Sep 05 j 16:16	0°♊	
retrograde	-4033 Oct 13 j 10:35	1°♊16'43	
	-4033 Nov 20 j 18:53	30°℞♉	
opposition	-4033 Dec 19 j 07:07	27°♉53'16	-0°08'43
min. Earth dist.	-4033 Dec 18 j 21:05	27°♉55'17	8.38687 AU
direct	-4032 Feb 26 j 08:28	24°♉25'04	
asc. node	-4032 Mar 09 j 22:44	24°♉33'19	
	-4032 May 22 j 22:29	0°♊	
evening set	-4032 Jun 11 j 14:21	2°♊18'21	
conjunction	-4032 Jun 29 j 09:53	4°♊30'07	0°09'34
minimum elong	-4032 Jun 29 j 09:52	4°♊30'06	0°09'43
behind sun begin	-4032 Jun 29 j 03:57	4°♊28'18	
behind sun end	-4032 Jun 29 j 15:47	4°♊31'55	
max. Earth dist.	-4032 Jun 29 j 21:27	4°♊33'41	10.46331 AU
morning rise	-4032 Jul 17 j 00:33	6°♊40'20	
retrograde	-4032 Oct 25 j 02:47	14°♊06'53	
opposition	-4032 Dec 31 j 08:54	10°♊45'11	0°30'58
min. Earth dist.	-4032 Dec 31 j 00:45	10°♊46'47	8.53813 AU
direct	-4031 Mar 11 j 02:59	7°♊18'02	
evening set	-4031 Jun 25 j 01:07	15°♊01'11	
conjunction	-4031 Jul 12 j 15:44	17°♊09'26	0°40'46
minimum elong	-4031 Jul 12 j 15:42	17°♊09'25	0°40'57
max. Earth dist.	-4031 Jul 12 j 23:59	17°♊11'57	10.61450 AU
morning rise	-4031 Jul 30 j 01:14	19°♊16'05	
retrograde	-4031 Nov 06 j 10:19	26°♊31'37	
opposition	-4030 Jan 13 j 02:42	23°♊11'30	1°07'47
min. Earth dist.	-4030 Jan 12 j 20:14	23°♊12'45	8.68773 AU
direct	-4030 Mar 24 j 11:35	19°♊45'34	
evening set	-4030 Jul 07 j 23:34	27°♊18'51	
conjunction	-4030 Jul 25 j 08:56	29°♊23'41	1°09'13
minimum elong	-4030 Jul 25 j 08:53	29°♊23'40	1°09'24
max. Earth dist.	-4030 Jul 25 j 14:41	29°♊25'25	10.76026 AU
	-4030 Jul 30 j 09:29	0°♋	
morning rise	-4030 Aug 11 j 13:00	1°♋26'56	
retrograde	-4030 Nov 18 j 09:51	8°♋33'06	
opposition	-4029 Jan 25 j 13:29	5°♋14'23	1°40'21
min. Earth dist.	-4029 Jan 25 j 09:08	5°♋15'12	8.82885 AU
direct	-4029 Apr 06 j 11:23	1°♋49'42	
evening set	-4029 Jul 20 j 10:30	9°♋13'49	
conjunction	-4029 Aug 06 j 14:33	11°♋15'28	1°33'54
minimum elong	-4029 Aug 06 j 14:30	11°♋15'27	1°34'05
max. Earth dist.	-4029 Aug 06 j 17:47	11°♋16'26	10.89425 AU
morning rise	-4029 Aug 23 j 13:22	13°♋15'37	
retrograde	-4029 Nov 30 j 04:02	20°♋14'13	
opposition	-4028 Feb 06 j 18:07	16°♋56'39	2°07'42
min. Earth dist.	-4028 Feb 06 j 16:52	16°♋56'54	8.95558 AU
direct	-4028 Apr 18 j 01:18	13°♋33'14	
evening set	-4028 Jul 31 j 11:31	20°♋49'10	
conjunction	-4028 Aug 17 j 10:23	22°♋48'03	1°54'08
minimum elong	-4028 Aug 17 j 10:20	22°♋48'02	1°54'18
max. Earth dist.	-4028 Aug 17 j 10:01	22°♋47'56	11.01122 AU
morning rise	-4028 Sep 03 j 04:30	24°♋45'33	
	-4028 Oct 27 j 00:10	0°♌	
retrograde	-4028 Dec 10 j 15:04	1°♌38'21	
	-4027 Jan 25 j 17:44	30°℞♋	
opposition	-4027 Feb 17 j 17:40	28°♋21'43	2°29'16
min. Earth dist.	-4027 Feb 17 j 19:35	28°♋21'21	9.06315 AU
direct	-4027 Apr 30 j 07:31	24°♋59'30	
	-4027 Jul 23 j 16:46	0°♌	
evening set	-4027 Aug 12 j 03:53	2°♌08'26	
conjunction	-4027 Aug 28 j 22:05	4°♌04'59	2°09'28
minimum elong	-4027 Aug 28 j 22:02	4°♌04'58	2°09'36
max. Earth dist.	-4027 Aug 28 j 17:57	4°♌03'47	11.10714 AU
morning rise	-4027 Sep 14 j 12:18	6°♌00'23	
retrograde	-4027 Dec 22 j 00:09	12°♌49'16	
opposition	-4026 Mar 01 j 13:34	9°♌33'15	2°44'41
min. Earth dist.	-4026 Mar 01 j 17:37	9°♌32'30	9.14784 AU
direct	-4026 May 12 j 09:40	6°♌12'11	
evening set	-4026 Aug 23 j 12:55	13°♌15'20	
	-4026 Sep 07 j 16:34	15°♌	
conjunction	-4026 Sep 09 j 03:24	15°♌10'07	2°19'40
minimum elong	-4026 Sep 09 j 03:23	15°♌10'06	2°19'47
max. Earth dist.	-4026 Sep 08 j 21:02	15°♌08'16	11.17879 AU
morning rise	-4026 Sep 25 j 14:28	17°♌03'56	
retrograde	-4025 Jan 02 j 07:56	23°♌50'43	
opposition	-4025 Mar 13 j 06:55	20°♌35'02	2°53'47
min. Earth dist.	-4025 Mar 13 j 12:38	20°♌33'59	9.20677 AU
direct	-4025 May 24 j 03:59	17°♌15'02	
evening set	-4025 Sep 03 j 16:42	24°♌13'42	
conjunction	-4025 Sep 20 j 04:25	26°♌07'18	2°24'36
minimum elong	-4025 Sep 20 j 04:24	26°♌07'18	2°24'42
max. Earth dist.	-4025 Sep 19 j 20:16	26°♌04'56	11.22383 AU
morning rise	-4025 Oct 06 j 13:15	28°♌00'09	
	-4025 Oct 24 j 19:59	0°♍	
retrograde	-4024 Jan 13 j 15:42	4°♍46'33	
opposition	-4024 Mar 23 j 23:00	1°♍30'56	2°56'31
min. Earth dist.	-4024 Mar 24 j 07:15	1°♍29'26	9.23808 AU
	-4024 Apr 14 j 13:03	30°℞♌	
direct	-4024 Jun 03 j 18:28	28°♌11'49	
	-4024 Jul 22 j 09:24	0°♍	
evening set	-4024 Sep 13 j 17:00	5°♍07'26	

Attention, astronomical year style is used: The year -4024 in astronomical counting style is the year 4025 BCE in historical counting style.

conjunction	-4024 Sep 30 j 02:42	7°♑00'24	2°24'16
minimum elong	-4024 Sep 30 j 02:42	7°♑00'24	2°24'21
max. Earth dist.	-4024 Sep 29 j 15:38	6°♑57'12	11.24085 AU
morning rise	-4024 Oct 16 j 10:31	8°♑52'53	
retrograde	-4023 Jan 24 j 00:20	15°♑40'37	
opposition	-4023 Apr 04 j 15:23	12°♑24'47	2°52'55
min. Earth dist.	-4023 Apr 05 j 02:06	12°♑22'50	9.24081 AU
direct	-4023 Jun 15 j 06:18	9°♑06'21	
evening set	-4023 Sep 24 j 15:19	16°♑00'17	
max. Earth dist.	-4023 Oct 10 j 10:46	17°♑49'23	11.22939 AU
conjunction	-4023 Oct 11 j 00:00	17°♑53'13	2°18'42
minimum elong	-4023 Oct 11 j 00:02	17°♑53'13	2°18'46
morning rise	-4023 Oct 27 j 07:53	19°♑45'57	
retrograde	-4022 Feb 04 j 11:17	26°♑36'45	
opposition	-4022 Apr 16 j 09:07	23°♑20'21	2°43'06
min. Earth dist.	-4022 Apr 16 j 21:06	23°♑18'10	9.21486 AU
direct	-4022 Jun 26 j 18:17	20°♑02'23	
evening set	-4022 Oct 05 j 13:38	26°♑56'05	
conjunction	-4022 Oct 21 j 22:31	28°♑49'34	2°08'03
minimum elong	-4022 Oct 21 j 22:34	28°♑49'35	2°08'05
max. Earth dist.	-4022 Oct 21 j 08:51	28°♑45'35	11.18971 AU
	-4022 Nov 01 j 01:00	0°♎	
morning rise	-4022 Nov 07 j 07:18	0°♎43'07	
retrograde	-4021 Feb 16 j 05:23	7°♎38'36	
opposition	-4021 Apr 28 j 05:11	4°♎21'21	2°27'16
min. Earth dist.	-4021 Apr 28 j 17:28	4°♎19'07	9.16097 AU
direct	-4021 Jul 08 j 06:29	1°♎03'39	
evening set	-4021 Oct 16 j 13:51	7°♎58'34	
conjunction	-4021 Nov 01 j 23:46	9°♎53'11	1°52'33
minimum elong	-4021 Nov 01 j 23:49	9°♎53'12	1°52'32
max. Earth dist.	-4021 Nov 01 j 09:21	9°♎48'57	11.12291 AU
morning rise	-4021 Nov 18 j 10:24	11°♎48'07	
retrograde	-4020 Feb 28 j 03:05	18°♎49'53	
opposition	-4020 May 09 j 05:10	15°♎31'32	2°05'41
min. Earth dist.	-4020 May 09 j 18:06	15°♎29'10	9.08072 AU
direct	-4020 Jul 18 j 17:42	12°♎13'49	
evening set	-4020 Oct 26 j 17:51	19°♎11'31	
conjunction	-4020 Nov 12 j 05:26	21°♎07'45	1°32'31
minimum elong	-4020 Nov 12 j 05:29	21°♎07'46	1°32'27
max. Earth dist.	-4020 Nov 11 j 13:49	21°♎03'08	11.03106 AU
morning rise	-4020 Nov 28 j 18:54	23°♎04'36	
	-4019 Feb 22 j 04:58	0°♏	
retrograde	-4019 Mar 11 j 08:16	0°♏14'14	
	-4019 Mar 28 j 14:40	30°℞♎	
opposition	-4019 May 21 j 10:06	26°♎54'33	1°38'48
min. Earth dist.	-4019 May 21 j 23:44	26°♎52'01	8.97673 AU
direct	-4019 Jul 30 j 10:47	23°♎36'30	
	-4019 Nov 01 j 14:37	0°♏	
evening set	-4019 Nov 07 j 03:34	0°♏38'34	
conjunction	-4019 Nov 23 j 17:40	2°♏36'55	1°08'25
minimum elong	-4019 Nov 23 j 17:42	2°♏36'56	1°08'20
max. Earth dist.	-4019 Nov 23 j 02:01	2°♏32'14	10.91706 AU
morning rise	-4019 Dec 10 j 10:36	4°♏36'11	
retrograde	-4018 Mar 23 j 21:40	11°♏55'09	
opposition	-4018 Jun 02 j 20:51	8°♏33'53	1°07'11
min. Earth dist.	-4018 Jun 03 j 10:10	8°♏31'23	8.85231 AU
direct	-4018 Aug 11 j 07:38	5°♏15'16	
evening set	-4018 Nov 18 j 20:49	12°♏23'17	
conjunction	-4018 Dec 05 j 14:11	14°♏24'13	0°40'54
minimum elong	-4018 Dec 05 j 14:12	14°♏24'13	0°40'47
max. Earth dist.	-4018 Dec 04 j 23:46	14°♏19'50	10.78432 AU
	-4018 Dec 10 j 12:04	15°♏	
morning rise	-4018 Dec 22 j 10:59	16°♏26'17	
retrograde	-4017 Apr 05 j 20:23	23°♏55'59	
opposition	-4017 Jun 15 j 14:24	20°♏32'59	0°31'44
min. Earth dist.	-4017 Jun 16 j 02:18	20°♏30'44	8.71130 AU
direct	-4017 Aug 23 j 10:59	17°♏13'33	
evening set	-4017 Nov 30 j 23:45	24°♏29'12	
conjunction	-4017 Dec 17 j 20:40	26°♏33'04	0°10'51
minimum elong	-4017 Dec 17 j 20:40	26°♏33'04	0°10'43
behind sun begin	-4017 Dec 17 j 15:13	26°♏31'24	
behind sun end	-4017 Dec 18 j 02:08	26°♏34'44	
max. Earth dist.	-4017 Dec 17 j 07:31	26°♏29'01	10.63717 AU
morning rise	-4016 Jan 03 j 21:39	28°♏38'17	
	-4016 Jan 15 j 09:39	0°♐	
retrograde	-4016 Apr 18 j 07:04	6°♐19'54	
desc. node	-4016 Apr 26 j 12:22	6°♐16'30	
opposition	-4016 Jun 27 j 15:40	2°♐55'09	-0°06'24
min. Earth dist.	-4016 Jun 28 j 01:42	2°♐53'13	8.55904 AU
	-4016 Aug 12 j 18:58	30°℞♏	
direct	-4016 Sep 03 j 20:19	29°♏34'41	
	-4016 Sep 25 j 14:42	0°♐	
evening set	-4016 Dec 12 j 14:09	6°♐59'32	
conjunction	-4016 Dec 29 j 14:49	9°♐06'35	-0°20'41
minimum elong	-4016 Dec 29 j 14:48	9°♐06'35	0°20'50
max. Earth dist.	-4016 Dec 29 j 02:53	9°♐02'51	10.48213 AU
morning rise	-4015 Jan 15 j 20:18	11°♐15'13	
retrograde	-4015 May 02 j 03:44	19°♐09'28	
opposition	-4015 Jul 11 j 01:25	15°♐42'57	-0°45'39
min. Earth dist.	-4015 Jul 11 j 09:27	15°♐41'23	8.40314 AU
direct	-4015 Sep 16 j 13:51	12°♐21'13	
evening set	-4015 Dec 25 j 17:24	19°♐56'32	
conjunction	-4014 Jan 11 j 22:01	22°♐06'55	-0°52'05
minimum elong	-4014 Jan 11 j 21:59	22°♐06'54	0°52'15
max. Earth dist.	-4014 Jan 11 j 12:25	22°♐03'51	10.32735 AU
morning rise	-4014 Jan 29 j 07:59	24°♐19'01	
	-4014 Mar 22 j 19:55	0°♑	
retrograde	-4014 May 16 j 09:45	2°♑25'55	
	-4014 Jul 11 j 13:02	30°℞♐	
opposition	-4014 Jul 24 j 19:35	28°♐57'42	-1°23'58
min. Earth dist.	-4014 Jul 25 j 01:24	28°♐56'33	8.25210 AU
direct	-4014 Sep 29 j 18:20	25°♐34'33	
	-4014 Dec 11 j 07:28	0°♑	
evening set	-4013 Jan 08 j 10:29	3°♑21'06	
conjunction	-4013 Jan 25 j 19:09	5°♑34'47	-1°21'38
minimum elong	-4013 Jan 25 j 19:06	5°♑34'46	1°21'49
max. Earth dist.	-4013 Jan 25 j 13:12	5°♑32'51	10.18142 AU
morning rise	-4013 Feb 12 j 09:13	7°♑50'12	
retrograde	-4013 May 31 j 00:33	16°♑08'54	
opposition	-4013 Aug 07 j 21:32	12°♑39'12	-1°58'57
min. Earth dist.	-4013 Aug 08 j 00:20	12°♑38'38	8.11463 AU
direct	-4013 Oct 13 j 09:00	9°♑14'32	
evening set	-4012 Jan 22 j 17:18	17°♑12'26	
conjunction	-4012 Feb 09 j 05:59	19°♑29'11	-1°47'21
minimum elong	-4012 Feb 09 j 05:55	19°♑29'10	1°47'31
max. Earth dist.	-4012 Feb 09 j 04:42	19°♑28'46	10.05313 AU
morning rise	-4012 Feb 26 j 23:44	21°♑47'37	
	-4012 May 27 j 14:57	0°♒	
retrograde	-4012 Jun 13 j 23:49	0°♒16'17	
	-4012 Jul 01 j 10:20	30°℞♑	
opposition	-4012 Aug 21 j 06:35	26°♑45'23	-2°27'57
min. Earth dist.	-4012 Aug 21 j 05:43	26°♑45'34	7.99916 AU
direct	-4012 Oct 26 j 08:38	23°♑19'14	

Attention, astronomical year style is used: The year -4011 in astronomical counting style is the year 4012 BCE in historical counting style.

	-4011 Jan 25 j 01:07	0°♒	
evening set	-4011 Feb 05 j 12:52	1°♒27'44	
conjunction	-4011 Feb 23 j 05:25	3°♒47'09	-2°07'11
minimum elong	-4011 Feb 23 j 05:22	3°♒47'08	2°07'20
max. Earth dist.	-4011 Feb 23 j 09:09	3°♒48'24	9.95070 AU
morning rise	-4011 Mar 13 j 02:26	6°♒08'05	
retrograde	-4011 Jun 29 j 04:11	14°♒43'49	
opposition	-4011 Sep 04 j 20:57	11°♒12'07	-2°48'24
min. Earth dist.	-4011 Sep 04 j 16:15	11°♒13'06	7.91309 AU
direct	-4011 Nov 09 j 17:17	7°♒44'34	
	-4010 Feb 12 j 18:56	15°♒	
evening set	-4010 Feb 20 j 19:19	16°♒02'01	
conjunction	-4010 Mar 10 j 15:28	18°♒23'33	-2°19'19
minimum elong	-4010 Mar 10 j 15:27	18°♒23'33	2°19'27
max. Earth dist.	-4010 Mar 10 j 23:39	18°♒26'16	9.88101 AU
morning rise	-4010 Mar 28 j 15:14	20°♒46'18	
retrograde	-4010 Jul 14 j 10:21	29°♒25'15	
opposition	-4010 Sep 19 j 14:26	25°♒53'15	-2°58'16
min. Earth dist.	-4010 Sep 19 j 06:34	25°♒54'53	7.86220 AU
direct	-4010 Nov 24 j 09:29	22°♒24'27	
	-4009 Mar 02 j 04:09	0°♓	
evening set	-4009 Mar 08 j 09:14	0°♓48'19	
conjunction	-4009 Mar 26 j 08:35	3°♓11'14	-2°22'31
minimum elong	-4009 Mar 26 j 08:35	3°♓11'14	2°22'36
max. Earth dist.	-4009 Mar 26 j 20:31	3°♓15'13	9.84894 AU
morning rise	-4009 Apr 13 j 10:29	5°♓34'59	
retrograde	-4009 Jul 29 j 14:49	14°♓12'51	
opposition	-4009 Oct 04 j 08:49	10°♓41'03	-2°56'22
min. Earth dist.	-4009 Oct 03 j 22:34	10°♓43'12	7.85002 AU
direct	-4009 Dec 09 j 07:02	7°♓11'18	
evening set	-4008 Mar 23 j 02:24	15°♓38'17	
conjunction	-4008 Apr 10 j 04:21	18°♓01'44	-2°16'20
minimum elong	-4008 Apr 10 j 04:24	18°♓01'44	2°16'23
max. Earth dist.	-4008 Apr 10 j 19:13	18°♓06'40	9.85677 AU
morning rise	-4008 Apr 28 j 07:39	20°♓25'34	
retrograde	-4008 Aug 12 j 13:54	28°♓58'08	
opposition	-4008 Oct 18 j 01:21	25°♓27'02	-2°42'47
min. Earth dist.	-4008 Oct 17 j 13:37	25°♓29'30	7.87729 AU
direct	-4008 Dec 23 j 07:02	21°♓56'39	
	-4007 Apr 04 j 18:49	0°♈	
evening set	-4007 Apr 07 j 19:01	0°♈23'17	
conjunction	-4007 Apr 25 j 22:43	2°♈46'21	-2°01'16
minimum elong	-4007 Apr 25 j 22:47	2°♈46'22	2°01'17
max. Earth dist.	-4007 Apr 26 j 15:13	2°♈51'48	9.90370 AU
morning rise	-4007 May 14 j 02:26	5°♈09'20	
retrograde	-4007 Aug 27 j 05:25	13°♈32'54	
opposition	-4007 Nov 01 j 13:32	10°♈02'58	-2°18'45
min. Earth dist.	-4007 Nov 01 j 01:08	10°♈05'34	7.94190 AU
direct	-4006 Jan 07 j 06:55	6°♈32'20	
evening set	-4006 Apr 23 j 06:54	14°♈55'19	
conjunction	-4006 May 11 j 11:09	17°♈17'05	-1°38'41
minimum elong	-4006 May 11 j 11:14	17°♈17'06	1°38'39
max. Earth dist.	-4006 May 12 j 04:05	17°♈22'37	9.98616 AU
morning rise	-4006 May 29 j 14:05	19°♈38'18	
retrograde	-4006 Sep 10 j 11:22	27°♈50'18	
opposition	-4006 Nov 15 j 19:39	24°♈21'52	-1°46'29
min. Earth dist.	-4006 Nov 15 j 06:50	24°♈24'31	8.03924 AU
direct	-4005 Jan 22 j 03:44	20°♈51'25	
evening set	-4005 May 08 j 10:30	29°♈07'58	
	-4005 May 15 j 06:01	0°♉	
conjunction	-4005 May 26 j 13:58	1°♉27'35	-1°10'30
minimum elong	-4005 May 26 j 14:01	1°♉27'36	1°10'26
max. Earth dist.	-4005 May 27 j 06:39	1°♉32'58	10.09831 AU
morning rise	-4005 Jun 13 j 14:47	3°♉46'16	
retrograde	-4005 Sep 24 j 06:26	11°♉45'15	
opposition	-4005 Nov 29 j 18:10	8°♉18'36	-1°08'44
min. Earth dist.	-4005 Nov 29 j 05:14	8°♉21'15	8.16280 AU
direct	-4004 Feb 05 j 19:07	4°♉48'44	
evening set	-4004 May 22 j 03:46	12°♉56'50	
	-4004 Jun 07 j 10:11	15°♉	
conjunction	-4004 Jun 09 j 05:05	15°♉13'39	-0°38'56
minimum elong	-4004 Jun 09 j 05:07	15°♉13'39	0°38'50
max. Earth dist.	-4004 Jun 09 j 20:55	15°♉18'41	10.23280 AU
morning rise	-4004 Jun 27 j 02:34	17°♉29'13	
retrograde	-4004 Oct 06 j 14:07	25°♉14'49	
opposition	-4004 Dec 12 j 08:17	21°♉50'05	-0°28'19
min. Earth dist.	-4004 Dec 11 j 20:00	21°♉52'33	8.30487 AU
direct	-4003 Feb 19 j 02:26	18°♉21'07	
evening set	-4003 Jun 05 j 09:17	26°♉19'36	
conjunction	-4003 Jun 23 j 07:08	28°♉33'09	-0°06'10
minimum elong	-4003 Jun 23 j 07:08	28°♉33'09	0°06'02
behind sun begin	-4003 Jun 23 j 00:14	28°♉31'01	
behind sun end	-4003 Jun 23 j 14:02	28°♉35'17	
max. Earth dist.	-4003 Jun 23 j 21:26	28°♉37'37	10.38143 AU
	-4003 Jul 04 j 21:24	0°♊	
morning rise	-4003 Jul 11 j 00:11	0°♊45'13	
asc. node	-4003 Sep 01 j 22:54	6°♊19'10	
retrograde	-4003 Oct 19 j 13:10	8°♊17'59	
opposition	-4003 Dec 25 j 14:12	4°♊55'12	0°12'11
min. Earth dist.	-4003 Dec 25 j 03:33	4°♊57'19	8.45726 AU
direct	-4002 Mar 04 j 23:50	1°♊27'24	
evening set	-4002 Jun 19 j 02:17	9°♊15'45	
conjunction	-4002 Jul 06 j 19:33	11°♊25'48	0°26'05
minimum elong	-4002 Jul 06 j 19:31	11°♊25'48	0°26'14
max. Earth dist.	-4002 Jul 07 j 07:36	11°♊29'31	10.53595 AU
morning rise	-4002 Jul 24 j 07:30	13°♊34'15	
retrograde	-4002 Nov 01 j 02:04	20°♊55'17	
opposition	-4001 Jan 07 j 12:08	17°♊34'23	0°50'38
min. Earth dist.	-4001 Jan 07 j 04:09	17°♊35'57	8.61202 AU
direct	-4001 Mar 18 j 12:17	14°♊07'55	
evening set	-4001 Jul 02 j 07:00	21°♊46'13	
conjunction	-4001 Jul 19 j 18:59	23°♊52'45	0°56'03
minimum elong	-4001 Jul 19 j 18:57	23°♊52'44	0°56'13
max. Earth dist.	-4001 Jul 20 j 03:24	23°♊55'18	10.68871 AU
morning rise	-4001 Aug 06 j 01:40	25°♊57'41	
	-4001 Sep 12 j 08:35	0°♋	
retrograde	-4001 Nov 13 j 04:30	3°♋08'28	
	-4000 Jan 17 j 18:44	30°℞♊	
opposition	-4000 Jan 20 j 02:30	29°♊49'16	1°25'25
min. Earth dist.	-4000 Jan 19 j 21:08	29°♊50'18	8.76173 AU
direct	-4000 Mar 30 j 16:55	26°♊24'11	
	-4000 Jun 07 j 23:29	0°♋	
evening set	-4000 Jul 13 j 23:59	3°♋52'58	
conjunction	-4000 Jul 31 j 06:30	5°♋56'09	1°22'40
minimum elong	-4000 Jul 31 j 06:27	5°♋56'08	1°22'51
max. Earth dist.	-4000 Jul 31 j 11:02	5°♋57'30	10.83275 AU
morning rise	-4000 Aug 17 j 07:58	7°♋57'48	
retrograde	-4000 Nov 24 j 01:24	15°♋00'05	
opposition	-3999 Jan 31 j 10:20	11°♋42'18	1°55'22
min. Earth dist.	-3999 Jan 31 j 07:11	11°♋42'54	8.89963 AU
direct	-3999 Apr 12 j 12:49	8°♋18'37	
evening set	-3999 Jul 26 j 06:13	15°♋38'40	

Attention, astronomical year style is used: The year -3999 in astronomical counting style is the year 4000 BCE in historical counting style.

conjunction	-3999 Aug 12 j 07:29	17°♋38'50	1°45'06
minimum elong	-3999 Aug 12 j 07:26	17°♋38'49	1°45'16
max. Earth dist.	-3999 Aug 12 j 08:59	17°♋39'17	10.96187 AU
morning rise	-3999 Aug 29 j 03:52	19°♋37'35	
retrograde	-3999 Dec 05 j 16:30	26°♋33'09	
opposition	-3998 Feb 12 j 12:42	23°♋16'29	2°19'45
min. Earth dist.	-3998 Feb 12 j 11:47	23°♋16'40	9.01992 AU
direct	-3998 Apr 24 j 23:41	19°♋54'09	
evening set	-3998 Aug 07 j 03:03	27°♋06'29	
conjunction	-3998 Aug 23 j 23:31	29°♋04'04	2°02'48
minimum elong	-3998 Aug 23 j 23:29	29°♋04'04	2°02'57
max. Earth dist.	-3998 Aug 23 j 22:29	29°♋03'46	11.07086 AU
	-3998 Aug 31 j 22:38	0°♌	
morning rise	-3998 Sep 09 j 15:25	1°♌00'24	
retrograde	-3998 Dec 17 j 04:17	7°♌51'05	
opposition	-3997 Feb 24 j 10:43	4°♌35'14	2°38'06
min. Earth dist.	-3997 Feb 24 j 13:07	4°♌34'47	9.11780 AU
direct	-3997 May 07 j 03:25	1°♌14'06	
evening set	-3997 Aug 18 j 15:57	8°♌19'57	
conjunction	-3997 Sep 04 j 08:11	10°♌15'29	2°15'27
minimum elong	-3997 Sep 04 j 08:09	10°♌15'29	2°15'34
max. Earth dist.	-3997 Sep 04 j 03:16	10°♌14'04	11.15534 AU
morning rise	-3997 Sep 20 j 20:33	12°♌09'58	
	-3997 Oct 17 j 05:36	15°♌	
retrograde	-3997 Dec 28 j 11:54	18°♌57'36	
opposition	-3996 Mar 07 j 05:35	15°♌42'15	2°50'10
min. Earth dist.	-3996 Mar 07 j 11:32	15°♌41'09	9.18922 AU
	-3996 Mar 16 j 21:15	15°℞♌	
direct	-3996 May 18 j 00:20	12°♌22'10	
	-3996 Jul 16 j 11:39	15°♌	
evening set	-3996 Aug 28 j 22:41	19°♌22'56	
conjunction	-3996 Sep 14 j 11:28	21°♌17'00	2°22'51
minimum elong	-3996 Sep 14 j 11:27	21°♌17'00	2°22'57
max. Earth dist.	-3996 Sep 14 j 02:37	21°♌14'27	11.21208 AU
morning rise	-3996 Sep 30 j 21:20	23°♌10'15	
retrograde	-3995 Jan 07 j 18:57	29°♌56'44	
opposition	-3995 Mar 18 j 22:33	26°♌41'31	2°55'53
min. Earth dist.	-3995 Mar 19 j 06:56	26°♌39'59	9.23173 AU
direct	-3995 May 29 j 18:53	23°♌22'18	
	-3995 Sep 06 j 03:51	0°♍	
evening set	-3995 Sep 09 j 00:53	0°♍19'26	
conjunction	-3995 Sep 25 j 11:23	2°♍12'38	2°24'59
minimum elong	-3995 Sep 25 j 11:23	2°♍12'38	2°25'04
max. Earth dist.	-3995 Sep 25 j 00:30	2°♍09'29	11.23966 AU
morning rise	-3995 Oct 11 j 19:36	4°♍05'14	
retrograde	-3994 Jan 19 j 04:36	10°♍52'20	
opposition	-3994 Mar 30 j 15:08	7°♍36'54	2°55'15
min. Earth dist.	-3994 Mar 31 j 01:00	7°♍35'06	9.24459 AU
direct	-3994 Jun 10 j 09:12	4°♍18'23	
evening set	-3994 Sep 20 j 00:14	11°♍13'10	
conjunction	-3994 Oct 06 j 09:27	13°♍06'06	2°21'50
minimum elong	-3994 Oct 06 j 09:28	13°♍06'06	2°21'54
max. Earth dist.	-3994 Oct 05 j 21:00	13°♍02'30	11.23777 AU
morning rise	-3994 Oct 22 j 17:05	14°♍58'41	
retrograde	-3993 Jan 30 j 15:08	21°♍48'06	
opposition	-3993 Apr 11 j 08:26	18°♍32'06	2°48'20
min. Earth dist.	-3993 Apr 11 j 20:12	18°♍29'57	9.22789 AU
direct	-3993 Jun 21 j 20:24	15°♍13'59	
evening set	-3993 Sep 30 j 22:49	22°♍07'54	
conjunction	-3993 Oct 17 j 07:34	24°♍01'08	2°13'32
minimum elong	-3993 Oct 17 j 07:36	24°♍01'09	2°13'34
max. Earth dist.	-3993 Oct 16 j 16:42	23°♍56'49	11.20688 AU
morning rise	-3993 Nov 02 j 15:48	25°♍54'18	
	-3993 Dec 12 j 15:10	0°♎	
retrograde	-3992 Feb 11 j 05:10	2°♎47'38	
	-3992 Apr 15 j 10:34	30°℞♍	
opposition	-3992 Apr 22 j 03:34	29°♍30'46	2°35'17
min. Earth dist.	-3992 Apr 22 j 17:24	29°♍28'14	9.18248 AU
direct	-3992 Jul 02 j 08:08	26°♍12'48	
	-3992 Sep 11 j 17:07	0°♎	
evening set	-3992 Oct 10 j 22:14	3°♎07'19	
conjunction	-3992 Oct 27 j 07:29	5°♎01'25	2°00'16
minimum elong	-3992 Oct 27 j 07:31	5°♎01'26	2°00'16
max. Earth dist.	-3992 Oct 26 j 15:14	4°♎56'40	11.14820 AU
morning rise	-3992 Nov 12 j 17:18	6°♎55'45	
retrograde	-3991 Feb 21 j 23:06	13°♎54'42	
opposition	-3991 May 04 j 01:54	10°♎36'37	2°16'21
min. Earth dist.	-3991 May 04 j 16:19	10°♎33'59	9.11000 AU
direct	-3991 Jul 13 j 20:42	7°♎18'34	
evening set	-3991 Oct 22 j 00:10	14°♎15'11	
conjunction	-3991 Nov 07 j 10:59	16°♎10'44	1°42'18
minimum elong	-3991 Nov 07 j 11:02	16°♎10'44	1°42'15
max. Earth dist.	-3991 Nov 06 j 19:04	16°♎06'02	11.06362 AU
morning rise	-3991 Nov 23 j 23:06	18°♎06'45	
retrograde	-3990 Mar 06 j 02:21	25°♎12'56	
opposition	-3990 May 16 j 04:29	21°♎53'26	1°51'53
min. Earth dist.	-3990 May 16 j 18:22	21°♎50'52	9.01284 AU
direct	-3990 Jul 25 j 13:00	18°♎35'04	
evening set	-3990 Nov 02 j 07:03	25°♎35'21	
conjunction	-3990 Nov 18 j 20:08	27°♎32'51	1°20'02
minimum elong	-3990 Nov 18 j 20:11	27°♎32'52	1°19'57
max. Earth dist.	-3990 Nov 18 j 04:31	27°♎28'11	10.95590 AU
morning rise	-3990 Dec 05 j 11:19	29°♎31'05	
	-3990 Dec 09 j 15:03	0°♏	
retrograde	-3989 Mar 18 j 12:13	6°♏46'00	
opposition	-3989 May 28 j 12:18	3°♏24'55	1°22'22
min. Earth dist.	-3989 May 29 j 01:35	3°♏22'27	8.89428 AU
direct	-3989 Aug 06 j 06:04	0°♏06'02	
evening set	-3989 Nov 13 j 20:42	7°♏11'39	
conjunction	-3989 Nov 30 j 12:32	9°♏11'31	0°53'59
minimum elong	-3989 Nov 30 j 12:34	9°♏11'32	0°53'53
max. Earth dist.	-3989 Nov 29 j 20:38	9°♏06'44	10.82880 AU
morning rise	-3989 Dec 17 j 07:32	11°♏12'26	
	-3988 Jan 21 j 02:05	15°♏	
retrograde	-3988 Mar 30 j 06:09	18°♏37'33	
opposition	-3988 Jun 09 j 02:48	15°♏14'47	0°48'33
min. Earth dist.	-3988 Jun 09 j 15:41	15°♏12'21	8.75865 AU
	-3988 Jun 12 j 09:01	15°℞♏	
direct	-3988 Aug 17 j 05:46	11°♏55'08	
	-3988 Oct 17 j 19:40	15°♏	
evening set	-3988 Nov 24 j 18:53	19°♏07'42	
conjunction	-3988 Dec 11 j 14:02	21°♏10'22	0°24'58
minimum elong	-3988 Dec 11 j 14:03	21°♏10'22	0°24'51
max. Earth dist.	-3988 Dec 10 j 23:15	21°♏05'50	10.68703 AU
morning rise	-3988 Dec 28 j 13:15	23°♏14'18	
	-3987 Mar 11 j 06:29	0°♐	
retrograde	-3987 Apr 12 j 11:06	0°♐50'53	
	-3987 May 15 j 01:16	30°℞♏	
opposition	-3987 Jun 22 j 00:45	27°♏26'21	0°11'26
min. Earth dist.	-3987 Jun 22 j 12:16	27°♏24'09	8.61128 AU
direct	-3987 Aug 29 j 12:52	24°♏05'46	
desc. node	-3987 Oct 12 j 06:43	25°♏44'32	
	-3987 Nov 25 j 00:27	0°♐	

Attention, astronomical year style is used: The year -3987 in astronomical counting style is the year 3988 BCE in historical counting style.

evening set	-3987 Dec 07 j 03:45	1°♐26'49	
conjunction	-3987 Dec 24 j 02:44	3°♐32'34	-0°06'07
minimum elong	-3987 Dec 24 j 02:43	3°♐32'34	0°06'15
behind sun begin	-3987 Dec 23 j 20:01	3°♐30'30	
behind sun end	-3987 Dec 24 j 09:26	3°♐34'38	
max. Earth dist.	-3987 Dec 23 j 14:35	3°♐28'48	10.53625 AU
morning rise	-3986 Jan 10 j 06:15	5°♐39'48	
retrograde	-3986 Apr 26 j 01:56	13°♐28'43	
opposition	-3986 Jul 05 j 06:33	10°♐02'26	-0°27'33
min. Earth dist.	-3986 Jul 05 j 15:37	10°♐00'40	8.45849 AU
direct	-3986 Sep 11 j 03:20	6°♐40'45	
evening set	-3986 Dec 20 j 00:55	14°♐11'39	
conjunction	-3985 Jan 06 j 03:54	16°♐20'40	-0°37'44
minimum elong	-3985 Jan 06 j 03:52	16°♐20'40	0°37'53
max. Earth dist.	-3985 Jan 05 j 18:55	16°♐17'50	10.38323 AU
morning rise	-3985 Jan 23 j 11:45	18°♐31'19	
retrograde	-3985 May 10 j 03:50	26°♐32'55	
opposition	-3985 Jul 18 j 20:50	23°♐04'58	-1°06'36
min. Earth dist.	-3985 Jul 19 j 02:33	23°♐03'51	8.30751 AU
direct	-3985 Sep 24 j 03:03	19°♐42'06	
evening set	-3984 Jan 02 j 11:32	27°♐23'50	
conjunction	-3984 Jan 19 j 18:25	29°♐36'09	-1°08'23
minimum elong	-3984 Jan 19 j 18:23	29°♐36'08	1°08'33
max. Earth dist.	-3984 Jan 19 j 12:35	29°♐34'16	10.23568 AU
	-3984 Jan 22 j 20:41	0°♑	
morning rise	-3984 Feb 06 j 06:28	1°♑50'10	
retrograde	-3984 May 23 j 16:19	10°♑04'04	
opposition	-3984 Jul 31 j 19:29	6°♑34'40	-1°43'27
min. Earth dist.	-3984 Jul 31 j 21:59	6°♑34'10	8.16645 AU
direct	-3984 Oct 06 j 11:34	3°♑10'29	
evening set	-3983 Jan 15 j 12:13	11°♑03'32	
conjunction	-3983 Feb 01 j 23:00	13°♑19'01	-1°36'07
minimum elong	-3983 Feb 01 j 22:56	13°♑19'00	1°36'17
max. Earth dist.	-3983 Feb 01 j 20:40	13°♑18'15	10.10209 AU
morning rise	-3983 Feb 19 j 15:03	15°♑36'12	
retrograde	-3983 Jun 07 j 13:44	24°♑00'59	
opposition	-3983 Aug 15 j 01:44	20°♑30'27	-2°15'31
min. Earth dist.	-3983 Aug 15 j 01:12	20°♑30'33	8.04376 AU
direct	-3983 Oct 20 j 06:05	17°♑04'55	
evening set	-3982 Jan 30 j 02:27	25°♑09'01	
conjunction	-3982 Feb 16 j 17:05	27°♑27'19	-1°58'53
minimum elong	-3982 Feb 16 j 17:02	27°♑27'18	1°59'03
max. Earth dist.	-3982 Feb 16 j 18:43	27°♑27'51	9.99081 AU
morning rise	-3982 Mar 06 j 12:45	29°♑47'15	
	-3982 Mar 08 j 04:20	0°♒	
retrograde	-3982 Jun 22 j 16:30	8°♒20'28	
opposition	-3982 Aug 29 j 14:18	4°♒49'10	-2°40'10
min. Earth dist.	-3982 Aug 29 j 10:50	4°♒49'53	7.94732 AU
direct	-3982 Nov 03 j 11:45	1°♒22'21	
evening set	-3981 Feb 14 j 04:36	9°♒36'14	
conjunction	-3981 Mar 03 j 22:54	11°♒56'53	-2°14'44
minimum elong	-3981 Mar 03 j 22:52	11°♒56'52	2°14'52
max. Earth dist.	-3981 Mar 04 j 05:00	11°♒58'55	9.90938 AU
morning rise	-3981 Mar 21 j 21:35	14°♒18'56	
	-3981 Mar 27 j 04:45	15°♒	
retrograde	-3981 Jul 07 j 21:56	22°♒57'07	
opposition	-3981 Sep 13 j 07:06	19°♒25'29	-2°55'02
min. Earth dist.	-3981 Sep 13 j 00:37	19°♒26'50	7.88381 AU
direct	-3981 Nov 18 j 01:54	15°♒57'33	
evening set	-3980 Feb 29 j 15:49	24°♒18'57	

conjunction	-3980 Mar 18 j 13:36	26°♒41'18	-2°22'06
minimum elong	-3980 Mar 18 j 13:36	26°♒41'18	2°22'12
max. Earth dist.	-3980 Mar 19 j 00:15	26°♒44'51	9.86382 AU
morning rise	-3980 Apr 05 j 14:42	29°♒04'41	
	-3980 Apr 12 j 17:50	0°♓	
retrograde	-3980 Jul 22 j 03:10	7°♓43'40	
opposition	-3980 Sep 27 j 01:48	4°♓12'08	-2°58'31
min. Earth dist.	-3980 Sep 26 j 16:17	4°♓14'08	7.85787 AU
direct	-3980 Dec 01 j 22:09	0°♓43'15	
evening set	-3979 Mar 16 j 08:21	9°♓09'08	
conjunction	-3979 Apr 03 j 09:11	11°♓32'22	-2°20'09
minimum elong	-3979 Apr 03 j 09:13	11°♓32'22	2°20'13
max. Earth dist.	-3979 Apr 03 j 23:39	11°♓37'11	9.85742 AU
morning rise	-3979 Apr 21 j 12:00	13°♓56'12	
retrograde	-3979 Aug 06 j 04:49	22°♓31'32	
opposition	-3979 Oct 11 j 19:41	19°♓00'34	-2°50'08
min. Earth dist.	-3979 Oct 11 j 07:47	19°♓03'04	7.87099 AU
direct	-3979 Dec 16 j 21:25	15°♓31'00	
evening set	-3978 Apr 01 j 02:03	23°♓57'52	
conjunction	-3978 Apr 19 j 05:06	26°♓21'05	-2°09'00
minimum elong	-3978 Apr 19 j 05:10	26°♓21'06	2°09'01
max. Earth dist.	-3978 Apr 19 j 22:04	26°♓26'43	9.89000 AU
morning rise	-3978 May 07 j 08:39	28°♓44'25	
	-3978 May 17 j 05:05	0°♈	
retrograde	-3978 Aug 21 j 00:37	7°♈12'09	
opposition	-3978 Oct 26 j 10:09	3°♈42'09	-2°30'36
min. Earth dist.	-3978 Oct 25 j 20:54	3°♈44'55	7.92135 AU
direct	-3978 Dec 31 j 21:28	0°♈12'10	
evening set	-3977 Apr 16 j 16:33	8°♈36'40	
conjunction	-3977 May 04 j 20:46	10°♈58'59	-1°49'37
minimum elong	-3977 May 04 j 20:50	10°♈59'00	1°49'36
max. Earth dist.	-3977 May 05 j 14:43	11°♈04'53	9.95803 AU
morning rise	-3977 May 22 j 23:59	13°♈20'56	
retrograde	-3977 Sep 04 j 12:05	21°♈38'07	
opposition	-3977 Nov 09 j 19:14	18°♈09'28	-2°01'46
min. Earth dist.	-3977 Nov 09 j 05:53	18°♈12'14	8.00420 AU
direct	-3976 Jan 15 j 19:31	14°♈39'28	
evening set	-3976 May 01 j 00:17	22°♈58'49	
conjunction	-3976 May 19 j 04:23	25°♈19'24	-1°23'43
minimum elong	-3976 May 19 j 04:26	25°♈19'25	1°23'39
max. Earth dist.	-3976 May 19 j 21:53	25°♈25'05	10.05575 AU
morning rise	-3976 Jun 06 j 06:09	27°♈39'12	
	-3976 Jun 25 j 08:36	0°♉	
retrograde	-3976 Sep 17 j 12:59	5°♉44'05	
opposition	-3976 Nov 22 j 21:29	2°♉17'06	-1°26'09
min. Earth dist.	-3976 Nov 22 j 09:08	2°♉19'39	8.11374 AU
	-3976 Dec 23 j 07:07	30°℞♈	
direct	-3975 Jan 29 j 13:15	28°♈47'26	
	-3975 Mar 07 j 16:31	0°♉	
evening set	-3975 May 15 j 23:01	6°♉59'29	
conjunction	-3975 Jun 03 j 01:29	9°♉17'36	-0°53'23
minimum elong	-3975 Jun 03 j 01:32	9°♉17'37	0°53'17
max. Earth dist.	-3975 Jun 03 j 17:14	9°♉22'38	10.17715 AU
morning rise	-3975 Jun 21 j 00:32	11°♉34'36	
	-3975 Jul 20 j 00:39	15°♉	
retrograde	-3975 Oct 01 j 02:21	19°♉26'23	
opposition	-3975 Dec 06 j 15:53	16°♉01'13	-0°46'35
min. Earth dist.	-3975 Dec 06 j 04:51	16°♉03'27	8.24399 AU
	-3975 Dec 19 j 10:07	15°℞♉	
direct	-3974 Feb 13 j 00:41	12°♉32'11	
	-3974 Apr 08 j 14:02	15°♉	
evening set	-3974 May 30 j 10:36	20°♉35'21	

Attention, astronomical year style is used: The year -3974 in astronomical counting style is the year 3975 BCE in historical counting style.

conjunction	-3974 Jun 17 j 10:03	22°♉50'26	-0°20'51	
minimum elong	-3974 Jun 17 j 10:04	22°♉50'27	0°20'44	
max. Earth dist.	-3974 Jun 17 j 23:24	22°♉54'38	10.31563 AU	
morning rise	-3974 Jul 05 j 05:17	25°♉04'09		
	-3974 Aug 19 j 02:22	0°♊		
retrograde	-3974 Oct 14 j 05:23	2°♊42'57		
	-3974 Dec 11 j 14:40	30°℞♉		
opposition	-3974 Dec 20 j 02:07	29°♉19'36	-0°05'48	
min. Earth dist.	-3974 Dec 19 j 16:22	29°♉21'33	8.38793 AU	
asc. node	-3973 Feb 12 j 06:44	26°♉02'57		
direct	-3973 Feb 27 j 03:45	25°♉51'27		
	-3973 May 11 j 07:37	0°♊		
evening set	-3973 Jun 13 j 09:42	3°♊44'47		
conjunction	-3973 Jul 01 j 05:05	5°♊56'32	0°11'55	
minimum elong	-3973 Jul 01 j 05:04	5°♊56'31	0°12'03	
behind sun begin	-3973 Jul 01 j 00:12	5°♊55'02		
behind sun end	-3973 Jul 01 j 09:56	5°♊58'01		
max. Earth dist.	-3973 Jul 01 j 15:53	5°♊59'52	10.46366 AU	
morning rise	-3973 Jul 18 j 19:39	8°♊06'43		
retrograde	-3973 Oct 26 j 21:50	15°♊33'22		
opposition	-3972 Jan 02 j 04:00	12°♊11'43	0°33'51	
min. Earth dist.	-3972 Jan 01 j 19:28	12°♊13'24	8.53778 AU	
direct	-3972 Mar 11 j 22:17	8°♊44'39		
evening set	-3972 Jun 25 j 20:27	16°♊27'57		
conjunction	-3972 Jul 13 j 11:01	18°♊36'12	0°43'03	
minimum elong	-3972 Jul 13 j 10:59	18°♊36'11	0°43'13	
max. Earth dist.	-3972 Jul 13 j 19:30	18°♊38'47	10.61346 AU	
morning rise	-3972 Jul 30 j 20:17	20°♊42'50		
retrograde	-3972 Nov 07 j 05:31	27°♊58'36		
opposition	-3971 Jan 13 j 21:58	24°♊38'32	1°10'30	
min. Earth dist.	-3971 Jan 13 j 15:28	24°♊39'48	8.68599 AU	
direct	-3971 Mar 25 j 07:16	21°♊12'39		
evening set	-3971 Jul 08 j 19:07	28°♊46'13		
	-3971 Jul 19 j 02:48	0°♋		
conjunction	-3971 Jul 26 j 04:22	0°♋51'03	1°11'19	
minimum elong	-3971 Jul 26 j 04:19	0°♋51'02	1°11'30	
max. Earth dist.	-3971 Jul 26 j 10:27	0°♋52'53	10.75781 AU	
morning rise	-3971 Aug 12 j 08:09	2°♋54'17		
retrograde	-3971 Nov 19 j 06:58	10°♋00'46		
opposition	-3970 Jan 26 j 09:08	6°♋42'06	1°42'46	
min. Earth dist.	-3970 Jan 26 j 05:31	6°♋42'48	8.82577 AU	
direct	-3970 Apr 07 j 05:36	3°♋17'28		
evening set	-3970 Jul 21 j 06:20	10°♋41'54		
conjunction	-3970 Aug 07 j 10:06	12°♋43'35	1°35'44	
minimum elong	-3970 Aug 07 j 10:03	12°♋43'34	1°35'55	
max. Earth dist.	-3970 Aug 07 j 12:47	12°♋44'23	10.89051 AU	
morning rise	-3970 Aug 24 j 08:44	14°♋43'46		
retrograde	-3970 Nov 30 j 23:01	21°♋42'43		
opposition	-3969 Feb 07 j 14:13	18°♋25'12	2°09'46	
min. Earth dist.	-3969 Feb 07 j 13:40	18°♋25'19	8.95135 AU	
direct	-3969 Apr 19 j 20:39	15°♋01'47		
evening set	-3969 Aug 02 j 07:32	22°♋18'06		
conjunction	-3969 Aug 19 j 06:07	24°♋16'59	1°55'37	
minimum elong	-3969 Aug 19 j 06:04	24°♋16'58	1°55'47	
max. Earth dist.	-3969 Aug 19 j 04:55	24°♋16'38	11.00642 AU	
morning rise	-3969 Sep 05 j 00:12	26°♋14'33		
	-3969 Oct 10 j 14:39	0°♌		
retrograde	-3969 Dec 12 j 11:14	3°♌07'48		
	-3968 Feb 17 j 14:30	30°℞♋		
opposition	-3968 Feb 19 j 14:04	29°♋51'08	2°30'52	
min. Earth dist.	-3968 Feb 19 j 15:45	29°♋50'49	9.05791 AU	
direct	-3968 May 01 j 05:19	26°♋28'54		
	-3968 Jul 09 j 11:43	0°♌		
evening set	-3968 Aug 13 j 00:03	3°♌38'12		
conjunction	-3968 Aug 29 j 18:10	5°♌34'48	2°10'34	
minimum elong	-3968 Aug 29 j 18:07	5°♌34'47	2°10'42	
max. Earth dist.	-3968 Aug 29 j 14:20	5°♌33'41	11.10138 AU	
morning rise	-3968 Sep 15 j 08:14	7°♌30'14		
retrograde	-3968 Dec 22 j 21:23	14°♌19'35		
opposition	-3967 Mar 02 j 10:20	11°♌03'31	2°45'47	
min. Earth dist.	-3967 Mar 02 j 13:51	11°♌02'52	9.14162 AU	
direct	-3967 May 13 j 05:35	7°♌42'27		
evening set	-3967 Aug 24 j 09:23	14°♌45'54		
	-3967 Aug 26 j 10:53	15°♌		
conjunction	-3967 Sep 09 j 23:50	16°♌40'45	2°20'19	
minimum elong	-3967 Sep 09 j 23:48	16°♌40'45	2°20'26	
max. Earth dist.	-3967 Sep 09 j 18:07	16°♌39'06	11.17214 AU	
morning rise	-3967 Sep 26 j 10:41	18°♌34'39		
retrograde	-3966 Jan 03 j 05:27	25°♌21'54		
opposition	-3966 Mar 14 j 04:14	22°♌06'08	2°54'19	
min. Earth dist.	-3966 Mar 14 j 10:07	22°♌05'03	9.19979 AU	
direct	-3966 May 25 j 00:44	18°♌46'05		
evening set	-3966 Sep 04 j 13:29	25°♌45'04		
conjunction	-3966 Sep 21 j 01:01	27°♌38'44	2°24'47	
minimum elong	-3966 Sep 21 j 01:01	27°♌38'44	2°24'53	
max. Earth dist.	-3966 Sep 20 j 16:32	27°♌36'16	11.21656 AU	
morning rise	-3966 Oct 07 j 09:52	29°♌31'39		
	-3966 Oct 11 j 14:33	0°♍		
retrograde	-3965 Jan 14 j 13:17	6°♍18'32		
opposition	-3965 Mar 25 j 20:49	3°♍02'49	2°56'28	
min. Earth dist.	-3965 Mar 26 j 05:33	3°♍01'13	9.23068 AU	
	-3965 May 17 j 22:15	30°℞♌		
direct	-3965 Jun 05 j 15:30	29°♌43'37		
	-3965 Jun 24 j 06:10	0°♍		
evening set	-3965 Sep 15 j 13:55	6°♍39'30		
conjunction	-3965 Oct 01 j 23:32	8°♍32'33	2°23'57	
minimum elong	-3965 Oct 01 j 23:33	8°♍32'33	2°24'02	
max. Earth dist.	-3965 Oct 01 j 12:12	8°♍29'16	11.23330 AU	
morning rise	-3965 Oct 18 j 07:29	10°♍25'10		
retrograde	-3964 Jan 25 j 21:08	17°♍13'22		
opposition	-3964 Apr 05 j 13:25	13°♍57'22	2°52'16	
min. Earth dist.	-3964 Apr 05 j 23:47	13°♍55'29	9.23316 AU	
direct	-3964 Jun 16 j 04:09	10°♍38'51		
evening set	-3964 Sep 25 j 12:24	17°♍33'03		
conjunction	-3964 Oct 11 j 21:14	19°♍26'05	2°17'54	
minimum elong	-3964 Oct 11 j 21:16	19°♍26'06	2°17'57	
max. Earth dist.	-3964 Oct 11 j 08:51	19°♍22'30	11.22167 AU	
morning rise	-3964 Oct 28 j 05:08	21°♍18'55		
retrograde	-3963 Feb 05 j 10:46	28°♍10'12		
opposition	-3963 Apr 17 j 07:22	24°♍53'38	2°41'52	
min. Earth dist.	-3963 Apr 17 j 18:25	24°♍51'37	9.20709 AU	
direct	-3963 Jun 27 j 16:54	21°♍35'36		
evening set	-3963 Oct 06 j 10:59	28°♍29'31		
	-3963 Oct 19 j 12:36	0°♎		
conjunction	-3963 Oct 22 j 20:01	0°♎23'08	2°06'47	
minimum elong	-3963 Oct 22 j 20:03	0°♎23'08	2°06'48	
max. Earth dist.	-3963 Oct 22 j 06:57	0°♎19'19	11.18199 AU	
morning rise	-3963 Nov 08 j 04:51	2°♎16'48		
retrograde	-3962 Feb 17 j 03:32	9°♎12'44		
opposition	-3962 Apr 29 j 03:57	5°♎55'20	2°25'27	
min. Earth dist.	-3962 Apr 29 j 15:56	5°♎53'08	9.15334 AU	
direct	-3962 Jul 09 j 03:14	2°♎37'33		
evening set	-3962 Oct 17 j 11:28	9°♎32'41		

Attention, astronomical year style is used: The year -3962 in astronomical counting style is the year 3963 BCE in historical counting style.

conjunction	-3962 Nov 02 j 21:26	11°♎27'25	1°50'50
minimum elong	-3962 Nov 02 j 21:29	11°♎27'25	1°50'48
max. Earth dist.	-3962 Nov 02 j 06:45	11°♎23'06	11.11555 AU
morning rise	-3962 Nov 19 j 08:21	13°♎22'29	
retrograde	-3961 Mar 01 j 02:11	20°♎24'41	
opposition	-3961 May 11 j 04:15	17°♎06'12	2°03'21
min. Earth dist.	-3961 May 11 j 17:25	17°♎03'47	9.07359 AU
direct	-3961 Jul 20 j 16:45	13°♎48'23	
evening set	-3961 Oct 28 j 15:48	20°♎46'19	
conjunction	-3961 Nov 14 j 03:32	22°♎42'40	1°30'24
minimum elong	-3961 Nov 14 j 03:35	22°♎42'41	1°30'19
max. Earth dist.	-3961 Nov 13 j 12:09	22°♎38'07	11.02434 AU
morning rise	-3961 Nov 30 j 17:17	24°♎39'40	
	-3960 Jan 23 j 22:29	0°♏	
retrograde	-3960 Mar 12 j 06:46	1°♏49'42	
	-3960 May 01 j 07:56	30°℞♎	
opposition	-3960 May 22 j 09:18	28°♎29'53	1°36'00
min. Earth dist.	-3960 May 22 j 22:40	28°♎27'25	8.97040 AU
direct	-3960 Jul 31 j 09:19	25°♎11'47	
	-3960 Oct 19 j 05:32	0°♏	
evening set	-3960 Nov 08 j 01:47	2°♏14'04	
conjunction	-3960 Nov 24 j 16:11	4°♏12'32	1°05'58
minimum elong	-3960 Nov 24 j 16:13	4°♏12'33	1°05'52
max. Earth dist.	-3960 Nov 24 j 01:48	4°♏08'14	10.91128 AU
morning rise	-3960 Dec 11 j 09:15	6°♏11'55	
retrograde	-3959 Mar 24 j 20:52	13°♏31'18	
opposition	-3959 Jun 03 j 20:17	10°♏09'55	1°04'02
min. Earth dist.	-3959 Jun 04 j 08:27	10°♏07'38	8.84717 AU
direct	-3959 Aug 12 j 07:15	6°♏51'17	
evening set	-3959 Nov 19 j 19:24	13°♏59'28	
	-3959 Nov 28 j 05:23	15°♏	
conjunction	-3959 Dec 06 j 12:58	16°♏00'30	0°38'13
minimum elong	-3959 Dec 06 j 13:00	16°♏00'31	0°38'06
max. Earth dist.	-3959 Dec 05 j 23:28	15°♏56'24	10.77999 AU
morning rise	-3959 Dec 23 j 09:55	18°♏02'41	
retrograde	-3958 Apr 06 j 21:48	25°♏32'42	
opposition	-3958 Jun 16 j 14:05	22°♏09'38	0°28'20
min. Earth dist.	-3958 Jun 17 j 01:00	22°♏07'34	8.70795 AU
direct	-3958 Aug 24 j 09:35	18°♏50'12	
evening set	-3958 Dec 01 j 22:47	26°♏05'56	
conjunction	-3958 Dec 18 j 19:47	28°♏09'51	0°08'04
minimum elong	-3958 Dec 18 j 19:48	28°♏09'52	0°07'56
behind sun begin	-3958 Dec 18 j 13:27	28°♏07'56	
behind sun end	-3958 Dec 19 j 02:08	28°♏11'48	
max. Earth dist.	-3958 Dec 18 j 06:37	28°♏05'49	10.63487 AU
	-3957 Jan 02 j 18:55	0°♐	
morning rise	-3957 Jan 04 j 21:03	0°♐15'10	
desc. node	-3957 Mar 25 j 18:55	7°♐24'40	
retrograde	-3957 Apr 20 j 06:57	7°♐56'56	
opposition	-3957 Jun 29 j 15:22	4°♐32'09	-0°09'52
min. Earth dist.	-3957 Jun 30 j 01:16	4°♐30'14	8.55774 AU
direct	-3957 Sep 05 j 18:35	1°♐11'39	
evening set	-3957 Dec 14 j 13:26	8°♐36'35	
conjunction	-3957 Dec 31 j 14:11	10°♐43'40	-0°23'27
minimum elong	-3957 Dec 31 j 14:10	10°♐43'40	0°23'36
max. Earth dist.	-3957 Dec 31 j 02:10	10°♐39'55	10.48173 AU
morning rise	-3956 Jan 17 j 19:54	12°♐52'20	
retrograde	-3956 May 03 j 02:26	20°♐46'38	
opposition	-3956 Jul 12 j 01:04	17°♐20'08	-0°49'00
min. Earth dist.	-3956 Jul 12 j 09:26	17°♐18'30	8.40353 AU
direct	-3956 Sep 17 j 13:57	13°♐58'25	
evening set	-3956 Dec 26 j 16:45	21°♐33'45	

conjunction	-3955 Jan 12 j 21:32	23°♐44'09	-0°54'41
minimum elong	-3955 Jan 12 j 21:29	23°♐44'08	0°54'51
max. Earth dist.	-3955 Jan 12 j 12:35	23°♐41'18	10.32841 AU
morning rise	-3955 Jan 30 j 07:34	25°♐56'15	
	-3955 Mar 06 j 12:42	0°♑	
retrograde	-3955 May 17 j 08:44	4°♑03'09	
opposition	-3955 Jul 25 j 19:06	0°♑34'59	-1°27'01
min. Earth dist.	-3955 Jul 26 j 00:48	0°♑33'51	8.25386 AU
	-3955 Aug 02 j 03:52	30°℞♐	
direct	-3955 Sep 30 j 18:13	27°♐11'53	
	-3955 Nov 26 j 06:44	0°♑	
evening set	-3954 Jan 09 j 09:58	4°♑58'24	
conjunction	-3954 Jan 26 j 18:50	7°♑12'05	-1°23'55
minimum elong	-3954 Jan 26 j 18:47	7°♑12'04	1°24'05
max. Earth dist.	-3954 Jan 26 j 13:54	7°♑10'29	10.18370 AU
morning rise	-3954 Feb 13 j 08:54	9°♑27'29	
retrograde	-3954 Jun 01 j 00:42	17°♑46'06	
opposition	-3954 Aug 08 j 20:49	14°♑16'27	-2°01'30
min. Earth dist.	-3954 Aug 08 j 23:03	14°♑16'00	8.11752 AU
direct	-3954 Oct 14 j 07:47	10°♑51'51	
evening set	-3953 Jan 23 j 16:58	18°♑49'42	
conjunction	-3953 Feb 10 j 05:47	21°♑06'26	-1°49'10
minimum elong	-3953 Feb 10 j 05:44	21°♑06'25	1°49'20
max. Earth dist.	-3953 Feb 10 j 05:11	21°♑06'14	10.05642 AU
morning rise	-3953 Feb 27 j 23:30	23°♑24'48	
	-3953 Apr 30 j 02:47	0°♒	
retrograde	-3953 Jun 15 j 23:48	1°♒53'16	
	-3953 Aug 02 j 13:55	30°℞♑	
opposition	-3953 Aug 23 j 05:36	28°♑22'27	-2°29'50
min. Earth dist.	-3953 Aug 23 j 04:07	28°♑22'45	8.00295 AU
direct	-3953 Oct 28 j 07:40	24°♑56'22	
	-3952 Jan 13 j 13:44	0°♒	
evening set	-3952 Feb 07 j 12:33	3°♒04'46	
conjunction	-3952 Feb 25 j 05:07	5°♒24'08	-2°08'24
minimum elong	-3952 Feb 25 j 05:04	5°♒24'07	2°08'33
max. Earth dist.	-3952 Feb 25 j 08:53	5°♒25'23	9.95485 AU
morning rise	-3952 Mar 14 j 02:07	7°♒44'59	
	-3952 May 22 j 06:54	15°♒	
retrograde	-3952 Jun 30 j 03:32	16°♒20'23	
	-3952 Aug 08 j 07:06	15°℞♒	
opposition	-3952 Sep 05 j 19:44	12°♒48'48	-2°49'30
min. Earth dist.	-3952 Sep 05 j 14:51	12°♒49'49	7.91766 AU
direct	-3952 Nov 10 j 16:08	9°♒21'18	
	-3951 Jan 31 j 17:38	15°♒	
evening set	-3951 Feb 21 j 18:51	17°♒38'34	
conjunction	-3951 Mar 11 j 14:58	20°♒00'02	-2°19'53
minimum elong	-3951 Mar 11 j 14:57	20°♒00'02	2°20'00
max. Earth dist.	-3951 Mar 11 j 22:35	20°♒02'35	9.88593 AU
morning rise	-3951 Mar 29 j 14:49	22°♒22'43	
	-3951 Jun 11 j 21:02	0°♓	
retrograde	-3951 Jul 15 j 09:05	1°♓01'12	
	-3951 Aug 18 j 00:07	30°℞♒	
opposition	-3951 Sep 20 j 12:56	27°♒29'18	-2°58'30
min. Earth dist.	-3951 Sep 20 j 05:30	27°♒30'52	7.86743 AU
direct	-3951 Nov 25 j 07:52	24°♒00'34	
	-3950 Feb 18 j 08:37	0°♓	
evening set	-3950 Mar 09 j 08:32	2°♓24'09	
conjunction	-3950 Mar 27 j 07:52	4°♓47'00	-2°22'23
minimum elong	-3950 Mar 27 j 07:53	4°♓47'00	2°22'28
max. Earth dist.	-3950 Mar 27 j 18:49	4°♓50'39	9.85444 AU
morning rise	-3950 Apr 14 j 09:54	7°♓10'40	
retrograde	-3950 Jul 30 j 12:59	15°♓47'57	

Attention, astronomical year style is used: The year -3950 in astronomical counting style is the year 3951 BCE in historical counting style.

opposition	-3950 Oct 05 j 06:56	12°♓16'17	-2°55'44
min. Earth dist.	-3950 Oct 04 j 21:31	12°♓18'15	7.85565 AU
direct	-3950 Dec 10 j 04:58	8°♓46'33	
evening set	-3949 Mar 25 j 01:24	17°♓13'12	
conjunction	-3949 Apr 12 j 03:20	19°♓36'34	-2°15'31
minimum elong	-3949 Apr 12 j 03:23	19°♓36'35	2°15'34
max. Earth dist.	-3949 Apr 12 j 17:07	19°♓41'09	9.86250 AU
morning rise	-3949 Apr 30 j 06:44	22°♓00'19	
	-3949 Jul 21 j 13:26	0°♈	
retrograde	-3949 Aug 14 j 11:59	0°♈32'14	
	-3949 Sep 07 j 09:50	30°℞♓	
opposition	-3949 Oct 19 j 23:01	27°♓01'15	-2°41'21
min. Earth dist.	-3949 Oct 19 j 11:58	27°♓03'34	7.88300 AU
direct	-3949 Dec 25 j 05:32	23°♓30'53	
	-3948 Mar 24 j 06:21	0°♈	
evening set	-3948 Apr 08 j 17:27	1°♈57'08	
conjunction	-3948 Apr 26 j 21:10	4°♈20'07	-1°59'52
minimum elong	-3948 Apr 26 j 21:14	4°♈20'08	1°59'53
max. Earth dist.	-3948 Apr 27 j 12:51	4°♈25'17	9.90936 AU
morning rise	-3948 May 15 j 00:57	6°♈43'00	
retrograde	-3948 Aug 28 j 02:34	15°♈05'56	
opposition	-3948 Nov 02 j 10:45	11°♈36'04	-2°16'40
min. Earth dist.	-3948 Nov 01 j 22:32	11°♈38'38	7.94736 AU
direct	-3947 Jan 08 j 05:50	8°♈05'28	
evening set	-3947 Apr 24 j 04:46	16°♈28'03	
conjunction	-3947 May 12 j 09:07	18°♈49'43	-1°36'48
minimum elong	-3947 May 12 j 09:11	18°♈49'45	1°36'46
max. Earth dist.	-3947 May 13 j 01:41	18°♈55'08	9.99138 AU
morning rise	-3947 May 30 j 12:02	21°♈10'51	
retrograde	-3947 Sep 11 j 07:14	29°♈22'15	
opposition	-3947 Nov 16 j 16:23	25°♈53'52	-1°43'54
min. Earth dist.	-3947 Nov 16 j 03:20	25°♈56'34	8.04402 AU
direct	-3946 Jan 23 j 02:16	22°♈23'25	
	-3946 May 04 j 01:43	0°♉	
evening set	-3946 May 09 j 08:01	0°♉39'36	
conjunction	-3946 May 27 j 11:33	2°♉59'08	-1°08'17
minimum elong	-3946 May 27 j 11:36	2°♉59'09	1°08'13
max. Earth dist.	-3946 May 28 j 04:21	3°♉04'33	10.10263 AU
morning rise	-3946 Jun 14 j 12:12	5°♉17'43	
retrograde	-3946 Sep 25 j 02:03	13°♉16'13	
opposition	-3946 Nov 30 j 14:34	9°♉49'34	-1°05'49
min. Earth dist.	-3946 Nov 30 j 01:35	9°♉52'14	8.16649 AU
direct	-3945 Feb 06 j 16:14	6°♉19'41	
evening set	-3945 May 24 j 00:54	14°♉27'29	
	-3945 May 28 j 08:57	15°♉	
conjunction	-3945 Jun 11 j 02:10	16°♉44'13	-0°36'31
minimum elong	-3945 Jun 11 j 02:12	16°♉44'14	0°36'25
max. Earth dist.	-3945 Jun 11 j 18:15	16°♉49'19	10.23587 AU
morning rise	-3945 Jun 28 j 23:24	18°♉59'40	
retrograde	-3945 Oct 08 j 11:30	26°♉44'55	
opposition	-3945 Dec 14 j 04:34	23°♉20'10	-0°25'16
min. Earth dist.	-3945 Dec 13 j 16:49	23°♉22'33	8.30725 AU
direct	-3944 Feb 20 j 21:34	19°♉51'09	
evening set	-3944 Jun 06 j 06:00	27°♉49'25	
	-3944 Jun 23 j 18:20	0°♊	
conjunction	-3944 Jun 24 j 03:43	0°♊02'55	-0°03'42
minimum elong	-3944 Jun 24 j 03:42	0°♊02'55	0°03'34
behind sun begin	-3944 Jun 23 j 20:30	0°♊00'41	
behind sun end	-3944 Jun 24 j 10:54	0°♊05'08	
max. Earth dist.	-3944 Jun 24 j 17:43	0°♊07'17	10.38304 AU
morning rise	-3944 Jul 11 j 20:34	2°♊14'54	

asc. node	-3944 Aug 05 j 03:13	5°♊04'50	
retrograde	-3944 Oct 20 j 09:23	9°♊47'25	
opposition	-3944 Dec 26 j 10:23	6°♊24'37	0°15'14
min. Earth dist.	-3944 Dec 26 j 00:46	6°♊26'32	8.45816 AU
direct	-3943 Mar 05 j 20:04	2°♊56'44	
evening set	-3943 Jun 19 j 22:53	10°♊45'01	
conjunction	-3943 Jul 07 j 15:52	12°♊55'00	0°28'30
minimum elong	-3943 Jul 07 j 15:51	12°♊55'00	0°28'40
max. Earth dist.	-3943 Jul 08 j 02:45	12°♊58'21	10.53597 AU
morning rise	-3943 Jul 25 j 03:44	15°♊03'25	
retrograde	-3943 Nov 01 j 20:39	22°♊24'21	
opposition	-3942 Jan 08 j 08:14	19°♊03'25	0°53'32
min. Earth dist.	-3942 Jan 08 j 00:52	19°♊04'51	8.61130 AU
direct	-3942 Mar 19 j 09:56	15°♊36'51	
evening set	-3942 Jul 03 j 03:27	23°♊15'13	
conjunction	-3942 Jul 20 j 15:10	25°♊21'41	0°58'19
minimum elong	-3942 Jul 20 j 15:08	25°♊21'41	0°58'29
max. Earth dist.	-3942 Jul 20 j 22:27	25°♊23'54	10.68711 AU
morning rise	-3942 Aug 06 j 21:45	27°♊26'35	
	-3942 Aug 29 j 10:21	0°♋	
retrograde	-3942 Nov 14 j 00:42	4°♋37'29	
opposition	-3941 Jan 20 j 22:44	1°♋18'13	1°28'03
min. Earth dist.	-3941 Jan 20 j 17:10	1°♋19'17	8.75937 AU
	-3941 Feb 07 j 08:00	30°℞♊	
direct	-3941 Apr 01 j 14:00	27°♊53'04	
	-3941 May 23 j 15:44	0°♋	
evening set	-3941 Jul 15 j 20:13	5°♋21'58	
conjunction	-3941 Aug 02 j 02:36	7°♋25'09	1°24'41
minimum elong	-3941 Aug 02 j 02:33	7°♋25'08	1°24'51
max. Earth dist.	-3941 Aug 02 j 07:10	7°♋26'31	10.82956 AU
morning rise	-3941 Aug 19 j 03:50	9°♋26'48	
retrograde	-3941 Nov 25 j 21:39	16°♋29'19	
opposition	-3940 Feb 02 j 06:47	13°♋11'28	1°57'40
min. Earth dist.	-3940 Feb 02 j 03:19	13°♋12'07	8.89570 AU
direct	-3940 Apr 13 j 09:02	9°♋47'45	
evening set	-3940 Jul 27 j 02:33	17°♋08'01	
conjunction	-3940 Aug 13 j 03:43	19°♋08'12	1°46'47
minimum elong	-3940 Aug 13 j 03:40	19°♋08'11	1°46'57
max. Earth dist.	-3940 Aug 13 j 05:44	19°♋08'48	10.95723 AU
morning rise	-3940 Aug 29 j 23:50	21°♋06'58	
retrograde	-3940 Dec 06 j 13:52	28°♋02'53	
opposition	-3939 Feb 13 j 09:25	24°♋46'12	2°21'37
min. Earth dist.	-3939 Feb 13 j 08:58	24°♋46'17	9.01472 AU
direct	-3939 Apr 25 j 20:02	21°♋23'50	
evening set	-3939 Aug 07 j 23:38	28°♋36'29	
	-3939 Aug 19 j 23:27	0°♌	
conjunction	-3939 Aug 24 j 19:53	0°♌34'07	2°04'07
minimum elong	-3939 Aug 24 j 19:50	0°♌34'06	2°04'15
max. Earth dist.	-3939 Aug 24 j 18:30	0°♌33'42	11.06515 AU
morning rise	-3939 Sep 10 j 11:39	2°♌30'29	
retrograde	-3939 Dec 18 j 00:54	9°♌21'35	
opposition	-3938 Feb 25 j 07:57	6°♌05'43	2°39'28
min. Earth dist.	-3938 Feb 25 j 10:53	6°♌05'10	9.11183 AU
direct	-3938 May 07 j 23:17	2°♌44'34	
evening set	-3938 Aug 19 j 12:43	9°♌50'46	
conjunction	-3938 Sep 05 j 04:42	11°♌46'21	2°16'19
minimum elong	-3938 Sep 05 j 04:40	11°♌46'20	2°16'26
max. Earth dist.	-3938 Sep 04 j 23:17	11°♌44'47	11.14917 AU
morning rise	-3938 Sep 21 j 17:04	13°♌40'55	
	-3938 Oct 03 j 12:32	15°♌	
retrograde	-3938 Dec 29 j 08:58	20°♌29'02	

Attention, astronomical year style is used: The year -3937 in astronomical counting style is the year 3938 BCE in historical counting style.

opposition	-3937 Mar 09 j 03:13	17°♌13'37	2°50'59
min. Earth dist.	-3937 Mar 09 j 08:47	17°♌12'36	9.18302 AU
	-3937 Apr 11 j 09:38	15°℞♌	
direct	-3937 May 19 j 22:45	13°♌53'32	
	-3937 Jun 26 j 18:26	15°♌	
evening set	-3937 Aug 30 j 19:37	20°♌54'39	
conjunction	-3937 Sep 16 j 08:23	22°♌48'47	2°23'16
minimum elong	-3937 Sep 16 j 08:22	22°♌48'46	2°23'21
max. Earth dist.	-3937 Sep 16 j 00:09	22°♌46'23	11.20584 AU
morning rise	-3937 Oct 02 j 18:10	24°♌42'05	
	-3937 Nov 27 j 16:15	0°♍	
retrograde	-3936 Jan 09 j 17:43	1°♍29'04	
	-3936 Feb 23 j 05:02	30°℞♌	
opposition	-3936 Mar 19 j 20:29	28°♌13'47	2°56'07
min. Earth dist.	-3936 Mar 20 j 03:59	28°♌12'25	9.22540 AU
direct	-3936 May 30 j 16:25	24°♌54'37	
	-3936 Aug 23 j 21:07	0°♍	
evening set	-3936 Sep 09 j 22:05	1°♍52'02	
conjunction	-3936 Sep 26 j 08:37	3°♍45'20	2°24'53
minimum elong	-3936 Sep 26 j 08:38	3°♍45'20	2°24'58
max. Earth dist.	-3936 Sep 25 j 22:33	3°♍42'25	11.23321 AU
morning rise	-3936 Oct 12 j 16:45	5°♍38'01	
retrograde	-3935 Jan 20 j 02:48	12°♍25'39	
opposition	-3935 Mar 31 j 13:33	9°♍10'11	2°54'51
min. Earth dist.	-3935 Mar 31 j 23:22	9°♍08'23	9.23799 AU
direct	-3935 Jun 11 j 05:59	5°♍51'42	
evening set	-3935 Sep 20 j 21:51	12°♍46'50	
conjunction	-3935 Oct 07 j 06:58	14°♍39'51	2°21'14
minimum elong	-3935 Oct 07 j 07:00	14°♍39'52	2°21'18
max. Earth dist.	-3935 Oct 06 j 18:13	14°♍36'10	11.23108 AU
morning rise	-3935 Oct 23 j 14:42	16°♍32'33	
retrograde	-3934 Jan 31 j 14:15	23°♍22'31	
opposition	-3934 Apr 12 j 07:25	20°♍06'31	2°47'19
min. Earth dist.	-3934 Apr 12 j 19:36	20°♍04'18	9.22111 AU
direct	-3934 Jun 22 j 18:29	16°♍48'26	
evening set	-3934 Oct 01 j 20:46	23°♍42'42	
conjunction	-3934 Oct 18 j 05:31	25°♍36'03	2°12'26
minimum elong	-3934 Oct 18 j 05:33	25°♍36'04	2°12'28
max. Earth dist.	-3934 Oct 17 j 14:34	25°♍31'42	11.20010 AU
morning rise	-3934 Nov 03 j 13:58	27°♍29'22	
	-3934 Nov 26 j 17:20	0°♎	
retrograde	-3933 Feb 12 j 03:23	4°♎23'17	
opposition	-3933 Apr 24 j 02:56	1°♎06'23	2°33'40
min. Earth dist.	-3933 Apr 24 j 16:30	1°♎03'54	9.17567 AU
	-3933 May 09 j 13:51	30°℞♍	
direct	-3933 Jul 04 j 06:39	27°♍48'27	
	-3933 Aug 26 j 12:03	0°♎	
evening set	-3933 Oct 12 j 20:30	4°♎43'20	
conjunction	-3933 Oct 29 j 05:59	6°♎37'35	1°58'41
minimum elong	-3933 Oct 29 j 06:02	6°♎37'35	1°58'40
max. Earth dist.	-3933 Oct 28 j 14:43	6°♎33'07	11.14141 AU
morning rise	-3933 Nov 14 j 15:55	8°♎32'03	
retrograde	-3932 Feb 24 j 00:30	15°♎31'35	
opposition	-3932 May 05 j 01:37	12°♎13'28	2°14'09
min. Earth dist.	-3932 May 05 j 15:06	12°♎11'00	9.10321 AU
direct	-3932 Jul 14 j 20:58	8°♎55'28	
evening set	-3932 Oct 22 j 22:55	15°♎52'24	
conjunction	-3932 Nov 08 j 09:56	17°♎48'06	1°40'16
minimum elong	-3932 Nov 08 j 09:59	17°♎48'07	1°40'13
max. Earth dist.	-3932 Nov 07 j 18:37	17°♎43'35	11.05692 AU
morning rise	-3932 Nov 24 j 22:11	19°♎44'17	
retrograde	-3931 Mar 07 j 02:53	26°♎51'00	
opposition	-3931 May 17 j 04:39	23°♎31'28	1°49'10
min. Earth dist.	-3931 May 17 j 18:03	23°♎29'00	9.00627 AU
direct	-3931 Jul 26 j 10:37	20°♎13'09	
evening set	-3931 Nov 03 j 06:17	27°♎13'45	
conjunction	-3931 Nov 19 j 19:26	29°♎11'22	1°17'37
minimum elong	-3931 Nov 19 j 19:29	29°♎11'23	1°17'32
max. Earth dist.	-3931 Nov 19 j 03:30	29°♎06'37	10.94964 AU
	-3931 Nov 26 j 14:35	0°♏	
morning rise	-3931 Dec 06 j 10:57	1°♏09'45	
retrograde	-3930 Mar 19 j 12:20	8°♏25'12	
opposition	-3930 May 29 j 13:00	5°♏04'04	1°19'13
min. Earth dist.	-3930 May 30 j 02:31	5°♏01'33	8.88831 AU
direct	-3930 Aug 07 j 05:59	1°♏45'10	
evening set	-3930 Nov 14 j 20:18	8°♏51'04	
conjunction	-3930 Dec 01 j 12:18	10°♏51'05	0°51'17
minimum elong	-3930 Dec 01 j 12:20	10°♏51'05	0°51'11
max. Earth dist.	-3930 Nov 30 j 20:38	10°♏46'21	10.82330 AU
morning rise	-3930 Dec 18 j 07:39	12°♏52'08	
	-3929 Jan 05 j 23:07	15°♏	
retrograde	-3929 Apr 01 j 07:24	20°♏17'42	
opposition	-3929 Jun 11 j 03:44	16°♏54'52	0°45'05
min. Earth dist.	-3929 Jun 11 j 16:35	16°♏52'26	8.75358 AU
	-3929 Jul 08 j 02:54	15°℞♏	
direct	-3929 Aug 19 j 06:35	13°♏35'11	
	-3929 Sep 29 j 02:54	15°♏	
evening set	-3929 Nov 26 j 18:55	20°♏47'59	
conjunction	-3929 Dec 13 j 14:22	22°♏50'45	0°22'04
minimum elong	-3929 Dec 13 j 14:23	22°♏50'45	0°21'57
max. Earth dist.	-3929 Dec 13 j 00:41	22°♏46'34	10.68244 AU
morning rise	-3929 Dec 30 j 13:44	24°♏54'49	
	-3928 Feb 16 j 19:34	0°♐	
retrograde	-3928 Apr 13 j 11:42	2°♐31'46	
	-3928 Jun 11 j 10:41	30°℞♏	
opposition	-3928 Jun 23 j 01:45	29°♏07'08	0°07'48
min. Earth dist.	-3928 Jun 23 j 12:30	29°♏05'05	8.60728 AU
direct	-3928 Aug 30 j 13:25	25°♏46'31	
desc. node	-3928 Sep 07 j 15:53	25°♏50'01	
	-3928 Nov 10 j 21:37	0°♐	
evening set	-3928 Dec 08 j 04:12	3°♐07'45	
conjunction	-3928 Dec 25 j 03:25	5°♐13'35	-0°09'03
minimum elong	-3928 Dec 25 j 03:24	5°♐13'35	0°09'12
behind sun begin	-3928 Dec 24 j 21:23	5°♐11'44	
behind sun end	-3928 Dec 25 j 09:24	5°♐15'26	
max. Earth dist.	-3928 Dec 24 j 16:13	5°♐10'07	10.53281 AU
morning rise	-3927 Jan 11 j 07:01	7°♐20'54	
retrograde	-3927 Apr 27 j 03:25	15°♐10'05	
opposition	-3927 Jul 06 j 07:44	11°♐43'41	-0°31'10
min. Earth dist.	-3927 Jul 06 j 15:45	11°♐42'07	8.45578 AU
direct	-3927 Sep 12 j 04:30	8°♐21'58	
evening set	-3927 Dec 21 j 01:43	15°♐52'57	
conjunction	-3926 Jan 07 j 04:47	18°♐02'02	-0°40'35
minimum elong	-3926 Jan 07 j 04:45	18°♐02'01	0°40'44
max. Earth dist.	-3926 Jan 06 j 19:53	17°♐59'13	10.38117 AU
morning rise	-3926 Jan 24 j 12:48	20°♐12'45	
retrograde	-3926 May 11 j 06:16	28°♐14'27	
opposition	-3926 Jul 19 j 22:02	24°♐46'25	-1°10'00
min. Earth dist.	-3926 Jul 20 j 03:21	24°♐45'22	8.30623 AU
direct	-3926 Sep 25 j 03:07	21°♐23'28	
evening set	-3925 Jan 03 j 12:42	29°♐05'14	
	-3925 Jan 10 j 17:34	0°♑	

Attention, astronomical year style is used: The year -3925 in astronomical counting style is the year 3926 BCE in historical counting style.

conjunction	-3925 Jan 20 j 19:36	1°♑17'33	-1°10'58
minimum elong	-3925 Jan 20 j 19:34	1°♑17'32	1°11'08
max. Earth dist.	-3925 Jan 20 j 13:18	1°♑15'32	10.23511 AU
morning rise	-3925 Feb 07 j 07:52	3°♑31'37	
retrograde	-3925 May 25 j 18:26	11°♑45'25	
opposition	-3925 Aug 02 j 20:28	8°♑15'58	-1°46'26
min. Earth dist.	-3925 Aug 02 j 23:16	8°♑15'24	8.16664 AU
direct	-3925 Oct 08 j 11:48	4°♑51'40	
evening set	-3924 Jan 17 j 13:26	12°♑44'43	
conjunction	-3924 Feb 04 j 00:16	15°♑00'09	-1°38'17
minimum elong	-3924 Feb 04 j 00:12	15°♑00'08	1°38'28
max. Earth dist.	-3924 Feb 03 j 21:41	14°♑59'19	10.10296 AU
morning rise	-3924 Feb 21 j 16:28	17°♑17'19	
retrograde	-3924 Jun 08 j 14:05	25°♑41'52	
opposition	-3924 Aug 16 j 02:28	22°♑11'16	-2°17'53
min. Earth dist.	-3924 Aug 16 j 02:20	22°♑11'18	8.04535 AU
direct	-3924 Oct 21 j 08:04	18°♑45'39	
evening set	-3923 Jan 31 j 03:28	26°♑49'37	
conjunction	-3923 Feb 17 j 18:14	29°♑07'53	-2°00'30
minimum elong	-3923 Feb 17 j 18:11	29°♑07'52	2°00'39
max. Earth dist.	-3923 Feb 17 j 20:10	29°♑08'31	9.99299 AU
	-3923 Feb 24 j 08:37	0°♒	
morning rise	-3923 Mar 07 j 13:57	1°♒27'45	
retrograde	-3923 Jun 23 j 15:28	10°♒00'35	
opposition	-3923 Aug 30 j 14:37	6°♒29'15	-2°41'44
min. Earth dist.	-3923 Aug 30 j 11:13	6°♒29'57	7.95011 AU
direct	-3923 Nov 04 j 13:19	3°♒02'22	
evening set	-3922 Feb 15 j 05:29	11°♒16'00	
conjunction	-3922 Mar 04 j 24:00	13°♒36'37	-2°15'40
minimum elong	-3922 Mar 04 j 23:58	13°♒36'36	2°15'48
max. Earth dist.	-3922 Mar 05 j 06:45	13°♒38'51	9.91265 AU
	-3922 Mar 15 j 11:44	15°♒	
morning rise	-3922 Mar 22 j 22:39	15°♒58'34	
retrograde	-3922 Jul 08 j 20:47	24°♒36'15	
opposition	-3922 Sep 14 j 06:51	21°♒04'36	-2°55'43
min. Earth dist.	-3922 Sep 14 j 00:01	21°♒06'01	7.88754 AU
direct	-3922 Nov 19 j 02:08	17°♒36'36	
evening set	-3921 Mar 02 j 16:27	25°♒57'43	
conjunction	-3921 Mar 20 j 14:25	28°♒20'00	-2°22'18
minimum elong	-3921 Mar 20 j 14:25	28°♒20'00	2°22'24
max. Earth dist.	-3921 Mar 21 j 01:44	28°♒23'47	9.86788 AU
	-3921 Apr 02 j 03:28	0°♓	
morning rise	-3921 Apr 07 j 15:26	0°♓43'17	
retrograde	-3921 Jul 24 j 02:25	9°♓21'41	
opposition	-3921 Sep 29 j 01:05	5°♓50'10	-2°58'17
min. Earth dist.	-3921 Sep 28 j 15:04	5°♓52'16	7.86223 AU
direct	-3921 Dec 03 j 21:04	2°♓21'16	
evening set	-3920 Mar 17 j 08:33	10°♓46'48	
conjunction	-3920 Apr 04 j 09:29	13°♓09'58	-2°19'38
minimum elong	-3920 Apr 04 j 09:31	13°♓09'59	2°19'42
max. Earth dist.	-3920 Apr 05 j 00:26	13°♓14'56	9.86209 AU
morning rise	-3920 Apr 22 j 12:14	15°♓33'42	
retrograde	-3920 Aug 07 j 04:48	24°♓08'27	
opposition	-3920 Oct 12 j 18:33	20°♓37'31	-2°49'01
min. Earth dist.	-3920 Oct 12 j 06:28	20°♓40'03	7.87593 AU
direct	-3920 Dec 17 j 20:10	17°♓07'57	
evening set	-3919 Apr 02 j 01:53	25°♓34'29	
conjunction	-3919 Apr 20 j 05:00	27°♓57'38	-2°07'49
minimum elong	-3919 Apr 20 j 05:03	27°♓57'39	2°07'50
max. Earth dist.	-3919 Apr 20 j 22:04	28°♓03'17	9.89535 AU
	-3919 May 05 j 16:19	0°♈	
morning rise	-3919 May 08 j 08:32	0°♈20'53	
retrograde	-3919 Aug 22 j 00:11	8°♈47'57	
opposition	-3919 Oct 27 j 08:36	5°♈18'02	-2°28'44
min. Earth dist.	-3919 Oct 26 j 19:39	5°♈20'45	7.92709 AU
direct	-3918 Jan 01 j 20:32	1°♈48'05	
evening set	-3918 Apr 17 j 16:00	10°♈12'14	
conjunction	-3918 May 05 j 20:11	12°♈34'25	-1°47'53
minimum elong	-3918 May 05 j 20:15	12°♈34'27	1°47'52
max. Earth dist.	-3918 May 06 j 13:47	12°♈40'12	9.96435 AU
morning rise	-3918 May 23 j 23:25	14°♈56'16	
retrograde	-3918 Sep 05 j 09:54	23°♈12'42	
opposition	-3918 Nov 10 j 17:19	19°♈44'10	-1°59'18
min. Earth dist.	-3918 Nov 10 j 04:41	19°♈46'48	8.01097 AU
direct	-3917 Jan 16 j 18:35	16°♈14'12	
evening set	-3917 May 02 j 23:06	24°♈33'03	
conjunction	-3917 May 21 j 03:03	26°♈53'29	-1°21'34
minimum elong	-3917 May 21 j 03:07	26°♈53'30	1°21'30
max. Earth dist.	-3917 May 21 j 19:35	26°♈58'51	10.06289 AU
morning rise	-3917 Jun 08 j 04:49	29°♈13'09	
	-3917 Jun 14 j 09:47	0°♉	
retrograde	-3917 Sep 19 j 09:37	7°♉17'17	
opposition	-3917 Nov 24 j 19:02	3°♉50'25	-1°23'18
min. Earth dist.	-3917 Nov 24 j 07:20	3°♉52'49	8.12093 AU
direct	-3916 Jan 31 j 11:46	0°♉20'47	
evening set	-3916 May 16 j 21:06	8°♉32'19	
conjunction	-3916 Jun 03 j 23:25	10°♉50'18	-0°50'59
minimum elong	-3916 Jun 03 j 23:27	10°♉50'19	0°50'54
max. Earth dist.	-3916 Jun 04 j 13:59	10°♉54'58	10.18409 AU
morning rise	-3916 Jun 21 j 22:27	13°♉07'10	
	-3916 Jul 07 j 08:36	15°♉	
retrograde	-3916 Oct 01 j 23:00	20°♉58'20	
opposition	-3916 Dec 07 j 12:54	17°♉33'16	-0°43'31
min. Earth dist.	-3916 Dec 07 j 02:02	17°♉35'28	8.25043 AU
	-3915 Jan 12 j 01:49	15°℞♉	
direct	-3915 Feb 13 j 22:20	14°♉04'18	
	-3915 Mar 18 j 17:17	15°♉	
evening set	-3915 May 31 j 08:06	22°♉07'05	
conjunction	-3915 Jun 18 j 07:28	24°♉22'04	-0°18'20
minimum elong	-3915 Jun 18 j 07:29	24°♉22'04	0°18'13
max. Earth dist.	-3915 Jun 18 j 20:07	24°♉26'03	10.32134 AU
morning rise	-3915 Jul 06 j 02:35	26°♉35'40	
	-3915 Aug 04 j 11:53	0°♊	
retrograde	-3915 Oct 15 j 01:29	4°♊14'04	
opposition	-3915 Dec 20 j 22:46	0°♊50'48	-0°02'41
min. Earth dist.	-3915 Dec 20 j 12:54	0°♊52'47	8.39273 AU
	-3915 Dec 31 j 15:46	30°℞♉	
asc. node	-3914 Jan 14 j 22:13	28°♉57'46	
direct	-3914 Feb 28 j 01:45	27°♉22'45	
	-3914 Apr 26 j 01:58	0°♊	
evening set	-3914 Jun 14 j 06:53	5°♊15'52	
conjunction	-3914 Jul 02 j 02:10	7°♊27'31	0°14'25
minimum elong	-3914 Jul 02 j 02:09	7°♊27'31	0°14'33
behind sun begin	-3914 Jul 01 j 23:09	7°♊26'35	
behind sun end	-3914 Jul 02 j 05:08	7°♊28'26	
max. Earth dist.	-3914 Jul 02 j 12:59	7°♊30'52	10.46746 AU
morning rise	-3914 Jul 19 j 16:26	9°♊37'37	
retrograde	-3914 Oct 27 j 18:30	17°♊04'05	
opposition	-3913 Jan 03 j 00:37	13°♊42'32	0°36'53
min. Earth dist.	-3913 Jan 02 j 16:19	13°♊44'11	8.54054 AU
direct	-3913 Mar 13 j 19:23	10°♊15'34	
evening set	-3913 Jun 27 j 17:26	17°♊58'48	

Attention, astronomical year style is used: The year -3913 in astronomical counting style is the year 3914 BCE in historical counting style.

conjunction	-3913 Jul 15 j 07:50	20°♊06'59	0°45'26	
minimum elong	-3913 Jul 15 j 07:48	20°♊06'59	0°45'36	
max. Earth dist.	-3913 Jul 15 j 16:26	20°♊09'37	10.61511 AU	
morning rise	-3913 Aug 01 j 16:46	22°♊13'33		
retrograde	-3913 Nov 09 j 03:30	29°♊29'20		
opposition	-3912 Jan 15 j 18:44	26°♊09'22	1°13'19	
min. Earth dist.	-3912 Jan 15 j 13:10	26°♊10'27	8.68663 AU	
direct	-3912 Mar 26 j 02:50	22°♊43'33		
	-3912 Jul 07 j 05:35	0°♋		
evening set	-3912 Jul 09 j 16:06	0°♋17'12		
conjunction	-3912 Jul 27 j 01:04	2°♋22'01	1°13'30	
minimum elong	-3912 Jul 27 j 01:01	2°♋22'00	1°13'41	
max. Earth dist.	-3912 Jul 27 j 06:18	2°♋23'35	10.75730 AU	
morning rise	-3912 Aug 13 j 04:40	4°♋25'14		
retrograde	-3912 Nov 20 j 02:45	11°♋31'53		
opposition	-3911 Jan 27 j 06:06	8°♋13'17	1°45'17	
min. Earth dist.	-3911 Jan 27 j 03:23	8°♋13'48	8.82430 AU	
direct	-3911 Apr 08 j 02:13	4°♋48'40		
evening set	-3911 Jul 22 j 03:30	12°♋13'23		
conjunction	-3911 Aug 08 j 06:57	14°♋15'02	1°37'37	
minimum elong	-3911 Aug 08 j 06:54	14°♋15'01	1°37'48	
max. Earth dist.	-3911 Aug 08 j 08:24	14°♋15'28	10.88789 AU	
morning rise	-3911 Aug 25 j 05:29	16°♋15'14		
retrograde	-3911 Dec 01 j 20:09	23°♋14'31		
opposition	-3910 Feb 08 j 11:29	19°♋57'01	2°11'53	
min. Earth dist.	-3910 Feb 08 j 11:00	19°♋57'07	8.94778 AU	
direct	-3910 Apr 20 j 19:15	16°♋33'37		
evening set	-3910 Aug 03 j 04:49	23°♋50'15		
conjunction	-3910 Aug 20 j 03:14	25°♋49'10	1°57'09	
minimum elong	-3910 Aug 20 j 03:11	25°♋49'09	1°57'18	
max. Earth dist.	-3910 Aug 20 j 01:50	25°♋48'45	11.00182 AU	
morning rise	-3910 Sep 05 j 21:06	27°♋46'45		
	-3910 Sep 25 j 21:48	0°♌		
retrograde	-3910 Dec 13 j 09:36	4°♌40'27		
opposition	-3909 Feb 20 j 11:50	1°♌23'45	2°32'31	
min. Earth dist.	-3909 Feb 20 j 13:06	1°♌23'31	9.05238 AU	
	-3909 Mar 11 j 19:09	30°℞♋		
direct	-3909 May 03 j 02:25	28°♋01'33		
	-3909 Jun 22 j 23:13	0°♌		
evening set	-3909 Aug 14 j 21:27	5°♌11'10		
conjunction	-3909 Aug 31 j 15:31	7°♌07'50	2°11'40	
minimum elong	-3909 Aug 31 j 15:28	7°♌07'49	2°11'48	
max. Earth dist.	-3909 Aug 31 j 12:14	7°♌06'52	11.09493 AU	
morning rise	-3909 Sep 17 j 05:22	9°♌03'20		
	-3909 Nov 22 j 01:54	15°♌		
retrograde	-3909 Dec 24 j 19:47	15°♌53'13		
	-3908 Jan 27 j 05:36	15°℞♌		
opposition	-3908 Mar 03 j 08:37	12°♌37'04	2°46'53	
min. Earth dist.	-3908 Mar 03 j 12:26	12°♌36'22	9.13436 AU	
direct	-3908 May 14 j 03:08	9°♌15'58		
	-3908 Aug 13 j 08:32	15°♌		
evening set	-3908 Aug 25 j 07:12	16°♌19'50		
conjunction	-3908 Sep 10 j 21:29	18°♌14'45	2°20'58	
minimum elong	-3908 Sep 10 j 21:28	18°♌14'44	2°21'04	
max. Earth dist.	-3908 Sep 10 j 15:23	18°♌12'58	11.16407 AU	
morning rise	-3908 Sep 27 j 08:17	20°♌08'43		
retrograde	-3907 Jan 04 j 04:10	26°♌56'32		
opposition	-3907 Mar 15 j 03:00	23°♌40'41	2°54'50	
min. Earth dist.	-3907 Mar 15 j 09:39	23°♌39'28	9.19109 AU	
direct	-3907 May 25 j 22:20	20°♌20'34		
evening set	-3907 Sep 05 j 11:39	27°♌19'58		

conjunction	-3907 Sep 21 j 23:02	29°♌13'43	2°24'56	
minimum elong	-3907 Sep 21 j 23:02	29°♌13'43	2°25'01	
max. Earth dist.	-3907 Sep 21 j 13:49	29°♌11'03	11.20724 AU	
	-3907 Sep 28 j 14:55	0°♍		
morning rise	-3907 Oct 08 j 07:57	1°♍06'47		
retrograde	-3906 Jan 15 j 11:08	7°♍54'17		
opposition	-3906 Mar 26 j 20:10	4°♍38'24	2°56'21	
min. Earth dist.	-3906 Mar 27 j 04:47	4°♍36'50	9.22085 AU	
direct	-3906 Jun 06 j 14:31	1°♍19'07		
evening set	-3906 Sep 16 j 12:16	8°♍15'26		
conjunction	-3906 Oct 02 j 21:57	10°♍08'36	2°23'35	
minimum elong	-3906 Oct 02 j 21:58	10°♍08'37	2°23'39	
max. Earth dist.	-3906 Oct 02 j 11:13	10°♍05'30	11.22303 AU	
morning rise	-3906 Oct 19 j 05:56	12°♍01'20		
retrograde	-3905 Jan 26 j 22:23	18°♍50'14		
opposition	-3905 Apr 07 j 13:17	15°♍34'03	2°51'31	
min. Earth dist.	-3905 Apr 07 j 22:51	15°♍32'19	9.22249 AU	
direct	-3905 Jun 18 j 04:45	12°♍15'28		
evening set	-3905 Sep 27 j 11:13	19°♍10'03		
conjunction	-3905 Oct 13 j 20:12	21°♍03'15	2°17'00	
minimum elong	-3905 Oct 13 j 20:14	21°♍03'16	2°17'02	
max. Earth dist.	-3905 Oct 13 j 08:31	20°♍59'52	11.21072 AU	
morning rise	-3905 Oct 30 j 04:08	22°♍56'15		
retrograde	-3904 Feb 07 j 10:57	29°♍48'10		
opposition	-3904 Apr 18 j 07:43	26°♍31'26	2°40'29	
min. Earth dist.	-3904 Apr 18 j 18:29	26°♍29'28	9.19590 AU	
direct	-3904 Jun 28 j 15:10	23°♍13'20		
	-3904 Oct 06 j 07:22	0°♎		
evening set	-3904 Oct 07 j 10:19	0°♎07'40		
conjunction	-3904 Oct 23 j 19:23	2°♎01'27	2°05'22	
minimum elong	-3904 Oct 23 j 19:25	2°♎01'27	2°05'22	
max. Earth dist.	-3904 Oct 23 j 05:58	1°♎57'32	11.17074 AU	
morning rise	-3904 Nov 09 j 04:28	3°♎55'18		
retrograde	-3903 Feb 18 j 04:23	10°♎51'55		
opposition	-3903 Apr 30 j 04:56	7°♎34'21	2°23'27	
min. Earth dist.	-3903 Apr 30 j 17:17	7°♎32'06	9.14202 AU	
direct	-3903 Jul 10 j 03:32	4°♎16'28		
evening set	-3903 Oct 18 j 11:13	11°♎12'03		
conjunction	-3903 Nov 03 j 21:17	13°♎06'57	1°48'56	
minimum elong	-3903 Nov 03 j 21:20	13°♎06'57	1°48'53	
max. Earth dist.	-3903 Nov 03 j 06:39	13°♎02'39	11.10440 AU	
morning rise	-3903 Nov 20 j 08:30	15°♎02'13		
retrograde	-3902 Mar 02 j 02:40	22°♎05'08		
opposition	-3902 May 12 j 05:47	18°♎46'29	2°00'46	
min. Earth dist.	-3902 May 12 j 18:41	18°♎44'06	9.06257 AU	
direct	-3902 Jul 21 j 17:14	15°♎28'35		
evening set	-3902 Oct 29 j 16:00	22°♎26'57		
conjunction	-3902 Nov 15 j 04:04	24°♎23'30	1°28'03	
minimum elong	-3902 Nov 15 j 04:07	24°♎23'31	1°27'59	
max. Earth dist.	-3902 Nov 14 j 13:49	24°♎19'16	11.01366 AU	
morning rise	-3902 Dec 01 j 18:01	26°♎20'41		
	-3901 Jan 04 j 21:05	0°♏		
retrograde	-3901 Mar 14 j 09:09	3°♏31'27		
opposition	-3901 May 24 j 11:10	0°♏11'28	1°32'54	
min. Earth dist.	-3901 May 24 j 23:28	0°♏09'11	8.96007 AU	
	-3901 May 27 j 01:02	30°℞♎		
direct	-3901 Aug 02 j 11:22	26°♎53'19		
	-3901 Oct 04 j 06:25	0°♏		
evening set	-3901 Nov 10 j 02:36	3°♏56'02		
conjunction	-3901 Nov 26 j 17:17	5°♏54'43	1°03'16	
minimum elong	-3901 Nov 26 j 17:20	5°♏54'43	1°03'10	

Attention, astronomical year style is used: The year -3901 in astronomical counting style is the year 3902 BCE in historical counting style.

max. Earth dist.	-3901 Nov 26 j 03:48	5°♏50'40	10.90145 AU
morning rise	-3901 Dec 13 j 10:34	7°♏54'17	
	-3900 Mar 08 j 21:30	15°♏	
retrograde	-3900 Mar 26 j 00:51	15°♏14'19	
	-3900 Apr 12 j 05:25	15°℞♏	
opposition	-3900 Jun 04 j 22:36	11°♏52'50	1°00'32
min. Earth dist.	-3900 Jun 05 j 09:49	11°♏50'44	8.83799 AU
direct	-3900 Aug 13 j 08:00	8°♏34'11	
	-3900 Nov 14 j 19:24	15°♏	
evening set	-3900 Nov 20 j 20:49	15°♏42'47	
conjunction	-3900 Dec 07 j 14:30	17°♏43'59	0°35'14
minimum elong	-3900 Dec 07 j 14:31	17°♏43'59	0°35'08
max. Earth dist.	-3900 Dec 07 j 01:05	17°♏39'55	10.77168 AU
morning rise	-3900 Dec 24 j 11:47	19°♏46'21	
retrograde	-3899 Apr 08 j 00:25	27°♏16'58	
opposition	-3899 Jun 17 j 16:52	23°♏53'50	0°24'34
min. Earth dist.	-3899 Jun 18 j 03:30	23°♏51'49	8.70067 AU
direct	-3899 Aug 25 j 10:27	20°♏34'22	
evening set	-3899 Dec 03 j 00:43	27°♏50'30	
conjunction	-3899 Dec 19 j 21:51	29°♏54'33	0°04'58
minimum elong	-3899 Dec 19 j 21:52	29°♏54'33	0°04'51
behind sun begin	-3899 Dec 19 j 14:58	29°♏52'27	
behind sun end	-3899 Dec 20 j 04:45	29°♏56'40	
max. Earth dist.	-3899 Dec 19 j 09:05	29°♏50'38	10.62888 AU
	-3899 Dec 20 j 15:32	0°♐	
morning rise	-3898 Jan 05 j 23:29	2°♐00'01	