

Attention, astronomical year style is used: The year -11400 in astronomical counting style is the year 11401 BCE in historical counting style.

direct	-11400 Jan 07 j 03:30	10° \approx 23'23	min. Earth dist.	-11395 Nov 21 j 09:03	11° \approx 20'14	17.23378 AU
evening set	-11400 Apr 12 j 16:59	13° \approx 55'04	direct	-11394 Feb 05 j 09:16	9° \approx 16'03	
max. Earth dist.	-11400 Apr 27 j 17:50	14° \approx 51'30	19.28278 AU	evening set	-11394 May 12 j 18:06	12° \approx 48'31
conjunction	-11400 Apr 29 j 04:35	14° \approx 56'59	-0°42'57	conjunction	-11394 May 28 j 22:14	13° \approx 49'53 -0°09'51
minimum elong	-11400 Apr 29 j 04:35	14° \approx 56'59	0°43'25	minimum elong	-11394 May 28 j 22:15	13° \approx 49'53 0°10'05
	-11400 Apr 29 j 23:41	15° \approx		behind sun begin	-11394 May 28 j 16:54	13° \approx 49'03
morning rise	-11400 May 15 j 11:50	15° \approx 58'17		behind sun end	-11394 May 29 j 03:36	13° \approx 50'43
retrograde	-11400 Aug 14 j 14:59	19° \approx 20'15		max. Earth dist.	-11394 May 27 j 20:26	13° \approx 45'46 19.23870 AU
opposition	-11400 Oct 26 j 17:51	17° \approx 18'20	-0°45'17	morning rise	-11394 Jun 13 j 22:15	14° \approx 50'37
min. Earth dist.	-11400 Oct 27 j 23:16	17° \approx 15'07	17.27170 AU	retrograde	-11394 Sep 12 j 20:37	18° \approx 13'07
direct	-11399 Jan 11 j 08:53	15° \approx 11'29		opposition	-11394 Nov 25 j 12:52	16° \approx 11'11 -0°07'43
evening set	-11399 Apr 17 j 21:56	18° \approx 43'38		min. Earth dist.	-11394 Nov 26 j 10:23	16° \approx 08'52 17.24601 AU
max. Earth dist.	-11399 May 02 j 22:54	19° \approx 40'14	19.26058 AU	direct	-11393 Feb 10 j 14:56	14° \approx 04'34
				evening set	-11393 May 17 j 20:42	17° \approx 36'45
conjunction	-11399 May 04 j 08:28	19° \approx 45'32	-0°37'58	conjunction	-11393 Jun 02 j 23:43	18° \approx 37'55 -0°03'54
minimum elong	-11399 May 04 j 08:28	19° \approx 45'32	0°38'25	minimum elong	-11393 Jun 02 j 23:43	18° \approx 37'55 0°04'04
morning rise	-11399 May 20 j 14:22	20° \approx 46'47		behind sun begin	-11393 Jun 02 j 17:10	18° \approx 36'54
retrograde	-11399 Aug 19 j 14:28	24° \approx 08'59		behind sun end	-11393 Jun 03 j 06:16	18° \approx 38'56
opposition	-11399 Oct 31 j 20:08	22° \approx 07'02	-0°39'34	max. Earth dist.	-11393 Jun 02 j 01:21	18° \approx 34'22 19.25441 AU
min. Earth dist.	-11399 Nov 02 j 01:53	22° \approx 03'48	17.25211 AU	morning rise	-11393 Jun 18 j 22:23	19° \approx 38'29
direct	-11398 Jan 16 j 13:01	20° \approx 00'08		retrograde	-11393 Sep 17 j 20:49	23° \approx 00'55
evening set	-11398 Apr 23 j 02:47	23° \approx 32'37		opposition	-11393 Nov 30 j 16:54	20° \approx 59'04 -0°01'01
max. Earth dist.	-11398 May 08 j 03:01	24° \approx 29'14	19.24386 AU	min. Earth dist.	-11393 Dec 01 j 12:44	20° \approx 56'56 17.26496 AU
conjunction	-11398 May 09 j 12:02	24° \approx 34'28	-0°32'43	asc. node	-11392 Jan 24 j 06:28	19° \approx 05'49
minimum elong	-11398 May 09 j 12:02	24° \approx 34'28	0°33'07	direct	-11392 Feb 15 j 18:58	18° \approx 52'43
morning rise	-11398 May 25 j 16:53	25° \approx 35'40		evening set	-11392 May 21 j 22:55	22° \approx 24'28
retrograde	-11398 Aug 24 j 16:09	28° \approx 58'01		max. Earth dist.	-11392 Jun 06 j 03:29	23° \approx 22'06 19.27680 AU
opposition	-11398 Nov 05 j 22:38	26° \approx 56'03	-0°33'35	conjunction	-11392 Jun 07 j 00:29	23° \approx 25'27 0°02'14
min. Earth dist.	-11398 Nov 07 j 02:28	26° \approx 53'01	17.23816 AU	minimum elong	-11392 Jun 07 j 00:28	23° \approx 25'27 0°02'06
direct	-11397 Jan 21 j 19:11	24° \approx 49'06		behind sun begin	-11392 Jun 06 j 17:51	23° \approx 24'25
evening set	-11397 Apr 28 j 07:09	28° \approx 21'46		behind sun end	-11392 Jun 07 j 07:06	23° \approx 26'28
max. Earth dist.	-11397 May 13 j 08:32	29° \approx 18'39	19.23285 AU	morning rise	-11392 Jun 22 j 22:07	24° \approx 25'49
conjunction	-11397 May 14 j 15:20	29° \approx 23'33	-0°27'14	retrograde	-11392 Sep 21 j 22:24	27° \approx 48'09
minimum elong	-11397 May 14 j 15:20	29° \approx 23'33	0°27'35	opposition	-11392 Dec 04 j 21:11	25° \approx 46'25 0°05'41
	-11397 May 24 j 05:12	0° \approx		min. Earth dist.	-11392 Dec 05 j 14:39	25° \approx 44'32 17.29053 AU
morning rise	-11397 May 30 j 18:50	0° \approx 24'40		direct	-11391 Feb 20 j 00:39	23° \approx 40'21
retrograde	-11397 Aug 29 j 15:59	3° \approx 47'06		evening set	-11391 May 27 j 00:14	27° \approx 11'34
opposition	-11397 Nov 11 j 01:46	1° \approx 45'08	-0°27'21	max. Earth dist.	-11391 Jun 11 j 07:11	28° \approx 09'32 19.30545 AU
min. Earth dist.	-11397 Nov 12 j 05:19	1° \approx 42'08	17.23014 AU	conjunction	-11391 Jun 12 j 00:38	28° \approx 12'18 0°08'12
	-11397 Dec 28 j 18:07	30° \approx		minimum elong	-11391 Jun 12 j 00:38	28° \approx 12'18 0°08'08
direct	-11396 Jan 26 j 23:24	29° \approx 38'11		behind sun begin	-11391 Jun 11 j 18:44	28° \approx 11'23
	-11396 Feb 24 j 18:27	0° \approx		behind sun end	-11391 Jun 12 j 06:31	28° \approx 13'13
evening set	-11396 May 02 j 11:20	3° \approx 10'55		morning rise	-11391 Jun 27 j 21:03	29° \approx 12'28
conjunction	-11396 May 18 j 18:04	4° \approx 12'34	-0°21'34		-11391 Jul 10 j 23:18	0° \approx
minimum elong	-11396 May 18 j 18:05	4° \approx 12'34	0°21'53	retrograde	-11391 Sep 26 j 22:08	2° \approx 34'40
max. Earth dist.	-11396 May 17 j 12:03	4° \approx 07'48	19.22809 AU	opposition	-11391 Dec 10 j 01:33	0° \approx 33'03 0°12'20
morning rise	-11396 Jun 03 j 20:30	5° \approx 13'35		min. Earth dist.	-11391 Dec 10 j 16:44	0° \approx 31'26 17.32192 AU
retrograde	-11396 Sep 02 j 18:05	8° \approx 36'06			-11391 Dec 23 j 02:46	30° \approx
opposition	-11396 Nov 15 j 05:07	6° \approx 34'06	-0°20'56	direct	-11390 Feb 25 j 05:58	28° \approx 27'20
min. Earth dist.	-11396 Nov 16 j 06:17	6° \approx 31'22	17.22858 AU		-11390 Apr 27 j 00:23	0° \approx
direct	-11395 Jan 31 j 05:32	4° \approx 27'12		evening set	-11390 Jun 01 j 01:08	1° \approx 57'53
evening set	-11395 May 07 j 14:57	7° \approx 59'52		max. Earth dist.	-11390 Jun 16 j 08:22	2° \approx 55'52 19.33963 AU
conjunction	-11395 May 23 j 20:34	9° \approx 01'24	-0°15'46	conjunction	-11390 Jun 17 j 00:08	2° \approx 58'22 0°14'06
minimum elong	-11395 May 23 j 20:34	9° \approx 01'24	0°16'01	minimum elong	-11390 Jun 17 j 00:08	2° \approx 58'22 0°14'05
behind sun begin	-11395 May 23 j 20:06	9° \approx 01'19		behind sun begin	-11390 Jun 16 j 20:47	2° \approx 57'51
behind sun end	-11395 May 23 j 21:02	9° \approx 01'28		behind sun end	-11390 Jun 17 j 03:30	2° \approx 58'54
max. Earth dist.	-11395 May 22 j 17:37	8° \approx 57'06	19.22992 AU	morning rise	-11390 Jul 02 j 19:36	3° \approx 58'19
morning rise	-11395 Jun 08 j 21:36	10° \approx 02'17		retrograde	-11390 Oct 01 j 22:07	7° \approx 20'19
retrograde	-11395 Sep 07 j 18:21	13° \approx 24'48		opposition	-11390 Dec 15 j 05:43	5° \approx 18'49 0°18'53
opposition	-11395 Nov 20 j 08:59	11° \approx 22'50	-0°14'23	min. Earth dist.	-11390 Dec 15 j 18:57	5° \approx 17'24 17.35873 AU

Attention, astronomical year style is used: The year -11389 in astronomical counting style is the year 11390 BCE in historical counting style.

direct	-11389 Mar 02 j 10:48	3° Υ 13'26		minimum elong	-11383 Jul 18 j 22:46	5° B 42'07	0°50'20
evening set	-11389 Jun 06 j 01:12	6° Υ 43'14		max. Earth dist.	-11383 Jul 19 j 01:08	5° B 42'30	19.69125 AU
				morning rise	-11383 Aug 03 j 12:39	6° B 40'15	
conjunction	-11389 Jun 21 j 23:04	7° Υ 43'27	0°19'53	retrograde	-11383 Nov 03 j 07:51	9° B 59'25	
minimum elong	-11389 Jun 21 j 23:04	7° Υ 43'27	0°19'55	opposition	-11382 Jan 18 j 02:20	7° B 58'19	0°57'53
max. Earth dist.	-11389 Jun 21 j 10:25	7° Υ 41'27	19.37882 AU	min. Earth dist.	-11382 Jan 17 j 21:41	7° B 58'48	17.72254 AU
morning rise	-11389 Jul 07 j 17:27	8° Υ 43'09		direct	-11382 Apr 05 j 06:45	5° B 55'24	
retrograde	-11389 Oct 06 j 21:36	12° Υ 04'54		evening set	-11382 Jul 08 j 00:43	9° B 17'09	
opposition	-11389 Dec 20 j 09:50	10° Υ 03'30	0°25'16				
min. Earth dist.	-11389 Dec 20 j 20:21	10° Υ 02'23	17.40002 AU	conjunction	-11382 Jul 23 j 15:32	10° B 15'12	0°53'57
direct	-11388 Mar 06 j 16:16	7° Υ 58'29		minimum elong	-11382 Jul 23 j 15:31	10° B 15'12	0°54'18
evening set	-11388 Jun 10 j 00:34	11° Υ 27'24		max. Earth dist.	-11382 Jul 23 j 21:17	10° B 16'05	19.75452 AU
				morning rise	-11382 Aug 08 j 04:50	11° B 13'02	
conjunction	-11388 Jun 25 j 21:08	12° Υ 27'19	0°25'31	retrograde	-11382 Nov 08 j 02:27	14° B 31'38	
minimum elong	-11388 Jun 25 j 21:08	12° Υ 27'19	0°25'37	opposition	-11381 Jan 23 j 02:46	12° B 30'36	1°02'04
max. Earth dist.	-11388 Jun 25 j 10:29	12° Υ 25'38	19.42220 AU	min. Earth dist.	-11381 Jan 22 j 20:29	12° B 31'15	17.78750 AU
morning rise	-11388 Jul 11 j 14:34	13° Υ 26'47		direct	-11381 Apr 10 j 05:01	10° B 28'04	
retrograde	-11388 Oct 10 j 20:07	16° Υ 48'14		evening set	-11381 Jul 12 j 17:15	13° B 48'27	
opposition	-11388 Dec 24 j 13:52	14° Υ 46'55	0°31'27				
min. Earth dist.	-11388 Dec 24 j 22:40	14° Υ 45'59	17.44545 AU	conjunction	-11381 Jul 28 j 07:17	14° B 46'10	0°57'32
direct	-11387 Mar 11 j 19:38	12° Υ 42'15		minimum elong	-11381 Jul 28 j 07:16	14° B 46'10	0°57'57
evening set	-11387 Jun 14 j 23:04	16° Υ 10'10		max. Earth dist.	-11381 Jul 28 j 15:08	14° B 47'23	19.82107 AU
					-11381 Aug 01 j 00:09	15° B	
conjunction	-11387 Jun 30 j 18:31	17° Υ 09'47	0°30'57	morning rise	-11381 Aug 12 j 20:19	15° B 43'45	
minimum elong	-11387 Jun 30 j 18:31	17° Υ 09'47	0°31'06	retrograde	-11381 Nov 12 j 22:13	19° B 01'47	
max. Earth dist.	-11387 Jun 30 j 10:41	17° Υ 08'33	19.46952 AU	opposition	-11380 Jan 28 j 02:28	17° B 00'49	1°05'51
morning rise	-11387 Jul 16 j 11:03	18° Υ 09'00		min. Earth dist.	-11380 Jan 27 j 16:24	17° B 01'51	17.85562 AU
retrograde	-11387 Oct 15 j 19:23	21° Υ 30'05			-11380 Apr 07 j 02:10	15° B	
opposition	-11387 Dec 29 j 17:24	19° Υ 28'50	0°37'23	direct	-11380 Apr 14 j 04:27	14° B 58'41	
min. Earth dist.	-11387 Dec 29 j 23:02	19° Υ 28'15	17.49445 AU		-11380 Apr 21 j 07:07	15° B	
direct	-11386 Mar 17 j 00:20	17° Υ 24'32		evening set	-11380 Jul 16 j 08:37	18° B 17'42	
evening set	-11386 Jun 19 j 20:35	20° Υ 51'21					
				conjunction	-11380 Jul 31 j 22:08	19° B 15'07	1°00'45
conjunction	-11386 Jul 05 j 14:59	21° Υ 50'40	0°36'09	minimum elong	-11380 Jul 31 j 22:07	19° B 15'07	1°01'12
minimum elong	-11386 Jul 05 j 14:58	21° Υ 50'40	0°36'21	max. Earth dist.	-11380 Aug 01 j 09:37	19° B 16'53	19.89055 AU
max. Earth dist.	-11386 Jul 05 j 09:33	21° Υ 49'49	19.52019 AU	morning rise	-11380 Aug 16 j 10:45	20° B 12'25	
morning rise	-11386 Jul 21 j 06:43	22° Υ 49'37		retrograde	-11380 Nov 16 j 15:55	23° B 29'53	
retrograde	-11386 Oct 20 j 16:32	26° Υ 10'17		opposition	-11379 Feb 01 j 01:36	21° B 29'01	1°09'11
opposition	-11385 Jan 03 j 20:35	24° Υ 09'06	0°43'01	min. Earth dist.	-11379 Jan 31 j 13:45	21° B 30'15	17.92653 AU
min. Earth dist.	-11385 Jan 04 j 00:44	24° Υ 08'40	17.54680 AU	direct	-11379 Apr 19 j 01:38	19° B 27'22	
direct	-11385 Mar 22 j 01:50	22° Υ 05'07		evening set	-11379 Jul 20 j 23:14	22° B 44'59	
evening set	-11385 Jun 24 j 17:13	25° Υ 30'47					
				conjunction	-11379 Aug 05 j 12:08	23° B 42'05	1°03'34
conjunction	-11385 Jul 10 j 10:34	26° Υ 29'47	0°41'04	minimum elong	-11379 Aug 05 j 12:08	23° B 42'05	1°04'03
minimum elong	-11385 Jul 10 j 10:33	26° Υ 29'47	0°41'19	max. Earth dist.	-11379 Aug 06 j 01:23	23° B 44'08	19.96272 AU
max. Earth dist.	-11385 Jul 10 j 07:35	26° Υ 29'19	19.57412 AU	morning rise	-11379 Aug 21 j 00:43	24° B 39'08	
morning rise	-11385 Jul 26 j 01:35	27° Υ 28'27		retrograde	-11379 Nov 21 j 10:21	27° B 56'02	
	-11385 Sep 13 j 01:02	0° B		opposition	-11378 Feb 05 j 23:40	25° B 55'18	1°12'05
retrograde	-11385 Oct 25 j 14:55	0° B 48'39		min. Earth dist.	-11378 Feb 05 j 08:24	25° B 56'52	17.99981 AU
	-11385 Dec 09 j 00:45	30° K Υ		direct	-11378 Apr 23 j 22:39	23° B 54'06	
opposition	-11384 Jan 08 j 23:01	28° Υ 47'30	0°48'21	evening set	-11378 Jul 25 j 12:48	27° B 10'21	
min. Earth dist.	-11384 Jan 08 j 23:41	28° Υ 47'26	17.60219 AU				
direct	-11384 Mar 26 j 05:14	26° Υ 43'53		conjunction	-11378 Aug 10 j 01:27	28° B 07'10	1°06'00
	-11384 Jun 26 j 06:30	0° B		minimum elong	-11378 Aug 10 j 01:27	28° B 07'09	1°06'32
evening set	-11384 Jun 28 j 12:48	0° B 08'17		max. Earth dist.	-11378 Aug 10 j 18:09	28° B 09'43	20.03675 AU
				morning rise	-11378 Aug 25 j 13:50	29° B 03'57	
conjunction	-11384 Jul 14 j 05:14	1° B 06'58	0°45'42		-11378 Sep 10 j 17:51	0° II	
minimum elong	-11384 Jul 14 j 05:14	1° B 06'58	0°45'59	retrograde	-11378 Nov 26 j 02:49	2° II 20'16	
max. Earth dist.	-11384 Jul 14 j 05:13	1° B 06'58	19.63106 AU	opposition	-11377 Feb 10 j 21:06	0° II 19'41	1°14'33
morning rise	-11384 Jul 29 j 19:34	2° B 05'22		min. Earth dist.	-11377 Feb 10 j 04:16	0° II 21'25	18.07451 AU
retrograde	-11384 Oct 29 j 10:41	5° B 25'04			-11377 Feb 18 j 22:18	30° K B	
opposition	-11383 Jan 13 j 01:08	3° B 23'57	0°53'18	direct	-11377 Apr 28 j 18:34	28° B 18'58	
min. Earth dist.	-11383 Jan 13 j 00:14	3° B 24'03	17.66078 AU		-11377 Jul 01 j 17:12	0° II	
direct	-11383 Mar 31 j 05:13	1° B 20'40		evening set	-11377 Jul 30 j 01:38	1° II 33'51	
evening set	-11383 Jul 03 j 07:15	4° B 43'46					
				conjunction	-11377 Aug 14 j 13:48	2° II 30'22	1°08'02
conjunction	-11383 Jul 18 j 22:47	5° B 42'07	0°49'59	minimum elong	-11377 Aug 14 j 13:48	2° II 30'22	1°08'35

Attention, astronomical year style is used: The year -11377 in astronomical counting style is the year 11378 BCE in historical counting style.

max. Earth dist.	-11377 Aug 15 j 07:47	2°II33'07	20.11189 AU	direct	-11370 May 29 j 09:47	28°II19'51	
morning rise	-11377 Aug 30 j 02:18	3°II26'55			-11370 Aug 01 j 09:24	0°☾	
retrograde	-11377 Nov 30 j 19:26	6°II42'40		evening set	-11370 Aug 27 j 21:56	1°☾25'36	
opposition	-11376 Feb 15 j 17:40	4°II42'13	1°16'33				
min. Earth dist.	-11376 Feb 14 j 22:00	4°II44'14	18.14996 AU	conjunction	-11370 Sep 12 j 10:46	2°☾20'27	1°10'55
direct	-11376 May 02 j 13:29	2°II41'58		minimum elong	-11370 Sep 12 j 10:46	2°☾20'27	1°11'33
evening set	-11376 Aug 02 j 13:37	5°II55'30		max. Earth dist.	-11370 Sep 13 j 16:44	2°☾24'53	20.60719 AU
				morning rise	-11370 Sep 28 j 01:41	3°☾15'36	
conjunction	-11376 Aug 18 j 01:41	6°II51'44	1°09'40	retrograde	-11370 Dec 30 j 17:02	6°☾27'02	
minimum elong	-11376 Aug 18 j 01:41	6°II51'44	1°10'14	opposition	-11369 Mar 18 j 17:28	4°☾27'09	1°18'00
max. Earth dist.	-11376 Aug 18 j 22:50	6°II54'58	20.18727 AU	min. Earth dist.	-11369 Mar 17 j 12:07	4°☾30'06	18.63900 AU
morning rise	-11376 Sep 02 j 14:08	7°II48'03		direct	-11369 Jun 02 j 22:46	2°☾29'20	
retrograde	-11376 Dec 04 j 10:36	11°II03'12		evening set	-11369 Sep 01 j 04:49	5°☾33'54	
opposition	-11375 Feb 19 j 13:31	9°II02'55	1°18'06				
min. Earth dist.	-11375 Feb 18 j 16:27	9°II05'03	18.22523 AU	conjunction	-11369 Sep 16 j 17:52	6°☾28'34	1°09'48
direct	-11375 May 07 j 07:39	7°II03'07		minimum elong	-11369 Sep 16 j 17:52	6°☾28'34	1°10'26
evening set	-11375 Aug 07 j 00:53	10°II15'18		max. Earth dist.	-11369 Sep 18 j 00:03	6°☾33'01	20.66889 AU
				morning rise	-11369 Oct 02 j 09:37	7°☾23'35	
conjunction	-11375 Aug 22 j 12:42	11°II11'16	1°10'52	retrograde	-11368 Jan 04 j 04:07	10°☾34'26	
minimum elong	-11375 Aug 22 j 12:42	11°II11'16	1°11'27	min. Earth dist.	-11368 Mar 21 j 00:51	8°☾37'35	18.69972 AU
max. Earth dist.	-11375 Aug 23 j 10:39	11°II14'35	20.26216 AU	opposition	-11368 Mar 22 j 07:02	8°☾34'33	1°16'32
morning rise	-11375 Sep 07 j 01:31	12°II07'21		direct	-11368 Jun 06 j 08:52	6°☾36'58	
retrograde	-11375 Dec 09 j 01:54	15°II21'55		evening set	-11368 Sep 04 j 11:04	9°☾40'26	
min. Earth dist.	-11374 Feb 23 j 09:15	13°II24'05	18.29965 AU				
opposition	-11374 Feb 24 j 08:27	13°II21'44	1°19'11	conjunction	-11368 Sep 20 j 00:47	10°☾34'56	1°08'19
direct	-11374 May 12 j 00:19	11°II22'21		minimum elong	-11368 Sep 20 j 00:47	10°☾34'56	1°08'57
evening set	-11374 Aug 11 j 11:23	14°II33'13		max. Earth dist.	-11368 Sep 21 j 09:13	10°☾39'42	20.72847 AU
				morning rise	-11368 Oct 05 j 17:07	11°☾29'50	
conjunction	-11374 Aug 26 j 23:19	15°II28'55	1°11'40	retrograde	-11367 Jan 07 j 14:25	14°☾40'06	
minimum elong	-11374 Aug 26 j 23:19	15°II28'55	1°12'16	opposition	-11367 Mar 26 j 19:33	12°☾40'16	1°14'42
max. Earth dist.	-11374 Aug 27 j 23:56	15°II32'38	20.33567 AU	min. Earth dist.	-11367 Mar 25 j 12:06	12°☾43'25	18.75824 AU
morning rise	-11374 Sep 11 j 12:13	16°II24'48		direct	-11367 Jun 10 j 20:19	10°☾42'56	
retrograde	-11374 Dec 13 j 15:14	19°II38'44		evening set	-11367 Sep 08 j 16:55	13°☾45'22	
min. Earth dist.	-11373 Feb 28 j 02:02	17°II41'09	18.37226 AU				
opposition	-11373 Mar 01 j 02:23	17°II38'41	1°19'49	conjunction	-11367 Sep 24 j 07:05	14°☾39'44	1°06'31
direct	-11373 May 16 j 16:24	15°II39'41		minimum elong	-11367 Sep 24 j 07:05	14°☾39'44	1°07'09
evening set	-11373 Aug 15 j 21:15	18°II49'13		max. Earth dist.	-11367 Sep 25 j 15:28	14°☾44'28	20.78593 AU
				morning rise	-11367 Oct 10 j 00:24	15°☾34'31	
conjunction	-11373 Aug 31 j 09:05	19°II44'41	1°12'04	retrograde	-11366 Jan 12 j 00:37	18°☾44'16	
minimum elong	-11373 Aug 31 j 09:05	19°II44'41	1°12'41	min. Earth dist.	-11366 Mar 29 j 23:32	16°☾47'41	18.81467 AU
max. Earth dist.	-11373 Sep 01 j 10:04	19°II48'27	20.40725 AU	opposition	-11366 Mar 31 j 07:24	16°☾44'29	1°12'30
morning rise	-11373 Sep 15 j 22:31	20°II40'22		direct	-11366 Jun 15 j 04:20	14°☾47'24	
retrograde	-11373 Dec 18 j 05:23	23°II53'41		evening set	-11366 Sep 12 j 22:13	17°☾48'54	
opposition	-11372 Mar 04 j 19:37	21°II53'42	1°20'00				
min. Earth dist.	-11372 Mar 03 j 17:41	21°II56'19	18.44280 AU	conjunction	-11366 Sep 28 j 13:11	18°☾43'09	1°04'24
direct	-11372 May 20 j 07:02	19°II55'03		minimum elong	-11366 Sep 28 j 13:11	18°☾43'09	1°05'01
evening set	-11372 Aug 19 j 06:05	23°II03'18		max. Earth dist.	-11366 Sep 29 j 23:27	18°☾48'08	20.84109 AU
				morning rise	-11366 Oct 14 j 07:11	19°☾37'50	
conjunction	-11372 Sep 03 j 18:16	23°II58'32	1°12'04	retrograde	-11365 Jan 16 j 10:10	22°☾47'05	
minimum elong	-11372 Sep 03 j 18:16	23°II58'32	1°12'41	min. Earth dist.	-11365 Apr 03 j 09:20	20°☾50'42	18.86849 AU
max. Earth dist.	-11372 Sep 04 j 21:45	24°II02'39	20.47646 AU	opposition	-11365 Apr 04 j 18:16	20°☾47'24	1°09'57
morning rise	-11372 Sep 19 j 08:00	24°II54'02		direct	-11365 Jun 19 j 14:04	18°☾50'35	
retrograde	-11372 Dec 21 j 17:25	28°II06'43		evening set	-11365 Sep 17 j 03:17	21°☾51'13	
min. Earth dist.	-11371 Mar 08 j 08:49	26°II09'32	18.51071 AU				
opposition	-11371 Mar 09 j 11:55	26°II06'48	1°19'45	conjunction	-11365 Oct 02 j 18:47	22°☾45'21	1°01'58
direct	-11371 May 24 j 21:24	24°II08'27		minimum elong	-11365 Oct 02 j 18:47	22°☾45'21	1°02'33
evening set	-11371 Aug 23 j 14:28	27°II15'26		max. Earth dist.	-11365 Oct 04 j 04:41	22°☾50'17	20.89360 AU
				morning rise	-11365 Oct 18 j 13:53	23°☾39'58	
conjunction	-11371 Sep 08 j 02:46	28°II10'27	1°11'41	retrograde	-11364 Jan 20 j 19:52	26°☾48'48	
minimum elong	-11371 Sep 08 j 02:46	28°II10'27	1°12'19	min. Earth dist.	-11364 Apr 06 j 19:51	24°☾52'29	18.91957 AU
max. Earth dist.	-11371 Sep 09 j 06:26	28°II14'34	20.54310 AU	opposition	-11364 Apr 08 j 04:42	24°☾49'12	1°07'04
morning rise	-11371 Sep 23 j 17:14	29°II05'47		direct	-11364 Jun 22 j 20:41	22°☾52'38	
	-11371 Oct 09 j 20:31	0°☾		evening set	-11364 Sep 20 j 07:50	25°☾52'29	
retrograde	-11371 Dec 26 j 06:00	2°☾17'50					
min. Earth dist.	-11370 Mar 12 j 23:01	0°☾20'46	18.57616 AU	conjunction	-11364 Oct 06 j 00:19	26°☾46'33	0°59'14
opposition	-11370 Mar 14 j 03:08	0°☾17'56	1°19'05	minimum elong	-11364 Oct 06 j 00:19	26°☾46'33	0°59'49
	-11370 Mar 21 j 13:54	30°☾II		max. Earth dist.	-11364 Oct 07 j 11:43	26°☾51'40	20.94302 AU

Attention, astronomical year style is used: The year -11364 in astronomical counting style is the year 11365 BCE in historical counting style.

morning rise	-11364 Oct 21 j 20:14	27° $\mathring{\text{U}}$ 41'06		retrograde	-11357 Feb 18 j 08:04	24° $\mathring{\text{U}}$ 39'33	
	-11364 Dec 09 j 11:31	0° $\mathring{\text{U}}$		min. Earth dist.	-11357 May 06 j 06:59	22° $\mathring{\text{U}}$ 43'17	19.14937 AU
retrograde	-11363 Jan 24 j 05:03	0° $\mathring{\text{U}}$ 49'32		opposition	-11357 May 07 j 12:52	22° $\mathring{\text{U}}$ 40'17	0°39'03
	-11363 Mar 12 j 10:31	30° $\mathring{\text{R}}$ $\mathring{\text{U}}$		direct	-11357 Jul 21 j 14:56	20° $\mathring{\text{U}}$ 44'40	
min. Earth dist.	-11363 Apr 11 j 04:48	28° $\mathring{\text{U}}$ 53'24	18.96709 AU	evening set	-11357 Oct 18 j 14:10	23° $\mathring{\text{U}}$ 40'56	
opposition	-11363 Apr 12 j 14:21	28° $\mathring{\text{U}}$ 50'02	1°03'52				
direct	-11363 Jun 27 j 04:48	26° $\mathring{\text{U}}$ 53'44		conjunction	-11357 Nov 03 j 13:14	24° $\mathring{\text{U}}$ 34'55	0°33'12
evening set	-11363 Sep 24 j 12:31	29° $\mathring{\text{U}}$ 52'52		minimum elong	-11357 Nov 03 j 13:14	24° $\mathring{\text{U}}$ 34'55	0°33'37
	-11363 Sep 26 j 15:07	0° $\mathring{\text{U}}$		max. Earth dist.	-11357 Nov 04 j 20:13	24° $\mathring{\text{U}}$ 39'19	21.15500 AU
				morning rise	-11357 Nov 19 j 16:53	25° $\mathring{\text{U}}$ 29'31	
conjunction	-11363 Oct 10 j 05:40	0° $\mathring{\text{U}}$ 46'51	0°56'13	retrograde	-11356 Feb 22 j 13:59	28° $\mathring{\text{U}}$ 35'58	
minimum elong	-11363 Oct 10 j 05:40	0° $\mathring{\text{U}}$ 46'51	0°56'46	opposition	-11356 May 10 j 18:59	26° $\mathring{\text{U}}$ 36'38	0°34'11
max. Earth dist.	-11363 Oct 11 j 16:10	0° $\mathring{\text{U}}$ 51'50	20.98863 AU	min. Earth dist.	-11356 May 09 j 14:56	26° $\mathring{\text{U}}$ 39'27	19.16047 AU
morning rise	-11363 Oct 26 j 02:46	1° $\mathring{\text{U}}$ 41'23		direct	-11356 Jul 24 j 18:27	24° $\mathring{\text{U}}$ 40'57	
retrograde	-11362 Jan 28 j 14:18	4° $\mathring{\text{U}}$ 49'27		evening set	-11356 Oct 21 j 18:17	27° $\mathring{\text{U}}$ 36'59	
opposition	-11362 Apr 16 j 23:22	2° $\mathring{\text{U}}$ 50'03	1°00'21				
min. Earth dist.	-11362 Apr 15 j 14:36	2° $\mathring{\text{U}}$ 53'20	19.01065 AU	conjunction	-11356 Nov 06 j 18:39	28° $\mathring{\text{U}}$ 31'02	0°28'45
direct	-11362 Jul 01 j 10:26	0° $\mathring{\text{U}}$ 53'58		minimum elong	-11356 Nov 06 j 18:39	28° $\mathring{\text{U}}$ 31'02	0°29'06
evening set	-11362 Sep 28 j 16:53	3° $\mathring{\text{U}}$ 52'28		max. Earth dist.	-11356 Nov 08 j 01:46	28° $\mathring{\text{U}}$ 35'26	21.16366 AU
				morning rise	-11356 Nov 22 j 23:18	29° $\mathring{\text{U}}$ 25'41	
conjunction	-11362 Oct 14 j 11:04	4° $\mathring{\text{U}}$ 46'25	0°52'56		-11356 Dec 03 j 13:14	0° $\mathring{\text{U}}$	
minimum elong	-11362 Oct 14 j 11:05	4° $\mathring{\text{U}}$ 46'25	0°53'29	retrograde	-11355 Feb 25 j 22:07	2° $\mathring{\text{U}}$ 31'57	
max. Earth dist.	-11362 Oct 15 j 22:29	4° $\mathring{\text{U}}$ 51'31	21.02991 AU	min. Earth dist.	-11355 May 13 j 20:42	0° $\mathring{\text{U}}$ 35'21	19.16664 AU
morning rise	-11362 Oct 30 j 09:01	5° $\mathring{\text{U}}$ 40'55		opposition	-11355 May 15 j 00:32	0° $\mathring{\text{U}}$ 32'33	0°29'11
retrograde	-11361 Feb 01 j 23:04	8° $\mathring{\text{U}}$ 48'38			-11355 May 28 j 16:26	30° $\mathring{\text{R}}$ $\mathring{\text{U}}$	
min. Earth dist.	-11361 Apr 19 j 22:45	6° $\mathring{\text{U}}$ 52'39	19.04944 AU	direct	-11355 Jul 29 j 00:08	28° $\mathring{\text{U}}$ 36'49	
opposition	-11361 Apr 21 j 07:50	6° $\mathring{\text{U}}$ 49'21	0°56'34		-11355 Sep 25 j 09:12	0° $\mathring{\text{U}}$	
direct	-11361 Jul 05 j 17:13	4° $\mathring{\text{U}}$ 53'27		evening set	-11355 Oct 25 j 22:49	1° $\mathring{\text{U}}$ 32'41	
evening set	-11361 Oct 02 j 21:11	7° $\mathring{\text{U}}$ 51'22					
				conjunction	-11355 Nov 11 j 00:05	2° $\mathring{\text{U}}$ 26'48	0°24'10
conjunction	-11361 Oct 18 j 16:08	8° $\mathring{\text{U}}$ 45'18	0°49'24	minimum elong	-11355 Nov 11 j 00:05	2° $\mathring{\text{U}}$ 26'48	0°24'30
minimum elong	-11361 Oct 18 j 16:08	8° $\mathring{\text{U}}$ 45'18	0°49'55	max. Earth dist.	-11355 Nov 12 j 05:09	2° $\mathring{\text{U}}$ 30'55	21.16759 AU
max. Earth dist.	-11361 Oct 20 j 02:12	8° $\mathring{\text{U}}$ 50'11	21.06619 AU	morning rise	-11355 Nov 27 j 06:00	3° $\mathring{\text{U}}$ 21'32	
morning rise	-11361 Nov 03 j 15:18	9° $\mathring{\text{U}}$ 39'47		retrograde	-11354 Mar 02 j 03:52	6° $\mathring{\text{U}}$ 27'41	
retrograde	-11360 Feb 06 j 07:34	12° $\mathring{\text{U}}$ 47'14		min. Earth dist.	-11354 May 18 j 03:53	4° $\mathring{\text{U}}$ 30'49	19.16843 AU
min. Earth dist.	-11360 Apr 23 j 08:10	10° $\mathring{\text{U}}$ 51'10	19.08309 AU	opposition	-11354 May 19 j 05:45	4° $\mathring{\text{U}}$ 28'12	0°24'03
opposition	-11360 Apr 24 j 15:59	10° $\mathring{\text{U}}$ 47'59	0°52'31	direct	-11354 Aug 02 j 02:36	2° $\mathring{\text{U}}$ 32'22	
direct	-11360 Jul 08 j 22:25	8° $\mathring{\text{U}}$ 52'14		evening set	-11354 Oct 30 j 03:17	5° $\mathring{\text{U}}$ 28'11	
evening set	-11360 Oct 06 j 01:26	11° $\mathring{\text{U}}$ 49'39					
				conjunction	-11354 Nov 15 j 05:50	6° $\mathring{\text{U}}$ 22'24	0°19'28
conjunction	-11360 Oct 21 j 21:32	12° $\mathring{\text{U}}$ 43'34	0°45'39	minimum elong	-11354 Nov 15 j 05:50	6° $\mathring{\text{U}}$ 22'24	0°19'45
minimum elong	-11360 Oct 21 j 21:33	12° $\mathring{\text{U}}$ 43'34	0°46'08	max. Earth dist.	-11354 Nov 16 j 10:50	6° $\mathring{\text{U}}$ 26'30	21.16732 AU
max. Earth dist.	-11360 Oct 23 j 08:03	12° $\mathring{\text{U}}$ 48'30	21.09706 AU	morning rise	-11354 Dec 01 j 12:40	7° $\mathring{\text{U}}$ 17'13	
morning rise	-11360 Nov 06 j 21:39	13° $\mathring{\text{U}}$ 38'03		retrograde	-11353 Mar 06 j 11:25	10° $\mathring{\text{U}}$ 23'17	
	-11360 Dec 03 j 03:24	15° $\mathring{\text{U}}$		min. Earth dist.	-11353 May 22 j 09:00	8° $\mathring{\text{U}}$ 26'21	19.16602 AU
retrograde	-11359 Feb 09 j 16:19	16° $\mathring{\text{U}}$ 45'13		opposition	-11353 May 23 j 10:42	8° $\mathring{\text{U}}$ 23'45	0°18'49
	-11359 Apr 23 j 03:16	15° $\mathring{\text{R}}$ $\mathring{\text{U}}$		direct	-11353 Aug 06 j 07:50	6° $\mathring{\text{U}}$ 27'51	
opposition	-11359 Apr 28 j 23:22	14° $\mathring{\text{U}}$ 46'00	0°48'14	evening set	-11353 Nov 03 j 08:01	9° $\mathring{\text{U}}$ 23'41	
min. Earth dist.	-11359 Apr 27 j 15:36	14° $\mathring{\text{U}}$ 49'11	19.11099 AU				
direct	-11359 Jul 13 j 04:30	12° $\mathring{\text{U}}$ 50'21		conjunction	-11353 Nov 19 j 11:32	10° $\mathring{\text{U}}$ 18'00	0°14'42
	-11359 Sep 25 j 14:03	15° $\mathring{\text{U}}$		minimum elong	-11353 Nov 19 j 11:32	10° $\mathring{\text{U}}$ 18'00	0°14'57
evening set	-11359 Oct 10 j 05:49	15° $\mathring{\text{U}}$ 47'19		behind sun begin	-11353 Nov 19 j 09:08	10° $\mathring{\text{U}}$ 17'40	
				behind sun end	-11353 Nov 19 j 13:56	10° $\mathring{\text{U}}$ 18'20	
conjunction	-11359 Oct 26 j 02:47	16° $\mathring{\text{U}}$ 41'14	0°41'40	max. Earth dist.	-11353 Nov 20 j 14:23	10° $\mathring{\text{U}}$ 21'47	21.16295 AU
minimum elong	-11359 Oct 26 j 02:47	16° $\mathring{\text{U}}$ 41'14	0°42'09	morning rise	-11353 Dec 05 j 19:39	11° $\mathring{\text{U}}$ 12'56	
max. Earth dist.	-11359 Oct 27 j 11:28	16° $\mathring{\text{U}}$ 45'54	21.12210 AU	retrograde	-11352 Mar 09 j 17:56	14° $\mathring{\text{U}}$ 18'59	
morning rise	-11359 Nov 11 j 04:11	17° $\mathring{\text{U}}$ 35'46		opposition	-11352 May 26 j 15:38	12° $\mathring{\text{U}}$ 19'25	0°13'29
retrograde	-11358 Feb 13 j 23:28	20° $\mathring{\text{U}}$ 42'39		min. Earth dist.	-11352 May 25 j 16:00	12° $\mathring{\text{U}}$ 21'48	19.15962 AU
min. Earth dist.	-11358 May 02 j 00:24	18° $\mathring{\text{U}}$ 46'27	19.13309 AU	direct	-11352 Aug 09 j 10:02	10° $\mathring{\text{U}}$ 23'25	
opposition	-11358 May 03 j 06:27	18° $\mathring{\text{U}}$ 43'26	0°43'44	evening set	-11352 Nov 06 j 13:07	13° $\mathring{\text{U}}$ 19'22	
direct	-11358 Jul 17 j 09:08	16° $\mathring{\text{U}}$ 47'49					
evening set	-11358 Oct 14 j 09:53	19° $\mathring{\text{U}}$ 44'24		conjunction	-11352 Nov 22 j 17:56	14° $\mathring{\text{U}}$ 13'48	0°09'51
				minimum elong	-11352 Nov 22 j 17:56	14° $\mathring{\text{U}}$ 13'48	0°10'04
conjunction	-11358 Oct 30 j 08:04	20° $\mathring{\text{U}}$ 38'21	0°37'31	behind sun begin	-11352 Nov 22 j 12:36	14° $\mathring{\text{U}}$ 13'04	
minimum elong	-11358 Oct 30 j 08:04	20° $\mathring{\text{U}}$ 38'21	0°37'57	behind sun end	-11352 Nov 22 j 23:17	14° $\mathring{\text{U}}$ 14'32	
max. Earth dist.	-11358 Oct 31 j 16:56	20° $\mathring{\text{U}}$ 43'02	21.14132 AU	max. Earth dist.	-11352 Nov 23 j 20:26	14° $\mathring{\text{U}}$ 17'33	21.15454 AU
morning rise	-11358 Nov 15 j 10:24	21° $\mathring{\text{U}}$ 32'54		morning rise	-11352 Dec 09 j 02:58	15° $\mathring{\text{U}}$ 08'51	

Attention, astronomical year style is used: The year -11351 in astronomical counting style is the year 11352 BCE in historical counting style.

retrograde	-11351 Mar 14 j 01:32	18° $\overline{14}$ '56		direct	-11346 Sep 02 j 08:51	4° $\underline{07}$ '56	
opposition	-11351 May 30 j 20:09	16° $\overline{15}$ '21	0°08'04	evening set	-11346 Dec 01 j 07:16	7° $\underline{06}$ '26	
min. Earth dist.	-11351 May 29 j 21:02	16° $\overline{17}$ '41	19.14900 AU				
direct	-11351 Aug 13 j 14:35	14° $\overline{19}$ '16		conjunction	-11346 Dec 17 j 18:26	8° $\underline{01}$ '56	-0°19'51
evening set	-11351 Nov 10 j 18:50	17° $\overline{15}$ '25		minimum elong	-11346 Dec 17 j 18:26	8° $\underline{01}$ '56	0°19'53
				max. Earth dist.	-11346 Dec 18 j 08:34	8° $\underline{03}$ '56	21.00424 AU
conjunction	-11351 Nov 27 j 00:35	18° $\overline{10}$ '00	0°04'57	morning rise	-11345 Jan 03 j 09:07	8° $\underline{57}$ '57	
minimum elong	-11351 Nov 27 j 00:35	18° $\overline{10}$ '00	0°05'07	retrograde	-11345 Apr 08 j 03:09	12° $\underline{05}$ '11	
behind sun begin	-11351 Nov 26 j 18:06	18° $\overline{09}$ '07		opposition	-11345 Jun 24 j 00:55	10° $\underline{05}$ '21	-0°24'38
behind sun end	-11351 Nov 27 j 07:03	18° $\overline{10}$ '53		min. Earth dist.	-11345 Jun 23 j 13:33	10° $\underline{06}$ '32	18.98299 AU
max. Earth dist.	-11351 Nov 28 j 00:31	18° $\overline{13}$ '23	21.14183 AU	direct	-11345 Sep 06 j 14:54	8° $\underline{08}$ '12	
morning rise	-11351 Dec 13 j 10:49	19° $\overline{05}$ '11		evening set	-11345 Dec 05 j 16:29	11° $\underline{07}$ '21	
retrograde	-11350 Mar 18 j 08:41	22° $\overline{11}$ '21					
min. Earth dist.	-11350 Jun 03 j 04:10	20° $\overline{13}$ '51	19.13408 AU	conjunction	-11345 Dec 22 j 04:30	12° $\underline{03}$ '05	-0°24'38
opposition	-11350 Jun 04 j 00:52	20° $\overline{11}$ '45	0°02'36	minimum elong	-11345 Dec 22 j 04:30	12° $\underline{03}$ '05	0°24'43
direct	-11350 Aug 17 j 16:58	18° $\overline{15}$ '34		max. Earth dist.	-11345 Dec 22 j 15:08	12° $\underline{04}$ '35	20.96037 AU
evening set	-11350 Nov 15 j 00:42	21° $\overline{12}$ '01		morning rise	-11344 Jan 07 j 20:07	12° $\underline{59}$ '18	
desc. node	-11350 Nov 25 j 08:42	21° $\overline{46}$ '35		retrograde	-11344 Apr 11 j 11:06	16° $\underline{06}$ '51	
				opposition	-11344 Jun 27 j 06:22	14° $\underline{06}$ '53	-0°29'53
conjunction	-11350 Dec 01 j 07:42	22° $\overline{06}$ '46	-0°00'04	min. Earth dist.	-11344 Jun 26 j 22:13	14° $\underline{07}$ '43	18.93654 AU
minimum elong	-11350 Dec 01 j 07:41	22° $\overline{06}$ '46	0°00'04	direct	-11344 Sep 09 j 19:14	12° $\underline{09}$ '23	
behind sun begin	-11350 Dec 01 j 01:31	22° $\overline{05}$ '55		evening set	-11344 Dec 09 j 02:20	15° $\underline{09}$ '17	
behind sun end	-11350 Dec 01 j 13:51	22° $\overline{07}$ '36					
max. Earth dist.	-11350 Dec 02 j 06:58	22° $\overline{10}$ '03	21.12467 AU	conjunction	-11344 Dec 25 j 15:28	16° $\underline{05}$ '15	-0°29'19
morning rise	-11350 Dec 17 j 18:45	23° $\overline{02}$ '05		minimum elong	-11344 Dec 25 j 15:27	16° $\underline{05}$ '15	0°29'27
retrograde	-11349 Mar 22 j 16:48	26° $\overline{08}$ '24		max. Earth dist.	-11344 Dec 26 j 00:22	16° $\underline{06}$ '30	20.91159 AU
min. Earth dist.	-11349 Jun 07 j 09:30	24° $\overline{10}$ '48	19.11444 AU	morning rise	-11343 Jan 11 j 07:42	17° $\underline{01}$ '40	
opposition	-11349 Jun 08 j 05:24	24° $\overline{08}$ '47	-0°02'53	retrograde	-11343 Apr 15 j 21:33	20° $\underline{09}$ '32	
direct	-11349 Aug 21 j 21:22	22° $\overline{12}$ '29		opposition	-11343 Jul 01 j 11:42	18° $\underline{09}$ '25	-0°35'00
evening set	-11349 Nov 19 j 07:27	25° $\overline{09}$ '20		min. Earth dist.	-11343 Jul 01 j 04:50	18° $\underline{10}$ '08	18.88545 AU
				direct	-11343 Sep 14 j 02:11	16° $\underline{11}$ '34	
conjunction	-11349 Dec 05 j 15:21	26° $\overline{04}$ '14	-0°05'07	evening set	-11343 Dec 13 j 13:00	19° $\underline{12}$ '17	
minimum elong	-11349 Dec 05 j 15:21	26° $\overline{04}$ '14	0°05'02				
behind sun begin	-11349 Dec 05 j 08:51	26° $\overline{03}$ '20		conjunction	-11343 Dec 30 j 02:52	20° $\underline{08}$ '29	-0°33'52
behind sun end	-11349 Dec 05 j 21:51	26° $\overline{05}$ '07		minimum elong	-11343 Dec 30 j 02:51	20° $\underline{08}$ '29	0°34'02
max. Earth dist.	-11349 Dec 06 j 11:43	26° $\overline{07}$ '06	21.10264 AU	max. Earth dist.	-11343 Dec 30 j 08:25	20° $\underline{09}$ '16	20.85846 AU
morning rise	-11349 Dec 22 j 03:33	26° $\overline{59}$ '43		morning rise	-11342 Jan 15 j 19:51	21° $\underline{05}$ '08	
	-11348 Mar 10 j 01:11	0° $\underline{06}$ '13		retrograde	-11342 Apr 20 j 06:07	24° $\underline{13}$ '21	
retrograde	-11348 Mar 26 j 00:22	0° $\underline{06}$ '13		opposition	-11342 Jul 05 j 17:35	22° $\underline{13}$ '05	-0°39'58
	-11348 Apr 11 j 01:50	30° $\overline{08}$ ' $\overline{10}$		min. Earth dist.	-11342 Jul 05 j 13:47	22° $\underline{13}$ '28	18.83054 AU
opposition	-11348 Jun 11 j 10:07	28° $\overline{06}$ '34	-0°08'23	direct	-11342 Sep 18 j 07:19	20° $\underline{14}$ '50	
min. Earth dist.	-11348 Jun 10 j 17:06	28° $\overline{08}$ '19	19.08988 AU	evening set	-11342 Dec 18 j 00:01	23° $\underline{16}$ '26	
direct	-11348 Aug 25 j 00:15	26° $\overline{10}$ '07					
evening set	-11348 Nov 22 j 14:41	29° $\overline{07}$ '27		conjunction	-11341 Jan 03 j 14:51	24° $\underline{12}$ '53	-0°38'16
				minimum elong	-11341 Jan 03 j 14:50	24° $\underline{12}$ '53	0°38'30
conjunction	-11348 Dec 08 j 23:50	0° $\underline{02}$ '33	-0°10'04	max. Earth dist.	-11341 Jan 03 j 18:51	24° $\underline{13}$ '27	20.80190 AU
minimum elong	-11348 Dec 08 j 23:50	0° $\underline{02}$ '32	0°10'01	morning rise	-11341 Jan 20 j 08:20	25° $\underline{09}$ '45	
behind sun begin	-11348 Dec 08 j 18:28	0° $\underline{01}$ '48		retrograde	-11341 Apr 24 j 17:25	28° $\underline{18}$ '22	
behind sun end	-11348 Dec 09 j 05:13	0° $\underline{03}$ '17		opposition	-11341 Jul 09 j 23:37	26° $\underline{17}$ '57	-0°44'45
	-11348 Dec 08 j 05:48	0° $\underline{05}$ '14		min. Earth dist.	-11341 Jul 09 j 20:51	26° $\underline{18}$ '14	18.77245 AU
max. Earth dist.	-11348 Dec 09 j 18:58	0° $\underline{05}$ '14	21.07547 AU	direct	-11341 Sep 22 j 14:59	24° $\underline{19}$ '19	
morning rise	-11348 Dec 25 j 12:50	0° $\underline{58}$ '12		evening set	-11341 Dec 22 j 12:06	27° $\underline{21}$ '52	
retrograde	-11347 Mar 30 j 09:32	4° $\underline{04}$ '54					
opposition	-11347 Jun 15 j 14:51	2° $\underline{05}$ '14	-0°13'51	conjunction	-11340 Jan 08 j 03:36	28° $\underline{18}$ '35	-0°42'29
min. Earth dist.	-11347 Jun 14 j 23:02	2° $\underline{06}$ '51	19.05986 AU	minimum elong	-11340 Jan 08 j 03:35	28° $\underline{18}$ '35	0°42'44
direct	-11347 Aug 29 j 05:19	0° $\underline{08}$ '36		max. Earth dist.	-11340 Jan 08 j 04:25	28° $\underline{18}$ '42	20.74242 AU
evening set	-11347 Nov 26 j 22:47	3° $\underline{06}$ '28		morning rise	-11340 Jan 24 j 21:42	29° $\underline{15}$ '41	
					-11340 Feb 07 j 12:24	0° $\overline{18}$ ' $\overline{10}$	
conjunction	-11347 Dec 13 j 08:46	4° $\underline{01}$ '46	-0°14'59	retrograde	-11340 Apr 28 j 03:07	2° $\overline{24}$ '44	
minimum elong	-11347 Dec 13 j 08:46	4° $\underline{01}$ '46	0°14'59	opposition	-11340 Jul 13 j 06:06	0° $\overline{24}$ '10	-0°49'20
behind sun begin	-11347 Dec 13 j 06:32	4° $\underline{01}$ '27		min. Earth dist.	-11340 Jul 13 j 06:20	0° $\overline{24}$ '08	18.71184 AU
behind sun end	-11347 Dec 13 j 11:00	4° $\underline{02}$ '04			-11340 Jul 22 j 22:27	30° $\overline{08}$ ' $\overline{10}$	
max. Earth dist.	-11347 Dec 14 j 00:30	4° $\underline{03}$ '58	21.04263 AU	direct	-11340 Sep 25 j 20:45	28° $\underline{25}$ '09	
morning rise	-11347 Dec 29 j 22:45	4° $\underline{57}$ '36			-11340 Nov 27 j 11:54	0° $\overline{28}$ ' $\overline{10}$	
retrograde	-11346 Apr 03 j 17:16	8° $\underline{04}$ '33		evening set	-11340 Dec 26 j 00:54	1° $\overline{28}$ '44	
opposition	-11346 Jun 19 j 19:51	6° $\underline{04}$ '49	-0°19'17				
min. Earth dist.	-11346 Jun 19 j 07:12	6° $\underline{06}$ '07	19.02422 AU	conjunction	-11339 Jan 11 j 17:16	2° $\overline{25}$ '43	-0°46'31

Attention, astronomical year style is used: The year -11339 in astronomical counting style is the year 11340 BCE in historical counting style.

minimum elong	-11339 Jan 11 j 17:15	2°M.25'43	0°46'49	opposition	-11333 Aug 11 j 19:51	29°M.57'13	-1°13'48
max. Earth dist.	-11339 Jan 11 j 16:22	2°M.25'35	20.68073 AU	min. Earth dist.	-11333 Aug 12 j 09:52	29°M.55'43	18.23974 AU
morning rise	-11339 Jan 28 j 11:44	3°M.23'03		direct	-11333 Oct 25 j 17:48	27°M.55'31	
retrograde	-11339 May 02 j 15:58	6°M.32'34			-11332 Jan 06 j 03:49	0°J	
opposition	-11339 Jul 17 j 12:59	4°M.31'54	-0°53'42	evening set	-11332 Jan 26 j 20:56	1°J08'01	
min. Earth dist.	-11339 Jul 17 j 14:12	4°M.31'46	18.64914 AU				
direct	-11339 Sep 30 j 05:34	2°M.32'29		conjunction	-11332 Feb 12 j 16:28	2°J07'02	-1°07'26
evening set	-11339 Dec 30 j 14:36	5°M.37'11		minimum elong	-11332 Feb 12 j 16:28	2°J07'02	1°07'58
				max. Earth dist.	-11332 Feb 11 j 21:31	2°J04'15	20.20259 AU
conjunction	-11338 Jan 16 j 07:29	6°M.34'26	-0°50'21	morning rise	-11332 Feb 29 j 11:49	3°J06'05	
minimum elong	-11338 Jan 16 j 07:29	6°M.34'26	0°50'41	retrograde	-11332 Jun 01 j 18:42	6°J19'45	
max. Earth dist.	-11338 Jan 16 j 03:37	6°M.33'53	20.61703 AU	opposition	-11332 Aug 15 j 07:40	4°J18'30	-1°15'53
morning rise	-11338 Feb 02 j 02:22	7°M.32'00		min. Earth dist.	-11332 Aug 16 j 00:48	4°J16'40	18.16580 AU
retrograde	-11338 May 07 j 02:44	10°M.42'03		direct	-11332 Oct 29 j 06:28	2°J16'21	
opposition	-11338 Jul 21 j 20:33	8°M.41'16	-0°57'50	evening set	-11331 Jan 30 j 17:31	5°J30'16	
min. Earth dist.	-11338 Jul 22 j 00:41	8°M.40'50	18.58471 AU				
direct	-11338 Oct 04 j 12:05	6°M.41'30		conjunction	-11331 Feb 16 j 13:11	6°J29'34	-1°09'05
evening set	-11337 Jan 04 j 05:05	9°M.47'21		minimum elong	-11331 Feb 16 j 13:10	6°J29'34	1°09'39
				max. Earth dist.	-11331 Feb 15 j 15:23	6°J26'20	20.12806 AU
conjunction	-11337 Jan 20 j 22:41	10°M.44'54	-0°53'56	morning rise	-11331 Mar 05 j 08:25	7°J28'51	
minimum elong	-11337 Jan 20 j 22:40	10°M.44'54	0°54'18	retrograde	-11331 Jun 06 j 12:20	10°J43'07	
max. Earth dist.	-11337 Jan 20 j 16:59	10°M.44'05	20.55189 AU	opposition	-11331 Aug 19 j 20:14	8°J41'45	-1°17'32
morning rise	-11337 Feb 06 j 17:49	11°M.42'43		min. Earth dist.	-11331 Aug 20 j 14:36	8°J39'47	18.09080 AU
retrograde	-11337 May 11 j 17:26	14°M.53'19		direct	-11331 Nov 02 j 22:05	6°J39'08	
opposition	-11337 Jul 26 j 04:28	12°M.52'27	-1°01'41	evening set	-11330 Feb 04 j 14:46	9°J54'26	
min. Earth dist.	-11337 Jul 26 j 09:39	12°M.51'55	18.51883 AU	max. Earth dist.	-11330 Feb 20 j 10:46	10°J50'29	20.05262 AU
direct	-11337 Oct 08 j 22:13	10°M.52'18					
evening set	-11336 Jan 08 j 20:39	13°M.59'25		conjunction	-11330 Feb 21 j 10:33	10°J54'02	-1°10'21
				minimum elong	-11330 Feb 21 j 10:32	10°J54'02	1°10'55
conjunction	-11336 Jan 25 j 14:44	14°M.57'15	-0°57'15	morning rise	-11330 Mar 10 j 05:22	11°J53'32	
minimum elong	-11336 Jan 25 j 14:43	14°M.57'15	0°57'41	retrograde	-11330 Jun 11 j 04:24	15°J08'25	
max. Earth dist.	-11336 Jan 25 j 06:08	14°M.56'00	20.48522 AU	opposition	-11330 Aug 24 j 09:42	13°J06'54	-1°18'44
	-11336 Jan 26 j 09:43	15°M.		min. Earth dist.	-11330 Aug 25 j 06:45	13°J04'38	18.01536 AU
morning rise	-11336 Feb 11 j 10:08	15°M.55'19		direct	-11330 Nov 07 j 13:08	11°J03'49	
retrograde	-11336 May 15 j 05:32	19°M.06'30		evening set	-11329 Feb 09 j 12:58	14°J20'31	
opposition	-11336 Jul 29 j 13:18	17°M.05'35	-1°05'14	max. Earth dist.	-11329 Feb 25 j 06:11	15°J16'25	19.97736 AU
min. Earth dist.	-11336 Jul 29 j 21:35	17°M.04'42	18.45148 AU				
direct	-11336 Oct 12 j 06:15	15°M.05'04		conjunction	-11329 Feb 26 j 08:39	15°J20'23	-1°11'12
evening set	-11335 Jan 12 j 13:13	18°M.13'28		minimum elong	-11329 Feb 26 j 08:39	15°J20'23	1°11'48
				morning rise	-11329 Mar 15 j 03:16	16°J20'07	
conjunction	-11335 Jan 29 j 07:50	19°M.11'36	-1°00'17	retrograde	-11329 Jun 15 j 22:37	19°J35'36	
minimum elong	-11335 Jan 29 j 07:49	19°M.11'36	1°00'44	opposition	-11329 Aug 28 j 23:42	17°J33'56	-1°19'29
max. Earth dist.	-11335 Jan 28 j 21:00	19°M.10'01	20.41712 AU	min. Earth dist.	-11329 Aug 29 j 21:48	17°J31'33	17.94049 AU
morning rise	-11335 Feb 15 j 03:20	20°M.09'55		direct	-11329 Nov 12 j 06:19	15°J30'21	
retrograde	-11335 May 19 j 21:33	23°M.21'42		evening set	-11328 Feb 14 j 11:56	18°J48'29	
opposition	-11335 Aug 02 j 22:34	21°M.20'43	-1°08'27	max. Earth dist.	-11328 Mar 01 j 03:54	19°J44'27	19.90289 AU
min. Earth dist.	-11335 Aug 03 j 08:06	21°M.19'42	18.38258 AU				
direct	-11335 Oct 16 j 17:59	19°M.19'50		conjunction	-11328 Mar 02 j 07:39	19°J48'37	-1°11'37
evening set	-11334 Jan 17 j 06:53	22°M.29'35		minimum elong	-11328 Mar 02 j 07:39	19°J48'37	1°12'14
				morning rise	-11328 Mar 19 j 01:41	20°J48'34	
conjunction	-11334 Feb 03 j 01:49	23°M.28'01	-1°03'01	retrograde	-11328 Jun 19 j 16:25	24°J04'38	
minimum elong	-11334 Feb 03 j 01:48	23°M.28'01	1°03'30	opposition	-11328 Sep 01 j 14:48	22°J02'51	-1°19'45
max. Earth dist.	-11334 Feb 02 j 12:08	23°M.26'01	20.34728 AU	min. Earth dist.	-11328 Sep 02 j 15:05	22°J00'13	17.86683 AU
morning rise	-11334 Feb 19 j 21:20	24°M.26'35		direct	-11328 Nov 15 j 23:33	19°J58'48	
retrograde	-11334 May 24 j 11:07	27°M.38'59		evening set	-11327 Feb 18 j 11:44	23°J18'20	
opposition	-11334 Aug 07 j 08:55	25°M.37'57	-1°11'19	max. Earth dist.	-11327 Mar 06 j 00:52	24°J14'09	19.83019 AU
min. Earth dist.	-11334 Aug 07 j 21:36	25°M.36'35	18.31202 AU				
direct	-11334 Oct 21 j 04:11	23°M.36'40		conjunction	-11327 Mar 07 j 07:07	24°J18'43	-1°11'37
evening set	-11333 Jan 22 j 01:18	26°M.47'46		minimum elong	-11327 Mar 07 j 07:07	24°J18'43	1°12'14
				morning rise	-11327 Mar 24 j 00:45	25°J18'52	
conjunction	-11333 Feb 07 j 20:35	27°M.46'30	-1°05'24	retrograde	-11327 Jun 24 j 11:30	28°J35'33	
minimum elong	-11333 Feb 07 j 20:34	27°M.46'30	1°05'54	opposition	-11327 Sep 06 j 06:37	26°J33'38	-1°19'33
max. Earth dist.	-11333 Feb 07 j 04:20	27°M.44'07	20.27586 AU	min. Earth dist.	-11327 Sep 07 j 07:39	26°J30'55	17.79537 AU
morning rise	-11333 Feb 24 j 16:08	28°M.45'19		direct	-11327 Nov 20 j 18:38	24°J29'09	
	-11333 Mar 19 j 14:37	0°J		evening set	-11326 Feb 23 j 12:07	27°J50'04	
retrograde	-11333 May 29 j 03:58	1°J58'21		max. Earth dist.	-11326 Mar 11 j 00:41	28°J46'03	19.75996 AU
	-11333 Aug 10 j 17:49	30°R.M.					

Attention, astronomical year style is used: The year -11326 in astronomical counting style is the year 11327 BCE in historical counting style.

conjunction	-11326 Mar 12 j 07:22	28° R 50'42	-1°11'10	retrograde	-11320 Jul 26 j 21:45	1° R 04'36	
minimum elong	-11326 Mar 12 j 07:22	28° R 50'42	1°11'48		-11320 Sep 15 j 04:40	30° R 30	
morning rise	-11326 Mar 29 j 00:13	29° R 51'02		opposition	-11320 Oct 07 j 23:50	29° R 02'38	-1°04'02
	-11326 Mar 31 j 13:03	0° R 30		min. Earth dist.	-11320 Oct 09 j 06:06	28° R 59'20	17.39816 AU
retrograde	-11326 Jun 29 j 06:48	3° R 08'19		direct	-11320 Dec 23 j 04:14	26° R 56'16	
opposition	-11326 Sep 10 j 23:27	1° R 06'19	-1°18'50		-11319 Mar 22 j 05:59	0° R 30	
min. Earth dist.	-11326 Sep 12 j 02:01	1° R 03'26	17.72676 AU	evening set	-11319 Mar 29 j 09:23	0° R 25'45	
	-11326 Oct 07 j 18:22	30° R 30		max. Earth dist.	-11319 Apr 13 j 11:53	1° R 21'55	19.37663 AU
direct	-11326 Nov 25 j 13:37	29° R 01'27					
	-11325 Jan 12 j 12:43	0° R 30		conjunction	-11319 Apr 15 j 00:08	1° R 27'35	-0°55'31
evening set	-11325 Feb 28 j 13:14	2° R 23'43		minimum elong	-11319 Apr 15 j 00:09	1° R 27'35	0°56'05
max. Earth dist.	-11325 Mar 15 j 23:04	3° R 19'34	19.69307 AU	morning rise	-11319 May 01 j 10:55	2° R 28'52	
				retrograde	-11319 Jul 31 j 21:09	5° R 49'56	
conjunction	-11325 Mar 17 j 07:59	3° R 24'35	-1°10'17	opposition	-11319 Oct 12 j 23:17	3° R 47'59	-0°59'51
minimum elong	-11325 Mar 17 j 07:59	3° R 24'35	1°10'54	min. Earth dist.	-11319 Oct 14 j 06:23	3° R 44'35	17.35775 AU
morning rise	-11325 Apr 03 j 00:21	4° R 25'07		direct	-11319 Dec 28 j 04:36	1° R 41'27	
retrograde	-11325 Jul 04 j 03:20	7° R 43'00		evening set	-11318 Apr 03 j 14:15	5° R 11'48	
opposition	-11325 Sep 15 j 17:06	5° R 40'56	-1°17'38	max. Earth dist.	-11318 Apr 18 j 16:32	6° R 08'07	19.33833 AU
min. Earth dist.	-11325 Sep 16 j 20:17	5° R 37'58	17.66175 AU				
direct	-11325 Nov 30 j 10:28	3° R 35'42		conjunction	-11318 Apr 20 j 04:07	6° R 13'42	-0°51'33
evening set	-11324 Mar 04 j 15:03	6° R 59'20		minimum elong	-11318 Apr 20 j 04:08	6° R 13'42	0°52'05
max. Earth dist.	-11324 Mar 20 j 00:45	7° R 55'23	19.62989 AU	morning rise	-11318 May 06 j 13:47	7° R 15'01	
				retrograde	-11318 Aug 05 j 22:26	10° R 36'28	
conjunction	-11324 Mar 21 j 09:31	8° R 00'24	-1°08'57	opposition	-11318 Oct 17 j 23:19	8° R 34'30	-0°55'15
minimum elong	-11324 Mar 21 j 09:31	8° R 00'24	1°09'35	min. Earth dist.	-11318 Oct 19 j 05:45	8° R 31'11	17.32151 AU
morning rise	-11324 Apr 07 j 00:58	9° R 01'06		direct	-11317 Jan 02 j 08:25	6° R 27'49	
retrograde	-11324 Jul 08 j 00:20	12° R 19'34		evening set	-11317 Apr 08 j 19:18	9° R 58'55	
opposition	-11324 Sep 19 j 11:44	10° R 17'30	-1°15'55	max. Earth dist.	-11317 Apr 23 j 20:23	10° R 55'14	19.30434 AU
min. Earth dist.	-11324 Sep 20 j 15:57	10° R 14'25	17.60058 AU				
direct	-11324 Dec 04 j 07:20	8° R 11'58		conjunction	-11317 Apr 25 j 08:10	11° R 00'52	-0°47'14
evening set	-11323 Mar 09 j 17:44	11° R 36'55		minimum elong	-11317 Apr 25 j 08:10	11° R 00'52	0°47'44
max. Earth dist.	-11323 Mar 25 j 00:44	12° R 32'50	19.57088 AU	morning rise	-11317 May 11 j 16:41	12° R 02'12	
					-11317 Jul 12 j 18:29	15° R 30	
conjunction	-11323 Mar 26 j 11:28	12° R 38'11	-1°07'09	retrograde	-11317 Aug 10 j 21:35	15° R 23'59	
minimum elong	-11323 Mar 26 j 11:28	12° R 38'11	1°07'46		-11317 Sep 09 j 12:44	15° R 30	
morning rise	-11323 Apr 12 j 02:14	13° R 39'02		opposition	-11317 Oct 23 j 00:15	13° R 21'59	-0°50'15
retrograde	-11323 Jul 12 j 22:35	16° R 58'05		min. Earth dist.	-11317 Oct 24 j 07:23	13° R 18'35	17.28989 AU
opposition	-11323 Sep 24 j 07:21	14° R 56'01	-1°13'42	direct	-11316 Jan 07 j 10:44	11° R 15'10	
min. Earth dist.	-11323 Sep 25 j 12:12	14° R 52'52	17.54377 AU	evening set	-11316 Apr 13 j 00:25	14° R 46'52	
direct	-11323 Dec 09 j 05:22	12° R 50'14			-11316 Apr 16 j 13:22	15° R 30	
evening set	-11322 Mar 14 j 20:39	16° R 31'62		max. Earth dist.	-11316 Apr 28 j 01:08	15° R 43'18	19.27525 AU
max. Earth dist.	-11322 Mar 30 j 03:49	17° R 31'23	19.51615 AU				
				conjunction	-11316 Apr 29 j 12:11	15° R 48'50	-0°42'34
conjunction	-11322 Mar 31 j 13:56	17° R 31'53	-1°04'54	minimum elong	-11316 Apr 29 j 12:11	15° R 48'50	0°43'03
minimum elong	-11322 Mar 31 j 13:56	17° R 31'53	1°05'31	morning rise	-11316 May 15 j 19:34	16° R 50'09	
morning rise	-11322 Apr 17 j 03:41	18° R 18'53		retrograde	-11316 Aug 14 j 22:59	20° R 12'12	
retrograde	-11322 Jul 17 j 21:40	21° R 38'29		opposition	-11316 Oct 27 j 01:41	18° R 10'10	-0°44'53
opposition	-11322 Sep 29 j 03:56	19° R 36'28	-1°10'58	min. Earth dist.	-11316 Oct 28 j 07:26	18° R 06'56	17.26326 AU
min. Earth dist.	-11322 Sep 30 j 09:18	19° R 33'16	17.49110 AU	direct	-11315 Jan 11 j 16:47	16° R 03'14	
direct	-11322 Dec 14 j 04:03	17° R 30'28		evening set	-11315 Apr 18 j 05:26	19° R 35'25	
evening set	-11321 Mar 20 j 00:29	20° R 57'51		max. Earth dist.	-11315 May 03 j 06:06	20° R 31'59	19.25141 AU
max. Earth dist.	-11321 Apr 04 j 05:09	21° R 53'55	19.46561 AU				
				conjunction	-11315 May 04 j 16:07	20° R 37'21	-0°37'36
conjunction	-11321 Apr 05 j 16:54	21° R 59'27	-1°02'12	minimum elong	-11315 May 04 j 16:07	20° R 37'21	0°38'02
minimum elong	-11321 Apr 05 j 16:54	21° R 59'28	1°02'48	morning rise	-11315 May 20 j 22:13	21° R 38'39	
morning rise	-11321 Apr 22 j 05:50	23° R 00'35		retrograde	-11315 Aug 19 j 22:15	25° R 00'54	
retrograde	-11321 Jul 22 j 21:03	26° R 20'43		opposition	-11315 Nov 01 j 03:55	22° R 58'50	-0°39'11
opposition	-11321 Oct 04 j 01:20	24° R 18'43	-1°07'44	min. Earth dist.	-11315 Nov 02 j 09:53	22° R 55'35	17.24234 AU
min. Earth dist.	-11321 Oct 05 j 07:36	24° R 15'25	17.44269 AU	direct	-11314 Jan 16 j 20:13	20° R 51'49	
direct	-11321 Dec 19 j 03:00	22° R 12'31		evening set	-11314 Apr 23 j 10:08	24° R 24'20	
evening set	-11320 Mar 24 j 04:43	25° R 41'02		max. Earth dist.	-11314 May 08 j 10:30	25° R 20'58	19.23362 AU
max. Earth dist.	-11320 Apr 08 j 09:17	26° R 37'17	19.41917 AU				
				conjunction	-11314 May 09 j 19:34	25° R 26'13	-0°32'23
conjunction	-11320 Apr 09 j 20:28	26° R 42'46	-0°59'04	minimum elong	-11314 May 09 j 19:35	25° R 26'13	0°32'46
minimum elong	-11320 Apr 09 j 20:29	26° R 42'46	0°59'38	morning rise	-11314 May 26 j 00:37	26° R 27'27	
morning rise	-11320 Apr 26 j 08:18	27° R 43'58		retrograde	-11314 Aug 25 j 00:09	29° R 49'52	
	-11320 Jun 08 j 01:10	0° R 30		opposition	-11314 Nov 06 j 06:26	27° R 47'46	-0°33'13

Attention, astronomical year style is used: The year -11314 in astronomical counting style is the year 11315 BCE in historical counting style.

min. Earth dist.	-11314 Nov 07 j 10:21	27° \approx 44'44"	17.22756 AU	morning rise	-11308 Jun 23 j 06:43	25° \approx 18'21"	
direct	-11313 Jan 22 j 02:56	25° \approx 40'42"		retrograde	-11308 Sep 22 j 06:33	28° \approx 40'49"	
evening set	-11313 Apr 28 j 14:39	29° \approx 13'25"		opposition	-11308 Dec 05 j 05:26	26° \approx 39'05"	0°05'57"
	-11313 May 10 j 23:05	0° \approx		min. Earth dist.	-11308 Dec 05 j 22:51	26° \approx 37'13"	17.28361 AU
				direct	-11307 Feb 20 j 08:10	24° \approx 33'01"	
conjunction	-11313 May 14 j 22:58	0° \approx 15'14"	-0°26'55"	evening set	-11307 May 27 j 08:55	28° \approx 04'25"	
minimum elong	-11313 May 14 j 22:58	0° \approx 15'14"	0°27'16"				
max. Earth dist.	-11313 May 13 j 16:03	0° \approx 10'19"	19.22209 AU	conjunction	-11307 Jun 12 j 09:27	29° \approx 05'12"	0°08'26"
morning rise	-11313 May 31 j 02:38	1° \approx 16'23"		minimum elong	-11307 Jun 12 j 09:27	29° \approx 05'12"	0°08'23"
retrograde	-11313 Aug 29 j 23:52	4° \approx 38'54"		behind sun begin	-11307 Jun 12 j 03:37	29° \approx 04'18"	
opposition	-11313 Nov 11 j 09:29	2° \approx 36'47"	-0°27'01"	behind sun end	-11307 Jun 12 j 15:17	29° \approx 06'07"	
min. Earth dist.	-11313 Nov 12 j 13:06	2° \approx 33'47"	17.21938 AU	max. Earth dist.	-11307 Jun 11 j 16:03	29° \approx 02'26"	19.29865 AU
direct	-11312 Jan 27 j 06:55	0° \approx 29'43"			-11307 Jun 26 j 19:13	0° \approx	
evening set	-11312 May 02 j 18:59	4° \approx 02'32"		morning rise	-11307 Jun 28 j 05:58	0° \approx 05'25"	
max. Earth dist.	-11312 May 17 j 20:01	4° \approx 59'28"	19.21750 AU	retrograde	-11307 Sep 27 j 07:38	3° \approx 27'44"	
				opposition	-11307 Dec 10 j 09:55	1° \approx 26'08"	0°12'35"
conjunction	-11312 May 19 j 01:53	5° \approx 04'13"	-0°21'17"	min. Earth dist.	-11307 Dec 11 j 01:23	1° \approx 24'29"	17.31518 AU
minimum elong	-11312 May 19 j 01:53	5° \approx 04'13"	0°21'35"		-11306 Jan 16 j 11:17	30° \approx	
morning rise	-11312 Jun 04 j 04:27	6° \approx 05'17"		direct	-11306 Feb 25 j 13:52	29° \approx 20'25"	
retrograde	-11312 Sep 03 j 01:56	9° \approx 27'52"			-11306 Apr 05 j 15:30	0° \approx	
opposition	-11312 Nov 15 j 12:56	7° \approx 25'46"	-0°20'37"	evening set	-11306 Jun 01 j 10:00	2° \approx 51'09"	
min. Earth dist.	-11312 Nov 16 j 13:57	7° \approx 23'03"	17.21827 AU				
direct	-11311 Jan 31 j 13:02	5° \approx 18'46"		conjunction	-11306 Jun 17 j 09:07	3° \approx 51'41"	0°14'18"
evening set	-11311 May 07 j 22:38	8° \approx 51'31"		minimum elong	-11306 Jun 17 j 09:07	3° \approx 51'41"	0°14'18"
max. Earth dist.	-11311 May 23 j 01:37	9° \approx 48'50"	19.22000 AU	behind sun begin	-11306 Jun 17 j 05:55	3° \approx 51'11"	
				behind sun end	-11306 Jun 17 j 12:19	3° \approx 52'11"	
conjunction	-11311 May 24 j 04:23	9° \approx 53'05"	-0°15'29"	max. Earth dist.	-11306 Jun 16 j 17:07	3° \approx 49'09"	19.33277 AU
minimum elong	-11311 May 24 j 04:23	9° \approx 53'05"	0°15'45"	morning rise	-11306 Jul 03 j 04:42	4° \approx 51'41"	
behind sun begin	-11311 May 24 j 03:04	9° \approx 52'53"		retrograde	-11306 Oct 02 j 07:25	8° \approx 13'48"	
behind sun end	-11311 May 24 j 05:43	9° \approx 53'18"		opposition	-11306 Dec 15 j 14:17	6° \approx 12'18"	0°19'06"
morning rise	-11311 Jun 09 j 05:33	10° \approx 54'01"		min. Earth dist.	-11306 Dec 16 j 03:40	6° \approx 10'53"	17.35168 AU
retrograde	-11311 Sep 08 j 02:29	14° \approx 16'38"		direct	-11305 Mar 02 j 18:20	4° \approx 06'55"	
opposition	-11311 Nov 20 j 16:52	12° \approx 14'35"	-0°14'05"	evening set	-11305 Jun 06 j 10:16	7° \approx 36'54"	
min. Earth dist.	-11311 Nov 21 j 16:52	12° \approx 11'59"	17.22433 AU				
direct	-11310 Feb 05 j 17:25	10° \approx 07'44"		conjunction	-11305 Jun 22 j 08:15	8° \approx 37'09"	0°20'04"
evening set	-11310 May 13 j 02:05	13° \approx 40'19"		minimum elong	-11305 Jun 22 j 08:14	8° \approx 37'09"	0°20'08"
max. Earth dist.	-11310 May 28 j 04:47	14° \approx 37'39"	19.22980 AU	max. Earth dist.	-11305 Jun 21 j 19:26	8° \approx 35'08"	19.37143 AU
				morning rise	-11305 Jul 08 j 02:40	9° \approx 36'54"	
conjunction	-11310 May 29 j 06:23	14° \approx 41'44"	-0°09'36"	retrograde	-11305 Oct 07 j 07:27	12° \approx 58'46"	
minimum elong	-11310 May 29 j 06:23	14° \approx 41'43"	0°09'48"	opposition	-11305 Dec 20 j 18:30	10° \approx 57'23"	0°25'27"
behind sun begin	-11310 May 29 j 00:56	14° \approx 40'53"		min. Earth dist.	-11305 Dec 21 j 05:26	10° \approx 56'13"	17.39228 AU
behind sun end	-11310 May 29 j 11:50	14° \approx 42'34"		direct	-11304 Mar 07 j 00:38	8° \approx 52'21"	
morning rise	-11310 Jun 14 j 06:32	15° \approx 42'31"		evening set	-11304 Jun 10 j 09:54	12° \approx 21'26"	
retrograde	-11310 Sep 13 j 04:17	19° \approx 05'06"					
opposition	-11310 Nov 25 j 20:42	17° \approx 03'08"	-0°07'26"	conjunction	-11304 Jun 26 j 06:34	13° \approx 21'24"	0°25'41"
min. Earth dist.	-11310 Nov 26 j 18:03	17° \approx 00'50"	17.23760 AU	minimum elong	-11304 Jun 26 j 06:33	13° \approx 21'24"	0°25'46"
direct	-11309 Feb 10 j 22:34	14° \approx 56'30"		max. Earth dist.	-11304 Jun 25 j 19:28	13° \approx 19'39"	19.41406 AU
evening set	-11309 May 18 j 04:53	18° \approx 28'49"		morning rise	-11304 Jul 12 j 00:05	14° \approx 20'54"	
max. Earth dist.	-11309 Jun 02 j 09:52	19° \approx 26'31"	19.24652 AU	retrograde	-11304 Oct 11 j 05:45	17° \approx 42'27"	
				opposition	-11304 Dec 24 j 22:36	15° \approx 41'08"	0°31'36"
conjunction	-11309 Jun 03 j 08:04	19° \approx 30'03"	-0°03'39"	min. Earth dist.	-11304 Dec 25 j 07:39	15° \approx 40'11"	17.43689 AU
minimum elong	-11309 Jun 03 j 08:04	19° \approx 30'03"	0°03'49"	direct	-11303 Mar 12 j 04:09	13° \approx 36'26"	
behind sun begin	-11309 Jun 03 j 01:30	19° \approx 29'02"		evening set	-11303 Jun 15 j 08:21	17° \approx 04'31"	
behind sun end	-11309 Jun 03 j 14:38	19° \approx 31'04"					
morning rise	-11309 Jun 19 j 06:52	20° \approx 30'39"		conjunction	-11303 Jul 01 j 03:57	18° \approx 04'12"	0°31'05"
retrograde	-11309 Sep 18 j 05:20	23° \approx 53'12"		minimum elong	-11303 Jul 01 j 03:57	18° \approx 04'11"	0°31'14"
opposition	-11309 Dec 01 j 01:01	21° \approx 51'21"	-0°00'45"	max. Earth dist.	-11303 Jun 30 j 19:52	18° \approx 02'55"	19.46049 AU
min. Earth dist.	-11309 Dec 01 j 20:55	21° \approx 49'13"	17.25748 AU	morning rise	-11303 Jul 16 j 20:34	19° \approx 03'26"	
asc. node	-11308 Jan 09 j 18:32	20° \approx 19'48"		retrograde	-11303 Oct 16 j 04:47	22° \approx 24'37"	
direct	-11308 Feb 16 j 03:29	19° \approx 45'00"		opposition	-11303 Dec 30 j 02:11	20° \approx 23'22"	0°37'30"
evening set	-11308 May 22 j 07:16	23° \approx 16'55"		min. Earth dist.	-11303 Dec 30 j 08:14	20° \approx 22'44"	17.48496 AU
				direct	-11302 Mar 17 j 09:20	18° \approx 19'00"	
conjunction	-11308 Jun 07 j 08:57	24° \approx 17'55"	0°02'29"	evening set	-11302 Jun 20 j 06:04	21° \approx 46'00"	
minimum elong	-11308 Jun 07 j 08:56	24° \approx 17'55"	0°02'23"				
behind sun begin	-11308 Jun 07 j 02:19	24° \approx 16'54"		conjunction	-11302 Jul 06 j 00:33	22° \approx 45'22"	0°36'15"
behind sun end	-11308 Jun 07 j 15:34	24° \approx 18'57"		minimum elong	-11302 Jul 06 j 00:32	22° \approx 45'22"	0°36'26"
max. Earth dist.	-11308 Jun 06 j 12:03	24° \approx 14'36"	19.26966 AU	max. Earth dist.	-11302 Jul 05 j 18:38	22° \approx 44'26"	19.51030 AU

Attention, astronomical year style is used: The year -11302 in astronomical counting style is the year 11303 BCE in historical counting style.

morning rise	-11302 Jul 21 j 16:22	23° Υ 44'21		retrograde	-11296 Nov 17 j 01:32	24° \mathcal{B} 26'30	
retrograde	-11302 Oct 21 j 01:37	27° Υ 05'06		opposition	-11295 Feb 01 j 10:57	22° \mathcal{B} 25'41	1°09'06
opposition	-11301 Jan 04 j 05:15	25° Υ 03'53	0°43'07	min. Earth dist.	-11295 Jan 31 j 23:06	22° \mathcal{B} 26'54	17.91903 AU
min. Earth dist.	-11301 Jan 04 j 09:40	25° Υ 03'25	17.53657 AU	direct	-11295 Apr 19 j 10:26	20° \mathcal{B} 24'02	
direct	-11301 Mar 22 j 11:09	22° Υ 59'50		evening set	-11295 Jul 21 j 09:19	23° \mathcal{B} 41'52	
evening set	-11301 Jun 25 j 02:42	26° Υ 25'40					
conjunction	-11301 Jul 10 j 20:11	27° Υ 24'43	0°41'08	conjunction	-11295 Aug 05 j 22:18	24° \mathcal{B} 39'00	1°03'28
minimum elong	-11301 Jul 10 j 20:11	27° Υ 24'43	0°41'23	minimum elong	-11295 Aug 05 j 22:18	24° \mathcal{B} 39'00	1°03'58
max. Earth dist.	-11301 Jul 10 j 17:03	27° Υ 24'14	19.56366 AU	max. Earth dist.	-11295 Aug 06 j 11:27	24° \mathcal{B} 41'02	19.95550 AU
morning rise	-11301 Jul 26 j 11:17	28° Υ 23'26		morning rise	-11295 Aug 21 j 10:55	25° \mathcal{B} 36'05	
retrograde	-11301 Aug 23 j 17:09	0° \mathcal{B}		retrograde	-11295 Nov 21 j 21:01	28° \mathcal{B} 53'07	
retrograde	-11301 Oct 25 j 23:53	1° \mathcal{B} 43'43		opposition	-11294 Feb 06 j 09:16	26° \mathcal{B} 52'26	1°11'58
opposition	-11300 Jan 02 j 08:28	30° $\mathcal{R}\Upsilon$		min. Earth dist.	-11294 Feb 05 j 18:03	26° \mathcal{B} 53'59	17.99269 AU
min. Earth dist.	-11300 Jan 09 j 07:48	29° Υ 42'32	0°48'24	direct	-11294 Apr 24 j 08:22	24° \mathcal{B} 51'15	
direct	-11300 Jan 09 j 08:44	29° Υ 42'26	17.59157 AU	evening set	-11294 Jul 25 j 23:12	28° \mathcal{B} 07'42	
evening set	-11300 Mar 26 j 14:21	27° Υ 38'50		conjunction	-11294 Aug 10 j 11:51	29° \mathcal{B} 04'33	1°05'53
conjunction	-11300 Jun 10 j 22:54	0° \mathcal{B}		minimum elong	-11294 Aug 10 j 11:51	29° \mathcal{B} 04'33	1°06'23
conjunction	-11300 Jun 28 j 22:13	1° \mathcal{B} 03'24		max. Earth dist.	-11294 Aug 11 j 04:14	29° \mathcal{B} 07'04	20.02965 AU
minimum elong	-11300 Jul 14 j 14:44	2° \mathcal{B} 02'08	0°45'43		-11294 Aug 25 j 15:02	0° \mathcal{I}	
max. Earth dist.	-11300 Jul 14 j 14:44	2° \mathcal{B} 02'08	0°46'02	morning rise	-11294 Aug 26 j 00:13	0° \mathcal{I} 01'23	
morning rise	-11300 Jul 30 j 05:09	3° \mathcal{B} 00'34		retrograde	-11294 Nov 26 j 12:38	3° \mathcal{I} 17'49	
retrograde	-11300 Oct 29 j 19:39	6° \mathcal{B} 20'22		opposition	-11293 Feb 11 j 06:51	1° \mathcal{I} 17'17	1°14'24
opposition	-11299 Jan 13 j 09:59	4° \mathcal{B} 19'12	0°53'19	min. Earth dist.	-11293 Feb 10 j 14:21	1° \mathcal{I} 18'59	18.06731 AU
min. Earth dist.	-11299 Jan 13 j 09:09	4° \mathcal{B} 19'18	17.65021 AU	direct	-11293 Mar 17 j 10:04	30° $\mathcal{R}\mathcal{B}$	
direct	-11299 Mar 31 j 14:19	2° \mathcal{B} 15'51		evening set	-11293 Apr 29 j 03:38	29° \mathcal{B} 16'35	
evening set	-11299 Jul 03 j 16:49	5° \mathcal{B} 39'07			-11293 Jun 09 j 07:26	0° \mathcal{I}	
conjunction	-11299 Jul 19 j 08:26	6° \mathcal{B} 37'32	0°49'59	conjunction	-11293 Aug 15 j 00:32	3° \mathcal{I} 28'13	1°07'53
minimum elong	-11299 Jul 19 j 08:26	6° \mathcal{B} 37'31	0°50'19	minimum elong	-11293 Aug 15 j 00:32	3° \mathcal{I} 28'13	1°08'26
max. Earth dist.	-11299 Jul 19 j 10:50	6° \mathcal{B} 37'54	19.68085 AU	max. Earth dist.	-11293 Aug 15 j 18:13	3° \mathcal{I} 30'55	20.10451 AU
morning rise	-11299 Aug 03 j 22:20	7° \mathcal{B} 35'41		morning rise	-11293 Aug 30 j 13:01	4° \mathcal{I} 24'48	
retrograde	-11299 Nov 03 j 17:22	10° \mathcal{B} 54'57		retrograde	-11293 Dec 01 j 06:31	7° \mathcal{I} 40'39	
opposition	-11298 Jan 18 j 11:08	8° \mathcal{B} 53'50	0°57'53	min. Earth dist.	-11292 Feb 15 j 08:19	5° \mathcal{I} 42'14	18.14226 AU
min. Earth dist.	-11298 Jan 18 j 06:30	8° \mathcal{B} 54'19	17.71248 AU	opposition	-11292 Feb 16 j 03:41	5° \mathcal{I} 40'15	1°16'22
direct	-11298 Apr 05 j 15:35	6° \mathcal{B} 50'51		direct	-11292 May 02 j 23:26	3° \mathcal{I} 40'00	
evening set	-11298 Jul 08 j 10:22	10° \mathcal{B} 12'47		evening set	-11292 Aug 03 j 00:28	6° \mathcal{I} 53'43	
conjunction	-11298 Jul 24 j 01:15	11° \mathcal{B} 10'52	0°53'55	conjunction	-11292 Aug 18 j 12:33	7° \mathcal{I} 49'59	1°09'28
minimum elong	-11298 Jul 24 j 01:14	11° \mathcal{B} 10'52	0°54'18	minimum elong	-11292 Aug 18 j 12:33	7° \mathcal{I} 49'59	1°10'01
max. Earth dist.	-11298 Jul 24 j 06:52	11° \mathcal{B} 11'45	19.74482 AU	max. Earth dist.	-11292 Aug 19 j 09:16	7° \mathcal{I} 53'09	20.17912 AU
morning rise	-11298 Aug 08 j 14:36	12° \mathcal{B} 08'46		morning rise	-11292 Sep 03 j 01:00	8° \mathcal{I} 46'20	
retrograde	-11298 Oct 07 j 10:01	15° \mathcal{B}		retrograde	-11292 Dec 04 j 21:06	12° \mathcal{I} 01'36	
retrograde	-11298 Nov 08 j 11:36	15° \mathcal{B} 27'28		opposition	-11291 Feb 19 j 23:48	10° \mathcal{I} 01'19	1°17'52
opposition	-11298 Dec 11 j 13:49	15° $\mathcal{R}\mathcal{B}$		min. Earth dist.	-11291 Feb 19 j 03:19	10° \mathcal{I} 03'24	18.21654 AU
min. Earth dist.	-11297 Jan 23 j 11:49	13° \mathcal{B} 26'26	1°02'02	direct	-11291 May 07 j 17:22	8° \mathcal{I} 01'30	
direct	-11297 Jan 23 j 05:27	13° \mathcal{B} 27'05	17.77827 AU	evening set	-11291 Aug 07 j 12:03	11° \mathcal{I} 13'51	
evening set	-11297 Apr 10 j 13:56	11° \mathcal{B} 23'51		conjunction	-11291 Aug 22 j 23:53	12° \mathcal{I} 09'51	1°10'39
conjunction	-11297 Jul 13 j 02:57	14° \mathcal{B} 44'26		minimum elong	-11291 Aug 22 j 23:53	12° \mathcal{I} 09'51	1°11'14
conjunction	-11297 Jul 17 j 08:51	15° \mathcal{B}		max. Earth dist.	-11291 Aug 23 j 21:22	12° \mathcal{I} 13'07	20.25284 AU
minimum elong	-11297 Jul 28 j 17:03	15° \mathcal{B} 42'12	0°57'29	morning rise	-11291 Sep 07 j 12:40	13° \mathcal{I} 05'59	
max. Earth dist.	-11297 Jul 28 j 17:02	15° \mathcal{B} 42'12	0°57'53	retrograde	-11291 Dec 09 j 13:08	16° \mathcal{I} 20'37	
morning rise	-11297 Aug 13 j 06:05	16° \mathcal{B} 39'49		opposition	-11290 Feb 24 j 18:45	14° \mathcal{I} 20'27	1°18'55
retrograde	-11297 Nov 13 j 08:32	19° \mathcal{B} 57'58		min. Earth dist.	-11290 Feb 23 j 20:03	14° \mathcal{I} 22'45	18.28965 AU
opposition	-11296 Jan 28 j 11:40	17° \mathcal{B} 57'01	1°05'47	direct	-11290 May 12 j 10:43	12° \mathcal{I} 21'01	
min. Earth dist.	-11296 Jan 28 j 01:26	17° \mathcal{B} 58'05	17.84730 AU	evening set	-11290 Aug 11 j 22:41	15° \mathcal{I} 32'02	
direct	-11296 Apr 14 j 13:35	15° \mathcal{B} 54'54		conjunction	-11290 Aug 27 j 10:38	16° \mathcal{I} 27'47	1°11'25
evening set	-11296 Jul 16 j 18:36	19° \mathcal{B} 14'07		minimum elong	-11290 Aug 27 j 10:38	16° \mathcal{I} 27'47	1°12'01
conjunction	-11296 Aug 01 j 08:10	20° \mathcal{B} 11'34	1°00'40	max. Earth dist.	-11290 Aug 28 j 10:44	16° \mathcal{I} 31'25	20.32495 AU
minimum elong	-11296 Aug 01 j 08:10	20° \mathcal{B} 11'34	1°01'07	morning rise	-11290 Sep 11 j 23:32	17° \mathcal{I} 23'42	
max. Earth dist.	-11296 Aug 01 j 19:28	20° \mathcal{B} 13'19	19.88269 AU	retrograde	-11290 Dec 14 j 02:39	20° \mathcal{I} 37'43	
morning rise	-11296 Aug 16 j 20:49	21° \mathcal{B} 08'54		opposition	-11289 Mar 01 j 13:00	18° \mathcal{I} 37'38	1°19'30
				min. Earth dist.	-11289 Feb 28 j 13:17	18° \mathcal{I} 40'02	18.36080 AU
				direct	-11289 May 17 j 03:08	16° \mathcal{I} 38'34	

Attention, astronomical year style is used: The year -11289 in astronomical counting style is the year 11290 BCE in historical counting style.

evening set	-11289 Aug 16 j 08:33	19°II48'15		max. Earth dist.	-11283 Sep 26 j 03:11	15°☾44'50	20.77443 AU
				morning rise	-11283 Oct 10 j 12:05	16°☾34'56	
conjunction	-11289 Aug 31 j 20:24	20°II43'45	1°11'46	retrograde	-11282 Jan 12 j 12:02	19°☾44'50	
minimum elong	-11289 Aug 31 j 20:24	20°II43'45	1°12'23	min. Earth dist.	-11282 Mar 30 j 10:25	17°☾48'18	18.80370 AU
max. Earth dist.	-11289 Sep 01 j 20:59	20°II47'27	20.39509 AU	opposition	-11282 Mar 31 j 18:31	17°☾45'05	1°11'59
morning rise	-11289 Sep 16 j 09:49	21°II39'28		direct	-11282 Jun 15 j 15:52	15°☾48'00	
retrograde	-11289 Dec 18 j 16:34	24°II52'52		evening set	-11282 Sep 13 j 10:04	18°☾49'43	
min. Earth dist.	-11288 Mar 04 j 04:48	22°II55'24	18.42998 AU				
opposition	-11288 Mar 05 j 06:21	22°II52'50	1°19'39	conjunction	-11282 Sep 29 j 01:00	19°☾44'00	1°03'55
direct	-11288 May 20 j 18:14	20°II54'05		minimum elong	-11282 Sep 29 j 01:01	19°☾44'00	1°04'31
evening set	-11288 Aug 19 j 17:33	24°II02'28		max. Earth dist.	-11282 Sep 30 j 11:20	19°☾49'01	20.83067 AU
				morning rise	-11282 Oct 14 j 18:58	20°☾38'44	
conjunction	-11288 Sep 04 j 05:45	24°II57'45	1°11'44	retrograde	-11281 Jan 16 j 21:59	23°☾48'10	
minimum elong	-11288 Sep 04 j 05:44	24°II57'45	1°12'22	min. Earth dist.	-11281 Apr 03 j 20:42	21°☾51'49	18.85850 AU
max. Earth dist.	-11288 Sep 05 j 08:52	25°II01'49	20.46310 AU	opposition	-11281 Apr 05 j 05:41	21°☾48'31	1°09'25
morning rise	-11288 Sep 19 j 19:28	25°II53'17		direct	-11281 Jun 20 j 00:47	19°☾51'43	
retrograde	-11288 Dec 22 j 04:57	29°II06'03		evening set	-11281 Sep 17 j 15:08	22°☾52'34	
opposition	-11287 Mar 09 j 22:40	27°II06'02	1°19'22				
min. Earth dist.	-11287 Mar 08 j 20:03	27°II08'43	18.49693 AU	conjunction	-11281 Oct 03 j 06:37	23°☾46'44	1°01'28
direct	-11287 May 25 j 08:54	25°II07'35		minimum elong	-11281 Oct 03 j 06:37	23°☾46'44	1°02'04
evening set	-11287 Aug 24 j 01:55	28°II14'42		max. Earth dist.	-11281 Oct 04 j 16:33	23°☾51'40	20.88402 AU
				morning rise	-11281 Oct 19 j 01:41	24°☾41'24	
conjunction	-11287 Sep 08 j 14:14	29°II09'47	1°11'19	retrograde	-11280 Jan 21 j 07:43	27°☾50'24	
minimum elong	-11287 Sep 08 j 14:14	29°II09'47	1°11'57	min. Earth dist.	-11280 Apr 07 j 07:21	25°☾54'09	18.91023 AU
max. Earth dist.	-11287 Sep 09 j 17:40	29°II13'52	20.52905 AU	opposition	-11280 Apr 08 j 16:20	25°☾50'51	1°06'30
	-11287 Sep 22 j 17:23	0°☾		direct	-11280 Jun 23 j 07:59	23°☾54'19	
morning rise	-11287 Sep 24 j 04:41	0°☾05'08		evening set	-11280 Sep 20 j 19:58	26°☾54'21	
retrograde	-11287 Dec 26 j 17:06	3°☾17'17					
min. Earth dist.	-11286 Mar 13 j 10:00	1°☾20'07	18.56197 AU	conjunction	-11280 Oct 06 j 12:24	27°☾48'27	0°58'42
opposition	-11286 Mar 14 j 14:02	1°☾17'18	1°18'40	minimum elong	-11280 Oct 06 j 12:24	27°☾48'27	0°59'17
	-11286 Apr 18 j 09:17	30°☾II		max. Earth dist.	-11280 Oct 07 j 23:48	27°☾53'35	20.93387 AU
direct	-11286 May 29 j 21:38	29°II19'06		morning rise	-11280 Oct 22 j 08:15	28°☾43'03	
	-11286 Jul 08 j 21:27	0°☾			-11280 Nov 15 j 12:00	0°☾	
evening set	-11286 Aug 28 j 09:24	2°☾25'01		retrograde	-11279 Jan 24 j 17:31	1°☾51'38	
					-11279 Apr 09 j 19:56	30°☾☾	
conjunction	-11286 Sep 12 j 22:11	3°☾19'54	1°10'32	min. Earth dist.	-11279 Apr 11 j 16:40	29°☾55'32	18.95802 AU
minimum elong	-11286 Sep 12 j 22:11	3°☾19'54	1°11'10	opposition	-11279 Apr 13 j 02:03	29°☾52'11	1°03'16
max. Earth dist.	-11286 Sep 14 j 04:07	3°☾24'20	20.59301 AU	direct	-11279 Jun 27 j 16:17	27°☾55'53	
morning rise	-11286 Sep 28 j 13:02	4°☾15'06			-11279 Sep 08 j 00:35	0°☾	
retrograde	-11286 Dec 31 j 04:01	7°☾26'38		evening set	-11279 Sep 25 j 00:46	0°☾55'12	
min. Earth dist.	-11285 Mar 17 j 23:08	5°☾29'37	18.62503 AU				
opposition	-11285 Mar 19 j 04:22	5°☾26'41	1°17'34	conjunction	-11279 Oct 10 j 17:52	1°☾49'14	0°55'40
direct	-11285 Jun 03 j 10:01	3°☾28'46		minimum elong	-11279 Oct 10 j 17:53	1°☾49'14	0°56'14
evening set	-11285 Sep 01 j 16:26	6°☾33'31		max. Earth dist.	-11279 Oct 12 j 04:15	1°☾54'11	20.97953 AU
				morning rise	-11279 Oct 26 j 14:54	2°☾43'47	
conjunction	-11285 Sep 17 j 05:28	7°☾28'13	1°09'23	retrograde	-11278 Jan 29 j 02:22	5°☾52'00	
minimum elong	-11285 Sep 17 j 05:28	7°☾28'13	1°10'00	min. Earth dist.	-11278 Apr 16 j 02:42	3°☾55'53	19.00141 AU
max. Earth dist.	-11285 Sep 18 j 11:38	7°☾32'40	20.65526 AU	opposition	-11278 Apr 17 j 11:22	3°☾52'37	0°59'45
morning rise	-11285 Oct 02 j 21:10	8°☾23'17		direct	-11278 Jul 01 j 21:59	1°☾56'31	
retrograde	-11284 Jan 04 j 15:18	11°☾34'15		evening set	-11278 Sep 29 j 05:11	4°☾55'10	
min. Earth dist.	-11284 Mar 21 j 11:36	9°☾37'23	18.68656 AU				
opposition	-11284 Mar 22 j 18:00	9°☾34'20	1°16'05	conjunction	-11278 Oct 14 j 23:18	5°☾49'09	0°52'22
direct	-11284 Jun 06 j 20:47	7°☾36'41		minimum elong	-11278 Oct 14 j 23:18	5°☾49'09	0°52'54
evening set	-11284 Sep 04 j 22:40	10°☾40'21		max. Earth dist.	-11278 Oct 16 j 10:37	5°☾54'14	21.02039 AU
				morning rise	-11278 Oct 30 j 21:10	6°☾43'40	
conjunction	-11284 Sep 20 j 12:23	11°☾34'54	1°07'54	retrograde	-11277 Feb 02 j 11:27	9°☾51'32	
minimum elong	-11284 Sep 20 j 12:23	11°☾34'54	1°08'31	min. Earth dist.	-11277 Apr 20 j 11:12	7°☾55'29	19.03961 AU
max. Earth dist.	-11284 Sep 21 j 20:52	11°☾39'40	20.71583 AU	opposition	-11277 Apr 21 j 19:59	7°☾52'12	0°55'57
morning rise	-11284 Oct 06 j 04:40	12°☾29'50		direct	-11277 Jul 06 j 05:48	5°☾56'17	
retrograde	-11283 Jan 08 j 01:34	15°☾40'15		evening set	-11277 Oct 03 j 09:43	8°☾54'19	
min. Earth dist.	-11283 Mar 25 j 23:09	13°☾43'34	18.74615 AU				
opposition	-11283 Mar 27 j 06:42	13°☾40'24	1°14'13	conjunction	-11277 Oct 19 j 04:36	9°☾48'16	0°48'50
direct	-11283 Jun 11 j 06:57	11°☾43'03		minimum elong	-11277 Oct 19 j 04:36	9°☾48'16	0°49'21
evening set	-11283 Sep 09 j 04:41	14°☾45'42		max. Earth dist.	-11277 Oct 20 j 14:25	9°☾53'07	21.05598 AU
				morning rise	-11277 Nov 04 j 03:42	10°☾42'46	
conjunction	-11283 Sep 24 j 18:49	15°☾40'06	1°06'04	retrograde	-11276 Feb 06 j 19:40	13°☾50'18	
minimum elong	-11283 Sep 24 j 18:49	15°☾40'06	1°06'41	min. Earth dist.	-11276 Apr 23 j 20:34	11°☾54'10	19.07246 AU

Attention, astronomical year style is used: The year -11276 in astronomical counting style is the year 11277 BCE in historical counting style.

opposition	-11276 Apr 25 j 04:11	11°Ω51'00	0°51'53	direct	-11270 Aug 02 j 15:07	3°♊34'14	
direct	-11276 Jul 09 j 10:37	9°Ω55'10		evening set	-11270 Oct 30 j 15:23	6°♊30'05	
evening set	-11276 Oct 06 j 13:56	12°Ω52'39					
				conjunction	-11270 Nov 15 j 17:51	7°♊24'18	0°18'56
conjunction	-11276 Oct 22 j 10:00	13°Ω46'36	0°45'04	minimum elong	-11270 Nov 15 j 17:51	7°♊24'18	0°19'14
minimum elong	-11276 Oct 22 j 10:01	13°Ω46'36	0°45'33	max. Earth dist.	-11270 Nov 16 j 23:22	7°♊28'28	21.15988 AU
max. Earth dist.	-11276 Oct 23 j 20:17	13°Ω51'30	21.08601 AU	morning rise	-11270 Dec 02 j 00:36	8°♊19'08	
morning rise	-11276 Nov 07 j 10:04	14°Ω41'07		retrograde	-11269 Mar 06 j 23:43	11°♊25'15	
	-11276 Nov 13 j 03:03	15°Ω		opposition	-11269 May 23 j 23:02	9°♊25'40	0°18'14
retrograde	-11275 Feb 10 j 03:47	17°Ω48'19		min. Earth dist.	-11269 May 22 j 20:54	9°♊28'19	19.15949 AU
min. Earth dist.	-11275 Apr 28 j 04:14	15°Ω52'09	19.09952 AU	direct	-11269 Aug 06 j 19:18	7°♊29'44	
opposition	-11275 Apr 29 j 11:42	15°Ω49'00	0°47'36	evening set	-11269 Nov 03 j 20:17	10°♊25'37	
	-11275 May 20 j 12:44	15°♊Ω					
direct	-11275 Jul 13 j 17:44	13°Ω53'14		conjunction	-11269 Nov 19 j 23:42	11°♊19'57	0°14'10
	-11275 Sep 03 j 14:21	15°Ω		minimum elong	-11269 Nov 19 j 23:42	11°♊19'57	0°14'25
evening set	-11275 Oct 10 j 18:18	16°Ω50'15		behind sun begin	-11269 Nov 19 j 20:45	11°♊19'32	
				behind sun end	-11269 Nov 20 j 02:39	11°♊20'21	
conjunction	-11275 Oct 26 j 15:12	17°Ω44'11	0°41'06	max. Earth dist.	-11269 Nov 21 j 03:00	11°♊23'48	21.15732 AU
minimum elong	-11275 Oct 26 j 15:12	17°Ω44'11	0°41'33	morning rise	-11269 Dec 06 j 07:44	12°♊14'53	
max. Earth dist.	-11275 Oct 27 j 23:40	17°Ω48'49	21.11032 AU	retrograde	-11268 Mar 10 j 06:14	15°♊21'01	
morning rise	-11275 Nov 11 j 16:32	18°Ω38'43		min. Earth dist.	-11268 May 26 j 03:51	13°♊23'52	19.15487 AU
retrograde	-11274 Feb 14 j 11:28	21°Ω45'38		opposition	-11268 May 27 j 03:56	13°♊21'26	0°12'54
opposition	-11274 May 03 j 18:40	19°Ω46'16	0°43'06	direct	-11268 Aug 09 j 21:53	11°♊25'27	
min. Earth dist.	-11274 May 02 j 12:41	19°Ω49'17	19.12110 AU	evening set	-11268 Nov 07 j 01:25	14°♊21'28	
direct	-11274 Jul 17 j 21:54	17°Ω50'30					
evening set	-11274 Oct 14 j 22:21	20°Ω47'07		conjunction	-11268 Nov 23 j 06:09	15°♊15'55	0°09'20
				minimum elong	-11268 Nov 23 j 06:09	15°♊15'55	0°09'32
conjunction	-11274 Oct 30 j 20:27	21°Ω41'05	0°36'57	behind sun begin	-11268 Nov 23 j 00:38	15°♊15'10	
minimum elong	-11274 Oct 30 j 20:28	21°Ω41'05	0°37'22	behind sun end	-11268 Nov 23 j 11:40	15°♊16'41	
max. Earth dist.	-11274 Nov 01 j 05:18	21°Ω45'45	21.12932 AU	max. Earth dist.	-11268 Nov 24 j 09:10	15°♊19'44	21.15062 AU
morning rise	-11274 Nov 15 j 22:44	22°Ω35'38		morning rise	-11268 Dec 09 j 15:06	16°♊10'59	
retrograde	-11273 Feb 18 j 18:34	25°Ω42'17		retrograde	-11267 Mar 14 j 14:56	19°♊17'09	
min. Earth dist.	-11273 May 06 j 19:13	23°Ω45'53	19.13748 AU	min. Earth dist.	-11267 May 30 j 09:13	17°♊19'58	19.14584 AU
opposition	-11273 May 08 j 01:06	23°Ω42'53	0°38'25	opposition	-11267 May 31 j 08:37	17°♊17'35	0°07'30
direct	-11273 Jul 22 j 03:46	21°Ω47'06		direct	-11267 Aug 14 j 02:22	15°♊21'33	
evening set	-11273 Oct 19 j 02:26	24°Ω43'22		evening set	-11267 Nov 11 j 07:09	18°♊17'48	
conjunction	-11273 Nov 04 j 01:28	25°Ω37'22	0°32'38	conjunction	-11267 Nov 27 j 12:47	19°♊12'23	0°04'27
minimum elong	-11273 Nov 04 j 01:28	25°Ω37'22	0°33'01	minimum elong	-11267 Nov 27 j 12:47	19°♊12'23	0°04'37
max. Earth dist.	-11273 Nov 05 j 08:32	25°Ω41'47	21.14339 AU	behind sun begin	-11267 Nov 27 j 06:15	19°♊11'29	
morning rise	-11273 Nov 20 j 05:04	26°Ω31'58		behind sun end	-11267 Nov 27 j 19:19	19°♊13'17	
retrograde	-11272 Feb 23 j 01:58	29°Ω38'25		max. Earth dist.	-11267 Nov 28 j 13:09	19°♊15'49	21.13935 AU
min. Earth dist.	-11272 May 10 j 02:53	27°Ω41'47	19.14928 AU	morning rise	-11267 Dec 13 j 22:55	20°♊07'35	
opposition	-11272 May 11 j 07:14	27°Ω38'56	0°33'34	retrograde	-11266 Mar 18 j 21:23	23°♊13'52	
direct	-11272 Jul 25 j 07:22	25°Ω43'07		opposition	-11266 Jun 04 j 13:20	21°♊14'18	0°02'03
evening set	-11272 Oct 22 j 06:37	28°Ω39'09		min. Earth dist.	-11266 Jun 03 j 16:23	21°♊16'26	19.13222 AU
				direct	-11266 Aug 18 j 04:37	19°♊18'11	
conjunction	-11272 Nov 07 j 06:54	29°Ω33'13	0°28'12	desc. node	-11266 Oct 19 j 07:10	20°♊51'09	
minimum elong	-11272 Nov 07 j 06:54	29°Ω33'13	0°28'33	evening set	-11266 Nov 15 j 13:14	22°♊14'44	
max. Earth dist.	-11272 Nov 08 j 14:15	29°Ω37'40	21.15300 AU				
	-11272 Nov 15 j 03:59	0°♊		conjunction	-11266 Dec 01 j 20:07	23°♊09'29	-0°00'35
morning rise	-11272 Nov 23 j 11:27	0°♊27'53		minimum elong	-11266 Dec 01 j 20:07	23°♊09'29	0°00'29
retrograde	-11271 Feb 26 j 08:59	3°♊34'09		behind sun begin	-11266 Dec 01 j 13:28	23°♊08'34	
min. Earth dist.	-11271 May 14 j 08:31	1°♊37'28	19.15670 AU	behind sun end	-11266 Dec 02 j 02:47	23°♊10'24	
opposition	-11271 May 15 j 12:39	1°♊34'38	0°28'35	max. Earth dist.	-11266 Dec 02 j 19:45	23°♊12'49	21.12333 AU
	-11271 Jun 30 j 06:14	30°♊Ω		morning rise	-11266 Dec 18 j 07:06	24°♊04'49	
direct	-11271 Jul 29 j 12:00	29°Ω38'46		retrograde	-11265 Mar 23 j 06:16	27°♊11'14	
	-11271 Aug 27 j 05:52	0°♊		opposition	-11265 Jun 08 j 17:57	25°♊11'41	-0°03'25
evening set	-11271 Oct 26 j 11:03	2°♊34'40		min. Earth dist.	-11265 Jun 07 j 21:59	25°♊13'43	19.11355 AU
				direct	-11265 Aug 22 j 09:44	23°♊15'28	
conjunction	-11271 Nov 11 j 12:15	3°♊28'47	0°23'37	evening set	-11265 Nov 19 j 20:00	26°♊12'24	
minimum elong	-11271 Nov 11 j 12:16	3°♊28'47	0°23'56				
max. Earth dist.	-11271 Nov 12 j 17:38	3°♊32'57	21.15843 AU	conjunction	-11265 Dec 06 j 03:51	27°♊07'19	-0°05'35
morning rise	-11271 Nov 27 j 18:05	4°♊23'32		minimum elong	-11265 Dec 06 j 03:50	27°♊07'19	0°05'30
retrograde	-11270 Mar 02 j 15:52	7°♊29'42		behind sun begin	-11265 Dec 05 j 21:23	27°♊06'25	
opposition	-11270 May 19 j 18:01	5°♊30'08	0°23'28	behind sun end	-11265 Dec 06 j 10:16	27°♊08'12	
min. Earth dist.	-11270 May 18 j 15:36	5°♊32'48	19.16013 AU	max. Earth dist.	-11265 Dec 07 j 00:19	27°♊10'12	21.10205 AU

Attention, astronomical year style is used: The year -11265 in astronomical counting style is the year 11266 BCE in historical counting style.

morning rise	-11265 Dec 22 j 15:58	28° <u>02</u> '48		morning rise	-11258 Jan 16 j 07:43	22° <u>08</u> '13	
	-11264 Jan 31 j 17:45	0° <u>00</u> '		retrograde	-11258 Apr 20 j 18:15	25° <u>16</u> '22	
retrograde	-11264 Mar 26 j 13:27	1° <u>09</u> '24		opposition	-11258 Jul 06 j 06:07	23° <u>16</u> '04	-0°40'14
	-11264 May 21 j 18:33	30° <u>08</u> '		min. Earth dist.	-11258 Jul 06 j 01:47	23° <u>16</u> '31	18.83423 AU
opposition	-11264 Jun 11 j 22:51	29° <u>09</u> '49	-0°08'53	direct	-11258 Sep 18 j 19:52	21° <u>17</u> '49	
min. Earth dist.	-11264 Jun 11 j 05:43	29° <u>11</u> '34	19.08951 AU	evening set	-11258 Dec 18 j 12:03	24° <u>19</u> '17	
direct	-11264 Aug 25 j 12:29	27° <u>13</u> '26					
	-11264 Nov 19 j 20:20	0° <u>00</u> '		conjunction	-11257 Jan 04 j 02:48	25° <u>15</u> '42	-0°38'30
evening set	-11264 Nov 23 j 03:21	0° <u>10</u> '49		minimum elong	-11257 Jan 04 j 02:48	25° <u>15</u> '42	0°38'43
				max. Earth dist.	-11257 Jan 04 j 07:31	25° <u>16</u> '23	20.80643 AU
conjunction	-11264 Dec 09 j 12:25	1° <u>05</u> '55	-0°10'30	morning rise	-11257 Jan 20 j 20:13	26° <u>12</u> '32	
minimum elong	-11264 Dec 09 j 12:25	1° <u>05</u> '55	0°10'29	retrograde	-11257 Apr 25 j 05:23	29° <u>21</u> '05	
behind sun begin	-11264 Dec 09 j 07:13	1° <u>05</u> '12		opposition	-11257 Jul 10 j 12:02	27° <u>20</u> '38	-0°44'59
behind sun end	-11264 Dec 09 j 17:37	1° <u>06</u> '38		min. Earth dist.	-11257 Jul 10 j 08:46	27° <u>20</u> '58	18.77796 AU
max. Earth dist.	-11264 Dec 10 j 07:36	1° <u>08</u> '38	21.07518 AU	direct	-11257 Sep 23 j 03:17	25° <u>22</u> '01	
morning rise	-11264 Dec 26 j 01:18	2° <u>01</u> '35		evening set	-11257 Dec 23 j 00:01	28° <u>24</u> '26	
retrograde	-11263 Mar 30 j 22:23	5° <u>08</u> '22					
min. Earth dist.	-11263 Jun 15 j 11:43	3° <u>10</u> '21	19.05966 AU	conjunction	-11256 Jan 08 j 15:26	29° <u>21</u> '07	-0°42'41
opposition	-11263 Jun 16 j 03:33	3° <u>08</u> '44	-0°14'20	minimum elong	-11256 Jan 08 j 15:26	29° <u>21</u> '07	0°42'58
direct	-11263 Aug 29 j 18:06	1° <u>12</u> '09		max. Earth dist.	-11256 Jan 08 j 16:52	29° <u>21</u> '19	20.74885 AU
evening set	-11263 Nov 27 j 11:24	4° <u>10</u> '03			-11256 Jan 20 j 00:09	0° <u>00</u> '	
				morning rise	-11256 Jan 25 j 09:30	0° <u>18</u> '11	
conjunction	-11263 Dec 13 j 21:20	5° <u>05</u> '20	-0°15'24	retrograde	-11256 Apr 28 j 15:16	3° <u>27</u> '09	
minimum elong	-11263 Dec 13 j 21:20	5° <u>05</u> '20	0°15'24	opposition	-11256 Jul 13 j 18:34	1° <u>26</u> '35	-0°49'32
behind sun begin	-11263 Dec 13 j 19:43	5° <u>05</u> '07		min. Earth dist.	-11256 Jul 13 j 18:16	1° <u>26</u> '37	18.71924 AU
behind sun end	-11263 Dec 13 j 22:57	5° <u>05</u> '34			-11256 Aug 21 j 09:44	30° <u>08</u> '	
max. Earth dist.	-11263 Dec 14 j 13:00	5° <u>07</u> '33	21.04250 AU	direct	-11256 Sep 26 j 09:14	29° <u>27</u> '35	
morning rise	-11263 Dec 30 j 11:16	6° <u>01</u> '11			-11256 Oct 31 j 22:36	0° <u>00</u> '	
retrograde	-11262 Apr 04 j 06:10	9° <u>08</u> '11		evening set	-11256 Dec 26 j 12:43	2° <u>31</u> '03	
opposition	-11262 Jun 20 j 08:40	7° <u>08</u> '27	-0°19'44				
min. Earth dist.	-11262 Jun 19 j 19:49	7° <u>09</u> '46	19.02415 AU	conjunction	-11255 Jan 12 j 05:00	3° <u>28</u> '00	-0°46'41
direct	-11262 Sep 02 j 21:44	5° <u>11</u> '36		minimum elong	-11255 Jan 12 j 05:00	3° <u>27</u> '59	0°46'59
evening set	-11262 Dec 01 j 19:40	8° <u>10</u> '04		max. Earth dist.	-11255 Jan 12 j 04:51	3° <u>27</u> '58	20.68902 AU
				morning rise	-11255 Jan 28 j 23:24	4° <u>25</u> '17	
conjunction	-11262 Dec 18 j 06:47	9° <u>05</u> '35	-0°20'14	retrograde	-11255 May 03 j 03:40	7° <u>34</u> '44	
minimum elong	-11262 Dec 18 j 06:47	9° <u>05</u> '35	0°20'17	opposition	-11255 Jul 18 j 01:22	5° <u>34</u> '04	-0°53'52
max. Earth dist.	-11262 Dec 18 j 21:05	9° <u>07</u> '36	21.00429 AU	min. Earth dist.	-11255 Jul 18 j 02:06	5° <u>34</u> '00	18.65832 AU
morning rise	-11261 Jan 03 j 21:25	10° <u>01</u> '35		direct	-11255 Sep 30 j 17:35	3° <u>34</u> '44	
retrograde	-11261 Apr 08 j 15:19	13° <u>08</u> '50		evening set	-11255 Dec 31 j 02:26	6° <u>39</u> '17	
opposition	-11261 Jun 24 j 13:44	11° <u>08</u> '59	-0°25'02				
min. Earth dist.	-11261 Jun 24 j 02:09	11° <u>10</u> '11	18.98320 AU	conjunction	-11254 Jan 16 j 19:15	7° <u>36</u> '31	-0°50'29
direct	-11261 Sep 07 j 03:46	9° <u>11</u> '50		minimum elong	-11254 Jan 16 j 19:15	7° <u>36</u> '31	0°50'49
evening set	-11261 Dec 06 j 04:53	12° <u>10</u> '56		max. Earth dist.	-11254 Jan 16 j 15:53	7° <u>36</u> '02	20.62708 AU
				morning rise	-11254 Feb 02 j 14:06	8° <u>34</u> '03	
conjunction	-11261 Dec 22 j 16:50	13° <u>06</u> '39	-0°24'59	retrograde	-11254 May 07 j 15:01	11° <u>44</u> '01	
minimum elong	-11261 Dec 22 j 16:50	13° <u>06</u> '39	0°25'04	opposition	-11254 Jul 22 j 08:56	9° <u>43</u> '17	-0°57'57
max. Earth dist.	-11261 Dec 23 j 03:39	13° <u>08</u> '10	20.96090 AU	min. Earth dist.	-11254 Jul 22 j 12:40	9° <u>42</u> '54	18.59552 AU
morning rise	-11260 Jan 08 j 08:25	14° <u>02</u> '52		direct	-11254 Oct 05 j 00:45	7° <u>43</u> '36	
retrograde	-11260 Apr 11 j 23:33	17° <u>10</u> '22		evening set	-11253 Jan 04 j 16:47	10° <u>49</u> '20	
opposition	-11260 Jun 27 j 18:58	15° <u>10</u> '22	-0°30'15				
min. Earth dist.	-11260 Jun 27 j 10:29	15° <u>11</u> '15	18.93750 AU	conjunction	-11253 Jan 21 j 10:21	11° <u>46</u> '50	-0°54'02
direct	-11260 Sep 10 j 08:11	13° <u>12</u> '52		minimum elong	-11253 Jan 21 j 10:21	11° <u>46</u> '50	0°54'25
evening set	-11260 Dec 09 j 14:36	16° <u>12</u> '41		max. Earth dist.	-11253 Jan 21 j 05:14	11° <u>46</u> '06	20.56336 AU
				morning rise	-11253 Feb 07 j 05:28	12° <u>44</u> '37	
conjunction	-11260 Dec 26 j 03:40	17° <u>08</u> '38	-0°29'37		-11253 Mar 25 j 19:24	15° <u>00</u> '	
minimum elong	-11260 Dec 26 j 03:40	17° <u>08</u> '38	0°29'46	retrograde	-11253 May 12 j 04:48	15° <u>55</u> '09	
max. Earth dist.	-11260 Dec 26 j 13:03	17° <u>09</u> '57	20.91306 AU		-11253 Jun 29 j 06:24	15° <u>00</u> '	
morning rise	-11259 Jan 11 j 19:50	18° <u>05</u> '02		opposition	-11253 Jul 26 j 16:55	13° <u>54</u> '22	-1°01'46
retrograde	-11259 Apr 16 j 09:28	21° <u>12</u> '50		min. Earth dist.	-11253 Jul 26 j 21:49	13° <u>53</u> '51	18.53078 AU
opposition	-11259 Jul 02 j 00:21	19° <u>12</u> '41	-0°35'19	direct	-11253 Oct 09 j 10:25	11° <u>54</u> '20	
min. Earth dist.	-11259 Jul 01 j 17:04	19° <u>13</u> '26	18.88759 AU		-11252 Jan 08 j 23:12	15° <u>00</u> '	
direct	-11259 Sep 14 j 14:52	17° <u>14</u> '49		evening set	-11252 Jan 09 j 08:30	15° <u>01</u> '19	
evening set	-11259 Dec 14 j 01:02	20° <u>15</u> '25					
				conjunction	-11252 Jan 26 j 02:30	15° <u>59</u> '07	-0°57'19
conjunction	-11259 Dec 30 j 14:47	21° <u>11</u> '36	-0°34'08	minimum elong	-11252 Jan 26 j 02:30	15° <u>59</u> '07	0°57'43
minimum elong	-11259 Dec 30 j 14:47	21° <u>11</u> '36	0°34'20	max. Earth dist.	-11252 Jan 25 j 18:06	15° <u>57</u> '54	20.49754 AU
max. Earth dist.	-11259 Dec 30 j 20:53	21° <u>12</u> '27	20.86129 AU	morning rise	-11252 Feb 11 j 21:53	16° <u>57</u> '09	

Attention, astronomical year style is used: The year -11252 in astronomical counting style is the year 11253 BCE in historical counting style.

retrograde	-11252 May 15 j 17:40	20° \mathbb{M} 08'16		evening set	-11245 Feb 10 j 00:12	15° \mathbb{A} 21'19	
opposition	-11252 Jul 30 j 01:39	18° \mathbb{M} 07'26	-1°05'16				
min. Earth dist.	-11252 Jul 30 j 09:49	18° \mathbb{M} 06'34	18.46400 AU	conjunction	-11245 Feb 26 j 19:56	16° \mathbb{A} 21'09	-1°10'57
direct	-11252 Oct 12 j 19:04	16° \mathbb{M} 07'02		minimum elong	-11245 Feb 26 j 19:56	16° \mathbb{A} 21'09	1°11'33
evening set	-11251 Jan 13 j 01:07	19° \mathbb{M} 15'19		max. Earth dist.	-11245 Feb 25 j 17:44	16° \mathbb{A} 17'14	19.98663 AU
				morning rise	-11245 Mar 15 j 14:36	17° \mathbb{A} 20'52	
conjunction	-11251 Jan 29 j 19:41	20° \mathbb{M} 13'25	-1°00'18	retrograde	-11245 Jun 16 j 10:58	20° \mathbb{A} 36'14	
minimum elong	-11251 Jan 29 j 19:40	20° \mathbb{M} 13'25	1°00'46	opposition	-11245 Aug 29 j 11:32	18° \mathbb{A} 34'35	-1°19'12
max. Earth dist.	-11251 Jan 29 j 09:05	20° \mathbb{M} 11'53	20.42969 AU	min. Earth dist.	-11245 Aug 30 j 09:20	18° \mathbb{A} 32'14	17.94987 AU
morning rise	-11251 Feb 15 j 15:09	21° \mathbb{M} 11'42		direct	-11245 Nov 12 j 18:16	16° \mathbb{A} 31'03	
retrograde	-11251 May 20 j 09:04	24° \mathbb{M} 23'25		evening set	-11244 Feb 14 j 23:01	19° \mathbb{A} 49'00	
opposition	-11251 Aug 03 j 11:04	22° \mathbb{M} 22'32	-1°08'27				
min. Earth dist.	-11251 Aug 03 j 20:32	22° \mathbb{M} 21'32	18.39505 AU	conjunction	-11244 Mar 02 j 18:44	20° \mathbb{A} 49'06	-1°11'21
direct	-11251 Oct 17 j 06:39	20° \mathbb{M} 21'46		minimum elong	-11244 Mar 02 j 18:44	20° \mathbb{A} 49'06	1°11'58
evening set	-11250 Jan 17 j 18:40	23° \mathbb{M} 31'23		max. Earth dist.	-11244 Mar 01 j 15:11	20° \mathbb{A} 44'58	19.91248 AU
				morning rise	-11244 Mar 19 j 12:48	21° \mathbb{A} 49'02	
conjunction	-11250 Feb 03 j 13:32	24° \mathbb{M} 29'46	-1°02'59	retrograde	-11244 Jun 20 j 03:26	25° \mathbb{A} 04'59	
minimum elong	-11250 Feb 03 j 13:31	24° \mathbb{M} 29'46	1°03'28	opposition	-11244 Sep 02 j 02:25	23° \mathbb{A} 03'14	-1°19'26
max. Earth dist.	-11250 Feb 02 j 23:45	24° \mathbb{M} 27'45	20.35948 AU	min. Earth dist.	-11244 Sep 03 j 02:29	23° \mathbb{A} 00'37	17.87674 AU
morning rise	-11250 Feb 20 j 09:02	25° \mathbb{M} 28'18		direct	-11244 Nov 16 j 10:11	20° \mathbb{A} 59'14	
retrograde	-11250 May 24 j 23:02	28° \mathbb{M} 40'39		evening set	-11243 Feb 18 j 22:38	24° \mathbb{A} 18'36	
opposition	-11250 Aug 07 j 21:24	26° \mathbb{M} 39'41	-1°11'16				
min. Earth dist.	-11250 Aug 08 j 10:05	26° \mathbb{M} 38'20	18.32386 AU	conjunction	-11243 Mar 07 j 18:03	25° \mathbb{A} 18'57	-1°11'19
direct	-11250 Oct 21 j 16:47	24° \mathbb{M} 38'30		minimum elong	-11243 Mar 07 j 18:03	25° \mathbb{A} 18'57	1°11'56
evening set	-11249 Jan 22 j 13:11	27° \mathbb{M} 49'29		max. Earth dist.	-11243 Mar 06 j 12:17	25° \mathbb{A} 14'27	19.84050 AU
				morning rise	-11243 Mar 24 j 11:45	26° \mathbb{A} 19'04	
conjunction	-11249 Feb 08 j 08:26	28° \mathbb{M} 48'10	-1°05'20	retrograde	-11243 Jun 24 j 23:21	29° \mathbb{A} 35'38	
minimum elong	-11249 Feb 08 j 08:26	28° \mathbb{M} 48'10	1°05'51	opposition	-11243 Sep 06 j 18:09	27° \mathbb{A} 33'46	-1°19'11
max. Earth dist.	-11249 Feb 07 j 16:10	28° \mathbb{M} 45'46	20.28725 AU	min. Earth dist.	-11243 Sep 07 j 18:46	27° \mathbb{A} 31'05	17.80612 AU
morning rise	-11249 Feb 25 j 03:57	29° \mathbb{M} 46'56		direct	-11243 Nov 21 j 06:09	25° \mathbb{A} 29'21	
	-11249 Feb 28 j 23:47	0° \mathbb{A}		evening set	-11242 Feb 23 j 22:43	28° \mathbb{A} 50'05	
retrograde	-11249 May 29 j 15:53	2° \mathbb{A} 59'54		max. Earth dist.	-11242 Mar 11 j 11:45	29° \mathbb{A} 46'06	19.77117 AU
opposition	-11249 Aug 12 j 08:11	0° \mathbb{A} 58'50	-1°13'42				
min. Earth dist.	-11249 Aug 12 j 22:11	0° \mathbb{A} 57'20	18.25065 AU	conjunction	-11242 Mar 12 j 18:00	29° \mathbb{A} 50'41	-1°10'51
	-11249 Sep 05 j 07:23	30° \mathbb{M}		minimum elong	-11242 Mar 12 j 18:00	29° \mathbb{A} 50'41	1°11'27
direct	-11249 Oct 26 j 06:32	28° \mathbb{M} 57'12			-11242 Mar 15 j 07:29	0° \mathbb{B}	
	-11249 Dec 15 j 06:24	0° \mathbb{A}		morning rise	-11242 Mar 29 j 10:57	0° \mathbb{B} 51'00	
evening set	-11248 Jan 27 j 08:46	2° \mathbb{A} 09'34		retrograde	-11242 Jun 29 j 17:38	4° \mathbb{B} 08'11	
max. Earth dist.	-11248 Feb 12 j 09:04	3° \mathbb{A} 05'43	20.21306 AU	opposition	-11242 Sep 11 j 10:53	2° \mathbb{B} 06'14	-1°18'27
				min. Earth dist.	-11242 Sep 12 j 13:12	2° \mathbb{B} 03'22	17.73842 AU
conjunction	-11248 Feb 13 j 04:15	3° \mathbb{A} 08'33	-1°07'19	direct	-11242 Nov 26 j 00:28	0° \mathbb{B} 01'26	
minimum elong	-11248 Feb 13 j 04:15	3° \mathbb{A} 08'33	1°07'52	evening set	-11241 Feb 28 j 23:49	3° \mathbb{B} 23'33	
morning rise	-11248 Feb 29 j 23:38	4° \mathbb{A} 07'34		max. Earth dist.	-11241 Mar 16 j 10:11	4° \mathbb{B} 19'26	19.70520 AU
retrograde	-11248 Jun 02 j 06:44	7° \mathbb{A} 21'07					
opposition	-11248 Aug 15 j 20:00	5° \mathbb{A} 19'56	-1°15'44	conjunction	-11241 Mar 17 j 18:37	4° \mathbb{B} 24'22	-1°09'55
min. Earth dist.	-11248 Aug 16 j 13:08	5° \mathbb{A} 18'06	18.17582 AU	minimum elong	-11241 Mar 17 j 18:37	4° \mathbb{B} 24'22	1°10'33
direct	-11248 Oct 29 j 18:25	3° \mathbb{A} 17'50		morning rise	-11241 Apr 03 j 11:04	5° \mathbb{B} 24'52	
evening set	-11247 Jan 31 j 05:07	6° \mathbb{A} 31'35		retrograde	-11241 Jul 04 j 14:31	8° \mathbb{B} 42'39	
max. Earth dist.	-11247 Feb 16 j 03:03	7° \mathbb{A} 27'39	20.13772 AU	opposition	-11241 Sep 16 j 04:17	6° \mathbb{B} 40'39	-1°17'13
				min. Earth dist.	-11241 Sep 17 j 07:09	6° \mathbb{B} 37'44	17.67425 AU
conjunction	-11247 Feb 17 j 00:45	7° \mathbb{A} 30'52	-1°08'56	direct	-11241 Nov 30 j 21:31	4° \mathbb{B} 35'31	
minimum elong	-11247 Feb 17 j 00:45	7° \mathbb{A} 30'52	1°09'29	evening set	-11240 Mar 05 j 01:36	7° \mathbb{B} 58'59	
morning rise	-11247 Mar 05 j 19:59	8° \mathbb{A} 30'07		max. Earth dist.	-11240 Mar 20 j 11:41	8° \mathbb{B} 55'04	19.64276 AU
retrograde	-11247 Jun 07 j 00:31	11° \mathbb{A} 44'17					
opposition	-11247 Aug 20 j 08:20	9° \mathbb{A} 42'56	-1°17'20	conjunction	-11240 Mar 21 j 20:07	9° \mathbb{B} 00'01	-1°08'33
min. Earth dist.	-11247 Aug 21 j 02:33	9° \mathbb{A} 40'59	18.10018 AU	minimum elong	-11240 Mar 21 j 20:07	9° \mathbb{B} 00'01	1°09'11
direct	-11247 Nov 03 j 10:22	7° \mathbb{A} 40'22		morning rise	-11240 Apr 07 j 11:38	10° \mathbb{B} 00'41	
evening set	-11246 Feb 05 j 02:18	10° \mathbb{A} 55'31		retrograde	-11240 Jul 08 j 11:20	13° \mathbb{B} 19'03	
				opposition	-11240 Sep 19 j 22:55	11° \mathbb{B} 17'03	-1°15'28
conjunction	-11246 Feb 21 j 22:03	11° \mathbb{A} 55'04	-1°10'09	min. Earth dist.	-11240 Sep 21 j 03:04	11° \mathbb{B} 13'59	17.61363 AU
minimum elong	-11246 Feb 21 j 22:03	11° \mathbb{A} 55'04	1°10'44	direct	-11240 Dec 04 j 17:58	9° \mathbb{B} 11'38	
max. Earth dist.	-11246 Feb 20 j 22:14	11° \mathbb{A} 51'32	20.06187 AU	evening set	-11239 Mar 10 j 04:05	12° \mathbb{B} 36'24	
morning rise	-11246 Mar 10 j 16:55	12° \mathbb{A} 54'33		max. Earth dist.	-11239 Mar 25 j 11:27	13° \mathbb{B} 32'20	19.58403 AU
retrograde	-11246 Jun 11 j 16:09	16° \mathbb{A} 09'19					
opposition	-11246 Aug 24 j 21:36	14° \mathbb{A} 07'50	-1°18'30	conjunction	-11239 Mar 26 j 21:53	13° \mathbb{B} 37'38	-1°06'44
min. Earth dist.	-11246 Aug 25 j 18:32	14° \mathbb{A} 05'34	18.02457 AU	minimum elong	-11239 Mar 26 j 21:53	13° \mathbb{B} 37'38	1°07'22
direct	-11246 Nov 08 j 00:03	12° \mathbb{A} 04'46		morning rise	-11239 Apr 12 j 12:44	14° \mathbb{B} 38'28	

Attention, astronomical year style is used: The year -11239 in astronomical counting style is the year 11240 BCE in historical counting style.

retrograde	-11239 Jul 13 j 09:36	17° ♁ 57'24	min. Earth dist.	-11233 Oct 24 j 17:44	14° ♁ 15'23	17.29373 AU
opposition	-11239 Sep 24 j 18:24	15° ♁ 55'25 -1°13'13	direct	-11232 Jan 07 j 21:42	12° ♁ 11'53	
min. Earth dist.	-11239 Sep 25 j 23:09	15° ♁ 52'17 17.55682 AU		-11232 Apr 01 j 08:51	15° ♁	
direct	-11239 Dec 09 j 16:16	13° ♁ 49'43	evening set	-11232 Apr 13 j 10:14	15° ♁ 43'24	
evening set	-11238 Mar 15 j 07:07	17° ♁ 15'45	max. Earth dist.	-11232 Apr 28 j 10:57	16° ♁ 39'47	19.27843 AU
max. Earth dist.	-11238 Mar 30 j 14:25	18° ♁ 11'54 19.52896 AU				
conjunction	-11238 Apr 01 j 00:27	18° ♁ 17'09 -1°04'28	conjunction	-11232 Apr 29 j 22:08	16° ♁ 45'21 -0°42'06	
minimum elong	-11238 Apr 01 j 00:27	18° ♁ 17'10 1°05'04	minimum elong	-11232 Apr 29 j 22:08	16° ♁ 45'21 0°42'33	
morning rise	-11238 Apr 17 j 14:17	19° ♁ 18'07	morning rise	-11232 May 16 j 05:38	17° ♁ 46'39	
retrograde	-11238 Jul 18 j 08:24	22° ♁ 37'36	retrograde	-11232 Aug 15 j 08:48	21° ♁ 08'32	
opposition	-11238 Sep 29 j 14:51	20° ♁ 35'38 -1°10'27	opposition	-11232 Oct 27 j 11:43	19° ♁ 06'25 -0°44'21	
min. Earth dist.	-11238 Sep 30 j 20:28	20° ♁ 32'24 17.50352 AU	min. Earth dist.	-11232 Oct 28 j 17:38	19° ♁ 03'09 17.26584 AU	
direct	-11238 Dec 14 j 14:37	18° ♁ 29'43	direct	-11231 Jan 12 j 02:17	16° ♁ 59'23	
evening set	-11237 Mar 20 j 10:54	21° ♁ 56'55	evening set	-11231 Apr 18 j 14:56	20° ♁ 31'23	
max. Earth dist.	-11237 Apr 04 j 15:28	22° ♁ 52'55 19.47745 AU	max. Earth dist.	-11231 May 03 j 15:29	21° ♁ 27'54 19.25350 AU	
conjunction	-11237 Apr 06 j 03:24	22° ♁ 58'29 -1°01'44	conjunction	-11231 May 05 j 01:43	21° ♁ 33'19 -0°37'09	
minimum elong	-11237 Apr 06 j 03:24	22° ♁ 58'29 1°02'19	minimum elong	-11231 May 05 j 01:43	21° ♁ 33'19 0°37'35	
morning rise	-11237 Apr 22 j 16:25	23° ♁ 59'34	morning rise	-11231 May 21 j 07:58	22° ♁ 34'36	
retrograde	-11237 Jul 23 j 07:38	27° ♁ 19'34	retrograde	-11231 Aug 20 j 08:19	25° ♁ 56'43	
opposition	-11237 Oct 04 j 12:17	25° ♁ 17'36 -1°07'12	opposition	-11231 Nov 01 j 13:42	23° ♁ 54'34 -0°38'41	
min. Earth dist.	-11237 Oct 05 j 18:42	25° ♁ 14'17 17.45382 AU	min. Earth dist.	-11231 Nov 02 j 19:43	23° ♁ 51'18 17.24405 AU	
direct	-11237 Dec 19 j 14:28	23° ♁ 11'26	direct	-11230 Jan 17 j 06:15	21° ♁ 47'27	
evening set	-11236 Mar 24 j 15:03	26° ♁ 39'44	evening set	-11230 Apr 23 j 19:35	25° ♁ 19'50	
max. Earth dist.	-11236 Apr 08 j 19:30	27° ♁ 35'55 19.42942 AU	max. Earth dist.	-11230 May 08 j 20:08	26° ♁ 16'29 19.23503 AU	
conjunction	-11236 Apr 10 j 06:53	27° ♁ 41'25 -0°58'35	conjunction	-11230 May 10 j 05:09	26° ♁ 21'43 -0°31'56	
minimum elong	-11236 Apr 10 j 06:53	27° ♁ 41'26 0°59'09	minimum elong	-11230 May 10 j 05:09	26° ♁ 21'43 0°32'19	
morning rise	-11236 Apr 26 j 18:46	28° ♁ 42'36	morning rise	-11230 May 26 j 10:17	27° ♁ 22'56	
retrograde	-11236 May 19 j 04:19	0° ♁	retrograde	-11230 Jul 16 j 03:53	0° ♁	
opposition	-11236 Jul 27 j 07:42	2° ♁ 03'04	retrograde	-11230 Aug 25 j 09:29	0° ♁ 45'15	
opposition	-11236 Oct 08 j 10:40	0° ♁ 01'06 -1°03'29	opposition	-11230 Oct 05 j 19:39	30° ♁	
min. Earth dist.	-11236 Oct 08 j 20:45	30° ♁	opposition	-11230 Nov 06 j 15:55	28° ♁ 43'05 -0°32'44	
direct	-11236 Oct 09 j 17:19	29° ♁ 57'45 17.40751 AU	min. Earth dist.	-11230 Nov 07 j 19:50	28° ♁ 40'02 17.22881 AU	
evening set	-11236 Dec 23 j 15:04	27° ♁ 54'44	direct	-11229 Jan 22 j 12:02	26° ♁ 35'57	
max. Earth dist.	-11235 Mar 05 j 10:04	0° ♁	evening set	-11229 Apr 26 j 16:22	0° ♁	
conjunction	-11235 Mar 29 j 19:43	1° ♁ 24'00	max. Earth dist.	-11229 Apr 29 j 00:01	0° ♁ 08'35	
minimum elong	-11235 Apr 13 j 21:51	2° ♁ 20'04 19.38503 AU	conjunction	-11229 May 14 j 01:23	1° ♁ 05'28 19.22324 AU	
morning rise	-11235 Apr 15 j 10:33	2° ♁ 25'48 -0°55'01	minimum elong	-11229 May 15 j 08:26	1° ♁ 10'23 -0°26'30	
retrograde	-11235 Apr 15 j 10:33	2° ♁ 25'48 0°55'34	morning rise	-11229 May 15 j 08:27	1° ♁ 10'23 0°26'51	
opposition	-11235 May 01 j 21:26	3° ♁ 27'02	retrograde	-11229 May 31 j 12:13	2° ♁ 11'32	
min. Earth dist.	-11235 Aug 01 j 07:24	6° ♁ 47'57	opposition	-11229 Aug 30 j 09:16	5° ♁ 33'59	
direct	-11235 Oct 13 j 09:55	4° ♁ 45'57 -0°59'18	min. Earth dist.	-11229 Nov 11 j 18:55	3° ♁ 31'50 -0°26'34	
evening set	-11235 Oct 14 j 17:14	4° ♁ 42'32 17.36519 AU	direct	-11229 Nov 12 j 22:28	3° ♁ 28'51 17.22054 AU	
max. Earth dist.	-11235 Dec 28 j 16:29	2° ♁ 39'22	evening set	-11228 Jan 27 j 16:24	1° ♁ 24'45	
conjunction	-11234 Apr 04 j 00:18	6° ♁ 09'30	max. Earth dist.	-11228 May 03 j 04:10	4° ♁ 57'30	
minimum elong	-11234 Apr 19 j 02:28	7° ♁ 05'45 19.34480 AU	conjunction	-11228 May 18 j 05:23	5° ♁ 54'28 19.21867 AU	
morning rise	-11234 Apr 20 j 14:19	7° ♁ 11'23 -0°51'04	minimum elong	-11228 May 19 j 11:12	5° ♁ 59'13 -0°20'53	
retrograde	-11234 Apr 20 j 14:19	7° ♁ 11'23 0°51'35	morning rise	-11228 May 19 j 11:12	5° ♁ 59'13 0°21'11	
opposition	-11234 May 07 j 00:06	8° ♁ 12'40	retrograde	-11228 Jun 04 j 13:52	7° ♁ 00'16	
min. Earth dist.	-11234 Aug 06 j 08:03	11° ♁ 33'56	opposition	-11228 Sep 03 j 11:13	10° ♁ 22'50	
direct	-11234 Oct 18 j 09:49	9° ♁ 31'55 -0°54'42	min. Earth dist.	-11228 Nov 15 j 22:13	8° ♁ 20'43 -0°20'11	
evening set	-11234 Oct 19 j 16:36	9° ♁ 28'33 17.32701 AU	direct	-11228 Nov 16 j 23:05	8° ♁ 18'02 17.21950 AU	
max. Earth dist.	-11233 Jan 02 j 19:00	7° ♁ 25'10	evening set	-11227 Jan 31 j 22:36	6° ♁ 13'44	
conjunction	-11233 Apr 09 j 05:17	10° ♁ 56'02	max. Earth dist.	-11227 May 08 j 07:55	9° ♁ 46'30	
minimum elong	-11233 Apr 24 j 06:00	11° ♁ 52'16 19.30899 AU	conjunction	-11227 May 23 j 10:51	10° ♁ 43'48 19.22129 AU	
morning rise	-11233 Apr 25 j 18:14	11° ♁ 57'58 -0°46'45	minimum elong	-11227 May 24 j 13:48	10° ♁ 48'05 -0°15'07	
retrograde	-11233 Apr 25 j 18:15	11° ♁ 57'58 0°47'14	behind sun begin	-11227 May 24 j 13:48	10° ♁ 48'05 0°15'22	
opposition	-11233 May 12 j 02:53	12° ♁ 59'16	behind sun end	-11227 May 24 j 11:48	10° ♁ 47'46	
min. Earth dist.	-11233 Jun 17 j 14:44	15° ♁	morning rise	-11227 May 24 j 15:48	10° ♁ 48'24	
direct	-11233 Jun 17 j 14:44	15° ♁	retrograde	-11227 Jun 09 j 15:05	11° ♁ 49'01	
evening set	-11233 Aug 11 j 07:44	16° ♁ 20'53	opposition	-11227 Sep 08 j 11:25	15° ♁ 11'38	
max. Earth dist.	-11233 Oct 07 j 09:21	15° ♁	min. Earth dist.	-11227 Nov 21 j 01:57	13° ♁ 09'38 -0°13'40	
conjunction	-11233 Oct 23 j 10:25	14° ♁ 18'48 -0°49'42	direct	-11227 Nov 22 j 02:01	13° ♁ 07'02 17.22563 AU	

Attention, astronomical year style is used: The year -11226 in astronomical counting style is the year 11227 BCE in historical counting style.

direct	-11226 Feb 06 j 02:10	11° H 02'49		max. Earth dist.	-11221 Jun 22 j 04:47	9° Y 31'28	19.36638 AU
evening set	-11226 May 13 j 11:18	14° H 35'28		morning rise	-11221 Jul 08 j 12:39	10° Y 33'22	
				retrograde	-11221 Oct 07 j 16:55	13° Y 55'15	
conjunction	-11226 May 29 j 15:45	15° H 36'53	-0°09'14	opposition	-11221 Dec 21 j 03:50	11° Y 53'49	0°25'42
minimum elong	-11226 May 29 j 15:45	15° H 36'54	0°09'27	min. Earth dist.	-11221 Dec 21 j 15:20	11° Y 52'36	17.38642 AU
behind sun begin	-11226 May 29 j 10:11	15° H 36'02		direct	-11220 Mar 07 j 09:30	9° Y 48'43	
behind sun end	-11226 May 29 j 21:19	15° H 37'45		evening set	-11220 Jun 10 j 19:38	13° Y 17'52	
max. Earth dist.	-11226 May 28 j 13:59	15° H 32'47	19.23103 AU				
morning rise	-11226 Jun 14 j 16:02	16° H 37'41		conjunction	-11220 Jun 26 j 16:24	14° Y 17'51	0°25'53
retrograde	-11226 Sep 13 j 14:09	20° H 00'20		minimum elong	-11220 Jun 26 j 16:23	14° Y 17'51	0°26'00
opposition	-11226 Nov 26 j 05:51	17° H 58'25	-0°07'03	max. Earth dist.	-11220 Jun 26 j 04:42	14° Y 16'00	19.40744 AU
min. Earth dist.	-11226 Nov 27 j 03:14	17° H 56'07	17.23861 AU	morning rise	-11220 Jul 12 j 10:02	15° Y 17'23	
direct	-11225 Feb 11 j 07:53	15° H 51'50		retrograde	-11220 Oct 11 j 15:38	18° Y 38'57	
evening set	-11225 May 18 j 14:11	19° H 24'14		opposition	-11220 Dec 25 j 07:56	16° Y 37'34	0°31'49
				min. Earth dist.	-11220 Dec 25 j 17:19	16° Y 36'34	17.42959 AU
conjunction	-11225 Jun 03 j 17:28	20° H 25'29	-0°03'19	direct	-11219 Mar 12 j 13:50	14° Y 32'45	
minimum elong	-11225 Jun 03 j 17:28	20° H 25'29	0°03'27	evening set	-11219 Jun 15 j 18:14	18° Y 00'54	
behind sun begin	-11225 Jun 03 j 10:53	20° H 24'28					
behind sun end	-11225 Jun 04 j 00:04	20° H 26'31		conjunction	-11219 Jul 01 j 13:58	19° Y 00'36	0°31'15
max. Earth dist.	-11225 Jun 02 j 18:59	20° H 21'55	19.24722 AU	minimum elong	-11219 Jul 01 j 13:58	19° Y 00'36	0°31'24
morning rise	-11225 Jun 19 j 16:22	21° H 26'08		max. Earth dist.	-11219 Jul 01 j 05:33	18° Y 59'16	19.45266 AU
retrograde	-11225 Sep 18 j 14:42	24° H 48'43		morning rise	-11219 Jul 17 j 06:38	19° Y 59'52	
opposition	-11225 Dec 01 j 10:10	22° H 46'57	-0°00'22	retrograde	-11219 Oct 16 j 14:20	23° Y 21'02	
min. Earth dist.	-11225 Dec 02 j 06:24	22° H 44'46	17.25777 AU	opposition	-11219 Dec 30 j 11:24	21° Y 19'40	0°37'41
asc. node	-11225 Dec 21 j 08:35	21° H 56'56		min. Earth dist.	-11219 Dec 30 j 17:56	21° Y 18'59	17.47672 AU
direct	-11224 Feb 16 j 11:36	20° H 40'38		direct	-11218 Mar 17 j 18:36	19° Y 15'11	
evening set	-11224 May 22 j 16:43	24° H 12'39		evening set	-11218 Jun 20 j 15:55	22° Y 42'13	
conjunction	-11224 Jun 07 j 18:30	25° H 13'42	0°02'48	conjunction	-11218 Jul 06 j 10:30	23° Y 41'37	0°36'23
minimum elong	-11224 Jun 07 j 18:31	25° H 13'42	0°02'42	minimum elong	-11218 Jul 06 j 10:30	23° Y 41'37	0°36'35
behind sun begin	-11224 Jun 07 j 11:54	25° H 12'40		max. Earth dist.	-11218 Jul 06 j 04:15	23° Y 40'37	19.50181 AU
behind sun end	-11224 Jun 08 j 01:08	25° H 14'43		morning rise	-11218 Jul 22 j 02:26	24° Y 40'37	
max. Earth dist.	-11224 Jun 06 j 21:11	25° H 10'18	19.26941 AU	retrograde	-11218 Oct 21 j 11:27	28° Y 01'21	
morning rise	-11224 Jun 23 j 16:24	26° H 14'09		opposition	-11217 Jan 04 j 14:35	26° Y 00'01	0°43'15
retrograde	-11224 Sep 22 j 17:00	29° H 36'40		min. Earth dist.	-11217 Jan 04 j 19:10	25° Y 59'32	17.52797 AU
opposition	-11224 Dec 05 j 14:36	27° H 34'59	0°06'18	direct	-11217 Mar 22 j 20:46	23° Y 55'50	
min. Earth dist.	-11224 Dec 06 j 08:18	27° H 33'06	17.28275 AU	evening set	-11217 Jun 25 j 12:29	27° Y 21'42	
direct	-11223 Feb 20 j 17:28	25° H 28'58					
evening set	-11223 May 27 j 18:22	29° H 00'27		conjunction	-11217 Jul 11 j 06:04	28° Y 20'46	0°41'14
				minimum elong	-11217 Jul 11 j 06:03	28° Y 20'46	0°41'30
conjunction	-11223 Jun 12 j 19:01	0° Y 01'16	0°08'44	max. Earth dist.	-11217 Jul 11 j 03:00	28° Y 20'17	19.55511 AU
minimum elong	-11223 Jun 12 j 19:01	0° Y 01'16	0°08'41	morning rise	-11217 Jul 26 j 21:12	29° Y 19'30	
behind sun begin	-11223 Jun 12 j 13:16	0° Y 00'23			-11217 Aug 07 j 02:32	0° B	
behind sun end	-11223 Jun 13 j 00:47	0° Y 02'10		retrograde	-11217 Oct 26 j 09:23	2° B 39'46	
max. Earth dist.	-11223 Jun 12 j 01:08	29° H 58'26	19.29702 AU	opposition	-11216 Jan 09 j 17:10	0° B 38'28	0°48'29
	-11223 Jun 12 j 10:57	0° Y		min. Earth dist.	-11216 Jan 09 j 18:14	0° B 38'21	17.58325 AU
morning rise	-11223 Jun 28 j 15:39	1° Y 01'31			-11216 Jan 25 j 06:32	30° R Y	
retrograde	-11223 Sep 27 j 17:02	4° Y 23'53		direct	-11216 Mar 27 j 00:14	28° Y 34'38	
opposition	-11223 Dec 10 j 19:12	2° Y 22'19	0°12'54		-11216 May 24 j 05:11	0° B	
min. Earth dist.	-11223 Dec 11 j 11:13	2° Y 20'36	17.31275 AU	evening set	-11216 Jun 29 j 08:10	1° B 59'15	
direct	-11222 Feb 25 j 22:19	0° Y 16'36					
evening set	-11222 Jun 01 j 19:40	3° Y 47'26		conjunction	-11216 Jul 15 j 00:44	2° B 58'00	0°45'47
				minimum elong	-11216 Jul 15 j 00:43	2° B 58'00	0°46'05
conjunction	-11222 Jun 17 j 18:52	4° Y 47'59	0°14'35	max. Earth dist.	-11216 Jul 15 j 00:27	2° B 57'57	19.61246 AU
minimum elong	-11222 Jun 17 j 18:53	4° Y 47'59	0°14'35	morning rise	-11216 Jul 30 j 15:12	3° B 56'27	
behind sun begin	-11222 Jun 17 j 15:55	4° Y 47'31		retrograde	-11216 Oct 30 j 05:13	7° B 16'14	
behind sun end	-11222 Jun 17 j 21:50	4° Y 48'26		opposition	-11215 Jan 13 j 19:16	5° B 14'59	0°53'23
max. Earth dist.	-11222 Jun 17 j 02:11	4° Y 45'20	19.32946 AU	min. Earth dist.	-11215 Jan 13 j 18:22	5° B 15'05	17.64283 AU
morning rise	-11222 Jul 03 j 14:33	5° Y 48'00		direct	-11215 Apr 01 j 00:21	3° B 11'31	
retrograde	-11222 Oct 02 j 17:35	9° Y 10'10		evening set	-11215 Jul 04 j 02:42	6° B 34'52	
opposition	-11222 Dec 15 j 23:28	7° Y 08'40	0°19'23				
min. Earth dist.	-11222 Dec 16 j 13:15	7° Y 07'12	17.34750 AU	conjunction	-11215 Jul 19 j 18:25	7° B 33'17	0°50'01
direct	-11221 Mar 03 j 03:56	5° Y 03'14		minimum elong	-11215 Jul 19 j 18:25	7° B 33'17	0°50'22
evening set	-11221 Jun 06 j 20:03	8° Y 33'18		max. Earth dist.	-11215 Jul 19 j 21:03	7° B 33'42	19.67408 AU
				morning rise	-11215 Aug 04 j 08:21	8° B 31'28	
conjunction	-11221 Jun 22 j 18:09	9° Y 33'35	0°20'19	retrograde	-11215 Nov 04 j 02:22	11° B 50'44	
minimum elong	-11221 Jun 22 j 18:09	9° Y 33'35	0°20'21	opposition	-11214 Jan 18 j 20:31	9° B 49'34	0°57'54

Attention, astronomical year style is used: The year -11214 in astronomical counting style is the year 11215 BCE in historical counting style.

min. Earth dist.	-11214 Jan 18 j 15:48	9° 8 50'03	17.70637 AU	conjunction	-11208 Aug 18 j 23:30	8° II 48'10	1°09'17
direct	-11214 Apr 06 j 01:32	7° 8 46'31		minimum elong	-11208 Aug 18 j 23:30	8° II 48'10	1°09'52
evening set	-11214 Jul 08 j 20:23	11° 8 08'33		max. Earth dist.	-11208 Aug 19 j 19:38	8° II 51'14	20.17491 AU
				morning rise	-11208 Sep 03 j 11:55	9° II 44'33	
conjunction	-11214 Jul 24 j 11:18	12° 8 06'39	0°53'55	retrograde	-11208 Dec 05 j 08:18	12° II 59'54	
minimum elong	-11214 Jul 24 j 11:18	12° 8 06'39	0°54'17	opposition	-11207 Feb 20 j 09:49	10° II 59'42	1°17'39
max. Earth dist.	-11214 Jul 24 j 16:57	12° 8 07'32	19.73942 AU	min. Earth dist.	-11207 Feb 19 j 13:50	11° II 01'44	18.21177 AU
morning rise	-11214 Aug 09 j 00:41	13° 8 04'33		direct	-11207 May 08 j 03:27	8° II 59'54	
	-11214 Sep 13 j 02:40	15° 8		evening set	-11207 Aug 07 j 23:02	12° II 12'26	
retrograde	-11214 Nov 08 j 21:17	16° 8 23'18					
	-11213 Jan 08 j 11:04	15° R 8		conjunction	-11207 Aug 23 j 10:54	13° II 08'28	1°10'26
opposition	-11213 Jan 23 j 21:11	14° 8 22'15	1°02'01	minimum elong	-11207 Aug 23 j 10:54	13° II 08'28	1°11'01
min. Earth dist.	-11213 Jan 23 j 14:43	14° 8 22'55	17.77356 AU	max. Earth dist.	-11207 Aug 24 j 07:49	13° II 11'39	20.24742 AU
direct	-11213 Apr 10 j 23:45	12° 8 19'40		morning rise	-11207 Sep 07 j 23:39	14° II 04'37	
	-11213 Jul 02 j 04:43	15° 8		retrograde	-11207 Dec 10 j 00:24	17° II 19'22	
evening set	-11213 Jul 13 j 13:07	15° 8 40'22		min. Earth dist.	-11206 Feb 24 j 06:35	15° II 21'30	18.28357 AU
				opposition	-11206 Feb 25 j 04:58	15° II 19'13	1°18'40
conjunction	-11213 Jul 29 j 03:17	16° 8 38'09	0°57'27	direct	-11206 May 12 j 21:06	13° II 19'47	
minimum elong	-11213 Jul 29 j 03:17	16° 8 38'09	0°57'53	evening set	-11206 Aug 12 j 09:42	16° II 30'58	
max. Earth dist.	-11213 Jul 29 j 11:24	16° 8 39'25	19.80827 AU				
morning rise	-11213 Aug 13 j 16:20	17° 8 35'47		conjunction	-11206 Aug 27 j 21:38	17° II 26'45	1°11'10
retrograde	-11213 Nov 13 j 17:35	20° 8 54'00		minimum elong	-11206 Aug 27 j 21:38	17° II 26'45	1°11'46
opposition	-11212 Jan 28 j 21:09	18° 8 53'06	1°05'44	max. Earth dist.	-11206 Aug 28 j 21:10	17° II 30'18	20.31824 AU
min. Earth dist.	-11212 Jan 28 j 10:55	18° 8 54'10	17.84379 AU	morning rise	-11206 Sep 12 j 10:30	18° II 22'41	
direct	-11212 Apr 14 j 22:51	16° 8 51'00		retrograde	-11206 Dec 14 j 13:14	21° II 36'47	
evening set	-11212 Jul 17 j 04:48	20° 8 10'21		opposition	-11205 Mar 01 j 23:18	19° II 36'42	1°19'14
				min. Earth dist.	-11205 Mar 01 j 00:00	19° II 39'04	18.35353 AU
conjunction	-11212 Aug 01 j 18:24	21° 8 07'50	1°00'37	direct	-11205 May 17 j 13:47	17° II 37'36	
minimum elong	-11212 Aug 01 j 18:23	21° 8 07'50	1°01'04	evening set	-11205 Aug 16 j 19:40	20° II 47'25	
max. Earth dist.	-11212 Aug 02 j 05:42	21° 8 09'35	19.87965 AU				
morning rise	-11212 Aug 17 j 07:06	22° 8 05'12		conjunction	-11205 Sep 01 j 07:33	21° II 42'57	1°11'30
retrograde	-11212 Nov 17 j 11:48	25° 8 22'53		minimum elong	-11205 Sep 01 j 07:33	21° II 42'57	1°12'07
opposition	-11211 Feb 01 j 20:34	23° 8 22'08	1°09'01	max. Earth dist.	-11205 Sep 02 j 07:42	21° II 46'35	20.38740 AU
min. Earth dist.	-11211 Feb 01 j 08:53	23° 8 23'20	17.91627 AU	morning rise	-11205 Sep 16 j 20:56	22° II 38'42	
direct	-11211 Apr 19 j 19:50	21° 8 20'32		retrograde	-11205 Dec 19 j 03:55	25° II 52'09	
evening set	-11211 Jul 21 j 19:46	24° 8 38'31		opposition	-11204 Mar 05 j 16:41	23° II 52'05	1°19'21
				min. Earth dist.	-11204 Mar 04 j 15:19	23° II 54'39	18.42191 AU
conjunction	-11211 Aug 06 j 08:47	25° 8 35'42	1°03'23	direct	-11204 May 21 j 05:06	21° II 53'17	
minimum elong	-11211 Aug 06 j 08:46	25° 8 35'42	1°03'52	evening set	-11204 Aug 20 j 04:37	25° II 01'47	
max. Earth dist.	-11211 Aug 06 j 21:56	25° 8 37'43	19.95292 AU				
morning rise	-11211 Aug 21 j 21:22	26° 8 32'48		conjunction	-11204 Sep 04 j 16:48	25° II 57'06	1°11'27
retrograde	-11211 Nov 22 j 07:01	29° 8 49'55		minimum elong	-11204 Sep 04 j 16:48	25° II 57'06	1°12'03
opposition	-11210 Feb 06 j 18:52	27° 8 49'20	1°11'52	max. Earth dist.	-11204 Sep 05 j 19:39	26° II 01'07	20.45483 AU
min. Earth dist.	-11210 Feb 06 j 03:54	27° 8 50'52	17.99013 AU	morning rise	-11204 Sep 20 j 06:32	26° II 52'38	
direct	-11210 Apr 24 j 16:59	25° 8 48'13			-11204 Dec 07 j 22:26	0° ☾	
evening set	-11210 Jul 26 j 09:49	29° 8 04'52		retrograde	-11204 Dec 22 j 15:09	0° ☾ 05'27	
					-11203 Jan 06 j 13:30	30° R II	
conjunction	-11210 Aug 10 j 22:29	0° II 01'44	1°05'46	min. Earth dist.	-11203 Mar 09 j 06:46	28° II 08'04	18.48855 AU
minimum elong	-11210 Aug 10 j 22:28	0° II 01'44	1°06'17	opposition	-11203 Mar 10 j 09:07	28° II 05'25	1°19'03
	-11210 Aug 10 j 11:12	0° II		direct	-11203 May 25 j 19:38	26° II 06'53	
max. Earth dist.	-11210 Aug 11 j 14:34	0° II 04'13	20.02700 AU	evening set	-11203 Aug 24 j 13:03	29° II 14'07	
morning rise	-11210 Aug 26 j 10:51	0° II 58'35			-11203 Sep 06 j 11:42	0° ☾	
retrograde	-11210 Nov 26 j 23:36	4° II 15'08					
opposition	-11209 Feb 11 j 16:43	2° II 14'42	1°14'15	conjunction	-11203 Sep 09 j 01:21	0° ☾ 09'12	1°11'01
min. Earth dist.	-11209 Feb 11 j 00:36	2° II 16'21	18.06446 AU	minimum elong	-11203 Sep 09 j 01:21	0° ☾ 09'12	1°11'38
direct	-11209 Apr 29 j 13:12	0° II 14'04		max. Earth dist.	-11203 Sep 10 j 04:40	0° ☾ 13'16	20.52073 AU
evening set	-11209 Jul 30 j 23:00	3° II 29'19		morning rise	-11203 Sep 24 j 15:44	1° ☾ 04'34	
				retrograde	-11203 Dec 27 j 04:09	4° ☾ 16'45	
conjunction	-11209 Aug 15 j 11:13	4° II 25'54	1°07'44	min. Earth dist.	-11202 Mar 13 j 20:21	2° ☾ 19'33	18.55384 AU
minimum elong	-11209 Aug 15 j 11:12	4° II 25'54	1°08'16	opposition	-11202 Mar 15 j 00:24	2° ☾ 16'43	1°18'19
max. Earth dist.	-11209 Aug 16 j 04:36	4° II 28'34	20.10128 AU	direct	-11202 May 30 j 08:22	0° ☾ 18'28	
morning rise	-11209 Aug 30 j 23:40	5° II 22'31		evening set	-11202 Aug 28 j 20:38	3° ☾ 24'29	
retrograde	-11209 Dec 01 j 17:24	8° II 38'30					
opposition	-11208 Feb 16 j 13:41	6° II 38'10	1°16'11	conjunction	-11202 Sep 13 j 09:23	4° ☾ 19'23	1°10'12
min. Earth dist.	-11208 Feb 15 j 18:38	6° II 40'07	18.13859 AU	minimum elong	-11202 Sep 13 j 09:23	4° ☾ 19'23	1°10'49
direct	-11208 May 03 j 08:48	4° II 37'58		max. Earth dist.	-11202 Sep 14 j 15:18	4° ☾ 23'49	20.58521 AU
evening set	-11208 Aug 03 j 11:25	7° II 51'52		morning rise	-11202 Sep 29 j 00:12	5° ☾ 14'35	

Attention, astronomical year style is used: The year -11201 in astronomical counting style is the year 11202 BCE in historical counting style.

retrograde	-11202 Dec 31 j 14:40	8°♊26'10		evening set	-11195 Sep 25 j 12:47	1°♊56'02	
min. Earth dist.	-11201 Mar 18 j 09:47	6°♊29'07	18.61764 AU				
opposition	-11201 Mar 19 j 14:58	6°♊26'11	1°17'12	conjunction	-11195 Oct 11 j 05:48	2°♊50'04	0°55'11
direct	-11201 Jun 03 j 21:03	4°♊28'13		minimum elong	-11195 Oct 11 j 05:48	2°♊50'04	0°55'43
evening set	-11201 Sep 02 j 03:36	7°♊33'04		max. Earth dist.	-11195 Oct 12 j 15:46	2°♊54'59	20.97352 AU
				morning rise	-11195 Oct 27 j 02:43	3°♊44'38	
conjunction	-11201 Sep 17 j 16:37	8°♊27'47	1°09'02	retrograde	-11194 Jan 29 j 13:58	6°♊52'57	
minimum elong	-11201 Sep 17 j 16:38	8°♊27'47	1°09'40	opposition	-11194 Apr 17 j 22:58	4°♊53'34	0°59'12
max. Earth dist.	-11201 Sep 18 j 22:54	8°♊32'15	20.64833 AU	min. Earth dist.	-11194 Apr 16 j 14:29	4°♊56'49	18.99486 AU
morning rise	-11201 Oct 03 j 08:17	9°♊22'51		direct	-11194 Jul 02 j 10:24	2°♊57'27	
retrograde	-11200 Jan 05 j 02:31	12°♊33'52		evening set	-11194 Sep 29 j 17:21	5°♊56'13	
min. Earth dist.	-11200 Mar 21 j 22:11	10°♊37'00	18.68007 AU				
opposition	-11200 Mar 23 j 04:44	10°♊33'56	1°15'41	conjunction	-11194 Oct 15 j 11:24	6°♊50'13	0°51'52
direct	-11200 Jun 07 j 07:23	8°♊36'15		minimum elong	-11194 Oct 15 j 11:24	6°♊50'13	0°52'24
evening set	-11200 Sep 05 j 10:01	11°♊40'01		max. Earth dist.	-11194 Oct 16 j 22:15	6°♊55'14	21.01326 AU
				morning rise	-11194 Oct 31 j 09:11	7°♊44'45	
conjunction	-11200 Sep 20 j 23:42	12°♊34'35	1°07'31	retrograde	-11193 Feb 02 j 22:36	10°♊52'41	
minimum elong	-11200 Sep 20 j 23:42	12°♊34'35	1°08'08	min. Earth dist.	-11193 Apr 20 j 23:17	8°♊56'36	19.03184 AU
max. Earth dist.	-11200 Sep 22 j 08:17	12°♊39'23	20.70979 AU	opposition	-11193 Apr 22 j 07:43	8°♊53'22	0°55'23
morning rise	-11200 Oct 06 j 15:57	13°♊29'32		direct	-11193 Jul 06 j 17:07	6°♊57'23	
retrograde	-11199 Jan 08 j 12:40	16°♊40'00		evening set	-11193 Oct 03 j 21:48	9°♊55'31	
min. Earth dist.	-11199 Mar 26 j 10:02	14°♊43'19	18.74052 AU				
opposition	-11199 Mar 27 j 17:28	14°♊40'10	1°13'48	conjunction	-11193 Oct 19 j 16:39	10°♊49'29	0°48'19
direct	-11199 Jun 11 j 18:30	12°♊42'47		minimum elong	-11193 Oct 19 j 16:39	10°♊49'29	0°48'49
evening set	-11199 Sep 09 j 16:05	15°♊45'33		max. Earth dist.	-11193 Oct 21 j 02:01	10°♊54'17	21.04760 AU
				morning rise	-11193 Nov 04 j 15:42	11°♊44'01	
conjunction	-11199 Sep 25 j 06:12	16°♊39'58	1°05'41	retrograde	-11192 Feb 07 j 07:04	14°♊51'38	
minimum elong	-11199 Sep 25 j 06:12	16°♊39'58	1°06'17	min. Earth dist.	-11192 Apr 24 j 08:32	12°♊55'26	19.06344 AU
max. Earth dist.	-11199 Sep 26 j 14:39	16°♊44'43	20.76918 AU	opposition	-11192 Apr 25 j 16:00	12°♊52'17	0°51'20
morning rise	-11199 Oct 10 j 23:26	17°♊34'49		direct	-11192 Jul 09 j 22:52	10°♊56'24	
retrograde	-11198 Jan 12 j 23:38	20°♊44'47		evening set	-11192 Oct 07 j 02:03	13°♊53'59	
min. Earth dist.	-11198 Mar 30 j 21:25	18°♊48'16	18.79869 AU				
opposition	-11198 Apr 01 j 05:35	18°♊45'02	1°11'32	conjunction	-11192 Oct 22 j 22:04	14°♊47'56	0°44'33
direct	-11198 Jun 16 j 02:59	16°♊47'57		minimum elong	-11192 Oct 22 j 22:04	14°♊47'56	0°45'02
evening set	-11198 Sep 13 j 21:31	19°♊49'47		max. Earth dist.	-11192 Oct 24 j 08:02	14°♊52'48	21.07649 AU
					-11192 Oct 26 j 10:17	15°♊	
conjunction	-11198 Sep 29 j 12:24	20°♊44'05	1°03'30	morning rise	-11192 Nov 07 j 22:03	15°♊42'28	
minimum elong	-11198 Sep 29 j 12:24	20°♊44'05	1°04'06	retrograde	-11191 Feb 10 j 15:20	18°♊49'44	
max. Earth dist.	-11198 Sep 30 j 22:47	20°♊49'06	20.82584 AU	opposition	-11191 Apr 29 j 23:22	16°♊50'22	0°47'02
morning rise	-11198 Oct 15 j 06:18	21°♊38'50		min. Earth dist.	-11191 Apr 28 j 16:09	16°♊53'30	19.08957 AU
retrograde	-11197 Jan 17 j 09:11	24°♊48'21			-11191 Jun 29 j 13:21	15°♊♋	
min. Earth dist.	-11197 Apr 04 j 08:10	22°♊52'00	18.85373 AU	direct	-11191 Jul 14 j 05:07	14°♊54'32	
opposition	-11197 Apr 05 j 16:56	22°♊48'43	1°08'56		-11191 Jul 28 j 18:25	15°♊	
direct	-11197 Jun 20 j 12:33	20°♊51'56		evening set	-11191 Oct 11 j 06:20	17°♊51'38	
evening set	-11197 Sep 18 j 02:52	23°♊52'53					
				conjunction	-11191 Oct 27 j 03:11	18°♊45'35	0°40'35
conjunction	-11197 Oct 03 j 18:18	24°♊47'04	1°01'01	minimum elong	-11191 Oct 27 j 03:11	18°♊45'35	0°41'02
minimum elong	-11197 Oct 03 j 18:19	24°♊47'04	1°01'36	max. Earth dist.	-11191 Oct 28 j 11:31	18°♊50'12	21.10017 AU
max. Earth dist.	-11197 Oct 05 j 04:07	24°♊51'59	20.87924 AU	morning rise	-11191 Nov 12 j 04:27	19°♊40'08	
morning rise	-11197 Oct 19 j 13:18	25°♊41'45		retrograde	-11190 Feb 14 j 22:34	22°♊47'07	
retrograde	-11196 Jan 21 j 19:29	28°♊50'50		min. Earth dist.	-11190 May 03 j 00:24	20°♊50'42	19.11083 AU
min. Earth dist.	-11196 Apr 07 j 18:49	26°♊54'35	18.90533 AU	opposition	-11190 May 04 j 06:25	20°♊47'42	0°42'33
opposition	-11196 Apr 09 j 03:39	26°♊51'18	1°06'00	direct	-11190 Jul 18 j 09:32	18°♊51'51	
direct	-11196 Jun 23 j 19:58	24°♊54'46		evening set	-11190 Oct 15 j 10:12	21°♊48'33	
evening set	-11196 Sep 21 j 07:50	27°♊54'56					
				conjunction	-11190 Oct 31 j 08:14	22°♊42'31	0°36'27
conjunction	-11196 Oct 07 j 00:12	28°♊49'03	0°58'15	minimum elong	-11190 Oct 31 j 08:14	22°♊42'31	0°36'51
minimum elong	-11196 Oct 07 j 00:13	28°♊49'03	0°58'49	max. Earth dist.	-11190 Nov 01 j 17:14	22°♊47'13	21.11909 AU
max. Earth dist.	-11196 Oct 08 j 11:22	28°♊54'08	20.92870 AU	morning rise	-11190 Nov 16 j 10:27	23°♊37'06	
morning rise	-11196 Oct 22 j 20:00	29°♊43'39		retrograde	-11189 Feb 19 j 06:40	26°♊43'50	
	-11196 Oct 27 j 16:45	0°♊		min. Earth dist.	-11189 May 07 j 07:01	24°♊47'21	19.12744 AU
retrograde	-11195 Jan 25 j 04:34	2°♊52'20		opposition	-11189 May 08 j 12:53	24°♊44'21	0°37'52
min. Earth dist.	-11195 Apr 12 j 04:36	0°♊56'12	18.95249 AU	direct	-11189 Jul 22 j 15:24	22°♊48'30	
opposition	-11195 Apr 13 j 13:38	0°♊52'54	1°02'45	evening set	-11189 Oct 19 j 14:24	25°♊44'52	
	-11195 May 06 j 10:12	30°♊♋					
direct	-11195 Jun 28 j 03:49	28°♊56'36		conjunction	-11189 Nov 04 j 13:20	26°♊38'53	0°32'09
	-11195 Aug 17 j 13:00	0°♊		minimum elong	-11189 Nov 04 j 13:20	26°♊38'53	0°32'32

Attention, astronomical year style is used: The year -11189 in astronomical counting style is the year 11190 BCE in historical counting style.

max. Earth dist.	-11189 Nov 05 j 20:36	26° Ω 43'19	21.13367 AU	behind sun begin	-11183 Nov 27 j 18:15	20° \mathbb{N} 13'57	
morning rise	-11189 Nov 20 j 16:51	27° Ω 33'30		behind sun end	-11183 Nov 28 j 07:24	20° \mathbb{N} 15'46	
	-11188 Jan 13 j 06:12	0° \mathbb{N}		max. Earth dist.	-11183 Nov 29 j 01:07	20° \mathbb{N} 18'17	21.13442 AU
retrograde	-11188 Feb 23 j 13:16	0° \mathbb{N} 40'02		morning rise	-11183 Dec 14 j 10:53	21° \mathbb{N} 10'04	
	-11188 Apr 05 j 15:50	30° \mathbb{R} Ω		retrograde	-11182 Mar 19 j 09:59	24° \mathbb{N} 16'25	
opposition	-11188 May 11 j 18:55	28° Ω 40'30	0°33'02	min. Earth dist.	-11182 Jun 04 j 04:29	22° \mathbb{N} 18'58	19.12717 AU
min. Earth dist.	-11188 May 10 j 14:23	28° Ω 43'22	19.14001 AU	opposition	-11182 Jun 05 j 01:32	22° \mathbb{N} 16'50	0°01'35
direct	-11188 Jul 25 j 18:35	26° Ω 44'38		direct	-11182 Aug 18 j 17:09	20° \mathbb{N} 20'42	
evening set	-11188 Oct 22 j 18:31	29° Ω 40'45		desc. node	-11182 Sep 17 j 19:13	20° \mathbb{N} 43'56	
	-11188 Oct 28 j 12:28	0° \mathbb{N}		evening set	-11182 Nov 16 j 01:18	23° \mathbb{N} 17'17	
conjunction	-11188 Nov 07 j 18:43	0° \mathbb{N} 34'50	0°27'43	conjunction	-11182 Dec 02 j 08:08	24° \mathbb{N} 12'02	-0°01'01
minimum elong	-11188 Nov 07 j 18:43	0° \mathbb{N} 34'50	0°28'03	minimum elong	-11182 Dec 02 j 08:07	24° \mathbb{N} 12'02	0°00'54
max. Earth dist.	-11188 Nov 09 j 02:21	0° \mathbb{N} 39'19	21.14421 AU	behind sun begin	-11182 Dec 02 j 01:27	24° \mathbb{N} 11'07	
morning rise	-11188 Nov 23 j 23:11	1° \mathbb{N} 29'31		behind sun end	-11182 Dec 02 j 14:48	24° \mathbb{N} 12'57	
retrograde	-11187 Feb 26 j 21:00	4° \mathbb{N} 35'52		max. Earth dist.	-11182 Dec 03 j 07:41	24° \mathbb{N} 15'22	21.11802 AU
min. Earth dist.	-11187 May 14 j 20:14	2° \mathbb{N} 39'10	19.14847 AU	morning rise	-11182 Dec 18 j 19:02	25° \mathbb{N} 07'23	
opposition	-11187 May 16 j 00:30	2° \mathbb{N} 36'19	0°28'03	retrograde	-11181 Mar 23 j 18:02	28° \mathbb{N} 13'52	
direct	-11187 Jul 30 j 00:01	0° \mathbb{N} 40'26		min. Earth dist.	-11181 Jun 08 j 10:28	26° \mathbb{N} 16'17	19.10786 AU
evening set	-11187 Oct 26 j 22:53	3° \mathbb{N} 36'25		opposition	-11181 Jun 09 j 06:20	26° \mathbb{N} 14'15	-0°03'52
				direct	-11181 Aug 22 j 21:34	24° \mathbb{N} 17'59	
conjunction	-11187 Nov 11 j 23:59	4° \mathbb{N} 30'33	0°23'09	evening set	-11181 Nov 20 j 08:14	27° \mathbb{N} 14'56	
minimum elong	-11187 Nov 11 j 23:59	4° \mathbb{N} 30'33	0°23'28				
max. Earth dist.	-11187 Nov 13 j 05:38	4° \mathbb{N} 34'45	21.15074 AU	conjunction	-11181 Dec 06 j 15:59	28° \mathbb{N} 09'51	-0°05'59
morning rise	-11187 Nov 28 j 05:43	5° \mathbb{N} 25'18		minimum elong	-11181 Dec 06 j 15:59	28° \mathbb{N} 09'51	0°05'55
retrograde	-11186 Mar 03 j 03:53	8° \mathbb{N} 31'35		behind sun begin	-11181 Dec 06 j 09:36	28° \mathbb{N} 08'59	
min. Earth dist.	-11186 May 19 j 03:09	6° \mathbb{N} 34'41	19.15302 AU	behind sun end	-11181 Dec 06 j 22:22	28° \mathbb{N} 10'44	
opposition	-11186 May 20 j 05:53	6° \mathbb{N} 32'00	0°22'56	max. Earth dist.	-11181 Dec 07 j 12:16	28° \mathbb{N} 12'43	21.09590 AU
direct	-11186 Aug 03 j 02:35	4° \mathbb{N} 36'05		morning rise	-11181 Dec 23 j 04:03	29° \mathbb{N} 05'22	
evening set	-11186 Oct 31 j 03:19	7° \mathbb{N} 32'01			-11180 Jan 09 j 08:20	0° Ω	
conjunction	-11186 Nov 16 j 05:42	8° \mathbb{N} 26'15	0°18'29	retrograde	-11180 Mar 27 j 01:46	2° Ω 11'59	
minimum elong	-11186 Nov 16 j 05:42	8° \mathbb{N} 26'15	0°18'45	opposition	-11180 Jun 12 j 11:12	0° Ω 12'20	-0°09'19
max. Earth dist.	-11186 Nov 17 j 11:27	8° \mathbb{N} 30'27	21.15332 AU	min. Earth dist.	-11180 Jun 11 j 18:08	0° Ω 14'04	19.08283 AU
morning rise	-11186 Dec 02 j 12:23	9° \mathbb{N} 21'06			-11180 Jun 17 j 12:18	30° \mathbb{R} \mathbb{N}	
retrograde	-11185 Mar 07 j 11:09	12° \mathbb{N} 27'18		direct	-11180 Aug 26 j 01:04	28° \mathbb{N} 15'52	
min. Earth dist.	-11185 May 23 j 08:40	10° \mathbb{N} 30'23	19.15344 AU		-11180 Oct 31 j 02:47	0° Ω	
opposition	-11185 May 24 j 10:56	10° \mathbb{N} 27'43	0°17'43	evening set	-11180 Nov 23 j 15:33	1° Ω 13'15	
direct	-11185 Aug 07 j 07:23	8° \mathbb{N} 31'47					
evening set	-11185 Nov 04 j 08:11	11° \mathbb{N} 27'45		conjunction	-11180 Dec 10 j 00:33	2° Ω 08'22	-0°10'53
conjunction	-11185 Nov 20 j 11:33	12° \mathbb{N} 22'05	0°13'43	minimum elong	-11180 Dec 10 j 00:33	2° Ω 08'21	0°10'50
minimum elong	-11185 Nov 20 j 11:33	12° \mathbb{N} 22'05	0°13'57	behind sun begin	-11180 Dec 09 j 19:29	2° Ω 07'40	
behind sun begin	-11185 Nov 20 j 08:13	12° \mathbb{N} 21'37		behind sun end	-11180 Dec 10 j 05:36	2° Ω 09'03	
behind sun end	-11185 Nov 20 j 14:54	12° \mathbb{N} 22'33		max. Earth dist.	-11180 Dec 10 j 19:37	2° Ω 11'03	21.06797 AU
max. Earth dist.	-11185 Nov 21 j 14:59	12° \mathbb{N} 25'58	21.15171 AU	morning rise	-11180 Dec 26 j 13:22	3° Ω 04'01	
morning rise	-11185 Dec 06 j 19:32	13° \mathbb{N} 17'02		retrograde	-11179 Mar 31 j 10:41	6° Ω 10'50	
retrograde	-11184 Mar 10 j 18:52	16° \mathbb{N} 23'16		opposition	-11179 Jun 16 j 16:03	4° Ω 11'05	-0°14'44
opposition	-11184 May 27 j 15:59	14° \mathbb{N} 23'40	0°12'24	min. Earth dist.	-11179 Jun 16 j 00:21	4° Ω 12'42	19.05191 AU
min. Earth dist.	-11184 May 26 j 15:40	14° \mathbb{N} 26'08	19.14958 AU	direct	-11179 Aug 30 j 06:15	2° Ω 14'24	
direct	-11184 Aug 10 j 09:56	12° \mathbb{N} 27'41		evening set	-11179 Nov 27 j 23:25	5° Ω 12'16	
evening set	-11184 Nov 07 j 13:26	15° \mathbb{N} 23'47					
conjunction	-11184 Nov 23 j 18:04	16° \mathbb{N} 18'15	0°08'53	conjunction	-11179 Dec 14 j 09:16	6° Ω 07'34	-0°15'44
minimum elong	-11184 Nov 23 j 18:04	16° \mathbb{N} 18'15	0°09'05	minimum elong	-11179 Dec 14 j 09:15	6° Ω 07'34	0°15'46
behind sun begin	-11184 Nov 23 j 12:25	16° \mathbb{N} 17'28		behind sun begin	-11179 Dec 14 j 08:35	6° Ω 07'28	
behind sun end	-11184 Nov 23 j 23:44	16° \mathbb{N} 19'01		behind sun end	-11179 Dec 14 j 09:55	6° Ω 07'39	
max. Earth dist.	-11184 Nov 24 j 21:10	16° \mathbb{N} 22'04	21.14554 AU	max. Earth dist.	-11179 Dec 15 j 00:54	6° Ω 09'46	21.03432 AU
morning rise	-11184 Dec 10 j 02:56	17° \mathbb{N} 13'19		morning rise	-11179 Dec 30 j 23:08	7° Ω 03'24	
retrograde	-11183 Mar 15 j 02:07	20° \mathbb{N} 19'34		retrograde	-11178 Apr 04 j 18:10	10° Ω 10'26	
opposition	-11183 May 31 j 20:38	18° \mathbb{N} 20'00	0°07'01	opposition	-11178 Jun 20 j 21:06	8° Ω 10'34	-0°20'05
min. Earth dist.	-11183 May 30 j 21:13	18° \mathbb{N} 22'23	19.14088 AU	min. Earth dist.	-11178 Jun 20 j 08:15	8° Ω 11'53	19.01562 AU
direct	-11183 Aug 14 j 14:12	16° \mathbb{N} 23'58		direct	-11178 Sep 03 j 10:05	6° Ω 13'36	
evening set	-11183 Nov 11 j 19:16	19° \mathbb{N} 20'16		evening set	-11178 Dec 02 j 07:43	9° Ω 12'03	
conjunction	-11183 Nov 28 j 00:50	20° \mathbb{N} 14'52	0°04'01	conjunction	-11178 Dec 18 j 18:45	10° Ω 07'32	-0°20'32
minimum elong	-11183 Nov 28 j 00:50	20° \mathbb{N} 14'51	0°04'10	minimum elong	-11178 Dec 18 j 18:45	10° Ω 07'32	0°20'36
				max. Earth dist.	-11178 Dec 19 j 09:13	10° Ω 09'35	20.99558 AU
				morning rise	-11177 Jan 04 j 09:19	11° Ω 03'34	
				retrograde	-11177 Apr 09 j 03:36	14° Ω 10'49	

Attention, astronomical year style is used: The year -11177 in astronomical counting style is the year 11178 BCE in historical counting style.

opposition	-11177 Jun 25 j 02:01	12° <u>♂</u> 10'50	-0°25'21	conjunction	-11170 Jan 17 j 06:56	8° <u>♂</u> 38'44	-0°50'34
min. Earth dist.	-11177 Jun 24 j 14:27	12° <u>♂</u> 12'01	18.97446 AU	minimum elong	-11170 Jan 17 j 06:56	8° <u>♂</u> 38'44	0°50'55
direct	-11177 Sep 07 j 16:10	10° <u>♂</u> 13'34		max. Earth dist.	-11170 Jan 17 j 04:00	8° <u>♂</u> 38'19	20.62705 AU
evening set	-11177 Dec 06 j 16:49	13° <u>♂</u> 12'38		morning rise	-11170 Feb 03 j 01:47	9° <u>♂</u> 36'17	
				retrograde	-11170 May 08 j 03:12	12° <u>♂</u> 46'24	
conjunction	-11177 Dec 23 j 04:41	14° <u>♂</u> 08'21	-0°25'15	opposition	-11170 Jul 22 j 21:25	10° <u>♂</u> 45'45	-0°58'02
minimum elong	-11177 Dec 23 j 04:41	14° <u>♂</u> 08'21	0°25'22	min. Earth dist.	-11170 Jul 23 j 00:46	10° <u>♂</u> 45'23	18.59601 AU
max. Earth dist.	-11177 Dec 23 j 15:44	14° <u>♂</u> 09'55	20.95229 AU	direct	-11170 Oct 05 j 12:37	8° <u>♂</u> 46'09	
morning rise	-11176 Jan 08 j 20:13	15° <u>♂</u> 04'34		evening set	-11169 Jan 05 j 04:48	11° <u>♂</u> 51'58	
retrograde	-11176 Apr 12 j 11:24	18° <u>♂</u> 12'06					
opposition	-11176 Jun 28 j 07:17	16° <u>♂</u> 11'59	-0°30'31	conjunction	-11169 Jan 21 j 22:19	12° <u>♂</u> 49'29	-0°54'05
min. Earth dist.	-11176 Jun 27 j 22:34	16° <u>♂</u> 12'53	18.92917 AU	minimum elong	-11169 Jan 21 j 22:18	12° <u>♂</u> 49'29	0°54'28
direct	-11176 Sep 10 j 20:24	14° <u>♂</u> 14'22		max. Earth dist.	-11169 Jan 21 j 17:38	12° <u>♂</u> 48'49	20.56423 AU
evening set	-11176 Dec 10 j 02:26	17° <u>♂</u> 14'11		morning rise	-11169 Feb 07 j 17:23	13° <u>♂</u> 47'17	
					-11169 Mar 02 j 09:49	15° <u>♂</u>	
conjunction	-11176 Dec 26 j 15:24	18° <u>♂</u> 10'08	-0°29'51	retrograde	-11169 May 12 j 17:45	16° <u>♂</u> 57'56	
minimum elong	-11176 Dec 26 j 15:23	18° <u>♂</u> 10'07	0°30'01		-11169 Jul 26 j 03:12	15° <u>♂</u>	
max. Earth dist.	-11176 Dec 27 j 01:13	18° <u>♂</u> 11'31	20.90511 AU	opposition	-11169 Jul 27 j 05:24	14° <u>♂</u> 57'14	-1°01'49
morning rise	-11175 Jan 12 j 07:28	19° <u>♂</u> 06'33		min. Earth dist.	-11169 Jul 27 j 10:09	14° <u>♂</u> 56'44	18.53188 AU
retrograde	-11175 Apr 16 j 21:25	22° <u>♂</u> 14'23		direct	-11169 Oct 09 j 22:40	12° <u>♂</u> 57'18	
opposition	-11175 Jul 02 j 12:32	20° <u>♂</u> 14'08	-0°35'34		-11169 Dec 20 j 23:21	15° <u>♂</u>	
min. Earth dist.	-11175 Jul 02 j 04:57	20° <u>♂</u> 14'55	18.88024 AU	evening set	-11168 Jan 09 j 20:39	16° <u>♂</u> 04'21	
direct	-11175 Sep 15 j 03:13	18° <u>♂</u> 16'12					
evening set	-11175 Dec 14 j 12:51	21° <u>♂</u> 16'49		conjunction	-11168 Jan 26 j 14:35	17° <u>♂</u> 02'10	-0°57'20
				minimum elong	-11168 Jan 26 j 14:35	17° <u>♂</u> 02'10	0°57'46
conjunction	-11175 Dec 31 j 02:31	22° <u>♂</u> 13'00	-0°34'20	max. Earth dist.	-11168 Jan 26 j 06:18	17° <u>♂</u> 00'58	20.49868 AU
minimum elong	-11175 Dec 31 j 02:31	22° <u>♂</u> 13'00	0°34'31	morning rise	-11168 Feb 12 j 09:57	18° <u>♂</u> 00'13	
max. Earth dist.	-11175 Dec 31 j 09:00	22° <u>♂</u> 13'55	20.85464 AU	retrograde	-11168 May 16 j 06:13	21° <u>♂</u> 11'26	
morning rise	-11174 Jan 16 j 19:24	23° <u>♂</u> 09'38		opposition	-11168 Jul 30 j 14:21	19° <u>♂</u> 10'41	-1°05'17
retrograde	-11174 Apr 21 j 06:07	26° <u>♂</u> 17'51		min. Earth dist.	-11168 Jul 30 j 22:27	19° <u>♂</u> 09'49	18.46505 AU
opposition	-11174 Jul 06 j 18:19	24° <u>♂</u> 17'28	-0°40'27	direct	-11168 Oct 13 j 07:12	17° <u>♂</u> 10'21	
min. Earth dist.	-11174 Jul 06 j 13:28	24° <u>♂</u> 17'58	18.82840 AU	evening set	-11167 Jan 13 j 13:17	20° <u>♂</u> 18'41	
direct	-11174 Sep 19 j 08:04	22° <u>♂</u> 19'12					
evening set	-11174 Dec 18 j 23:44	25° <u>♂</u> 20'42		conjunction	-11167 Jan 30 j 07:47	21° <u>♂</u> 16'47	-1°00'18
				minimum elong	-11167 Jan 30 j 07:47	21° <u>♂</u> 16'47	1°00'44
conjunction	-11173 Jan 04 j 14:27	26° <u>♂</u> 17'08	-0°38'40	max. Earth dist.	-11167 Jan 29 j 21:20	21° <u>♂</u> 15'16	20.43042 AU
minimum elong	-11173 Jan 04 j 14:26	26° <u>♂</u> 17'08	0°38'54	morning rise	-11167 Feb 16 j 03:12	22° <u>♂</u> 15'05	
max. Earth dist.	-11173 Jan 04 j 19:42	26° <u>♂</u> 17'53	20.80143 AU	retrograde	-11167 May 20 j 22:02	25° <u>♂</u> 26'53	
morning rise	-11173 Jan 21 j 07:48	27° <u>♂</u> 13'59		opposition	-11167 Aug 03 j 23:49	23° <u>♂</u> 26'02	-1°08'25
	-11173 Mar 26 j 11:43	0° <u>♂</u>		min. Earth dist.	-11167 Aug 04 j 09:19	23° <u>♂</u> 25'02	18.39540 AU
retrograde	-11173 Apr 25 j 17:15	0° <u>♂</u> 22'36		direct	-11167 Oct 17 j 18:55	21° <u>♂</u> 25'19	
	-11173 May 26 j 03:55	30° <u>♂</u> 22'36		evening set	-11166 Jan 18 j 06:59	24° <u>♂</u> 34'57	
opposition	-11173 Jul 11 j 00:20	28° <u>♂</u> 22'08	-0°45'10	max. Earth dist.	-11166 Feb 03 j 11:51	25° <u>♂</u> 31'18	20.35937 AU
min. Earth dist.	-11173 Jul 10 j 20:33	28° <u>♂</u> 22'32	18.77383 AU				
direct	-11173 Sep 23 j 15:29	26° <u>♂</u> 23'32		conjunction	-11166 Feb 04 j 01:48	25° <u>♂</u> 33'21	-1°02'56
evening set	-11173 Dec 23 j 11:47	29° <u>♂</u> 26'00		minimum elong	-11166 Feb 04 j 01:48	25° <u>♂</u> 33'21	1°03'26
	-11172 Jan 02 j 12:31	0° <u>♂</u>		morning rise	-11166 Feb 20 j 21:19	26° <u>♂</u> 31'53	
				retrograde	-11166 May 25 j 11:46	29° <u>♂</u> 44'17	
conjunction	-11172 Jan 09 j 03:08	0° <u>♂</u> 22'42	-0°42'50	opposition	-11166 Aug 08 j 10:08	27° <u>♂</u> 43'19	-1°11'11
minimum elong	-11172 Jan 09 j 03:08	0° <u>♂</u> 22'42	0°43'05	min. Earth dist.	-11166 Aug 08 j 22:56	27° <u>♂</u> 41'57	18.32325 AU
max. Earth dist.	-11172 Jan 09 j 04:59	0° <u>♂</u> 22'58	20.74563 AU	direct	-11166 Oct 22 j 05:36	25° <u>♂</u> 42'08	
morning rise	-11172 Jan 25 j 21:10	1° <u>♂</u> 19'47		evening set	-11165 Jan 23 j 01:26	28° <u>♂</u> 53'06	
retrograde	-11172 Apr 29 j 03:16	4° <u>♂</u> 28'51					
opposition	-11172 Jul 14 j 06:49	2° <u>♂</u> 28'18	-0°49'41	conjunction	-11165 Feb 08 j 20:43	29° <u>♂</u> 51'47	-1°05'15
min. Earth dist.	-11172 Jul 14 j 05:57	2° <u>♂</u> 28'24	18.71690 AU	minimum elong	-11165 Feb 08 j 20:42	29° <u>♂</u> 51'47	1°05'45
direct	-11172 Sep 26 j 21:19	0° <u>♂</u> 29'22		max. Earth dist.	-11165 Feb 08 j 04:27	29° <u>♂</u> 49'24	20.28613 AU
evening set	-11172 Dec 27 j 00:32	3° <u>♂</u> 32'53			-11165 Feb 11 j 04:38	0° <u>♂</u>	
				morning rise	-11165 Feb 25 j 16:15	0° <u>♂</u> 50'34	
conjunction	-11171 Jan 12 j 16:47	4° <u>♂</u> 29'51	-0°46'48	retrograde	-11165 May 30 j 04:14	4° <u>♂</u> 03'32	
minimum elong	-11171 Jan 12 j 16:46	4° <u>♂</u> 29'51	0°47'07	opposition	-11165 Aug 12 j 21:01	2° <u>♂</u> 02'26	-1°13'35
max. Earth dist.	-11171 Jan 12 j 17:11	4° <u>♂</u> 29'55	20.68753 AU	min. Earth dist.	-11165 Aug 13 j 11:06	2° <u>♂</u> 00'56	18.24901 AU
morning rise	-11171 Jan 29 j 11:08	5° <u>♂</u> 27'10		direct	-11165 Oct 26 j 19:01	0° <u>♂</u> 00'47	
retrograde	-11171 May 03 j 15:55	8° <u>♂</u> 36'44		evening set	-11164 Jan 27 j 21:00	3° <u>♂</u> 13'06	
opposition	-11171 Jul 18 j 13:46	6° <u>♂</u> 36'08	-0°53'59				
min. Earth dist.	-11171 Jul 18 j 14:03	6° <u>♂</u> 36'06	18.65760 AU	conjunction	-11164 Feb 13 j 16:29	4° <u>♂</u> 12'05	-1°07'12
direct	-11171 Oct 01 j 05:46	4° <u>♂</u> 36'53		minimum elong	-11164 Feb 13 j 16:28	4° <u>♂</u> 12'05	1°07'44
evening set	-11171 Dec 31 j 14:11	7° <u>♂</u> 41'30		max. Earth dist.	-11164 Feb 12 j 21:10	4° <u>♂</u> 09'14	20.21103 AU

Attention, astronomical year style is used: The year -11164 in astronomical counting style is the year 11165 BCE in historical counting style.

morning rise	-11164 Mar 01 j 11:53	5°♂11'06	direct	-11158 Nov 26 j 12:11	1°♂04'08	
retrograde	-11164 Jun 02 j 19:06	8°♂24'39	evening set	-11157 Mar 01 j 12:01	4°♂26'16	
opposition	-11164 Aug 16 j 08:43	6°♂23'24 -1°15'34	max. Earth dist.	-11157 Mar 16 j 22:44	5°♂22'13	19.70627 AU
min. Earth dist.	-11164 Aug 17 j 01:55	6°♂21'33	18.17346 AU			
direct	-11164 Oct 30 j 07:48	4°♂21'15	conjunction	-11157 Mar 18 j 06:53	5°♂27'06 -1°09'35	
evening set	-11163 Jan 31 j 17:18	7°♂34'56	minimum elong	-11157 Mar 18 j 06:53	5°♂27'06	1°10'12
			morning rise	-11157 Apr 03 j 23:25	6°♂27'37	
conjunction	-11163 Feb 17 j 12:59	8°♂34'12 -1°08'46	retrograde	-11157 Jul 05 j 03:49	9°♂45'28	
minimum elong	-11163 Feb 17 j 12:58	8°♂34'12	1°09'20	opposition	-11157 Sep 16 j 17:10	7°♂43'32 -1°16'48
max. Earth dist.	-11163 Feb 16 j 15:29	8°♂31'01	20.13518 AU	min. Earth dist.	-11157 Sep 17 j 19:40	7°♂40'39 17.67558 AU
morning rise	-11163 Mar 06 j 08:14	9°♂33'28	direct	-11157 Dec 01 j 09:26	5°♂38'29	
retrograde	-11163 Jun 07 j 12:24	12°♂47'36	evening set	-11156 Mar 05 j 13:56	9°♂02'00	
opposition	-11163 Aug 20 j 21:05	10°♂46'11 -1°17'08	max. Earth dist.	-11156 Mar 21 j 00:10	9°♂58'07	19.64428 AU
min. Earth dist.	-11163 Aug 21 j 15:12	10°♂44'14	18.09754 AU			
direct	-11163 Nov 03 j 23:02	8°♂43'33	conjunction	-11156 Mar 22 j 08:29	10°♂03'04 -1°08'11	
evening set	-11162 Feb 05 j 14:15	11°♂58'37	minimum elong	-11156 Mar 22 j 08:29	10°♂03'04	1°08'48
max. Earth dist.	-11162 Feb 21 j 10:23	12°♂54'39	20.05925 AU	morning rise	-11156 Apr 08 j 00:04	11°♂03'45
			retrograde	-11156 Jul 09 j 00:32	14°♂22'12	
conjunction	-11162 Feb 22 j 10:02	12°♂58'10 -1°09'57	opposition	-11156 Sep 20 j 11:51	12°♂20'18 -1°15'02	
minimum elong	-11162 Feb 22 j 10:02	12°♂58'10	1°10'31	min. Earth dist.	-11156 Sep 21 j 15:56	12°♂17'14 17.61521 AU
morning rise	-11162 Mar 11 j 04:59	13°♂57'39	direct	-11156 Dec 05 j 05:49	10°♂14'59	
retrograde	-11162 Jun 12 j 04:27	17°♂12'24	evening set	-11155 Mar 10 j 16:40	13°♂39'49	
opposition	-11162 Aug 25 j 10:21	15°♂10'49 -1°18'15	max. Earth dist.	-11155 Mar 26 j 00:05	14°♂35'47	19.58555 AU
min. Earth dist.	-11162 Aug 26 j 07:08	15°♂08'35	18.02204 AU			
direct	-11162 Nov 08 j 13:36	13°♂07'42	conjunction	-11155 Mar 27 j 10:31	14°♂41'04 -1°06'19	
evening set	-11161 Feb 10 j 12:12	16°♂24'10	minimum elong	-11155 Mar 27 j 10:31	14°♂41'04	1°06'56
max. Earth dist.	-11161 Feb 26 j 06:12	17°♂20'09	19.98428 AU	morning rise	-11155 Apr 13 j 01:27	15°♂41'55
			retrograde	-11155 Jul 13 j 22:57	19°♂00'58	
conjunction	-11161 Feb 27 j 07:58	17°♂24'00 -1°10'44	opposition	-11155 Sep 25 j 07:26	16°♂59'04 -1°12'44	
minimum elong	-11161 Feb 27 j 07:58	17°♂24'00	1°11'19	min. Earth dist.	-11155 Sep 26 j 12:07	16°♂55'56 17.55813 AU
morning rise	-11161 Mar 16 j 02:40	18°♂23'43	direct	-11155 Dec 10 j 04:43	14°♂53'28	
retrograde	-11161 Jun 16 j 22:43	21°♂39'04	evening set	-11154 Mar 15 j 19:45	18°♂19'35	
opposition	-11161 Aug 30 j 00:11	19°♂37'21 -1°18'56	max. Earth dist.	-11154 Mar 31 j 02:58	19°♂15'44	19.52991 AU
min. Earth dist.	-11161 Aug 30 j 21:40	19°♂35'02	17.94781 AU			
direct	-11161 Nov 13 j 06:40	17°♂33'45	conjunction	-11154 Apr 01 j 13:10	19°♂21'01 -1°04'01	
evening set	-11160 Feb 15 j 11:01	20°♂51'39	minimum elong	-11154 Apr 01 j 13:11	19°♂21'01	1°04'36
max. Earth dist.	-11160 Mar 02 j 03:29	21°♂47'40	19.91079 AU	morning rise	-11154 Apr 18 j 03:05	20°♂21'59
			retrograde	-11154 Jul 18 j 21:37	23°♂41'35	
conjunction	-11160 Mar 03 j 06:45	21°♂51'45 -1°11'06	opposition	-11154 Sep 30 j 04:05	21°♂39'42 -1°09'56	
minimum elong	-11160 Mar 03 j 06:44	21°♂51'45	1°11'41	min. Earth dist.	-11154 Oct 01 j 09:53	21°♂36'27 17.50398 AU
morning rise	-11160 Mar 20 j 00:53	22°♂51'41	direct	-11154 Dec 15 j 03:27	19°♂33'51	
retrograde	-11160 Jun 20 j 16:21	26°♂07'38	evening set	-11153 Mar 20 j 23:44	23°♂01'08	
opposition	-11160 Sep 02 j 15:11	24°♂05'50 -1°19'08	max. Earth dist.	-11153 Apr 05 j 04:02	23°♂57'06	19.47733 AU
min. Earth dist.	-11160 Sep 03 j 14:54	24°♂03'16	17.87549 AU			
direct	-11160 Nov 16 j 23:04	22°♂01'49	conjunction	-11153 Apr 06 j 16:17	24°♂02'43 -1°01'16	
evening set	-11159 Feb 19 j 10:30	25°♂21'08	minimum elong	-11153 Apr 06 j 16:17	24°♂02'43	1°01'50
max. Earth dist.	-11159 Mar 07 j 00:40	26°♂17'04	19.83970 AU	morning rise	-11153 Apr 23 j 05:23	25°♂03'49
			retrograde	-11153 Jul 23 j 20:55	28°♂23'55	
conjunction	-11159 Mar 08 j 05:57	26°♂21'29 -1°11'02	opposition	-11153 Oct 05 j 01:30	26°♂22'00 -1°06'40	
minimum elong	-11159 Mar 08 j 05:57	26°♂21'29	1°11'38	min. Earth dist.	-11153 Oct 06 j 07:59	26°♂18'41 17.45307 AU
morning rise	-11159 Mar 24 j 23:42	27°♂21'37	direct	-11153 Dec 20 j 03:21	24°♂15'54	
	-11159 May 18 j 14:51	0°♂	evening set	-11152 Mar 25 j 03:59	27°♂44'15	
retrograde	-11159 Jun 25 j 11:44	0°♂38'13	max. Earth dist.	-11152 Apr 09 j 08:14	28°♂40'25	19.42805 AU
	-11159 Aug 02 j 19:52	30°♂	conjunction	-11152 Apr 10 j 19:54	28°♂45'58 -0°58'05	
opposition	-11159 Sep 07 j 06:54	28°♂36'19 -1°18'51	minimum elong	-11152 Apr 10 j 19:54	28°♂45'58	0°58'38
min. Earth dist.	-11159 Sep 08 j 07:01	28°♂33'42	17.80579 AU	morning rise	-11152 Apr 27 j 07:52	29°♂47'10
direct	-11159 Nov 21 j 18:03	26°♂31'55		-11152 Apr 30 j 20:54	0°♂	
evening set	-11158 Feb 24 j 10:48	29°♂52'39	retrograde	-11152 Jul 27 j 21:18	3°♂07'43	
	-11158 Feb 26 j 12:26	0°♂	opposition	-11152 Oct 08 j 23:58	1°♂05'46 -1°02'55	
max. Earth dist.	-11158 Mar 12 j 00:06	0°♂48'42	19.77136 AU	min. Earth dist.	-11152 Oct 10 j 06:50	1°♂02'24 17.40550 AU
			direct	-11152 Nov 04 j 09:47	30°♂	
conjunction	-11158 Mar 13 j 06:07	0°♂53'15 -1°10'32		-11152 Dec 24 j 04:21	28°♂59'26	
minimum elong	-11158 Mar 13 j 06:07	0°♂53'15	1°11'09	-11151 Feb 10 j 19:57	0°♂	
morning rise	-11158 Mar 29 j 23:07	1°♂53'35	evening set	-11151 Mar 30 j 08:32	2°♂28'44	
retrograde	-11158 Jun 30 j 06:53	5°♂10'48	max. Earth dist.	-11151 Apr 14 j 10:28	3°♂24'47	19.38246 AU
opposition	-11158 Sep 11 j 23:34	3°♂08'53 -1°18'05				
min. Earth dist.	-11158 Sep 13 j 01:36	3°♂06'03	17.73906 AU			

Attention, astronomical year style is used: The year -11151 in astronomical counting style is the year 11152 BCE in historical counting style.

conjunction	-11151 Apr 15 j 23:26	3°≈30'33	-0°54'30	max. Earth dist.	-11145 May 14 j 14:20	2°≈09'53	19.22060 AU
minimum elong	-11151 Apr 15 j 23:26	3°≈30'33	0°55'03	morning rise	-11145 Jun 01 j 01:07	3°≈15'57	
morning rise	-11151 May 02 j 10:27	4°≈31'49		retrograde	-11145 Aug 30 j 22:02	6°≈38'23	
retrograde	-11151 Aug 01 j 20:39	7°≈52'47		opposition	-11145 Nov 12 j 07:47	4°≈36'11	-0°25'59
opposition	-11151 Oct 13 j 23:09	5°≈50'47	-0°58'43	min. Earth dist.	-11145 Nov 13 j 11:09	4°≈33'13	17.21838 AU
min. Earth dist.	-11151 Oct 15 j 06:32	5°≈47'22	17.36205 AU	direct	-11144 Jan 28 j 04:50	2°≈29'03	
direct	-11151 Dec 29 j 04:55	3°≈44'12		evening set	-11144 May 03 j 16:59	6°≈01'48	
evening set	-11150 Apr 04 j 13:14	7°≈14'22		max. Earth dist.	-11144 May 18 j 18:35	6°≈58'49	19.21698 AU
max. Earth dist.	-11150 Apr 19 j 15:24	8°≈10'37	19.34123 AU				
conjunction	-11150 Apr 21 j 03:21	8°≈16'16	-0°50'32	conjunction	-11144 May 20 j 00:07	7°≈03'31	-0°20'22
minimum elong	-11150 Apr 21 j 03:21	8°≈16'16	0°51'03	minimum elong	-11144 May 20 j 00:08	7°≈03'31	0°20'39
morning rise	-11150 May 07 j 13:13	9°≈17'34		morning rise	-11144 Jun 05 j 02:53	8°≈04'35	
retrograde	-11150 Aug 06 j 21:50	12°≈38'53		retrograde	-11144 Sep 04 j 00:23	11°≈27'08	
opposition	-11150 Oct 18 j 22:53	10°≈36'49	-0°54'06	opposition	-11144 Nov 16 j 11:06	9°≈25'00	-0°19'37
min. Earth dist.	-11150 Oct 20 j 05:53	10°≈33'26	17.32307 AU	min. Earth dist.	-11144 Nov 17 j 11:49	9°≈22'19	17.21818 AU
direct	-11149 Jan 03 j 08:15	8°≈30'02		direct	-11143 Feb 01 j 11:09	7°≈17'59	
evening set	-11149 Apr 09 j 18:13	12°≈00'55		evening set	-11143 May 08 j 20:38	10°≈50'45	
max. Earth dist.	-11149 Apr 24 j 18:53	12°≈57'09	19.30483 AU	max. Earth dist.	-11143 May 23 j 23:49	11°≈48'05	19.22029 AU
conjunction	-11149 Apr 26 j 07:15	13°≈02'52	-0°46'13	conjunction	-11143 May 25 j 02:38	11°≈52'21	-0°14'36
minimum elong	-11149 Apr 26 j 07:16	13°≈02'52	0°46'42	minimum elong	-11143 May 25 j 02:38	11°≈52'21	0°14'51
morning rise	-11149 May 12 j 16:01	14°≈04'12		behind sun begin	-11143 May 25 j 00:01	11°≈51'56	
	-11149 May 28 j 08:03	15°≈		behind sun end	-11143 May 25 j 05:15	11°≈52'45	
retrograde	-11149 Aug 11 j 20:43	17°≈25'49		morning rise	-11143 Jun 10 j 04:03	12°≈53'17	
opposition	-11149 Oct 23 j 23:32	15°≈23'41	-0°49'06	retrograde	-11143 Sep 09 j 00:37	16°≈15'55	
min. Earth dist.	-11149 Oct 25 j 06:52	15°≈20'16	17.28942 AU	opposition	-11143 Nov 21 j 14:53	14°≈13'53	-0°13'06
	-11149 Nov 02 j 01:38	15°≈		min. Earth dist.	-11143 Nov 22 j 14:59	14°≈11'17	17.22479 AU
direct	-11148 Jan 08 j 10:16	13°≈16'42		direct	-11142 Feb 06 j 15:05	12°≈07'04	
	-11148 Mar 12 j 23:29	15°≈		evening set	-11142 May 14 j 00:12	15°≈39'43	
evening set	-11148 Apr 13 j 23:01	16°≈48'13		max. Earth dist.	-11142 May 29 j 03:03	16°≈37'04	19.23024 AU
max. Earth dist.	-11148 Apr 29 j 00:01	17°≈44'39	19.27406 AU				
conjunction	-11148 Apr 30 j 11:01	17°≈50'11	-0°41'34	conjunction	-11142 May 30 j 04:45	16°≈41'09	-0°08'45
minimum elong	-11148 Apr 30 j 11:01	17°≈50'11	0°42'01	minimum elong	-11142 May 30 j 04:45	16°≈41'09	0°08'56
morning rise	-11148 May 16 j 18:36	18°≈51'30		behind sun begin	-11142 May 29 j 23:02	16°≈40'16	
retrograde	-11148 Aug 15 j 22:03	22°≈13'23		behind sun end	-11142 May 30 j 10:27	16°≈42'02	
opposition	-11148 Oct 28 j 00:45	20°≈11'12	-0°43'46	morning rise	-11142 Jun 15 j 05:06	17°≈41'58	
min. Earth dist.	-11148 Oct 29 j 06:42	20°≈07'55	17.26154 AU	retrograde	-11142 Sep 14 j 02:53	21°≈04'36	
direct	-11147 Jan 12 j 15:43	18°≈04'05		opposition	-11142 Nov 26 j 18:44	19°≈02'41	-0°06'30
evening set	-11147 Apr 19 j 03:48	21°≈36'05		min. Earth dist.	-11142 Nov 27 j 16:14	19°≈00'22	17.23774 AU
max. Earth dist.	-11147 May 04 j 04:28	22°≈32'37	19.24938 AU	direct	-11141 Feb 11 j 20:57	16°≈56'05	
conjunction	-11147 May 05 j 14:39	22°≈38'01	-0°36'37	evening set	-11141 May 19 j 03:14	20°≈28'30	
minimum elong	-11147 May 05 j 14:39	22°≈38'01	0°37'01	max. Earth dist.	-11141 Jun 03 j 08:00	21°≈26'10	19.24616 AU
morning rise	-11147 May 21 j 21:00	23°≈39'19					
retrograde	-11147 Aug 20 j 20:54	27°≈01'26		conjunction	-11141 Jun 04 j 06:37	21°≈29'46	-0°02'50
opposition	-11147 Nov 02 j 02:35	24°≈59'11	-0°38'06	minimum elong	-11141 Jun 04 j 06:36	21°≈29'46	0°02'59
min. Earth dist.	-11147 Nov 03 j 08:29	24°≈55'56	17.24023 AU	behind sun begin	-11141 Jun 03 j 23:59	21°≈28'44	
direct	-11146 Jan 17 j 18:46	22°≈52'00		behind sun end	-11141 Jun 04 j 13:13	21°≈30'48	
evening set	-11146 Apr 24 j 08:21	26°≈24'22		morning rise	-11141 Jun 20 j 05:34	22°≈30'24	
max. Earth dist.	-11146 May 09 j 09:16	27°≈21'04	19.23155 AU	retrograde	-11141 Sep 19 j 03:31	25°≈53'00	
conjunction	-11146 May 10 j 18:02	27°≈26'15	-0°31'25	asc. node	-11141 Nov 23 j 22:15	24°≈11'51	
minimum elong	-11146 May 10 j 18:02	27°≈26'15	0°31'47	opposition	-11141 Dec 01 j 23:12	23°≈51'13	0°00'09
morning rise	-11146 May 26 j 23:15	28°≈27'30		min. Earth dist.	-11141 Dec 02 j 19:43	23°≈49'01	17.25641 AU
	-11146 Jun 22 j 15:53	0°≈		direct	-11140 Feb 17 j 01:20	21°≈44'53	
retrograde	-11146 Aug 25 j 22:40	1°≈49'47		evening set	-11140 May 23 j 05:46	25°≈16'55	
	-11146 Nov 02 j 10:28	30°≈		max. Earth dist.	-11140 Jun 07 j 10:08	26°≈14'32	19.26762 AU
opposition	-11146 Nov 07 j 04:52	29°≈47'33	-0°32'09	conjunction	-11140 Jun 08 j 07:38	26°≈17'58	0°03'16
min. Earth dist.	-11146 Nov 08 j 08:37	29°≈44'32	17.22573 AU	minimum elong	-11140 Jun 08 j 07:38	26°≈17'57	0°03'11
direct	-11145 Jan 23 j 01:17	27°≈40'21		behind sun begin	-11140 Jun 08 j 01:02	26°≈16'56	
	-11145 Apr 08 j 22:12	0°≈		behind sun end	-11140 Jun 08 j 14:14	26°≈18'59	
evening set	-11145 Apr 29 j 12:46	1°≈12'58		morning rise	-11140 Jun 24 j 05:35	27°≈18'25	
conjunction	-11145 May 15 j 21:15	2°≈14'47	-0°25'59		-11140 Aug 15 j 20:51	0°≈	
minimum elong	-11145 May 15 j 21:16	2°≈14'47	0°26'18	retrograde	-11140 Sep 23 j 05:31	0°≈40'57	
					-11140 Nov 01 j 20:23	30°≈	
				opposition	-11140 Dec 06 j 03:40	28°≈39'15	0°06'47
				min. Earth dist.	-11140 Dec 06 j 21:33	28°≈37'20	17.28046 AU
				direct	-11139 Feb 21 j 06:42	26°≈33'11	

Attention, astronomical year style is used: The year -11139 in astronomical counting style is the year 11140 BCE in historical counting style.

	-11139 May 27 j 01:23	0°♊	conjunction	-11133 Jul 11 j 19:08	29°♊24'40	0°41'24
evening set	-11139 May 28 j 07:38	0°♊04'41	minimum elong	-11133 Jul 11 j 19:07	29°♊24'40	0°41'40
			max. Earth dist.	-11133 Jul 11 j 16:12	29°♊24'13	19.54886 AU
conjunction	-11139 Jun 13 j 08:22	1°♊05'31 0°09'09		-11133 Jul 21 j 03:27	0°♊	
minimum elong	-11139 Jun 13 j 08:21	1°♊05'31 0°09'06	morning rise	-11133 Jul 27 j 10:16	0°♊23'25	
behind sun begin	-11139 Jun 13 j 02:43	1°♊04'38	retrograde	-11133 Oct 26 j 21:52	3°♊43'43	
behind sun end	-11139 Jun 13 j 14:00	1°♊06'23	opposition	-11132 Jan 10 j 05:45	1°♊42'22	0°48'40
max. Earth dist.	-11139 Jun 12 j 14:10	1°♊02'37 19.29414 AU	min. Earth dist.	-11132 Jan 10 j 06:39	1°♊42'17	17.57748 AU
morning rise	-11139 Jun 29 j 05:01	2°♊05'46		-11132 Feb 27 j 03:31	30°♊	
retrograde	-11139 Sep 28 j 05:56	5°♊28'08	direct	-11132 Mar 27 j 13:12	29°♊38'29	
opposition	-11139 Dec 11 j 08:05	3°♊26'31 0°13'21		-11132 Apr 25 j 04:57	0°♊	
min. Earth dist.	-11139 Dec 12 j 00:32	3°♊24'46 17.30931 AU	evening set	-11132 Jun 29 j 21:03	3°♊03'11	
direct	-11138 Feb 26 j 11:37	1°♊20'45				
evening set	-11138 Jun 02 j 08:56	4°♊51'36	conjunction	-11132 Jul 15 j 13:40	4°♊01'57	0°45'55
			minimum elong	-11132 Jul 15 j 13:39	4°♊01'57	0°46'14
conjunction	-11138 Jun 18 j 08:14	5°♊52'11 0°14'58	max. Earth dist.	-11132 Jul 15 j 13:24	4°♊01'55	19.60724 AU
minimum elong	-11138 Jun 18 j 08:14	5°♊52'11 0°14'58	morning rise	-11132 Jul 31 j 04:11	5°♊00'26	
behind sun begin	-11138 Jun 18 j 05:38	5°♊51'46	retrograde	-11132 Oct 30 j 17:54	8°♊20'15	
behind sun end	-11138 Jun 18 j 10:49	5°♊52'35	opposition	-11131 Jan 14 j 07:49	6°♊18'59	0°53'31
max. Earth dist.	-11138 Jun 17 j 15:09	5°♊49'28 19.32537 AU	min. Earth dist.	-11131 Jan 14 j 06:37	6°♊19'07	17.63823 AU
morning rise	-11138 Jul 04 j 03:58	6°♊52'13	direct	-11131 Apr 01 j 12:52	4°♊15'30	
retrograde	-11138 Oct 03 j 06:36	10°♊14'22	evening set	-11131 Jul 04 j 15:44	7°♊38'56	
opposition	-11138 Dec 16 j 12:27	8°♊12'49 0°19'48				
min. Earth dist.	-11138 Dec 17 j 02:27	8°♊11'20 17.34281 AU	conjunction	-11131 Jul 20 j 07:30	8°♊37'23	0°50'07
direct	-11137 Mar 03 j 16:39	6°♊07'19	minimum elong	-11131 Jul 20 j 07:30	8°♊37'23	0°50'27
evening set	-11137 Jun 07 j 09:14	9°♊37'25	max. Earth dist.	-11131 Jul 20 j 10:18	8°♊37'50	19.67014 AU
			morning rise	-11131 Aug 04 j 21:26	9°♊35'35	
conjunction	-11137 Jun 23 j 07:25	10°♊37'43 0°20'40	retrograde	-11131 Nov 04 j 15:13	12°♊54'53	
minimum elong	-11137 Jun 23 j 07:25	10°♊37'43 0°20'44	opposition	-11130 Jan 19 j 08:54	10°♊53'45	0°57'59
max. Earth dist.	-11137 Jun 22 j 17:48	10°♊35'34 19.36110 AU	min. Earth dist.	-11130 Jan 19 j 04:02	10°♊54'15	17.70306 AU
morning rise	-11137 Jul 09 j 01:57	11°♊37'31	direct	-11130 Apr 06 j 14:13	8°♊50'42	
retrograde	-11137 Oct 08 j 06:07	14°♊59'24	evening set	-11130 Jul 09 j 09:28	12°♊12'51	
opposition	-11137 Dec 21 j 16:45	12°♊57'55 0°26'04				
min. Earth dist.	-11137 Dec 22 j 04:35	12°♊56'39 17.38063 AU	conjunction	-11130 Jul 25 j 00:25	13°♊10'59	0°53'59
direct	-11136 Mar 07 j 22:23	10°♊52'43	minimum elong	-11130 Jul 25 j 00:24	13°♊10'59	0°54'22
evening set	-11136 Jun 11 j 08:51	14°♊21'54	max. Earth dist.	-11130 Jul 25 j 06:03	13°♊11'51	19.73680 AU
			morning rise	-11130 Aug 09 j 13:50	14°♊08'54	
conjunction	-11136 Jun 27 j 05:41	15°♊21'55 0°26'11		-11130 Aug 23 j 23:49	15°♊	
minimum elong	-11136 Jun 27 j 05:41	15°♊21'55 0°26'18	retrograde	-11130 Nov 09 j 10:03	17°♊27'41	
max. Earth dist.	-11136 Jun 26 j 17:41	15°♊20'01 19.40124 AU	opposition	-11129 Jan 24 j 09:43	15°♊26'41	1°02'04
morning rise	-11136 Jul 12 j 23:24	16°♊21'28	min. Earth dist.	-11129 Jan 24 j 03:06	15°♊27'22	17.77150 AU
retrograde	-11136 Oct 12 j 05:04	19°♊43'02		-11129 Feb 04 j 04:54	15°♊	
opposition	-11136 Dec 25 j 20:40	17°♊41'34 0°32'08	direct	-11129 Apr 11 j 11:51	13°♊24'07	
min. Earth dist.	-11136 Dec 26 j 06:10	17°♊40'33 17.42309 AU		-11129 Jun 12 j 13:45	15°♊	
direct	-11135 Mar 13 j 02:30	15°♊36'40	evening set	-11129 Jul 14 j 02:09	16°♊44'56	
evening set	-11135 Jun 16 j 07:15	19°♊04'51				
			conjunction	-11129 Jul 29 j 16:23	17°♊42'44	0°57'29
conjunction	-11135 Jul 02 j 03:06	20°♊04'35 0°31'31	minimum elong	-11129 Jul 29 j 16:22	17°♊42'44	0°57'54
minimum elong	-11135 Jul 02 j 03:05	20°♊04'35 0°31'41	max. Earth dist.	-11129 Jul 30 j 00:38	17°♊44'01	19.80673 AU
max. Earth dist.	-11135 Jul 01 j 18:36	20°♊03'14 19.44594 AU	morning rise	-11129 Aug 14 j 05:26	18°♊40'23	
morning rise	-11135 Jul 17 j 19:50	21°♊03'52	retrograde	-11129 Nov 14 j 07:10	21°♊58'38	
retrograde	-11135 Oct 17 j 03:12	24°♊25'03	opposition	-11128 Jan 29 j 09:46	19°♊57'47	1°05'45
opposition	-11135 Dec 31 j 00:09	22°♊23'37 0°37'57	min. Earth dist.	-11128 Jan 28 j 23:31	19°♊58'51	17.84266 AU
min. Earth dist.	-11135 Dec 31 j 06:49	22°♊22'54 17.46990 AU	direct	-11128 Apr 15 j 11:48	17°♊55'42	
direct	-11134 Mar 18 j 07:43	20°♊19'01	evening set	-11128 Jul 17 j 18:03	21°♊15'09	
evening set	-11134 Jun 21 j 04:54	23°♊46'07				
			conjunction	-11128 Aug 02 j 07:40	22°♊12'39	1°00'36
conjunction	-11134 Jul 06 j 23:31	24°♊45'32 0°36'35	minimum elong	-11128 Aug 02 j 07:40	22°♊12'39	1°01'04
minimum elong	-11134 Jul 06 j 23:31	24°♊45'32 0°36'49	max. Earth dist.	-11128 Aug 02 j 18:50	22°♊14'23	19.87887 AU
max. Earth dist.	-11134 Jul 06 j 17:08	24°♊44'31 19.49503 AU	morning rise	-11128 Aug 17 j 20:23	23°♊10'02	
morning rise	-11134 Jul 22 j 15:29	25°♊44'33	retrograde	-11128 Nov 18 j 00:37	26°♊27'43	
retrograde	-11134 Oct 22 j 00:20	29°♊05'19	opposition	-11127 Feb 02 j 09:09	24°♊27'01	1°08'59
opposition	-11133 Jan 05 j 03:11	27°♊03'54 0°43'28	min. Earth dist.	-11127 Feb 01 j 21:35	24°♊28'13	17.91576 AU
min. Earth dist.	-11133 Jan 05 j 07:37	27°♊03'26 17.52139 AU	direct	-11127 Apr 20 j 08:03	22°♊25'26	
direct	-11133 Mar 23 j 09:55	24°♊59'39	evening set	-11127 Jul 22 j 09:04	25°♊43'30	
evening set	-11133 Jun 26 j 01:29	28°♊25'35				
			conjunction	-11127 Aug 06 j 22:07	26°♊40'41	1°03'20

Attention, astronomical year style is used: The year -11127 in astronomical counting style is the year 11128 BCE in historical counting style.

minimum elong	-11127 Aug 06 j 22:07	26° 8 40'41	1°03'50	min. Earth dist.	-11120 Mar 05 j 04:03	24° II 58'30	18.42063 AU
max. Earth dist.	-11127 Aug 07 j 11:11	26° 8 42'42	19.95256 AU	opposition	-11120 Mar 06 j 05:27	24° II 55'56	1°19'00
morning rise	-11127 Aug 22 j 10:43	27° 8 37'48		direct	-11120 May 21 j 18:27	22° II 57'03	
	-11127 Oct 07 j 15:02	0° II		evening set	-11120 Aug 20 j 17:51	26° II 05'31	
retrograde	-11127 Nov 22 j 20:15	0° II 54'55					
	-11126 Jan 10 j 03:32	30° 8		conjunction	-11120 Sep 05 j 06:01	27° II 00'49	1°11'07
opposition	-11126 Feb 07 j 07:40	28° 8 54'21	1°11'47	minimum elong	-11120 Sep 05 j 06:01	27° II 00'49	1°11'44
min. Earth dist.	-11126 Feb 06 j 16:50	28° 8 55'53	17.98983 AU	max. Earth dist.	-11120 Sep 06 j 08:55	27° II 04'51	20.45389 AU
direct	-11126 Apr 25 j 06:39	26° 8 53'14		morning rise	-11120 Sep 20 j 19:43	27° II 56'21	
	-11126 Jul 24 j 04:47	0° II			-11120 Oct 30 j 22:59	0° II	
evening set	-11126 Jul 26 j 23:11	0° II 09'55		retrograde	-11120 Dec 23 j 04:28	1° II 09'05	
					-11119 Feb 17 j 03:55	30° 8 II	
conjunction	-11126 Aug 11 j 11:50	1° II 06'48	1°05'40	opposition	-11119 Mar 10 j 21:40	29° II 09'00	1°18'40
minimum elong	-11126 Aug 11 j 11:50	1° II 06'48	1°06'11	min. Earth dist.	-11119 Mar 09 j 19:21	29° II 11'40	18.48808 AU
max. Earth dist.	-11126 Aug 12 j 03:39	1° II 09'14	20.02666 AU	direct	-11119 May 26 j 08:40	27° II 10'26	
morning rise	-11126 Aug 27 j 00:11	2° II 03'39			-11119 Aug 19 j 23:33	0° II	
retrograde	-11126 Nov 27 j 12:21	5° II 20'11		evening set	-11119 Aug 25 j 02:11	0° II 17'40	
opposition	-11125 Feb 12 j 05:36	3° II 19'45	1°14'07				
min. Earth dist.	-11125 Feb 11 j 13:44	3° II 21'22	18.06405 AU	conjunction	-11119 Sep 09 j 14:28	1° II 12'45	1°10'39
direct	-11125 Apr 30 j 01:42	1° II 19'04		minimum elong	-11119 Sep 09 j 14:29	1° II 12'45	1°11'15
evening set	-11125 Jul 31 j 12:33	4° II 34'22		max. Earth dist.	-11119 Sep 10 j 17:57	1° II 16'51	20.52078 AU
				morning rise	-11119 Sep 25 j 04:49	2° II 08'07	
conjunction	-11125 Aug 16 j 00:47	5° II 30'56	1°07'36	retrograde	-11119 Dec 27 j 16:55	5° II 20'16	
minimum elong	-11125 Aug 16 j 00:47	5° II 30'56	1°08'08	min. Earth dist.	-11118 Mar 14 j 08:43	3° II 23'05	18.55447 AU
max. Earth dist.	-11125 Aug 16 j 17:59	5° II 33'34	20.10074 AU	opposition	-11118 Mar 15 j 13:04	3° II 20'14	1°17'55
morning rise	-11125 Aug 31 j 13:13	6° II 27'33		direct	-11118 May 30 j 21:44	1° II 21'58	
retrograde	-11125 Dec 02 j 06:13	9° II 43'28		evening set	-11118 Aug 29 j 09:38	4° II 28'01	
min. Earth dist.	-11124 Feb 16 j 07:46	7° II 45'03	18.13786 AU				
opposition	-11124 Feb 17 j 02:36	7° II 43'08	1°16'00	conjunction	-11118 Sep 13 j 22:21	5° II 22'55	1°09'49
direct	-11124 May 03 j 22:26	5° II 42'52		minimum elong	-11118 Sep 13 j 22:22	5° II 22'55	1°10'27
evening set	-11124 Aug 04 j 00:53	8° II 56'45		max. Earth dist.	-11118 Sep 15 j 04:23	5° II 27'22	20.58641 AU
				morning rise	-11118 Sep 29 j 13:08	6° II 18'07	
conjunction	-11124 Aug 19 j 13:00	9° II 53'03	1°09'06	retrograde	-11117 Jan 01 j 03:53	9° II 29'42	
minimum elong	-11124 Aug 19 j 13:00	9° II 53'03	1°09'39	min. Earth dist.	-11117 Mar 18 j 22:21	7° II 32'42	18.61943 AU
max. Earth dist.	-11124 Aug 20 j 08:51	9° II 56'05	20.17396 AU	opposition	-11117 Mar 20 j 03:40	7° II 29'45	1°16'45
morning rise	-11124 Sep 04 j 01:26	10° II 49'26		direct	-11117 Jun 04 j 09:48	5° II 31'50	
retrograde	-11124 Dec 05 j 21:02	14° II 04'43		evening set	-11117 Sep 02 j 16:44	8° II 36'45	
opposition	-11123 Feb 20 j 22:48	12° II 04'28	1°17'25				
min. Earth dist.	-11123 Feb 20 j 03:09	12° II 06'28	18.21057 AU	conjunction	-11117 Sep 18 j 05:44	9° II 31'28	1°08'38
direct	-11123 May 08 j 16:12	10° II 04'36		minimum elong	-11117 Sep 18 j 05:44	9° II 31'28	1°09'15
evening set	-11123 Aug 08 j 12:31	13° II 17'05		max. Earth dist.	-11117 Sep 19 j 12:04	9° II 35'57	20.65067 AU
				morning rise	-11117 Oct 03 j 21:21	10° II 26'32	
conjunction	-11123 Aug 24 j 00:24	14° II 13'07	1°10'12	retrograde	-11116 Jan 05 j 15:50	13° II 37'35	
minimum elong	-11123 Aug 24 j 00:24	14° II 13'07	1°10'47	min. Earth dist.	-11116 Mar 22 j 10:36	11° II 40'50	18.68287 AU
max. Earth dist.	-11123 Aug 24 j 21:10	14° II 16'16	20.24602 AU	opposition	-11116 Mar 23 j 17:23	11° II 37'44	1°15'13
morning rise	-11123 Sep 08 j 13:07	15° II 09'16		direct	-11116 Jun 07 j 20:46	9° II 40'09	
retrograde	-11123 Dec 10 j 12:55	18° II 23'54		evening set	-11116 Sep 05 j 23:08	12° II 44'00	
opposition	-11122 Feb 25 j 17:48	16° II 23'43	1°18'23				
min. Earth dist.	-11122 Feb 24 j 19:38	16° II 25'58	18.28197 AU	conjunction	-11116 Sep 21 j 12:48	13° II 38'34	1°07'05
direct	-11122 May 13 j 10:27	14° II 24'11		minimum elong	-11116 Sep 21 j 12:48	13° II 38'34	1°07'43
evening set	-11122 Aug 12 j 23:08	17° II 35'19		max. Earth dist.	-11116 Sep 22 j 21:20	13° II 43'21	20.71297 AU
				morning rise	-11116 Oct 07 j 05:01	14° II 33'31	
conjunction	-11122 Aug 28 j 11:05	18° II 31'05	1°10'54	retrograde	-11115 Jan 09 j 01:51	17° II 44'03	
minimum elong	-11122 Aug 28 j 11:05	18° II 31'05	1°11'30	min. Earth dist.	-11115 Mar 26 j 22:53	15° II 47'29	18.74393 AU
max. Earth dist.	-11122 Aug 29 j 10:29	18° II 34'37	20.31661 AU	opposition	-11115 Mar 28 j 06:18	15° II 44'20	1°13'18
morning rise	-11122 Sep 12 j 23:58	19° II 27'01		direct	-11115 Jun 12 j 06:49	13° II 47'04	
retrograde	-11122 Dec 15 j 02:20	22° II 41'00		evening set	-11115 Sep 10 j 05:16	16° II 49'55	
opposition	-11121 Mar 02 j 12:09	20° II 40'51	1°18'55				
min. Earth dist.	-11121 Mar 01 j 13:05	20° II 43'12	18.35190 AU	conjunction	-11115 Sep 25 j 19:19	17° II 44'21	1°05'13
direct	-11121 May 18 j 02:43	18° II 41'40		minimum elong	-11115 Sep 25 j 19:20	17° II 44'21	1°05'49
evening set	-11121 Aug 17 j 08:52	21° II 51'26		max. Earth dist.	-11115 Sep 27 j 03:42	17° II 49'05	20.77271 AU
				morning rise	-11115 Oct 11 j 12:29	18° II 39'11	
conjunction	-11121 Sep 01 j 20:46	22° II 46'58	1°11'12	retrograde	-11114 Jan 13 j 13:02	21° II 49'14	
minimum elong	-11121 Sep 01 j 20:46	22° II 46'58	1°11'48	min. Earth dist.	-11114 Mar 31 j 10:14	19° II 52'51	18.80221 AU
max. Earth dist.	-11121 Sep 02 j 21:01	22° II 50'37	20.38591 AU	opposition	-11114 Apr 01 j 18:24	19° II 49'37	1°11'01
morning rise	-11121 Sep 17 j 10:09	23° II 42'41		direct	-11114 Jun 16 j 16:05	17° II 52'40	
retrograde	-11121 Dec 19 j 16:19	26° II 56'04		evening set	-11114 Sep 14 j 10:54	20° II 54'35	

Attention, astronomical year style is used: The year -11114 in astronomical counting style is the year 11115 BCE in historical counting style.

conjunction	-11114 Sep 30 j 01:44	21° $\mathring{\text{U}}$ 48'54	1°03'01	morning rise	-11108 Nov 08 j 11:31	16° $\mathring{\text{U}}$ 48'10	
minimum elong	-11114 Sep 30 j 01:44	21° $\mathring{\text{U}}$ 48'54	1°03'36	retrograde	-11107 Feb 11 j 03:38	19° $\mathring{\text{U}}$ 55'24	
max. Earth dist.	-11114 Oct 01 j 11:53	21° $\mathring{\text{U}}$ 53'53	20.82926 AU	min. Earth dist.	-11107 Apr 29 j 05:49	17° $\mathring{\text{U}}$ 59'03	19.08453 AU
morning rise	-11114 Oct 15 j 19:35	22° $\mathring{\text{U}}$ 43'39		opposition	-11107 Apr 30 j 12:43	17° $\mathring{\text{U}}$ 55'57	0°46'23
retrograde	-11113 Jan 17 j 22:34	25° $\mathring{\text{U}}$ 53'14		direct	-11107 Jul 14 j 19:12	16° $\mathring{\text{U}}$ 00'00	
min. Earth dist.	-11113 Apr 04 j 21:24	23° $\mathring{\text{U}}$ 56'59	18.85690 AU	evening set	-11107 Oct 11 j 19:44	18° $\mathring{\text{U}}$ 57'05	
opposition	-11113 Apr 06 j 05:53	23° $\mathring{\text{U}}$ 53'44	1°08'23				
direct	-11113 Jun 21 j 01:07	21° $\mathring{\text{U}}$ 57'04		conjunction	-11107 Oct 27 j 16:31	19° $\mathring{\text{U}}$ 51'02	0°40'00
evening set	-11113 Sep 18 j 16:17	24° $\mathring{\text{U}}$ 58'06		minimum elong	-11107 Oct 27 j 16:31	19° $\mathring{\text{U}}$ 51'02	0°40'25
				max. Earth dist.	-11107 Oct 29 j 00:45	19° $\mathring{\text{U}}$ 55'38	21.09488 AU
conjunction	-11113 Oct 04 j 07:41	25° $\mathring{\text{U}}$ 52'18	1°00'30	morning rise	-11107 Nov 12 j 17:43	20° $\mathring{\text{U}}$ 45'34	
minimum elong	-11113 Oct 04 j 07:41	25° $\mathring{\text{U}}$ 52'19	1°01'05	retrograde	-11106 Feb 15 j 11:40	23° $\mathring{\text{U}}$ 52'32	
max. Earth dist.	-11113 Oct 05 j 17:12	25° $\mathring{\text{U}}$ 57'11	20.88201 AU	opposition	-11106 May 04 j 19:43	21° $\mathring{\text{U}}$ 53'00	0°41'54
morning rise	-11113 Oct 20 j 02:37	26° $\mathring{\text{U}}$ 46'59		min. Earth dist.	-11106 May 03 j 13:39	21° $\mathring{\text{U}}$ 56'01	19.10545 AU
retrograde	-11112 Jan 22 j 08:56	29° $\mathring{\text{U}}$ 56'09		direct	-11106 Jul 18 j 23:49	19° $\mathring{\text{U}}$ 57'04	
min. Earth dist.	-11112 Apr 08 j 08:08	27° $\mathring{\text{U}}$ 59'59	18.90753 AU	evening set	-11106 Oct 15 j 23:42	22° $\mathring{\text{U}}$ 53'45	
opposition	-11112 Apr 09 j 16:43	27° $\mathring{\text{U}}$ 56'43	1°05'25				
direct	-11112 Jun 24 j 08:35	26° $\mathring{\text{U}}$ 00'17		conjunction	-11106 Oct 31 j 21:40	23° $\mathring{\text{U}}$ 47'43	0°35'52
evening set	-11112 Sep 21 j 21:26	29° $\mathring{\text{U}}$ 00'31		minimum elong	-11106 Oct 31 j 21:40	23° $\mathring{\text{U}}$ 47'43	0°36'16
				max. Earth dist.	-11106 Nov 02 j 06:37	23° $\mathring{\text{U}}$ 52'25	21.11373 AU
conjunction	-11112 Oct 07 j 13:45	29° $\mathring{\text{U}}$ 54'38	0°57'42	morning rise	-11106 Nov 16 j 23:48	24° $\mathring{\text{U}}$ 42'17	
minimum elong	-11112 Oct 07 j 13:45	29° $\mathring{\text{U}}$ 54'38	0°58'15	retrograde	-11105 Feb 19 j 18:33	27° $\mathring{\text{U}}$ 49'00	
max. Earth dist.	-11112 Oct 09 j 00:28	29° $\mathring{\text{U}}$ 59'40	20.93024 AU	min. Earth dist.	-11105 May 07 j 20:16	25° $\mathring{\text{U}}$ 52'26	19.12226 AU
	-11112 Oct 09 j 02:44	0° $\mathring{\text{U}}$		opposition	-11105 May 09 j 02:09	25° $\mathring{\text{U}}$ 49'26	0°37'13
morning rise	-11112 Oct 23 j 09:28	0° $\mathring{\text{U}}$ 49'15		direct	-11105 Jul 23 j 04:51	23° $\mathring{\text{U}}$ 53'31	
retrograde	-11111 Jan 25 j 17:58	3° $\mathring{\text{U}}$ 57'59		evening set	-11105 Oct 20 j 03:48	26° $\mathring{\text{U}}$ 49'52	
min. Earth dist.	-11111 Apr 12 j 18:12	2° $\mathring{\text{U}}$ 01'52	18.95327 AU				
opposition	-11111 Apr 14 j 02:40	1° $\mathring{\text{U}}$ 58'37	1°02'08	conjunction	-11105 Nov 05 j 02:42	27° $\mathring{\text{U}}$ 43'53	0°31'34
direct	-11111 Jun 28 j 17:11	0° $\mathring{\text{U}}$ 02'22		minimum elong	-11105 Nov 05 j 02:42	27° $\mathring{\text{U}}$ 43'53	0°31'55
evening set	-11111 Sep 26 j 02:26	3° $\mathring{\text{U}}$ 01'52		max. Earth dist.	-11105 Nov 06 j 09:59	27° $\mathring{\text{U}}$ 48'19	21.12869 AU
				morning rise	-11105 Nov 21 j 06:09	28° $\mathring{\text{U}}$ 38'30	
conjunction	-11111 Oct 11 j 19:25	3° $\mathring{\text{U}}$ 55'55	0°54'37		-11105 Dec 17 j 12:00	0° $\mathring{\text{U}}$	
minimum elong	-11111 Oct 11 j 19:26	3° $\mathring{\text{U}}$ 55'55	0°55'10	retrograde	-11104 Feb 24 j 02:20	1° $\mathring{\text{U}}$ 45'02	
max. Earth dist.	-11111 Oct 13 j 04:55	4° $\mathring{\text{U}}$ 00'45	20.97350 AU		-11104 May 06 j 07:08	30° $\mathring{\text{U}}$	
morning rise	-11111 Oct 27 j 16:17	4° $\mathring{\text{U}}$ 50'29		min. Earth dist.	-11104 May 11 j 03:29	29° $\mathring{\text{U}}$ 48'20	19.13528 AU
retrograde	-11110 Jan 30 j 03:26	7° $\mathring{\text{U}}$ 58'49		opposition	-11104 May 12 j 08:18	29° $\mathring{\text{U}}$ 45'26	0°32'23
min. Earth dist.	-11110 Apr 17 j 04:07	6° $\mathring{\text{U}}$ 02'41	18.99393 AU	direct	-11104 Jul 26 j 08:42	27° $\mathring{\text{U}}$ 49'31	
opposition	-11110 Apr 18 j 12:12	5° $\mathring{\text{U}}$ 59'28	0°58'34		-11104 Oct 09 j 03:17	0° $\mathring{\text{U}}$	
direct	-11110 Jul 02 j 23:13	4° $\mathring{\text{U}}$ 03'21		evening set	-11104 Oct 23 j 07:57	0° $\mathring{\text{U}}$ 45'40	
evening set	-11110 Sep 30 j 06:53	7° $\mathring{\text{U}}$ 02'09					
				conjunction	-11104 Nov 08 j 08:05	1° $\mathring{\text{U}}$ 39'44	0°27'08
conjunction	-11110 Oct 16 j 00:55	7° $\mathring{\text{U}}$ 56'09	0°51'18	minimum elong	-11104 Nov 08 j 08:05	1° $\mathring{\text{U}}$ 39'44	0°27'28
minimum elong	-11110 Oct 16 j 00:55	7° $\mathring{\text{U}}$ 56'09	0°51'48	max. Earth dist.	-11104 Nov 09 j 15:46	1° $\mathring{\text{U}}$ 44'14	21.13972 AU
max. Earth dist.	-11110 Oct 17 j 11:20	8° $\mathring{\text{U}}$ 01'06	21.01146 AU	morning rise	-11104 Nov 24 j 12:28	2° $\mathring{\text{U}}$ 34'25	
morning rise	-11110 Oct 31 j 22:40	8° $\mathring{\text{U}}$ 50'41		retrograde	-11103 Feb 27 j 09:32	5° $\mathring{\text{U}}$ 40'48	
retrograde	-11109 Feb 03 j 11:38	11° $\mathring{\text{U}}$ 58'38		min. Earth dist.	-11103 May 15 j 09:27	3° $\mathring{\text{U}}$ 44'04	19.14424 AU
opposition	-11109 Apr 22 j 21:03	9° $\mathring{\text{U}}$ 59'17	0°54'45	opposition	-11103 May 16 j 13:50	3° $\mathring{\text{U}}$ 41'13	0°27'24
min. Earth dist.	-11109 Apr 21 j 13:10	10° $\mathring{\text{U}}$ 02'28	19.02915 AU	direct	-11103 Jul 30 j 12:52	1° $\mathring{\text{U}}$ 45'18	
direct	-11109 Jul 07 j 07:14	8° $\mathring{\text{U}}$ 03'16		evening set	-11103 Oct 27 j 12:21	4° $\mathring{\text{U}}$ 41'20	
evening set	-11109 Oct 04 j 11:25	11° $\mathring{\text{U}}$ 01'24					
				conjunction	-11103 Nov 12 j 13:24	5° $\mathring{\text{U}}$ 35'28	0°22'34
conjunction	-11109 Oct 20 j 06:14	11° $\mathring{\text{U}}$ 55'22	0°47'44	minimum elong	-11103 Nov 12 j 13:25	5° $\mathring{\text{U}}$ 35'28	0°22'51
minimum elong	-11109 Oct 20 j 06:15	11° $\mathring{\text{U}}$ 55'22	0°48'14	max. Earth dist.	-11103 Nov 13 j 19:08	5° $\mathring{\text{U}}$ 39'41	21.14680 AU
max. Earth dist.	-11109 Oct 21 j 15:14	12° $\mathring{\text{U}}$ 00'06	21.04417 AU	morning rise	-11103 Nov 28 j 19:05	6° $\mathring{\text{U}}$ 30'14	
morning rise	-11109 Nov 05 j 05:15	12° $\mathring{\text{U}}$ 49'54		retrograde	-11102 Mar 03 j 16:57	9° $\mathring{\text{U}}$ 36'34	
	-11109 Dec 20 j 05:37	15° $\mathring{\text{U}}$		opposition	-11102 May 20 j 19:22	7° $\mathring{\text{U}}$ 36'58	0°22'18
retrograde	-11108 Feb 07 j 20:21	15° $\mathring{\text{U}}$ 57'29		min. Earth dist.	-11102 May 19 j 16:24	7° $\mathring{\text{U}}$ 39'42	19.14925 AU
	-11108 Mar 30 j 02:14	15° $\mathring{\text{U}}$		direct	-11102 Aug 03 j 15:58	5° $\mathring{\text{U}}$ 41'04	
min. Earth dist.	-11108 Apr 24 j 22:05	14° $\mathring{\text{U}}$ 01'12	19.05932 AU	evening set	-11102 Oct 31 j 16:44	8° $\mathring{\text{U}}$ 37'04	
opposition	-11108 Apr 26 j 05:13	13° $\mathring{\text{U}}$ 58'05	0°50'40				
direct	-11108 Jul 10 j 12:34	12° $\mathring{\text{U}}$ 02'06		conjunction	-11102 Nov 16 j 19:04	9° $\mathring{\text{U}}$ 31'18	0°17'54
evening set	-11108 Oct 07 j 15:36	14° $\mathring{\text{U}}$ 59'41		minimum elong	-11102 Nov 16 j 19:04	9° $\mathring{\text{U}}$ 31'18	0°18'10
	-11108 Oct 07 j 17:53	15° $\mathring{\text{U}}$		max. Earth dist.	-11102 Nov 18 j 00:57	9° $\mathring{\text{U}}$ 35'32	21.14968 AU
conjunction	-11108 Oct 23 j 11:34	15° $\mathring{\text{U}}$ 53'38	0°43'58	morning rise	-11102 Dec 03 j 01:42	10° $\mathring{\text{U}}$ 26'09	
minimum elong	-11108 Oct 23 j 11:34	15° $\mathring{\text{U}}$ 53'38	0°44'25	retrograde	-11101 Mar 08 j 01:09	13° $\mathring{\text{U}}$ 32'28	
max. Earth dist.	-11108 Oct 24 j 21:17	15° $\mathring{\text{U}}$ 58'28	21.07185 AU	min. Earth dist.	-11101 May 23 j 22:20	11° $\mathring{\text{U}}$ 35'33	19.14979 AU
				opposition	-11101 May 25 j 00:35	11° $\mathring{\text{U}}$ 32'54	0°17'05

Attention, astronomical year style is used: The year -11101 in astronomical counting style is the year 11102 BCE in historical counting style.

direct	-11101 Aug 07 j 20:11	9° \mathring{M} 37'00		conjunction	-11096 Dec 10 j 14:19	3° \mathring{A} 15'07	-0°11'21
evening set	-11101 Nov 04 j 21:48	12° \mathring{M} 33'02		minimum elong	-11096 Dec 10 j 14:19	3° \mathring{A} 15'07	0°11'21
				behind sun begin	-11096 Dec 10 j 09:28	3° \mathring{A} 14'27	
conjunction	-11101 Nov 21 j 01:06	13° \mathring{M} 27'23	0°13'08	behind sun end	-11096 Dec 10 j 19:09	3° \mathring{A} 15'47	
minimum elong	-11101 Nov 21 j 01:06	13° \mathring{M} 27'23	0°13'22	max. Earth dist.	-11096 Dec 11 j 09:04	3° \mathring{A} 17'46	21.05812 AU
behind sun begin	-11101 Nov 20 j 21:20	13° \mathring{M} 26'52		morning rise	-11096 Dec 27 j 03:04	4° \mathring{A} 10'48	
behind sun end	-11101 Nov 21 j 04:52	13° \mathring{M} 27'54		retrograde	-11095 Apr 01 j 00:16	7° \mathring{A} 17'43	
max. Earth dist.	-11101 Nov 22 j 04:33	13° \mathring{M} 31'16	21.14800 AU	opposition	-11095 Jun 17 j 06:02	5° \mathring{A} 17'54	-0°15'15
morning rise	-11101 Dec 07 j 09:01	14° \mathring{M} 22'22		min. Earth dist.	-11095 Jun 16 j 14:33	5° \mathring{A} 19'30	19.04142 AU
retrograde	-11100 Mar 11 j 08:15	17° \mathring{M} 28'41		direct	-11095 Aug 30 j 20:21	3° \mathring{A} 21'10	
min. Earth dist.	-11100 May 27 j 05:22	15° \mathring{M} 31'35	19.14567 AU	evening set	-11095 Nov 28 j 13:17	6° \mathring{A} 19'06	
opposition	-11100 May 28 j 05:36	15° \mathring{M} 29'08	0°11'46				
direct	-11100 Aug 10 j 22:44	13° \mathring{M} 33'11		conjunction	-11095 Dec 14 j 23:04	7° \mathring{A} 14'25	-0°16'11
evening set	-11100 Nov 08 j 03:09	16° \mathring{M} 29'23		minimum elong	-11095 Dec 14 j 23:04	7° \mathring{A} 14'25	0°16'12
				max. Earth dist.	-11095 Dec 15 j 14:29	7° \mathring{A} 16'35	21.02338 AU
conjunction	-11100 Nov 24 j 07:43	17° \mathring{M} 23'52	0°08'19	morning rise	-11095 Dec 31 j 12:54	8° \mathring{A} 10'17	
minimum elong	-11100 Nov 24 j 07:43	17° \mathring{M} 23'52	0°08'30	retrograde	-11094 Apr 05 j 08:29	11° \mathring{A} 17'24	
behind sun begin	-11100 Nov 24 j 01:54	17° \mathring{M} 23'04		opposition	-11094 Jun 21 j 11:01	9° \mathring{A} 17'26	-0°20'34
behind sun end	-11100 Nov 24 j 13:32	17° \mathring{M} 24'40		min. Earth dist.	-11094 Jun 20 j 22:08	9° \mathring{A} 18'45	19.00433 AU
max. Earth dist.	-11100 Nov 25 j 10:45	17° \mathring{M} 27'41	21.14133 AU	direct	-11094 Sep 04 j 00:25	7° \mathring{A} 20'23	
morning rise	-11100 Dec 10 j 16:31	18° \mathring{M} 18'57		evening set	-11094 Dec 02 j 21:27	10° \mathring{A} 18'53	
retrograde	-11099 Mar 15 j 16:58	21° \mathring{M} 25'20					
min. Earth dist.	-11099 May 31 j 11:24	19° \mathring{M} 28'09	19.13624 AU	conjunction	-11094 Dec 19 j 08:27	11° \mathring{A} 14'25	-0°20'57
opposition	-11099 Jun 01 j 10:31	19° \mathring{M} 25'48	0°06'23	minimum elong	-11094 Dec 19 j 08:27	11° \mathring{A} 14'24	0°21'02
direct	-11099 Aug 15 j 03:27	17° \mathring{M} 29'48		max. Earth dist.	-11094 Dec 19 j 22:54	11° \mathring{A} 16'27	20.98408 AU
evening set	-11099 Nov 12 j 08:58	20° \mathring{M} 26'13		morning rise	-11093 Jan 04 j 22:59	12° \mathring{A} 10'27	
				retrograde	-11093 Apr 09 j 16:49	15° \mathring{A} 17'48	
conjunction	-11099 Nov 28 j 14:26	21° \mathring{M} 20'50	0°03'27	opposition	-11093 Jun 25 j 16:00	13° \mathring{A} 17'42	-0°25'48
minimum elong	-11099 Nov 28 j 14:26	21° \mathring{M} 20'50	0°03'36	min. Earth dist.	-11093 Jun 25 j 04:22	13° \mathring{A} 18'54	18.96288 AU
behind sun begin	-11099 Nov 28 j 07:49	21° \mathring{M} 19'55		direct	-11093 Sep 08 j 06:02	11° \mathring{A} 20'20	
behind sun end	-11099 Nov 28 j 21:03	21° \mathring{M} 21'44		evening set	-11093 Dec 07 j 06:35	14° \mathring{A} 19'28	
max. Earth dist.	-11099 Nov 29 j 14:33	21° \mathring{M} 24'14	21.12921 AU				
morning rise	-11099 Dec 15 j 00:26	22° \mathring{M} 16'03		conjunction	-11093 Dec 23 j 18:23	15° \mathring{A} 15'12	-0°25'37
retrograde	-11098 Mar 20 j 00:05	25° \mathring{M} 22'33		minimum elong	-11093 Dec 23 j 18:23	15° \mathring{A} 15'12	0°25'44
opposition	-11098 Jun 05 j 15:30	23° \mathring{M} 22'59	0°00'59	max. Earth dist.	-11093 Dec 24 j 05:31	15° \mathring{A} 16'46	20.94077 AU
min. Earth dist.	-11098 Jun 04 j 18:43	23° \mathring{M} 25'06	19.12130 AU	morning rise	-11092 Jan 09 j 09:52	16° \mathring{A} 11'27	
desc. node	-11098 Aug 08 j 20:33	21° \mathring{M} 29'41		retrograde	-11092 Apr 13 j 01:21	19° \mathring{A} 19'03	
direct	-11098 Aug 19 j 06:10	21° \mathring{M} 26'52		opposition	-11092 Jun 28 j 21:10	17° \mathring{A} 18'49	-0°30'55
evening set	-11098 Nov 16 j 15:13	24° \mathring{M} 23'34		min. Earth dist.	-11092 Jun 28 j 12:12	17° \mathring{A} 19'45	18.91785 AU
				direct	-11092 Sep 11 j 10:46	15° \mathring{A} 21'07	
conjunction	-11098 Dec 02 j 21:56	25° \mathring{M} 18'20	-0°01'34	evening set	-11092 Dec 10 j 16:09	18° \mathring{A} 20'59	
minimum elong	-11098 Dec 02 j 21:57	25° \mathring{M} 18'21	0°01'29				
behind sun begin	-11098 Dec 02 j 15:16	25° \mathring{M} 17'26		conjunction	-11092 Dec 27 j 05:04	19° \mathring{A} 16'57	-0°30'12
behind sun end	-11098 Dec 03 j 04:39	25° \mathring{M} 19'16		minimum elong	-11092 Dec 27 j 05:04	19° \mathring{A} 16'57	0°30'21
max. Earth dist.	-11098 Dec 03 j 21:11	25° \mathring{M} 21'37	21.11137 AU	max. Earth dist.	-11092 Dec 27 j 15:10	19° \mathring{A} 18'23	20.89407 AU
morning rise	-11098 Dec 19 j 08:47	26° \mathring{M} 13'43		morning rise	-11091 Jan 12 j 21:06	20° \mathring{A} 13'23	
retrograde	-11097 Mar 24 j 08:31	29° \mathring{M} 20'19		retrograde	-11091 Apr 17 j 10:52	23° \mathring{A} 21'19	
opposition	-11097 Jun 09 j 20:18	27° \mathring{M} 20'43	-0°04'27	opposition	-11091 Jul 03 j 02:34	21° \mathring{A} 20'58	-0°35'55
min. Earth dist.	-11097 Jun 09 j 00:51	27° \mathring{M} 22'42	19.10042 AU	min. Earth dist.	-11091 Jul 02 j 18:44	21° \mathring{A} 21'46	18.86959 AU
direct	-11097 Aug 23 j 11:27	25° \mathring{M} 24'27		direct	-11091 Sep 15 j 16:54	19° \mathring{A} 22'57	
evening set	-11097 Nov 20 j 22:09	28° \mathring{M} 21'30		evening set	-11091 Dec 15 j 02:25	22° \mathring{A} 23'37	
conjunction	-11097 Dec 07 j 05:51	29° \mathring{M} 16'26	-0°06'30	conjunction	-11091 Dec 31 j 16:02	23° \mathring{A} 19'49	-0°34'38
minimum elong	-11097 Dec 07 j 05:51	29° \mathring{M} 16'26	0°06'26	minimum elong	-11091 Dec 31 j 16:02	23° \mathring{A} 19'48	0°34'50
behind sun begin	-11097 Dec 06 j 23:33	29° \mathring{M} 15'34		max. Earth dist.	-11091 Dec 31 j 22:53	23° \mathring{A} 20'47	20.84440 AU
behind sun end	-11097 Dec 07 j 12:08	29° \mathring{M} 17'18		morning rise	-11090 Jan 17 j 08:54	24° \mathring{A} 16'28	
max. Earth dist.	-11097 Dec 08 j 01:41	29° \mathring{M} 19'14	21.08764 AU	retrograde	-11090 Apr 21 j 20:08	27° \mathring{A} 24'46	
	-11097 Dec 20 j 03:32	0° \mathring{A}		opposition	-11090 Jul 07 j 08:26	25° \mathring{A} 24'18	-0°40'46
morning rise	-11097 Dec 23 j 17:51	0° \mathring{A} 11'58		min. Earth dist.	-11090 Jul 07 j 03:13	25° \mathring{A} 24'51	18.81862 AU
retrograde	-11096 Mar 27 j 16:20	3° \mathring{A} 18'43		direct	-11090 Sep 19 j 22:05	23° \mathring{A} 25'58	
min. Earth dist.	-11096 Jun 12 j 08:26	1° \mathring{A} 20'44	19.07374 AU	evening set	-11090 Dec 19 j 13:27	26° \mathring{A} 27'31	
opposition	-11096 Jun 13 j 01:17	1° \mathring{A} 19'01	-0°09'52				
	-11096 Jul 18 j 11:38	30° \mathring{R} \mathring{M}		conjunction	-11089 Jan 05 j 04:07	27° \mathring{A} 23'58	-0°38'56
direct	-11096 Aug 26 j 14:51	29° \mathring{M} 22'31		minimum elong	-11089 Jan 05 j 04:06	27° \mathring{A} 23'58	0°39'10
	-11096 Oct 04 j 01:03	0° \mathring{A}		max. Earth dist.	-11089 Jan 05 j 09:49	27° \mathring{A} 24'47	20.79213 AU
evening set	-11096 Nov 24 j 05:24	2° \mathring{A} 19'59		morning rise	-11089 Jan 21 j 21:26	28° \mathring{A} 20'50	
					-11089 Feb 23 j 07:33	0° \mathring{M}	

Attention, astronomical year style is used: The year -11089 in astronomical counting style is the year 11090 BCE in historical counting style.

retrograde	-11089 Apr 26 j 07:12	1° <u>M</u> .29'34		min. Earth dist.	-11083 Aug 05 j 00:04	24° <u>M</u> .32'49	18.38720 AU
	-11089 Jun 29 j 02:03	30° <u>R</u> .2		direct	-11083 Oct 18 j 10:03	22° <u>M</u> .33'03	
opposition	-11089 Jul 11 j 14:25	29° <u>2</u> 9'01	-0°45'27	evening set	-11082 Jan 18 j 21:15	25° <u>M</u> .42'44	
min. Earth dist.	-11089 Jul 11 j 10:26	29° <u>2</u> 9'26	18.76502 AU				
direct	-11089 Sep 24 j 05:13	27° <u>2</u> 3'02		conjunction	-11082 Feb 04 j 16:05	26° <u>M</u> .41'09	-1°02'55
	-11089 Dec 14 j 00:48	0° <u>M</u> .		minimum elong	-11082 Feb 04 j 16:05	26° <u>M</u> .41'09	1°03'23
evening set	-11089 Dec 24 j 01:34	0° <u>M</u> .32'54		max. Earth dist.	-11082 Feb 04 j 02:02	26° <u>M</u> .39'06	20.35097 AU
				morning rise	-11082 Feb 21 j 11:40	27° <u>M</u> .39'43	
conjunction	-11088 Jan 09 j 16:52	1° <u>M</u> .29'37	-0°43'04		-11082 Apr 10 j 12:24	0° <u>R</u> .	
minimum elong	-11088 Jan 09 j 16:52	1° <u>M</u> .29'36	0°43'21	retrograde	-11082 May 26 j 01:53	0° <u>R</u> .52'12	
max. Earth dist.	-11088 Jan 09 j 19:05	1° <u>M</u> .29'55	20.73729 AU		-11082 Jul 11 j 08:23	30° <u>R</u> . <u>M</u> .	
morning rise	-11088 Jan 26 j 10:54	2° <u>M</u> .26'43		opposition	-11082 Aug 09 j 01:02	28° <u>M</u> .51'10	-1°11'08
retrograde	-11088 Apr 29 j 17:35	5° <u>M</u> .35'53		min. Earth dist.	-11082 Aug 09 j 13:42	28° <u>M</u> .49'49	18.31466 AU
opposition	-11088 Jul 14 j 21:05	3° <u>M</u> .35'17	-0°49'56	direct	-11082 Oct 22 j 20:27	26° <u>M</u> .49'56	
min. Earth dist.	-11088 Jul 14 j 19:58	3° <u>M</u> .35'24	18.70898 AU	evening set	-11081 Jan 23 j 15:47	0° <u>R</u> .00'57	
direct	-11088 Sep 27 j 11:14	1° <u>M</u> .36'19			-11081 Jan 23 j 09:09	0° <u>R</u> .	
evening set	-11088 Dec 27 j 14:19	4° <u>M</u> .39'54					
				conjunction	-11081 Feb 09 j 11:05	0° <u>R</u> .59'40	-1°05'10
conjunction	-11087 Jan 13 j 06:31	5° <u>M</u> .36'53	-0°47'00	minimum elong	-11081 Feb 09 j 11:04	0° <u>R</u> .59'39	1°05'41
minimum elong	-11087 Jan 13 j 06:30	5° <u>M</u> .36'53	0°47'19	max. Earth dist.	-11081 Feb 08 j 18:59	0° <u>R</u> .57'18	20.27750 AU
max. Earth dist.	-11087 Jan 13 j 07:21	5° <u>M</u> .37'00	20.67995 AU	morning rise	-11081 Feb 26 j 06:37	1° <u>R</u> .58'28	
morning rise	-11087 Jan 30 j 00:50	6° <u>M</u> .34'13		retrograde	-11081 May 30 j 18:49	5° <u>R</u> .11'32	
retrograde	-11087 May 04 j 06:08	9° <u>M</u> .43'54		opposition	-11081 Aug 13 j 11:47	3° <u>R</u> .10'21	-1°13'29
opposition	-11087 Jul 19 j 04:05	7° <u>M</u> .43'15	-0°54'11	min. Earth dist.	-11081 Aug 14 j 01:42	3° <u>R</u> .08'52	18.24043 AU
min. Earth dist.	-11087 Jul 19 j 04:16	7° <u>M</u> .43'14	18.65030 AU	direct	-11081 Oct 27 j 10:24	1° <u>R</u> .08'38	
direct	-11087 Oct 01 j 19:39	5° <u>M</u> .44'00		evening set	-11080 Jan 28 j 11:20	4° <u>R</u> .21'00	
evening set	-11086 Jan 01 j 04:14	8° <u>M</u> .48'41		max. Earth dist.	-11080 Feb 13 j 11:40	5° <u>R</u> .17'11	20.20266 AU
conjunction	-11086 Jan 17 j 20:57	9° <u>M</u> .45'57	-0°50'44	conjunction	-11080 Feb 14 j 06:48	5° <u>R</u> .20'00	-1°07'05
minimum elong	-11086 Jan 17 j 20:56	9° <u>M</u> .45'57	0°51'05	minimum elong	-11080 Feb 14 j 06:48	5° <u>R</u> .20'00	1°07'37
max. Earth dist.	-11086 Jan 17 j 18:09	9° <u>M</u> .45'33	20.61994 AU	morning rise	-11080 Mar 02 j 02:16	6° <u>R</u> .19'04	
morning rise	-11086 Feb 03 j 15:47	10° <u>M</u> .43'31		retrograde	-11080 Jun 03 j 09:20	9° <u>R</u> .32'42	
retrograde	-11086 May 08 j 17:47	13° <u>M</u> .53'44		opposition	-11080 Aug 16 j 23:34	7° <u>R</u> .31'23	-1°15'25
opposition	-11086 Jul 23 j 11:47	11° <u>M</u> .53'03	-0°58'12	min. Earth dist.	-11080 Aug 17 j 16:29	7° <u>R</u> .29'34	18.16538 AU
min. Earth dist.	-11086 Jul 23 j 15:05	11° <u>M</u> .52'42	18.58902 AU	direct	-11080 Oct 30 j 22:09	5° <u>R</u> .29'11	
direct	-11086 Oct 06 j 03:00	9° <u>M</u> .53'27		evening set	-11079 Feb 01 j 07:27	8° <u>R</u> .42'55	
evening set	-11085 Jan 05 j 18:58	12° <u>M</u> .59'20		max. Earth dist.	-11079 Feb 17 j 06:10	9° <u>R</u> .39'06	20.12749 AU
conjunction	-11085 Jan 22 j 12:29	13° <u>M</u> .56'53	-0°54'12	conjunction	-11079 Feb 18 j 03:09	9° <u>R</u> .42'13	-1°08'36
minimum elong	-11085 Jan 22 j 12:28	13° <u>M</u> .56'53	0°54'36	minimum elong	-11079 Feb 18 j 03:09	9° <u>R</u> .42'13	1°09'10
max. Earth dist.	-11085 Jan 22 j 07:52	13° <u>M</u> .56'13	20.55719 AU	morning rise	-11079 Mar 06 j 22:25	10° <u>R</u> .41'30	
morning rise	-11085 Feb 08 j 07:32	14° <u>M</u> .54'42		retrograde	-11079 Jun 08 j 03:35	13° <u>R</u> .55'45	
	-11085 Feb 09 j 21:13	15° <u>M</u> .		opposition	-11079 Aug 21 j 11:54	11° <u>R</u> .54'16	-1°16'56
retrograde	-11085 May 13 j 07:50	18° <u>M</u> .05'28		min. Earth dist.	-11079 Aug 22 j 05:38	11° <u>R</u> .52'21	18.09032 AU
opposition	-11085 Jul 27 j 20:02	16° <u>M</u> .04'44	-1°01'55	direct	-11079 Nov 04 j 13:55	9° <u>R</u> .51'36	
min. Earth dist.	-11085 Jul 28 j 00:48	16° <u>M</u> .04'14	18.52471 AU	evening set	-11078 Feb 06 j 04:35	13° <u>R</u> .06'43	
	-11085 Aug 23 j 20:16	15° <u>R</u> . <u>M</u> .		max. Earth dist.	-11078 Feb 22 j 01:02	14° <u>R</u> .02'50	20.05259 AU
direct	-11085 Oct 10 j 13:04	14° <u>M</u> .04'47					
	-11085 Nov 26 j 07:49	15° <u>M</u> .		conjunction	-11078 Feb 23 j 00:20	14° <u>R</u> .06'18	-1°09'45
evening set	-11084 Jan 10 j 10:58	17° <u>M</u> .11'54		minimum elong	-11078 Feb 23 j 00:20	14° <u>R</u> .06'18	1°10'20
				morning rise	-11078 Mar 11 j 19:19	15° <u>R</u> .05'49	
conjunction	-11084 Jan 27 j 04:52	18° <u>M</u> .09'44	-0°57'25	retrograde	-11078 Jun 12 j 19:05	18° <u>R</u> .20'40	
minimum elong	-11084 Jan 27 j 04:51	18° <u>M</u> .09'44	0°57'50	opposition	-11078 Aug 26 j 01:05	16° <u>R</u> .19'04	-1°18'01
max. Earth dist.	-11084 Jan 26 j 20:24	18° <u>M</u> .08'31	20.49128 AU	min. Earth dist.	-11078 Aug 26 j 21:31	16° <u>R</u> .16'51	18.01604 AU
morning rise	-11084 Feb 13 j 00:13	19° <u>M</u> .07'48		direct	-11078 Nov 09 j 03:28	14° <u>R</u> .15'55	
retrograde	-11084 May 16 j 20:43	22° <u>M</u> .19'09		evening set	-11077 Feb 11 j 02:33	17° <u>R</u> .32'28	
opposition	-11084 Jul 31 j 05:02	20° <u>M</u> .18'20	-1°05'20				
min. Earth dist.	-11084 Jul 31 j 13:07	20° <u>M</u> .17'29	18.45740 AU	conjunction	-11077 Feb 27 j 22:21	18° <u>R</u> .32'20	-1°10'29
direct	-11084 Oct 13 j 22:07	18° <u>M</u> .17'59		minimum elong	-11077 Feb 27 j 22:21	18° <u>R</u> .32'20	1°11'04
evening set	-11083 Jan 14 j 03:40	21° <u>M</u> .26'23		max. Earth dist.	-11077 Feb 26 j 21:08	18° <u>R</u> .28'33	19.97895 AU
				morning rise	-11077 Mar 16 j 17:04	19° <u>R</u> .32'04	
conjunction	-11083 Jan 30 j 22:11	22° <u>M</u> .24'31	-1°00'19	retrograde	-11077 Jun 17 j 14:26	22° <u>R</u> .47'32	
minimum elong	-11083 Jan 30 j 22:11	22° <u>M</u> .24'30	1°00'47	opposition	-11077 Aug 30 j 15:05	20° <u>R</u> .45'49	-1°18'38
max. Earth dist.	-11083 Jan 30 j 11:40	22° <u>M</u> .22'59	20.42248 AU	min. Earth dist.	-11077 Aug 31 j 12:07	20° <u>R</u> .43'32	17.94320 AU
morning rise	-11083 Feb 16 j 17:37	23° <u>M</u> .22'49		direct	-11077 Nov 13 j 21:10	18° <u>R</u> .42'15	
retrograde	-11083 May 21 j 12:07	26° <u>M</u> .34'44		evening set	-11076 Feb 16 j 01:24	22° <u>R</u> .00'13	
opposition	-11083 Aug 04 j 14:38	24° <u>M</u> .33'49	-1°08'25				

Attention, astronomical year style is used: The year -11076 in astronomical counting style is the year 11077 BCE in historical counting style.

conjunction	-11076 Mar 03 j 21:07	23° 2 00'21	-1°10'49	retrograde	-11070 Jul 19 j 13:07	24° 3 52'18	
minimum elong	-11076 Mar 03 j 21:07	23° 2 00'21	1°11'25	opposition	-11070 Sep 30 j 19:37	22° 3 50'24	-1°09'20
max. Earth dist.	-11076 Mar 02 j 18:16	22° 2 56'19	19.90689 AU	min. Earth dist.	-11070 Oct 02 j 01:38	22° 3 47'07	17.50216 AU
morning rise	-11076 Mar 20 j 15:17	24° 2 00'18		direct	-11070 Dec 15 j 18:37	20° 3 44'33	
retrograde	-11076 Jun 21 j 07:06	27° 2 16'23		evening set	-11069 Mar 21 j 15:10	24° 3 11'50	
opposition	-11076 Sep 03 j 06:05	25° 2 14'36	-1°18'48	max. Earth dist.	-11069 Apr 05 j 19:21	25° 3 07'47	19.47504 AU
min. Earth dist.	-11076 Sep 04 j 05:27	25° 2 12'04	17.87233 AU				
direct	-11076 Nov 17 j 12:54	23° 2 10'38		conjunction	-11069 Apr 07 j 07:46	25° 3 13'26	-1°00'42
evening set	-11075 Feb 20 j 01:03	26° 2 30'02		minimum elong	-11069 Apr 07 j 07:46	25° 3 13'26	1°01'16
				morning rise	-11069 Apr 23 j 20:56	26° 3 14'33	
conjunction	-11075 Mar 08 j 20:33	27° 2 30'25	-1°10'42	retrograde	-11069 Jul 24 j 12:41	29° 3 34'40	
minimum elong	-11075 Mar 08 j 20:33	27° 2 30'25	1°11'19	opposition	-11069 Oct 05 j 17:10	27° 3 32'43	-1°06'01
max. Earth dist.	-11075 Mar 07 j 15:48	27° 2 26'04	19.83727 AU	min. Earth dist.	-11069 Oct 06 j 23:42	27° 3 29'23	17.45031 AU
morning rise	-11075 Mar 25 j 14:20	28° 2 30'34		direct	-11069 Dec 20 j 19:16	25° 3 26'34	
	-11075 Apr 21 j 16:44	0° 3		evening set	-11068 Mar 25 j 19:21	28° 3 54'55	
retrograde	-11075 Jun 26 j 03:35	1° 3 47'17		max. Earth dist.	-11068 Apr 09 j 23:36	29° 3 51'04	19.42489 AU
	-11075 Sep 02 j 07:35	30° 2 47'17					
opposition	-11075 Sep 07 j 21:51	29° 2 45'27	-1°18'28	conjunction	-11068 Apr 11 j 11:20	29° 3 56'38	-0°57'29
min. Earth dist.	-11075 Sep 08 j 21:38	29° 2 42'52	17.80401 AU	minimum elong	-11068 Apr 11 j 11:20	29° 3 56'38	0°58'03
direct	-11075 Nov 22 j 08:28	27° 2 41'08			-11068 Apr 12 j 08:56	0° 3	
	-11074 Feb 06 j 20:32	0° 3		morning rise	-11068 Apr 27 j 23:21	0° 3 57'50	
evening set	-11074 Feb 25 j 01:24	1° 3 01'57		retrograde	-11068 Jul 28 j 12:10	4° 3 18'24	
				opposition	-11068 Oct 09 j 15:36	2° 3 16'24	-1°02'14
conjunction	-11074 Mar 13 j 20:46	2° 3 02'35	-1°10'10	min. Earth dist.	-11068 Oct 10 j 22:37	2° 3 13'00	17.40202 AU
minimum elong	-11074 Mar 13 j 20:46	2° 3 02'35	1°10'46	direct	-11068 Dec 24 j 19:52	0° 3 10'00	
max. Earth dist.	-11074 Mar 12 j 15:06	1° 3 58'05	19.77017 AU	evening set	-11067 Mar 31 j 00:02	3° 3 39'16	
morning rise	-11074 Mar 30 j 13:51	3° 3 02'56		max. Earth dist.	-11067 Apr 15 j 01:58	4° 3 35'19	19.37878 AU
retrograde	-11074 Jun 30 j 22:01	6° 3 20'17					
opposition	-11074 Sep 12 j 14:44	4° 3 18'25	-1°17'39	conjunction	-11067 Apr 16 j 15:01	4° 3 41'06	-0°53'53
min. Earth dist.	-11074 Sep 13 j 16:37	4° 3 15'36	17.73829 AU	minimum elong	-11067 Apr 16 j 15:01	4° 3 41'06	0°54'25
direct	-11074 Nov 27 j 02:42	2° 3 13'46		morning rise	-11067 May 03 j 02:07	5° 3 42'23	
evening set	-11073 Mar 02 j 02:49	5° 3 36'00		retrograde	-11067 Aug 02 j 12:10	9° 3 03'20	
				opposition	-11067 Oct 14 j 14:40	7° 3 01'15	-0°58'01
conjunction	-11073 Mar 18 j 21:43	6° 3 36'51	-1°09'10	min. Earth dist.	-11067 Oct 15 j 22:01	6° 3 57'50	17.35825 AU
minimum elong	-11073 Mar 18 j 21:43	6° 3 36'51	1°09'48	direct	-11067 Dec 29 j 21:35	4° 3 54'35	
max. Earth dist.	-11073 Mar 17 j 13:56	6° 3 32'01	19.70584 AU	evening set	-11066 Apr 05 j 04:39	8° 3 24'44	
morning rise	-11073 Apr 04 j 14:18	7° 3 37'24		max. Earth dist.	-11066 Apr 20 j 07:00	9° 3 21'01	19.33742 AU
retrograde	-11073 Jul 05 j 19:32	10° 3 55'22					
opposition	-11073 Sep 17 j 08:21	8° 3 53'30	-1°16'20	conjunction	-11066 Apr 21 j 18:53	9° 3 26'38	-0°49'54
min. Earth dist.	-11073 Sep 18 j 10:47	8° 3 50'37	17.67531 AU	minimum elong	-11066 Apr 21 j 18:53	9° 3 26'39	0°50'24
direct	-11073 Dec 02 j 00:03	6° 3 48'32		morning rise	-11066 May 08 j 04:50	10° 3 27'58	
evening set	-11072 Mar 06 j 04:56	10° 3 12'08		retrograde	-11066 Aug 07 j 12:25	13° 3 49'15	
				opposition	-11066 Oct 19 j 14:31	11° 3 47'08	-0°53'23
conjunction	-11072 Mar 22 j 23:31	11° 3 13'13	-1°07'44	min. Earth dist.	-11066 Oct 20 j 21:28	11° 3 43'45	17.31935 AU
minimum elong	-11072 Mar 22 j 23:31	11° 3 13'13	1°08'20	direct	-11065 Jan 03 j 23:43	9° 3 40'16	
max. Earth dist.	-11072 Mar 21 j 15:19	11° 3 08'17	19.64407 AU	evening set	-11065 Apr 10 j 09:34	13° 3 11'08	
morning rise	-11072 Apr 08 j 15:10	12° 3 13'55		max. Earth dist.	-11065 Apr 25 j 10:24	14° 3 07'23	19.30131 AU
retrograde	-11072 Jul 09 j 16:12	15° 3 32'28					
opposition	-11072 Sep 21 j 03:16	13° 3 30'37	-1°14'30	conjunction	-11065 Apr 26 j 22:40	14° 3 13'05	-0°45'34
min. Earth dist.	-11072 Sep 22 j 07:28	13° 3 27'33	17.61491 AU	minimum elong	-11065 Apr 26 j 22:40	14° 3 13'05	0°46'01
direct	-11072 Dec 05 j 20:48	11° 3 25'22			-11065 May 09 j 10:07	15° 3	
evening set	-11071 Mar 11 j 07:41	14° 3 50'16		morning rise	-11065 May 13 j 07:31	15° 3 14'26	
max. Earth dist.	-11071 Mar 26 j 15:12	15° 3 46'14	19.58500 AU	retrograde	-11065 Aug 12 j 12:38	18° 3 36'03	
				opposition	-11065 Oct 24 j 15:07	16° 3 33'51	-0°48'22
conjunction	-11071 Mar 28 j 01:35	15° 3 51'31	-1°05'50	min. Earth dist.	-11065 Oct 25 j 22:08	16° 3 30'28	17.28622 AU
minimum elong	-11071 Mar 28 j 01:35	15° 3 51'31	1°06'26		-11065 Dec 03 j 23:35	15° 3 47'08	
morning rise	-11071 Apr 13 j 16:35	16° 3 52'24		direct	-11064 Jan 09 j 02:30	14° 3 26'49	
retrograde	-11071 Jul 14 j 14:52	20° 3 11'32			-11064 Feb 13 j 18:29	15° 3	
opposition	-11071 Sep 25 j 22:59	18° 3 09'38	-1°12'10	evening set	-11064 Apr 14 j 14:23	17° 3 58'19	
min. Earth dist.	-11071 Sep 27 j 03:42	18° 3 06'31	17.55722 AU	max. Earth dist.	-11064 Apr 29 j 15:48	18° 3 54'49	19.27130 AU
direct	-11071 Dec 10 j 19:52	16° 3 04'05					
evening set	-11070 Mar 16 j 11:03	19° 3 30'13		conjunction	-11064 May 01 j 02:28	19° 3 00'17	-0°40'54
max. Earth dist.	-11070 Mar 31 j 18:09	20° 3 26'22	19.52855 AU	minimum elong	-11064 May 01 j 02:29	19° 3 00'17	0°41'20
				morning rise	-11064 May 17 j 10:07	20° 3 01'37	
conjunction	-11070 Apr 02 j 04:31	20° 3 31'40	-1°03'29	retrograde	-11064 Aug 16 j 13:26	23° 3 23'31	
minimum elong	-11070 Apr 02 j 04:31	20° 3 31'40	1°04'04	opposition	-11064 Oct 28 j 16:22	21° 3 21'18	-0°43'01
morning rise	-11070 Apr 18 j 18:28	21° 3 32'40		min. Earth dist.	-11064 Oct 29 j 21:58	21° 3 18'04	17.25933 AU

Attention, astronomical year style is used: The year -11063 in astronomical counting style is the year 11064 BCE in historical counting style.

direct	-11063 Jan 13 j 06:27	19° \approx 14'10		direct	-11057 Feb 12 j 12:41	18° \approx 07'59	
evening set	-11063 Apr 19 j 19:03	22° \approx 46'10		evening set	-11057 May 19 j 19:12	21° \approx 40'27	
max. Earth dist.	-11063 May 04 j 20:01	23° \approx 42'45	19.24778 AU				
conjunction	-11063 May 06 j 05:59	23° \approx 48'07	-0°35'57	conjunction	-11057 Jun 04 j 22:34	22° \approx 41'43	-0°02'10
minimum elong	-11063 May 06 j 05:59	23° \approx 48'07	0°36'21	minimum elong	-11057 Jun 04 j 22:35	22° \approx 41'43	0°02'17
morning rise	-11063 May 22 j 12:26	24° \approx 49'25		behind sun begin	-11057 Jun 04 j 15:57	22° \approx 40'41	
retrograde	-11063 Aug 21 j 13:21	28° \approx 11'34		behind sun end	-11057 Jun 05 j 05:13	22° \approx 42'45	
opposition	-11063 Nov 02 j 18:15	26° \approx 09'20	-0°37'21	max. Earth dist.	-11057 Jun 03 j 23:43	22° \approx 38'05	19.24854 AU
min. Earth dist.	-11063 Nov 03 j 23:40	26° \approx 06'08	17.23928 AU	morning rise	-11057 Jun 20 j 21:34	23° \approx 42'22	
direct	-11062 Jan 18 j 10:08	24° \approx 02'10		retrograde	-11057 Sep 19 j 19:43	27° \approx 05'01	
evening set	-11062 Apr 24 j 23:45	27° \approx 34'34		asc. node	-11057 Oct 16 j 12:05	26° \approx 45'43	
max. Earth dist.	-11062 May 10 j 01:07	28° \approx 31'20	19.23129 AU	opposition	-11057 Dec 02 j 15:08	25° \approx 03'17	0°00'52
				min. Earth dist.	-11057 Dec 03 j 11:53	25° \approx 01'03	17.25845 AU
conjunction	-11062 May 11 j 09:30	28° \approx 36'28	-0°30'44	direct	-11056 Feb 17 j 16:47	22° \approx 56'59	
minimum elong	-11062 May 11 j 09:30	28° \approx 36'28	0°31'06	evening set	-11056 May 23 j 21:53	26° \approx 29'02	
morning rise	-11062 May 27 j 14:46	29° \approx 37'44		conjunction	-11056 Jun 08 j 23:46	27° \approx 30'06	0°03'53
	-11062 Jun 02 j 16:17	0° \approx		minimum elong	-11056 Jun 08 j 23:46	27° \approx 30'06	0°03'48
retrograde	-11062 Aug 26 j 14:28	3° \approx 00'04		behind sun begin	-11056 Jun 08 j 17:13	27° \approx 29'04	
opposition	-11062 Nov 07 j 20:28	0° \approx 57'53	-0°31'24	behind sun end	-11056 Jun 09 j 06:20	27° \approx 31'07	
min. Earth dist.	-11062 Nov 08 j 23:52	0° \approx 54'53	17.22614 AU	max. Earth dist.	-11056 Jun 08 j 01:56	27° \approx 26'37	19.26920 AU
	-11062 Nov 30 j 20:38	30° \approx		morning rise	-11056 Jun 24 j 21:45	28° \approx 30'33	
direct	-11061 Jan 23 j 15:40	28° \approx 50'44			-11056 Jul 20 j 11:46	0° \approx	
	-11061 Mar 16 j 17:47	0° \approx		retrograde	-11056 Sep 23 j 21:51	1° \approx 53'05	
evening set	-11061 Apr 30 j 04:19	2° \approx 23'25			-11056 Dec 03 j 11:06	30° \approx	
max. Earth dist.	-11061 May 15 j 06:07	3° \approx 20'23	19.22173 AU	opposition	-11056 Dec 06 j 19:29	29° \approx 51'24	0°07'28
				min. Earth dist.	-11056 Dec 07 j 13:36	29° \approx 49'27	17.28158 AU
conjunction	-11061 May 16 j 12:52	3° \approx 25'15	-0°25'18	direct	-11055 Feb 21 j 22:42	27° \approx 45'20	
minimum elong	-11061 May 16 j 12:52	3° \approx 25'15	0°25'38		-11055 May 07 j 06:37	0° \approx	
morning rise	-11061 Jun 01 j 16:49	4° \approx 26'26		evening set	-11055 May 28 j 23:38	1° \approx 16'50	
retrograde	-11061 Aug 31 j 14:32	7° \approx 48'57		max. Earth dist.	-11055 Jun 13 j 05:51	2° \approx 14'42	19.29473 AU
opposition	-11061 Nov 12 j 23:31	5° \approx 46'49	-0°25'13				
min. Earth dist.	-11061 Nov 14 j 02:34	5° \approx 43'53	17.22007 AU	conjunction	-11055 Jun 14 j 00:25	2° \approx 17'40	0°09'44
direct	-11060 Jan 28 j 20:06	3° \approx 39'47		minimum elong	-11055 Jun 14 j 00:25	2° \approx 17'40	0°09'43
evening set	-11060 May 04 j 08:31	7° \approx 12'37		behind sun begin	-11055 Jun 13 j 18:57	2° \approx 16'49	
max. Earth dist.	-11060 May 19 j 10:28	8° \approx 09'42	19.21921 AU	behind sun end	-11055 Jun 14 j 05:53	2° \approx 18'31	
				morning rise	-11055 Jun 29 j 21:07	3° \approx 17'55	
conjunction	-11060 May 20 j 15:43	8° \approx 14'21	-0°19'41	retrograde	-11055 Sep 28 j 21:47	6° \approx 40'15	
minimum elong	-11060 May 20 j 15:43	8° \approx 14'21	0°19'58	opposition	-11055 Dec 11 j 23:58	4° \approx 38'37	0°13'59
morning rise	-11060 Jun 05 j 18:33	9° \approx 15'25		min. Earth dist.	-11055 Dec 12 j 16:45	4° \approx 36'49	17.30938 AU
retrograde	-11060 Sep 04 j 16:27	12° \approx 38'04		direct	-11054 Feb 27 j 03:21	2° \approx 32'47	
opposition	-11060 Nov 17 j 02:52	10° \approx 36'02	-0°18'51	evening set	-11054 Jun 03 j 00:54	6° \approx 03'37	
min. Earth dist.	-11060 Nov 18 j 03:26	10° \approx 33'22	17.22073 AU	max. Earth dist.	-11054 Jun 18 j 06:48	7° \approx 01'25	19.32497 AU
direct	-11059 Feb 02 j 02:28	8° \approx 29'09					
evening set	-11059 May 09 j 12:27	12° \approx 01'59		conjunction	-11054 Jun 19 j 00:13	7° \approx 04'11	0°15'31
				minimum elong	-11054 Jun 19 j 00:13	7° \approx 04'10	0°15'33
conjunction	-11059 May 25 j 18:28	13° \approx 03'36	-0°13'56	behind sun begin	-11054 Jun 18 j 22:19	7° \approx 03'53	
minimum elong	-11059 May 25 j 18:29	13° \approx 03'36	0°14'09	behind sun end	-11054 Jun 19 j 02:06	7° \approx 04'28	
behind sun begin	-11059 May 25 j 15:13	13° \approx 03'05		morning rise	-11054 Jul 04 j 19:58	8° \approx 04'12	
behind sun end	-11059 May 25 j 21:44	13° \approx 04'06		retrograde	-11054 Oct 03 j 22:18	11° \approx 26'18	
max. Earth dist.	-11059 May 24 j 15:37	12° \approx 59'19	19.22310 AU	opposition	-11054 Dec 17 j 04:10	9° \approx 24'41	0°20'23
morning rise	-11059 Jun 10 j 19:56	14° \approx 04'34		min. Earth dist.	-11054 Dec 17 j 18:21	9° \approx 23'10	17.34198 AU
retrograde	-11059 Sep 09 j 16:39	17° \approx 27'15		direct	-11053 Mar 04 j 09:03	7° \approx 19'06	
opposition	-11059 Nov 22 j 06:36	15° \approx 25'20	-0°12'21	evening set	-11053 Jun 08 j 01:09	10° \approx 49'07	
min. Earth dist.	-11059 Nov 23 j 06:45	15° \approx 22'43	17.22770 AU				
direct	-11058 Feb 07 j 06:28	13° \approx 18'37		conjunction	-11053 Jun 23 j 23:22	11° \approx 49'25	0°21'10
evening set	-11058 May 14 j 16:08	16° \approx 51'21		minimum elong	-11053 Jun 23 j 23:22	11° \approx 49'25	0°21'14
				max. Earth dist.	-11053 Jun 23 j 09:33	11° \approx 47'14	19.35998 AU
conjunction	-11058 May 30 j 20:43	17° \approx 52'48	-0°08'05	morning rise	-11053 Jul 09 j 17:57	12° \approx 49'12	
minimum elong	-11058 May 30 j 20:44	17° \approx 52'48	0°08'16	retrograde	-11053 Oct 08 j 21:21	16° \approx 10'59	
behind sun begin	-11058 May 30 j 14:50	17° \approx 51'53		opposition	-11053 Dec 22 j 08:21	14° \approx 09'24	0°26'36
behind sun end	-11058 May 31 j 02:37	17° \approx 53'43		min. Earth dist.	-11053 Dec 22 j 20:27	14° \approx 08'07	17.37929 AU
max. Earth dist.	-11058 May 29 j 18:57	17° \approx 48'42	19.23311 AU	direct	-11052 Mar 08 j 14:18	12° \approx 04'06	
morning rise	-11058 Jun 15 j 21:07	18° \approx 53'37		evening set	-11052 Jun 12 j 00:30	15° \approx 33'11	
retrograde	-11058 Sep 14 j 19:17	22° \approx 16'19					
opposition	-11058 Nov 27 j 10:38	20° \approx 14'29	-0°05'45	conjunction	-11052 Jun 27 j 21:23	16° \approx 33'11	0°26'38
min. Earth dist.	-11058 Nov 28 j 08:13	20° \approx 12'10	17.24044 AU	minimum elong	-11052 Jun 27 j 21:23	16° \approx 33'11	0°26'46

Attention, astronomical year style is used: The year -11052 in astronomical counting style is the year 11053 BCE in historical counting style.

max. Earth dist.	-11052 Jun 27 j 09:15	16° Υ 31'16	19.39979 AU	opposition	-11045 Jan 25 j 00:40	16° δ 35'46	1°02'12
morning rise	-11052 Jul 13 j 15:09	17° Υ 32'43		min. Earth dist.	-11045 Jan 24 j 18:03	16° δ 36'27	17.77513 AU
retrograde	-11052 Oct 12 j 19:57	20° Υ 54'10			-11045 Mar 10 j 04:37	15° κ 8	
opposition	-11052 Dec 26 j 12:07	18° Υ 52'35	0°32'36	direct	-11045 Apr 12 j 03:35	14° δ 33'14	
min. Earth dist.	-11052 Dec 26 j 21:38	18° Υ 51'34	17.42161 AU		-11045 May 14 j 06:30	15° δ 8	
direct	-11051 Mar 13 j 18:41	16° Υ 47'33		evening set	-11045 Jul 14 j 17:27	17° δ 54'03	
evening set	-11051 Jun 16 j 22:51	20° Υ 15'37					
				conjunction	-11045 Jul 30 j 07:42	18° δ 51'51	0°57'34
conjunction	-11051 Jul 02 j 18:43	21° Υ 15'20	0°31'54	minimum elong	-11045 Jul 30 j 07:41	18° δ 51'51	0°58'01
minimum elong	-11051 Jul 02 j 18:43	21° Υ 15'20	0°32'04	max. Earth dist.	-11045 Jul 30 j 16:01	18° δ 53'08	19.81048 AU
max. Earth dist.	-11051 Jul 02 j 10:18	21° Υ 14'00	19.44457 AU	morning rise	-11045 Aug 14 j 20:45	19° δ 49'29	
morning rise	-11051 Jul 18 j 11:28	22° Υ 14'36		retrograde	-11045 Nov 14 j 21:34	23° δ 07'43	
retrograde	-11051 Oct 17 j 18:12	25° Υ 35'38		opposition	-11044 Jan 30 j 00:42	21° δ 06'55	1°05'49
opposition	-11051 Dec 31 j 15:19	23° Υ 34'05	0°38'21	min. Earth dist.	-11044 Jan 29 j 14:36	21° δ 07'58	17.84640 AU
min. Earth dist.	-11051 Dec 31 j 22:05	23° Υ 33'22	17.46880 AU	direct	-11044 Apr 16 j 02:35	19° δ 04'53	
direct	-11050 Mar 18 j 23:07	21° Υ 29'22		evening set	-11044 Jul 18 j 09:19	22° δ 24'21	
evening set	-11050 Jun 21 j 20:26	24° Υ 56'22					
				conjunction	-11044 Aug 02 j 22:57	23° δ 21'50	1°00'39
conjunction	-11050 Jul 07 j 15:03	25° Υ 55'45	0°36'56	minimum elong	-11044 Aug 02 j 22:56	23° δ 21'50	1°01'06
minimum elong	-11050 Jul 07 j 15:03	25° Υ 55'45	0°37'09	max. Earth dist.	-11044 Aug 03 j 09:54	23° δ 23'32	19.88246 AU
max. Earth dist.	-11050 Jul 07 j 08:45	25° Υ 54'46	19.49431 AU	morning rise	-11044 Aug 18 j 11:41	24° δ 19'12	
morning rise	-11050 Jul 23 j 07:03	26° Υ 54'46		retrograde	-11044 Nov 18 j 15:43	27° δ 36'54	
	-11050 Sep 29 j 00:09	0° δ 8		opposition	-11043 Feb 03 j 00:10	25° δ 36'15	1°09'00
retrograde	-11050 Oct 22 j 15:15	0° δ 15'23		min. Earth dist.	-11043 Feb 02 j 12:48	25° δ 37'25	17.91911 AU
	-11050 Nov 15 j 19:07	30° κ 7		direct	-11043 Apr 20 j 23:29	23° δ 34'42	
opposition	-11049 Jan 05 j 18:18	28° Υ 13'53	0°43'49	evening set	-11043 Jul 23 j 00:25	26° δ 52'47	
min. Earth dist.	-11049 Jan 05 j 22:35	28° Υ 13'26	17.52117 AU				
direct	-11049 Mar 24 j 01:21	26° Υ 09'31		conjunction	-11043 Aug 07 j 13:28	27° δ 49'58	1°03'19
evening set	-11049 Jun 26 j 16:48	29° Υ 35'21		minimum elong	-11043 Aug 07 j 13:28	27° δ 49'58	1°03'48
	-11049 Jul 03 j 07:42	0° δ 8		max. Earth dist.	-11043 Aug 08 j 02:22	27° δ 51'57	19.95554 AU
				morning rise	-11043 Aug 23 j 02:01	28° δ 47'05	
conjunction	-11049 Jul 12 j 10:28	0° δ 34'26	0°41'42		-11043 Sep 13 j 07:58	0° Π	
minimum elong	-11049 Jul 12 j 10:27	0° δ 34'26	0°41'57	retrograde	-11043 Nov 23 j 11:04	2° Π 04'11	
max. Earth dist.	-11049 Jul 12 j 07:50	0° δ 34'01	19.54918 AU	opposition	-11042 Feb 07 j 22:35	0° Π 03'41	1°11'44
morning rise	-11049 Jul 28 j 01:36	1° δ 33'09		min. Earth dist.	-11042 Feb 07 j 08:00	0° Π 05'11	17.99241 AU
retrograde	-11049 Oct 27 j 12:59	4° δ 53'20			-11042 Feb 09 j 10:28	30° κ 8	
opposition	-11048 Jan 10 j 20:46	2° δ 51'55	0°48'57	direct	-11042 Apr 25 j 20:55	28° δ 02'35	
min. Earth dist.	-11048 Jan 10 j 21:36	2° δ 51'50	17.57841 AU		-11042 Jul 04 j 05:11	0° Π	
direct	-11048 Mar 28 j 04:25	0° δ 47'58		evening set	-11042 Jul 27 j 14:36	1° Π 19'18	
evening set	-11048 Jun 30 j 12:25	4° δ 12'36					
				conjunction	-11042 Aug 12 j 03:15	2° Π 16'10	1°05'36
conjunction	-11048 Jul 16 j 05:02	5° δ 11'22	0°46'10	minimum elong	-11042 Aug 12 j 03:14	2° Π 16'10	1°06'07
minimum elong	-11048 Jul 16 j 05:02	5° δ 11'22	0°46'27	max. Earth dist.	-11042 Aug 12 j 18:40	2° Π 18'33	20.02879 AU
max. Earth dist.	-11048 Jul 16 j 04:54	5° δ 11'20	19.60879 AU	morning rise	-11042 Aug 27 j 15:36	3° Π 13'02	
morning rise	-11048 Jul 31 j 19:35	6° δ 09'49		retrograde	-11042 Nov 28 j 03:25	6° Π 29'32	
retrograde	-11048 Oct 31 j 08:55	9° δ 29'33		opposition	-11041 Feb 12 j 20:33	4° Π 29'09	1°14'00
opposition	-11047 Jan 14 j 22:37	7° δ 28'15	0°53'45	min. Earth dist.	-11041 Feb 12 j 04:57	4° Π 30'45	18.06570 AU
min. Earth dist.	-11047 Jan 14 j 21:18	7° δ 28'23	17.64037 AU	direct	-11041 Apr 30 j 16:58	2° Π 28'29	
direct	-11047 Apr 02 j 04:20	5° δ 24'44		evening set	-11041 Aug 01 j 03:48	5° Π 43'47	
evening set	-11047 Jul 05 j 06:57	8° δ 48'08					
				conjunction	-11041 Aug 16 j 16:04	6° Π 40'22	1°07'28
conjunction	-11047 Jul 20 j 22:47	9° δ 46'35	0°50'19	minimum elong	-11041 Aug 16 j 16:04	6° Π 40'22	1°08'00
minimum elong	-11047 Jul 20 j 22:47	9° δ 46'34	0°50'40	max. Earth dist.	-11041 Aug 17 j 09:00	6° Π 42'58	20.10190 AU
max. Earth dist.	-11047 Jul 21 j 01:49	9° δ 47'03	19.67282 AU	morning rise	-11041 Sep 01 j 04:30	7° Π 36'58	
morning rise	-11047 Aug 05 j 12:44	10° δ 44'46		retrograde	-11041 Dec 02 j 21:37	10° Π 52'52	
retrograde	-11047 Nov 05 j 06:03	14° δ 04'00		opposition	-11040 Feb 17 j 17:29	8° Π 52'33	1°15'50
opposition	-11046 Jan 19 j 23:50	12° δ 02'52	0°58'10	min. Earth dist.	-11040 Feb 16 j 22:52	8° Π 54'27	18.13852 AU
min. Earth dist.	-11046 Jan 19 j 18:58	12° δ 03'22	17.70615 AU	direct	-11040 May 04 j 12:53	6° Π 52'17	
direct	-11046 Apr 07 j 05:16	9° δ 59'50		evening set	-11040 Aug 04 j 16:10	10° Π 06'11	
evening set	-11046 Jul 10 j 00:38	13° δ 21'57					
				conjunction	-11040 Aug 20 j 04:17	11° Π 02'29	1°08'56
conjunction	-11046 Jul 25 j 15:36	14° δ 20'05	0°54'07	minimum elong	-11040 Aug 20 j 04:17	11° Π 02'29	1°09'30
minimum elong	-11046 Jul 25 j 15:35	14° δ 20'05	0°54'31	max. Earth dist.	-11040 Aug 20 j 23:44	11° Π 05'27	20.17423 AU
max. Earth dist.	-11046 Jul 25 j 21:16	14° δ 20'58	19.74022 AU	morning rise	-11040 Sep 04 j 16:44	11° Π 58'51	
	-11046 Aug 05 j 07:55	15° δ 8		retrograde	-11040 Dec 06 j 11:50	15° Π 14'05	
morning rise	-11046 Aug 10 j 05:03	15° δ 17'59		opposition	-11039 Feb 21 j 13:27	13° Π 13'50	1°17'12
retrograde	-11046 Nov 10 j 01:07	18° δ 36'44		min. Earth dist.	-11039 Feb 20 j 18:02	13° Π 15'49	18.21052 AU

Attention, astronomical year style is used: The year -11039 in astronomical counting style is the year 11040 BCE in historical counting style.

direct	-11039 May 09 j 07:20	11°II13'57		minimum elong	-11033 Sep 18 j 20:20	10°☾39'43	1°08'49
evening set	-11039 Aug 09 j 03:38	14°II26'26		max. Earth dist.	-11033 Sep 20 j 03:01	10°☾44'15	20.65828 AU
				morning rise	-11033 Oct 04 j 11:54	11°☾34'46	
conjunction	-11039 Aug 24 j 15:33	15°II22'27	1°09'59	retrograde	-11032 Jan 06 j 06:16	14°☾45'42	
minimum elong	-11039 Aug 24 j 15:33	15°II22'27	1°10'34	min. Earth dist.	-11032 Mar 23 j 00:37	12°☾49'01	18.69117 AU
max. Earth dist.	-11039 Aug 25 j 12:09	15°II25'35	20.24583 AU	opposition	-11032 Mar 24 j 07:39	12°☾45'55	1°14'43
morning rise	-11039 Sep 09 j 04:16	16°II18'35		direct	-11032 Jun 08 j 10:59	10°☾48'22	
retrograde	-11039 Dec 11 j 04:09	19°II33'11		evening set	-11032 Sep 06 j 13:48	13°☾52'09	
min. Earth dist.	-11038 Feb 25 j 10:17	17°II35'13	18.28171 AU				
opposition	-11038 Feb 26 j 08:28	17°II32'57	1°18'07	conjunction	-11032 Sep 22 j 03:25	14°☾46'41	1°06'38
direct	-11038 May 14 j 01:27	15°II33'23		minimum elong	-11032 Sep 22 j 03:25	14°☾46'41	1°07'13
evening set	-11038 Aug 13 j 14:02	18°II44'29		max. Earth dist.	-11032 Sep 23 j 12:08	14°☾51'30	20.72191 AU
				morning rise	-11032 Oct 07 j 19:36	15°☾41'37	
conjunction	-11038 Aug 29 j 01:58	19°II40'15	1°10'38	retrograde	-11031 Jan 09 j 16:21	18°☾52'01	
minimum elong	-11038 Aug 29 j 01:58	19°II40'15	1°11'14	opposition	-11031 Mar 28 j 20:26	16°☾52'22	1°12'46
max. Earth dist.	-11038 Aug 30 j 01:18	19°II43'47	20.31649 AU	min. Earth dist.	-11031 Mar 27 j 13:06	16°☾55'30	18.75336 AU
morning rise	-11038 Sep 13 j 14:50	20°II36'11		direct	-11031 Jun 12 j 21:36	14°☾55'09	
retrograde	-11038 Dec 15 j 16:29	23°II50'06		evening set	-11031 Sep 10 j 19:57	17°☾57'57	
min. Earth dist.	-11037 Mar 02 j 03:36	21°II52'16	18.35209 AU				
opposition	-11037 Mar 03 j 02:43	21°II49'55	1°18'36	conjunction	-11031 Sep 26 j 10:00	18°☾52'20	1°04'43
direct	-11037 May 18 j 17:47	19°II50'41		minimum elong	-11031 Sep 26 j 10:00	18°☾52'21	1°05'19
evening set	-11037 Aug 17 j 23:47	23°II00'25		max. Earth dist.	-11031 Sep 27 j 18:29	18°☾57'06	20.78256 AU
				morning rise	-11031 Oct 12 j 03:06	19°☾47'09	
conjunction	-11037 Sep 02 j 11:40	23°II55'56	1°10'54	retrograde	-11030 Jan 14 j 03:33	22°☾57'05	
minimum elong	-11037 Sep 02 j 11:40	23°II55'56	1°11'30	min. Earth dist.	-11030 Apr 01 j 00:27	21°☾00'46	18.81228 AU
max. Earth dist.	-11037 Sep 03 j 12:05	23°II59'36	20.38657 AU	opposition	-11030 Apr 02 j 08:40	20°☾57'33	1°10'27
morning rise	-11037 Sep 18 j 01:00	24°II51'39		direct	-11030 Jun 17 j 06:44	19°☾00'38	
retrograde	-11037 Dec 20 j 07:14	28°II04'56		evening set	-11030 Sep 15 j 01:31	22°☾02'29	
opposition	-11036 Mar 06 j 19:48	26°II04'46	1°18'39				
min. Earth dist.	-11036 Mar 05 j 18:08	26°II07'22	18.42196 AU	conjunction	-11030 Sep 30 j 16:18	22°☾56'46	1°02'30
direct	-11036 May 22 j 09:19	24°II05'51		minimum elong	-11030 Sep 30 j 16:18	22°☾56'46	1°03'05
evening set	-11036 Aug 21 j 08:37	27°II14'16		max. Earth dist.	-11030 Oct 02 j 02:23	23°☾01'44	20.83943 AU
				morning rise	-11030 Oct 16 j 10:07	23°☾51'29	
conjunction	-11036 Sep 05 j 20:46	28°II09'34	1°10'47	retrograde	-11029 Jan 18 j 13:04	27°☾00'57	
minimum elong	-11036 Sep 05 j 20:46	28°II09'34	1°11'23	min. Earth dist.	-11029 Apr 05 j 11:58	25°☾04'45	18.86702 AU
max. Earth dist.	-11036 Sep 06 j 23:52	28°II13'37	20.45598 AU	opposition	-11029 Apr 06 j 20:13	25°☾01'31	1°07'47
morning rise	-11036 Sep 21 j 10:26	29°II05'05		direct	-11029 Jun 21 j 15:58	23°☾04'54	
	-11036 Oct 07 j 16:53	0°☾		evening set	-11029 Sep 19 j 07:02	26°☾05'52	
retrograde	-11036 Dec 23 j 18:08	2°☾17'44					
min. Earth dist.	-11035 Mar 10 j 09:30	0°☾20'19	18.49105 AU	conjunction	-11029 Oct 04 j 22:24	27°☾00'02	0°59'58
opposition	-11035 Mar 11 j 12:05	0°☾17'38	1°18'16	minimum elong	-11029 Oct 04 j 22:25	27°☾00'02	1°00'31
	-11035 Mar 18 j 19:25	30°☾II		max. Earth dist.	-11029 Oct 06 j 07:42	27°☾04'53	20.89196 AU
direct	-11035 May 26 j 23:16	28°II19'03		morning rise	-11029 Oct 20 j 17:16	27°☾54'41	
	-11035 Jul 30 j 03:03	0°☾			-11029 Dec 01 j 23:48	0°☾	
evening set	-11035 Aug 25 j 16:52	1°☾26'14		retrograde	-11028 Jan 22 j 23:24	1°☾03'43	
					-11028 Mar 17 j 03:30	30°☾☾	
conjunction	-11035 Sep 10 j 05:08	2°☾21'18	1°10'17	min. Earth dist.	-11028 Apr 08 j 22:31	29°☾07'35	18.91722 AU
minimum elong	-11035 Sep 10 j 05:08	2°☾21'18	1°10'54	opposition	-11028 Apr 10 j 06:57	29°☾04'21	1°04'48
max. Earth dist.	-11035 Sep 11 j 08:58	2°☾25'27	20.52466 AU	direct	-11028 Jun 25 j 00:02	27°☾07'56	
morning rise	-11035 Sep 25 j 19:24	3°☾16'39			-11028 Sep 20 j 02:34	0°☾	
retrograde	-11035 Dec 28 j 07:30	6°☾28'41		evening set	-11028 Sep 22 j 12:08	0°☾08'06	
min. Earth dist.	-11034 Mar 14 j 22:36	4°☾31'34	18.55931 AU				
opposition	-11034 Mar 16 j 03:20	4°☾28'41	1°17'29	conjunction	-11028 Oct 08 j 04:25	1°☾02'12	0°57'08
direct	-11034 May 31 j 12:12	2°☾30'26		minimum elong	-11028 Oct 08 j 04:25	1°☾02'12	0°57'42
evening set	-11034 Aug 30 j 00:21	5°☾36'25		max. Earth dist.	-11028 Oct 09 j 14:45	1°☾07'10	20.93954 AU
				morning rise	-11028 Oct 24 j 00:05	1°☾56'47	
conjunction	-11034 Sep 14 j 13:03	6°☾31'18	1°09'25	retrograde	-11027 Jan 26 j 08:02	5°☾05'23	
minimum elong	-11034 Sep 14 j 13:03	6°☾31'18	1°10'01	min. Earth dist.	-11027 Apr 13 j 08:51	3°☾09'18	18.96213 AU
max. Earth dist.	-11034 Sep 15 j 19:23	6°☾35'48	20.59224 AU	opposition	-11027 Apr 14 j 17:02	3°☾06'04	1°01'30
morning rise	-11034 Sep 30 j 03:48	7°☾26'29		direct	-11027 Jun 29 j 07:37	1°☾09'51	
retrograde	-11033 Jan 01 j 17:58	10°☾37'57		evening set	-11027 Sep 26 j 16:56	4°☾09'15	
opposition	-11033 Mar 20 j 17:55	8°☾38'03	1°16'18				
min. Earth dist.	-11033 Mar 19 j 12:25	8°☾41'01	18.62617 AU	conjunction	-11027 Oct 12 j 09:54	5°☾03'16	0°54'03
direct	-11033 Jun 05 j 00:15	6°☾40'10		minimum elong	-11027 Oct 12 j 09:54	5°☾03'16	0°54'34
evening set	-11033 Sep 03 j 07:19	9°☾45'01		max. Earth dist.	-11027 Oct 13 j 19:05	5°☾08'04	20.98190 AU
				morning rise	-11027 Oct 28 j 06:42	5°☾57'48	
conjunction	-11033 Sep 18 j 20:19	10°☾39'43	1°08'12	retrograde	-11026 Jan 30 j 17:21	9°☾06'01	

Attention, astronomical year style is used: The year -11026 in astronomical counting style is the year 11027 BCE in historical counting style.

min. Earth dist.	-11026 Apr 17 j 18:29	7°Ω09'54	19.00188 AU	direct	-11020 Jul 26 j 21:40	28°Ω56'12	
opposition	-11026 Apr 19 j 02:30	7°Ω06'43	0°57'56		-11020 Sep 15 j 15:17	0°൬	
direct	-11026 Jul 03 j 14:50	5°Ω10'37		evening set	-11020 Oct 23 j 21:47	1°൬52'20	
evening set	-11026 Sep 30 j 21:24	8°Ω09'18					
				conjunction	-11020 Nov 08 j 21:51	2°൬46'23	0°26'34
conjunction	-11026 Oct 16 j 15:23	9°Ω03'17	0°50'43	minimum elong	-11020 Nov 08 j 21:51	2°൬46'23	0°26'53
minimum elong	-11026 Oct 16 j 15:23	9°Ω03'17	0°51'14	max. Earth dist.	-11020 Nov 10 j 05:40	2°൬50'53	21.14943 AU
max. Earth dist.	-11026 Oct 18 j 01:31	9°Ω08'12	21.01905 AU	morning rise	-11020 Nov 25 j 02:11	3°൬41'02	
morning rise	-11026 Nov 01 j 13:06	9°Ω57'47		retrograde	-11019 Feb 27 j 23:19	6°൬47'24	
retrograde	-11025 Feb 04 j 01:19	13°Ω05'37		min. Earth dist.	-11019 May 15 j 23:19	4°൬50'47	19.15417 AU
min. Earth dist.	-11025 Apr 22 j 03:30	11°Ω09'28	19.03644 AU	opposition	-11019 May 17 j 03:41	4°൬47'55	0°26'47
opposition	-11025 Apr 23 j 11:12	11°Ω06'17	0°54'06	direct	-11019 Jul 31 j 02:36	2°൬52'08	
direct	-11025 Jul 07 j 21:21	9°Ω10'17		evening set	-11019 Oct 28 j 02:02	5°൬48'07	
evening set	-11025 Oct 05 j 01:43	12°Ω08'20					
				conjunction	-11019 Nov 13 j 03:01	6°൬42'14	0°22'00
conjunction	-11025 Oct 20 j 20:31	13°Ω02'16	0°47'09	minimum elong	-11019 Nov 13 j 03:01	6°൬42'14	0°22'18
minimum elong	-11025 Oct 20 j 20:31	13°Ω02'17	0°47'38	max. Earth dist.	-11019 Nov 14 j 08:50	6°൬46'28	21.15688 AU
max. Earth dist.	-11025 Oct 22 j 05:25	13°Ω07'00	21.05131 AU	morning rise	-11019 Nov 29 j 08:37	7°൬36'59	
morning rise	-11025 Nov 05 j 19:29	13°Ω56'47		retrograde	-11018 Mar 04 j 07:21	10°൬43'17	
	-11025 Nov 25 j 13:16	15°Ω		min. Earth dist.	-11018 May 20 j 06:12	8°൬46'32	19.15935 AU
retrograde	-11024 Feb 08 j 09:41	17°Ω04'15		opposition	-11018 May 21 j 09:13	8°൬43'49	0°21'40
opposition	-11024 Apr 26 j 19:19	15°Ω04'52	0°50'02	direct	-11018 Aug 04 j 05:38	6°൬48'01	
min. Earth dist.	-11024 Apr 25 j 12:06	15°Ω08'00	19.06636 AU	evening set	-11018 Nov 01 j 06:36	9°൬43'58	
	-11024 Apr 28 j 19:57	15°ꣳΩ					
direct	-11024 Jul 11 j 03:08	13°Ω08'55		conjunction	-11018 Nov 17 j 08:50	10°൬38'11	0°17'20
	-11024 Sep 17 j 08:14	15°Ω		minimum elong	-11018 Nov 17 j 08:50	10°൬38'11	0°17'35
evening set	-11024 Oct 08 j 05:48	16°Ω06'25		max. Earth dist.	-11018 Nov 18 j 14:38	10°൬42'24	21.15969 AU
				morning rise	-11018 Dec 03 j 15:23	11°൬33'01	
conjunction	-11024 Oct 24 j 01:41	17°Ω00'20	0°43'23	retrograde	-11017 Mar 08 j 14:22	14°൬39'17	
minimum elong	-11024 Oct 24 j 01:41	17°Ω00'20	0°43'50	opposition	-11017 May 25 j 14:20	12°൬39'50	0°16'28
max. Earth dist.	-11024 Oct 25 j 11:26	17°Ω05'10	21.07892 AU	min. Earth dist.	-11017 May 24 j 12:20	12°൬42'27	19.15960 AU
morning rise	-11024 Nov 09 j 01:33	17°Ω54'50		direct	-11017 Aug 08 j 09:51	10°൬44'01	
retrograde	-11023 Feb 11 j 17:14	21°Ω01'59		evening set	-11017 Nov 05 j 11:41	13°൬40'01	
min. Earth dist.	-11023 Apr 29 j 19:42	19°Ω05'40	19.09179 AU				
opposition	-11023 May 01 j 02:36	19°Ω02'34	0°45'45	conjunction	-11017 Nov 21 j 14:54	14°൬34'21	0°12'35
direct	-11023 Jul 15 j 09:07	17°Ω06'39		minimum elong	-11017 Nov 21 j 14:54	14°൬34'21	0°12'48
evening set	-11023 Oct 12 j 09:51	20°Ω03'41		behind sun begin	-11017 Nov 21 j 10:47	14°൬33'47	
				behind sun end	-11017 Nov 21 j 19:01	14°൬34'55	
conjunction	-11023 Oct 28 j 06:34	20°Ω57'36	0°39'25	max. Earth dist.	-11017 Nov 22 j 18:07	14°൬38'11	21.15747 AU
minimum elong	-11023 Oct 28 j 06:35	20°Ω57'36	0°39'50	morning rise	-11017 Dec 07 j 22:43	15°൬29'17	
max. Earth dist.	-11023 Oct 29 j 14:58	21°Ω02'13	21.10242 AU	retrograde	-11016 Mar 11 j 22:48	18°൬35'34	
morning rise	-11023 Nov 13 j 07:41	21°Ω52'07		opposition	-11016 May 28 j 19:28	16°൬36'06	0°11'10
retrograde	-11022 Feb 16 j 00:55	24°Ω59'00		min. Earth dist.	-11016 May 27 j 19:22	16°൬38'32	19.15465 AU
min. Earth dist.	-11022 May 04 j 03:16	23°Ω02'35	19.11335 AU	direct	-11016 Aug 11 j 13:09	14°൬40'14	
opposition	-11022 May 05 j 09:36	22°Ω59'32	0°41'15	evening set	-11016 Nov 08 j 17:03	17°൬36'22	
direct	-11022 Jul 19 j 13:04	21°Ω03'40					
evening set	-11022 Oct 16 j 13:37	24°Ω00'17		conjunction	-11016 Nov 24 j 21:28	18°൬30'49	0°07'47
				minimum elong	-11016 Nov 24 j 21:29	18°൬30'49	0°07'57
conjunction	-11022 Nov 01 j 11:31	24°Ω54'14	0°35'17	behind sun begin	-11016 Nov 24 j 15:32	18°൬30'00	
minimum elong	-11022 Nov 01 j 11:31	24°Ω54'14	0°35'40	behind sun end	-11016 Nov 25 j 03:27	18°൬31'38	
max. Earth dist.	-11022 Nov 02 j 20:40	24°Ω58'57	21.12201 AU	max. Earth dist.	-11016 Nov 26 j 00:09	18°൬34'35	21.14964 AU
morning rise	-11022 Nov 17 j 13:36	25°Ω48'47		morning rise	-11016 Dec 11 j 06:10	19°൬25'52	
retrograde	-11021 Feb 20 j 08:26	28°Ω55'26		retrograde	-11015 Mar 16 j 05:46	22°൬32'11	
min. Earth dist.	-11021 May 08 j 10:04	26°Ω58'58	19.13092 AU	min. Earth dist.	-11015 Jun 01 j 01:32	20°൬35'01	19.14384 AU
opposition	-11021 May 09 j 16:02	26°Ω55'58	0°36'35	opposition	-11015 Jun 02 j 00:21	20°൬32'42	0°05'49
direct	-11021 Jul 23 j 18:41	25°Ω00'07		direct	-11015 Aug 15 j 17:10	18°൬36'44	
evening set	-11021 Oct 20 j 17:43	27°Ω56'27		evening set	-11015 Nov 12 j 22:56	21°൬33'04	
conjunction	-11021 Nov 05 j 16:33	28°Ω50'26	0°31'00	conjunction	-11015 Nov 29 j 04:21	22°൬27'39	0°02'56
minimum elong	-11021 Nov 05 j 16:33	28°Ω50'26	0°31'22	minimum elong	-11015 Nov 29 j 04:20	22°൬27'39	0°03'04
max. Earth dist.	-11021 Nov 07 j 00:01	28°Ω54'54	21.13774 AU	behind sun begin	-11015 Nov 28 j 21:41	22°൬26'44	
morning rise	-11021 Nov 21 j 19:56	29°Ω45'02		behind sun end	-11015 Nov 29 j 10:58	22°൬28'33	
	-11021 Nov 26 j 08:51	0°൬		max. Earth dist.	-11015 Nov 30 j 03:59	22°൬30'59	21.13599 AU
retrograde	-11020 Feb 24 j 16:04	2°൬51'31		morning rise	-11015 Dec 15 j 14:13	23°൬22'51	
opposition	-11020 May 12 j 22:02	0°൬52'02	0°31'46	retrograde	-11014 Mar 20 j 13:53	26°൬29'15	
min. Earth dist.	-11020 May 11 j 17:04	0°൬54'57	19.14468 AU	min. Earth dist.	-11014 Jun 05 j 08:45	24°൬31'47	19.12719 AU
	-11020 Jun 04 j 06:25	30°ꣳΩ		opposition	-11014 Jun 06 j 05:20	24°൬29'41	0°00'25

Attention, astronomical year style is used: The year -11014 in astronomical counting style is the year 11015 BCE in historical counting style.

desc. node	-11014 Jul 03 j 22:38	23° <u>᠓</u> 25'51	retrograde	-11008 Apr 13 j 14:30	20° <u>᠗</u> 23'25	
direct	-11014 Aug 19 j 20:48	22° <u>᠓</u> 33'34	opposition	-11008 Jun 29 j 10:36	18° <u>᠗</u> 23'07	-0°31'14
evening set	-11014 Nov 17 j 05:03	25° <u>᠓</u> 30'09	min. Earth dist.	-11008 Jun 29 j 01:27	18° <u>᠗</u> 24'04	18.91853 AU
			direct	-11008 Sep 11 j 23:44	16° <u>᠗</u> 25'24	
conjunction	-11014 Dec 03 j 11:45	26° <u>᠓</u> 24'54	-0°02'04	evening set	-11008 Dec 11 j 05:04	19° <u>᠗</u> 25'12
minimum elong	-11014 Dec 03 j 11:44	26° <u>᠓</u> 24'54	0°01'59			
behind sun begin	-11014 Dec 03 j 05:03	26° <u>᠓</u> 23'59		conjunction	-11008 Dec 27 j 17:53	20° <u>᠗</u> 21'09 -0°30'28
behind sun end	-11014 Dec 03 j 18:25	26° <u>᠓</u> 25'49		minimum elong	-11008 Dec 27 j 17:52	20° <u>᠗</u> 21'09 0°30'38
max. Earth dist.	-11014 Dec 04 j 10:31	26° <u>᠓</u> 28'07	21.11635 AU	max. Earth dist.	-11008 Dec 28 j 04:10	20° <u>᠗</u> 22'37 20.89483 AU
morning rise	-11014 Dec 19 j 22:31	27° <u>᠓</u> 20'14		morning rise	-11007 Jan 13 j 09:51	21° <u>᠗</u> 17'35
	-11013 Feb 19 j 09:23	0° <u>᠗</u>		retrograde	-11007 Apr 18 j 00:14	24° <u>᠗</u> 25'30
retrograde	-11013 Mar 24 j 21:37	0° <u>᠗</u> 26'44		opposition	-11007 Jul 03 j 15:57	22° <u>᠗</u> 25'08 -0°36'12
	-11013 Apr 27 j 16:52	30° <u>᠓</u>		min. Earth dist.	-11007 Jul 03 j 07:59	22° <u>᠗</u> 25'57 18.87050 AU
opposition	-11013 Jun 10 j 10:10	28° <u>᠓</u> 27'05	-0°04'59	direct	-11007 Sep 16 j 06:07	20° <u>᠗</u> 27'08
min. Earth dist.	-11013 Jun 09 j 15:04	28° <u>᠓</u> 29'02	19.10445 AU	evening set	-11007 Dec 15 j 15:22	23° <u>᠗</u> 27'46
direct	-11013 Aug 24 j 01:18	26° <u>᠓</u> 30'47				
evening set	-11013 Nov 21 j 11:54	29° <u>᠓</u> 27'42		conjunction	-11006 Jan 01 j 04:55	24° <u>᠗</u> 23'57 -0°34'53
	-11013 Dec 01 j 03:30	0° <u>᠗</u>		minimum elong	-11006 Jan 01 j 04:55	24° <u>᠗</u> 23'57 0°35'04
conjunction	-11013 Dec 07 j 19:31	0° <u>᠗</u> 22'36	-0°06'57	max. Earth dist.	-11006 Jan 01 j 11:51	24° <u>᠗</u> 24'56 20.84546 AU
minimum elong	-11013 Dec 07 j 19:31	0° <u>᠗</u> 22'36	0°06'55	morning rise	-11006 Jan 17 j 21:45	25° <u>᠗</u> 20'36
behind sun begin	-11013 Dec 07 j 13:19	0° <u>᠗</u> 21'45		retrograde	-11006 Apr 22 j 09:38	28° <u>᠗</u> 28'56
behind sun end	-11013 Dec 08 j 01:43	0° <u>᠗</u> 23'27		opposition	-11006 Jul 07 j 21:42	26° <u>᠗</u> 28'29 -0°41'01
max. Earth dist.	-11013 Dec 08 j 15:02	0° <u>᠗</u> 25'21	21.09084 AU	min. Earth dist.	-11006 Jul 07 j 16:16	26° <u>᠗</u> 29'02 18.81978 AU
morning rise	-11013 Dec 24 j 07:27	1° <u>᠗</u> 18'06		direct	-11006 Sep 20 j 11:04	24° <u>᠗</u> 30'11
retrograde	-11012 Mar 28 j 05:09	4° <u>᠗</u> 24'43		evening set	-11006 Dec 20 j 02:21	27° <u>᠗</u> 31'44
opposition	-11012 Jun 13 j 14:56	2° <u>᠗</u> 24'57	-0°10'21	conjunction	-11005 Jan 05 j 16:58	28° <u>᠗</u> 28'11 -0°39'08
min. Earth dist.	-11012 Jun 12 j 22:17	2° <u>᠗</u> 26'39	19.07616 AU	minimum elong	-11005 Jan 05 j 16:57	28° <u>᠗</u> 28'11 0°39'24
direct	-11012 Aug 27 j 05:02	0° <u>᠗</u> 28'23		max. Earth dist.	-11005 Jan 05 j 22:44	28° <u>᠗</u> 29'01 20.79332 AU
evening set	-11012 Nov 24 j 19:00	3° <u>᠗</u> 25'43		morning rise	-11005 Jan 22 j 10:15	29° <u>᠗</u> 25'04
conjunction	-11012 Dec 11 j 03:51	4° <u>᠗</u> 20'49	-0°11'47		-11005 Feb 02 j 02:34	0° <u>᠓</u>
minimum elong	-11012 Dec 11 j 03:51	4° <u>᠗</u> 20'49	0°11'46	retrograde	-11005 Apr 26 j 20:29	2° <u>᠓</u> 33'50
behind sun begin	-11012 Dec 10 j 23:11	4° <u>᠗</u> 20'10		opposition	-11005 Jul 12 j 03:48	0° <u>᠓</u> 33'20 -0°45'39
behind sun end	-11012 Dec 11 j 08:30	4° <u>᠗</u> 21'27		min. Earth dist.	-11005 Jul 11 j 23:43	0° <u>᠓</u> 33'46 18.76614 AU
max. Earth dist.	-11012 Dec 11 j 22:26	4° <u>᠗</u> 23'26	21.05995 AU		-11005 Jul 25 j 15:49	30° <u>᠓</u>
morning rise	-11012 Dec 27 j 16:33	5° <u>᠗</u> 16'28		direct	-11005 Sep 24 j 18:07	28° <u>᠗</u> 34'46
retrograde	-11011 Apr 01 j 13:41	8° <u>᠗</u> 23'15			-11005 Nov 22 j 19:41	0° <u>᠓</u>
opposition	-11011 Jun 17 j 19:41	6° <u>᠗</u> 23'21	-0°15'41	evening set	-11005 Dec 24 j 14:27	1° <u>᠓</u> 37'18
min. Earth dist.	-11011 Jun 17 j 04:25	6° <u>᠗</u> 24'55	19.04273 AU	conjunction	-11004 Jan 10 j 05:41	2° <u>᠓</u> 34'01 -0°43'14
direct	-11011 Aug 31 j 10:04	4° <u>᠗</u> 26'32		minimum elong	-11004 Jan 10 j 05:41	2° <u>᠓</u> 34'01 0°43'31
evening set	-11011 Nov 29 j 02:34	7° <u>᠗</u> 24'20		max. Earth dist.	-11004 Jan 10 j 07:52	2° <u>᠓</u> 34'20 20.73827 AU
conjunction	-11011 Dec 15 j 12:17	8° <u>᠗</u> 19'37	-0°16'34	morning rise	-11004 Jan 26 j 23:40	3° <u>᠓</u> 31'08
minimum elong	-11011 Dec 15 j 12:17	8° <u>᠗</u> 19'37	0°16'37	retrograde	-11004 Apr 30 j 07:07	6° <u>᠓</u> 40'24
max. Earth dist.	-11011 Dec 16 j 03:44	8° <u>᠗</u> 21'48	21.02434 AU	opposition	-11004 Jul 15 j 10:23	4° <u>᠓</u> 39'51 -0°50'05
morning rise	-11010 Jan 01 j 02:04	9° <u>᠗</u> 15'27		min. Earth dist.	-11004 Jul 15 j 09:11	4° <u>᠓</u> 39'58 18.70968 AU
retrograde	-11010 Apr 05 j 21:08	12° <u>᠗</u> 22'28		direct	-11004 Sep 28 j 00:25	2° <u>᠓</u> 40'58
min. Earth dist.	-11010 Jun 21 j 11:43	10° <u>᠗</u> 23'44	19.00503 AU	evening set	-11004 Dec 28 j 03:17	5° <u>᠓</u> 44'35
opposition	-11010 Jun 22 j 00:36	10° <u>᠗</u> 22'25	-0°20'58	conjunction	-11003 Jan 13 j 19:26	6° <u>᠓</u> 41'35 -0°47'08
direct	-11010 Sep 04 j 13:50	8° <u>᠗</u> 25'18		minimum elong	-11003 Jan 13 j 19:25	6° <u>᠓</u> 41'35 0°47'28
evening set	-11010 Dec 03 j 10:43	11° <u>᠗</u> 23'41		max. Earth dist.	-11003 Jan 13 j 20:11	6° <u>᠓</u> 41'41 20.68027 AU
conjunction	-11010 Dec 19 j 21:38	12° <u>᠗</u> 19'10	-0°21'17	morning rise	-11003 Jan 30 j 13:42	7° <u>᠓</u> 38'55
minimum elong	-11010 Dec 19 j 21:38	12° <u>᠗</u> 19'10	0°21'22	retrograde	-11003 May 04 j 19:24	10° <u>᠓</u> 48'42
max. Earth dist.	-11010 Dec 20 j 12:11	12° <u>᠗</u> 21'13	20.98463 AU	opposition	-11003 Jul 19 j 17:29	8° <u>᠓</u> 48'07 -0°54'18
morning rise	-11009 Jan 05 j 12:06	13° <u>᠗</u> 15'12		min. Earth dist.	-11003 Jul 19 j 17:47	8° <u>᠓</u> 48'05 18.65010 AU
retrograde	-11009 Apr 10 j 06:17	16° <u>᠗</u> 22'27		direct	-11003 Oct 02 j 08:38	6° <u>᠓</u> 48'55
opposition	-11009 Jun 26 j 05:24	14° <u>᠗</u> 22'17	-0°26'09	evening set	-11002 Jan 01 j 17:08	9° <u>᠓</u> 53'40
min. Earth dist.	-11009 Jun 25 j 17:50	14° <u>᠗</u> 23'28	18.96342 AU	conjunction	-11002 Jan 18 j 09:48	10° <u>᠓</u> 50'56 -0°50'49
direct	-11009 Sep 08 j 19:36	12° <u>᠗</u> 24'52		minimum elong	-11002 Jan 18 j 09:47	10° <u>᠓</u> 50'56 0°51'10
evening set	-11009 Dec 07 j 19:42	15° <u>᠗</u> 23'54		max. Earth dist.	-11002 Jan 18 j 06:46	10° <u>᠓</u> 50'29 20.61907 AU
conjunction	-11009 Dec 24 j 07:26	16° <u>᠗</u> 19'37	-0°25'56	morning rise	-11002 Feb 04 j 04:38	11° <u>᠓</u> 48'31
minimum elong	-11009 Dec 24 j 07:26	16° <u>᠗</u> 19'37	0°26'03	retrograde	-11002 May 09 j 07:12	14° <u>᠓</u> 58'51
max. Earth dist.	-11009 Dec 24 j 18:41	16° <u>᠗</u> 21'13	20.94134 AU	opposition	-11002 Jul 24 j 01:17	12° <u>᠓</u> 58'11 -0°58'16
morning rise	-11008 Jan 09 j 22:52	17° <u>᠗</u> 15'51		min. Earth dist.	-11002 Jul 24 j 04:45	12° <u>᠓</u> 57'49 18.58732 AU
				direct	-11002 Oct 06 j 16:18	10° <u>᠓</u> 58'37

Attention, astronomical year style is used: The year -11001 in astronomical counting style is the year 11002 BCE in historical counting style.

evening set	-11001 Jan 06 j 07:58	14° \mathbb{M} 04'33		minimum elong	-10995 Feb 18 j 15:56	10° \mathbb{Z} 46'55	1°08'57
	-11001 Jan 22 j 10:48	15° \mathbb{M}		max. Earth dist.	-10995 Feb 17 j 19:16	10° \mathbb{Z} 43'51	20.11787 AU
				morning rise	-10995 Mar 07 j 11:15	11° \mathbb{Z} 46'13	
conjunction	-11001 Jan 23 j 01:26	15° \mathbb{M} 02'07	-0°54'14	retrograde	-10995 Jun 08 j 15:38	15° \mathbb{Z} 00'30	
minimum elong	-11001 Jan 23 j 01:26	15° \mathbb{M} 02'07	0°54'38	opposition	-10995 Aug 22 j 01:09	12° \mathbb{Z} 58'54	-1°16'40
max. Earth dist.	-11001 Jan 22 j 20:35	15° \mathbb{M} 01'25	20.55455 AU	min. Earth dist.	-10995 Aug 22 j 18:40	12° \mathbb{Z} 57'01	18.08099 AU
morning rise	-11001 Feb 08 j 20:27	15° \mathbb{M} 59'57		direct	-10995 Nov 05 j 03:12	10° \mathbb{Z} 56'07	
retrograde	-11001 May 13 j 21:09	19° \mathbb{M} 10'49		evening set	-10994 Feb 06 j 17:18	14° \mathbb{Z} 11'15	
opposition	-11001 Jul 28 j 09:29	17° \mathbb{M} 10'04	-1°01'56				
min. Earth dist.	-11001 Jul 28 j 14:35	17° \mathbb{M} 09'32	18.52108 AU	conjunction	-10994 Feb 23 j 13:05	15° \mathbb{Z} 10'51	-1°09'30
direct	-11001 Oct 11 j 02:26	15° \mathbb{M} 10'07		minimum elong	-10994 Feb 23 j 13:05	15° \mathbb{Z} 10'51	1°10'03
evening set	-11000 Jan 10 j 23:58	18° \mathbb{M} 17'16		max. Earth dist.	-10994 Feb 22 j 13:58	15° \mathbb{Z} 07'25	20.04359 AU
				morning rise	-10994 Mar 12 j 08:08	16° \mathbb{Z} 10'23	
conjunction	-11000 Jan 27 j 17:50	19° \mathbb{M} 15'07	-0°57'24	retrograde	-10994 Jun 13 j 08:08	19° \mathbb{Z} 25'18	
minimum elong	-11000 Jan 27 j 17:49	19° \mathbb{M} 15'07	0°57'50	opposition	-10994 Aug 26 j 14:29	17° \mathbb{Z} 23'35	-1°17'43
max. Earth dist.	-11000 Jan 27 j 09:00	19° \mathbb{M} 13'50	20.48665 AU	min. Earth dist.	-10994 Aug 27 j 10:35	17° \mathbb{Z} 21'25	18.00746 AU
morning rise	-11000 Feb 13 j 13:12	20° \mathbb{M} 13'12		direct	-10994 Nov 09 j 17:23	15° \mathbb{Z} 20'22	
retrograde	-11000 May 17 j 09:54	23° \mathbb{M} 24'37		evening set	-10993 Feb 11 j 15:19	18° \mathbb{Z} 36'57	
opposition	-11000 Jul 31 j 18:35	21° \mathbb{M} 23'45	-1°05'18	max. Earth dist.	-10993 Feb 27 j 10:22	19° \mathbb{Z} 33'07	19.97083 AU
min. Earth dist.	-11000 Aug 01 j 02:54	21° \mathbb{M} 22'52	18.45174 AU				
direct	-11000 Oct 14 j 11:39	19° \mathbb{M} 23'22		conjunction	-10993 Feb 28 j 11:09	19° \mathbb{Z} 36'49	-1°10'12
evening set	-10999 Jan 14 j 16:29	22° \mathbb{M} 31'46		minimum elong	-10993 Feb 28 j 11:09	19° \mathbb{Z} 36'49	1°10'47
				morning rise	-10993 Mar 17 j 05:54	20° \mathbb{Z} 36'35	
conjunction	-10999 Jan 31 j 10:59	23° \mathbb{M} 29'54	-1°00'16	retrograde	-10993 Jun 18 j 02:58	23° \mathbb{Z} 52'08	
minimum elong	-10999 Jan 31 j 10:59	23° \mathbb{M} 29'54	1°00'43	opposition	-10993 Aug 31 j 04:28	21° \mathbb{Z} 50'21	-1°18'18
max. Earth dist.	-10999 Jan 31 j 00:21	23° \mathbb{M} 28'21	20.41588 AU	min. Earth dist.	-10993 Sep 01 j 01:06	21° \mathbb{Z} 48'07	17.93559 AU
morning rise	-10999 Feb 17 j 06:24	24° \mathbb{M} 28'13		direct	-10993 Nov 14 j 10:28	19° \mathbb{Z} 46'44	
retrograde	-10999 May 22 j 01:06	27° \mathbb{M} 40'12		evening set	-10992 Feb 16 j 14:17	23° \mathbb{Z} 04'45	
opposition	-10999 Aug 05 j 04:06	25° \mathbb{M} 39'12	-1°08'20	max. Earth dist.	-10992 Mar 03 j 07:26	24° \mathbb{Z} 00'54	19.89985 AU
min. Earth dist.	-10999 Aug 05 j 13:49	25° \mathbb{M} 38'10	18.37970 AU				
direct	-10999 Oct 18 j 23:22	23° \mathbb{M} 38'21		conjunction	-10992 Mar 04 j 10:03	24° \mathbb{Z} 04'54	-1°10'30
evening set	-10998 Jan 19 j 10:10	26° \mathbb{M} 48'01		minimum elong	-10992 Mar 04 j 10:02	24° \mathbb{Z} 04'54	1°11'05
				morning rise	-10992 Mar 21 j 04:18	25° \mathbb{Z} 04'53	
conjunction	-10998 Feb 05 j 04:58	27° \mathbb{M} 46'27	-1°02'49	retrograde	-10992 Jun 21 j 20:56	28° \mathbb{Z} 21'04	
minimum elong	-10998 Feb 05 j 04:58	27° \mathbb{M} 46'27	1°03'19	opposition	-10992 Sep 03 j 19:38	26° \mathbb{Z} 19'15	-1°18'26
max. Earth dist.	-10998 Feb 04 j 14:44	27° \mathbb{M} 44'22	20.34277 AU	min. Earth dist.	-10992 Sep 04 j 18:38	26° \mathbb{Z} 16'46	17.86577 AU
morning rise	-10998 Feb 22 j 00:34	28° \mathbb{M} 45'02		direct	-10992 Nov 18 j 02:15	24° \mathbb{Z} 15'17	
	-10998 Mar 17 j 03:48	0° \mathbb{Z}		evening set	-10991 Feb 20 j 13:54	27° \mathbb{Z} 34'45	
retrograde	-10998 May 26 j 14:58	1° \mathbb{Z} 57'34		max. Earth dist.	-10991 Mar 08 j 05:09	28° \mathbb{Z} 30'53	19.83117 AU
	-10998 Aug 08 j 04:32	30° \mathbb{R} \mathbb{M}					
opposition	-10998 Aug 09 j 14:19	29° \mathbb{M} 56'24	-1°11'00	conjunction	-10991 Mar 09 j 09:29	28° \mathbb{Z} 35'10	-1°10'21
min. Earth dist.	-10998 Aug 10 j 03:09	29° \mathbb{M} 55'02	18.30585 AU	minimum elong	-10991 Mar 09 j 09:29	28° \mathbb{Z} 35'10	1°10'58
direct	-10998 Oct 23 j 10:22	27° \mathbb{M} 55'03		morning rise	-10991 Mar 26 j 03:21	29° \mathbb{Z} 35'22	
	-10997 Jan 04 j 00:39	0° \mathbb{Z}			-10991 Apr 02 j 04:47	0° \mathbb{Z}	
evening set	-10997 Jan 24 j 04:38	1° \mathbb{Z} 06'03		retrograde	-10991 Jun 26 j 17:11	2° \mathbb{Z} 52'13	
				opposition	-10991 Sep 08 j 11:31	0° \mathbb{Z} 50'23	-1°18'04
conjunction	-10997 Feb 09 j 23:56	2° \mathbb{Z} 04'47	-1°05'02	min. Earth dist.	-10991 Sep 09 j 10:58	0° \mathbb{Z} 47'50	17.79820 AU
minimum elong	-10997 Feb 09 j 23:56	2° \mathbb{Z} 04'47	1°05'33		-10991 Sep 28 j 09:29	30° \mathbb{R} \mathbb{Z}	
max. Earth dist.	-10997 Feb 09 j 07:55	2° \mathbb{Z} 02'26	20.26826 AU	direct	-10991 Nov 22 j 21:25	28° \mathbb{Z} 46'04	
morning rise	-10997 Feb 26 j 19:29	3° \mathbb{Z} 03'36			-10990 Jan 16 j 03:31	0° \mathbb{Z}	
retrograde	-10997 May 31 j 07:07	6° \mathbb{Z} 16'42		evening set	-10990 Feb 25 j 14:35	2° \mathbb{Z} 07'00	
opposition	-10997 Aug 14 j 01:09	4° \mathbb{Z} 15'23	-1°13'18	max. Earth dist.	-10990 Mar 13 j 04:23	3° \mathbb{Z} 03'11	19.76459 AU
min. Earth dist.	-10997 Aug 14 j 15:06	4° \mathbb{Z} 13'53	18.23087 AU				
direct	-10997 Oct 27 j 23:32	2° \mathbb{Z} 13'33		conjunction	-10990 Mar 14 j 09:59	3° \mathbb{Z} 07'40	-1°09'47
evening set	-10996 Jan 29 j 00:05	5° \mathbb{Z} 25'54		minimum elong	-10990 Mar 14 j 09:59	3° \mathbb{Z} 07'40	1°10'23
				morning rise	-10990 Mar 31 j 03:09	4° \mathbb{Z} 08'04	
conjunction	-10996 Feb 14 j 19:31	6° \mathbb{Z} 24'55	-1°06'54	retrograde	-10990 Jul 01 j 12:35	7° \mathbb{Z} 25'33	
minimum elong	-10996 Feb 14 j 19:31	6° \mathbb{Z} 24'55	1°07'26	opposition	-10990 Sep 13 j 04:25	5° \mathbb{Z} 23'43	-1°17'12
max. Earth dist.	-10996 Feb 14 j 00:27	6° \mathbb{Z} 22'06	20.19293 AU	min. Earth dist.	-10990 Sep 14 j 06:14	5° \mathbb{Z} 20'55	17.73277 AU
morning rise	-10996 Mar 02 j 15:00	7° \mathbb{Z} 23'59		direct	-10990 Nov 27 j 15:14	3° \mathbb{Z} 19'06	
retrograde	-10996 Jun 03 j 22:20	10° \mathbb{Z} 37'40		evening set	-10989 Mar 02 j 16:13	6° \mathbb{Z} 41'28	
opposition	-10996 Aug 17 j 12:50	8° \mathbb{Z} 36'12	-1°15'12	max. Earth dist.	-10989 Mar 18 j 03:27	7° \mathbb{Z} 37'32	19.70024 AU
min. Earth dist.	-10996 Aug 18 j 05:37	8° \mathbb{Z} 34'24	18.15566 AU				
direct	-10996 Oct 31 j 12:15	6° \mathbb{Z} 33'53		conjunction	-10989 Mar 19 j 11:11	7° \mathbb{Z} 42'22	-1°08'45
evening set	-10995 Feb 01 j 20:14	9° \mathbb{Z} 47'37		minimum elong	-10989 Mar 19 j 11:11	7° \mathbb{Z} 42'22	1°09'21
				morning rise	-10989 Apr 05 j 03:49	8° \mathbb{Z} 42'57	
conjunction	-10995 Feb 18 j 15:57	10° \mathbb{Z} 46'55	-1°08'23	retrograde	-10989 Jul 06 j 10:11	12° \mathbb{Z} 01'05	

Attention, astronomical year style is used: The year -10989 in astronomical counting style is the year 10990 BCE in historical counting style.

opposition	-10989 Sep 17 j 22:18	9° $\overline{3}$ 59'14	-1°15'50	max. Earth dist.	-10982 Apr 20 j 21:23	10° \approx 29'16	19.32540 AU
min. Earth dist.	-10989 Sep 19 j 00:40	9° $\overline{3}$ 56'22	17.66948 AU				
direct	-10989 Dec 02 j 13:09	7° $\overline{3}$ 54'19		conjunction	-10982 Apr 22 j 09:07	10° \approx 34'53	-0°49'19
evening set	-10988 Mar 06 j 18:25	11° $\overline{3}$ 18'03		minimum elong	-10982 Apr 22 j 09:07	10° \approx 34'53	0°49'47
max. Earth dist.	-10988 Mar 22 j 04:37	12° $\overline{3}$ 14'12	19.63782 AU	morning rise	-10982 May 08 j 19:09	11° \approx 36'15	
				retrograde	-10982 Aug 08 j 03:48	14° \approx 57'43	
conjunction	-10988 Mar 23 j 13:03	12° $\overline{3}$ 19'10	-1°07'16	opposition	-10982 Oct 20 j 05:05	12° \approx 55'32	-0°52'44
minimum elong	-10988 Mar 23 j 13:03	12° $\overline{3}$ 19'10	1°07'53	min. Earth dist.	-10982 Oct 21 j 12:02	12° \approx 52'09	17.30738 AU
morning rise	-10988 Apr 09 j 04:46	13° $\overline{3}$ 19'55		direct	-10981 Jan 04 j 14:12	10° \approx 48'37	
retrograde	-10988 Jul 10 j 06:44	16° $\overline{3}$ 38'39		evening set	-10981 Apr 10 j 23:54	14° \approx 19'39	
opposition	-10988 Sep 21 j 17:22	14° $\overline{3}$ 36'49	-1°13'58		-10981 Apr 21 j 19:28	15° \approx	
min. Earth dist.	-10988 Sep 22 j 21:42	14° $\overline{3}$ 33'43	17.60817 AU	max. Earth dist.	-10981 Apr 26 j 00:58	15° \approx 15'58	19.28954 AU
direct	-10988 Dec 06 j 09:29	12° $\overline{3}$ 31'35					
evening set	-10987 Mar 11 j 21:27	15° $\overline{3}$ 56'37		conjunction	-10981 Apr 27 j 13:04	15° \approx 21'39	-0°44'58
max. Earth dist.	-10987 Mar 27 j 04:47	16° $\overline{3}$ 52'36	19.57764 AU	minimum elong	-10981 Apr 27 j 13:04	15° \approx 21'39	0°45'26
				morning rise	-10981 May 13 j 22:01	16° \approx 23'03	
conjunction	-10987 Mar 28 j 15:25	16° $\overline{3}$ 57'56	-1°05'20	retrograde	-10981 Aug 13 j 03:13	19° \approx 44'51	
minimum elong	-10987 Mar 28 j 15:25	16° $\overline{3}$ 57'56	1°05'55	opposition	-10981 Oct 25 j 05:51	17° \approx 42'36	-0°47'43
morning rise	-10987 Apr 14 j 06:30	17° $\overline{3}$ 58'50		min. Earth dist.	-10981 Oct 26 j 12:38	17° \approx 39'14	17.27475 AU
retrograde	-10987 Jul 15 j 05:25	21° $\overline{3}$ 18'09		direct	-10980 Jan 09 j 16:21	15° \approx 35'31	
opposition	-10987 Sep 26 j 13:05	19° $\overline{3}$ 16'16	-1°11'36	evening set	-10980 Apr 15 j 04:44	19° \approx 07'11	
min. Earth dist.	-10987 Sep 27 j 17:56	19° $\overline{3}$ 13'07	17.54921 AU	max. Earth dist.	-10980 Apr 30 j 06:38	20° \approx 03'47	19.26020 AU
direct	-10987 Dec 11 j 09:33	17° $\overline{3}$ 10'43					
evening set	-10986 Mar 17 j 00:55	20° $\overline{3}$ 37'00		conjunction	-10980 May 01 j 16:55	20° \approx 09'12	-0°40'18
max. Earth dist.	-10986 Apr 01 j 07:44	21° $\overline{3}$ 33'08	19.51984 AU	minimum elong	-10980 May 01 j 16:55	20° \approx 09'12	0°40'44
				morning rise	-10980 May 18 j 00:38	21° \approx 10'35	
conjunction	-10986 Apr 02 j 18:28	21° $\overline{3}$ 38'29	-1°02'57	retrograde	-10980 Aug 17 j 04:55	24° \approx 32'40	
minimum elong	-10986 Apr 02 j 18:29	21° $\overline{3}$ 38'29	1°03'33	opposition	-10980 Oct 29 j 07:13	22° \approx 30'24	-0°42'21
morning rise	-10986 Apr 19 j 08:32	22° $\overline{3}$ 39'32		min. Earth dist.	-10980 Oct 30 j 12:41	22° \approx 27'11	17.24867 AU
retrograde	-10986 Jul 20 j 03:31	25° $\overline{3}$ 59'21		direct	-10979 Jan 13 j 21:08	20° \approx 23'15	
opposition	-10986 Oct 01 j 09:57	23° $\overline{3}$ 57'26	-1°08'44	evening set	-10979 Apr 20 j 09:47	23° \approx 55'26	
min. Earth dist.	-10986 Oct 02 j 16:14	23° $\overline{3}$ 54'07	17.49275 AU	max. Earth dist.	-10979 May 05 j 11:02	24° \approx 52'06	19.23764 AU
direct	-10986 Dec 16 j 08:26	21° $\overline{3}$ 51'34					
evening set	-10985 Mar 22 j 05:04	25° $\overline{3}$ 19'00		conjunction	-10979 May 06 j 20:46	24° \approx 57'26	-0°35'20
max. Earth dist.	-10985 Apr 06 j 09:07	26° $\overline{3}$ 14'58	19.46499 AU	minimum elong	-10979 May 06 j 20:46	24° \approx 57'26	0°35'44
				morning rise	-10979 May 23 j 03:18	25° \approx 58'48	
conjunction	-10985 Apr 07 j 21:45	26° $\overline{3}$ 20'39	-1°00'09	retrograde	-10979 Aug 22 j 04:15	29° \approx 21'07	
minimum elong	-10985 Apr 07 j 21:45	26° $\overline{3}$ 20'39	1°00'43	opposition	-10979 Nov 03 j 09:07	27° \approx 18'53	-0°36'40
morning rise	-10985 Apr 24 j 11:01	27° $\overline{3}$ 21'49		min. Earth dist.	-10979 Nov 04 j 14:20	27° \approx 15'41	17.22964 AU
	-10985 Jun 16 j 00:12	0° \approx		direct	-10978 Jan 19 j 00:21	25° \approx 11'42	
retrograde	-10985 Jul 25 j 02:55	0° \approx 42'07		evening set	-10978 Apr 25 j 14:43	28° \approx 44'18	
	-10985 Sep 03 j 01:41	30° \overline{R} $\overline{3}$		max. Earth dist.	-10978 May 10 j 16:32	29° \approx 41'11	19.22219 AU
opposition	-10985 Oct 06 j 07:30	28° $\overline{3}$ 40'07	-1°05'24				
min. Earth dist.	-10985 Oct 07 j 14:07	28° $\overline{3}$ 36'47	17.43966 AU	conjunction	-10978 May 12 j 00:34	29° \approx 46'15	-0°30'07
direct	-10985 Dec 21 j 09:25	26° $\overline{3}$ 33'57		minimum elong	-10978 May 12 j 00:34	29° \approx 46'15	0°30'29
	-10984 Mar 25 j 17:19	0° \approx			-10978 May 15 j 15:10	0° \overline{H}	
evening set	-10984 Mar 26 j 09:24	0° \approx 02'26		morning rise	-10978 May 28 j 05:55	0° \overline{H} 47'34	
max. Earth dist.	-10984 Apr 10 j 13:35	0° \approx 58'38	19.41379 AU	retrograde	-10978 Aug 27 j 06:25	4° \overline{H} 10'05	
				opposition	-10978 Nov 08 j 11:40	2° \overline{H} 07'54	-0°30'42
conjunction	-10984 Apr 12 j 01:29	1° \approx 04'13	-0°56'55	min. Earth dist.	-10978 Nov 09 j 14:57	2° \overline{H} 04'56	17.21747 AU
minimum elong	-10984 Apr 12 j 01:29	1° \approx 04'13	0°57'28	direct	-10977 Jan 24 j 06:40	0° \overline{H} 00'48	
morning rise	-10984 Apr 28 j 13:36	2° \approx 05'28		evening set	-10977 Apr 30 j 19:29	3° \overline{H} 33'40	
retrograde	-10984 Jul 29 j 02:53	5° \approx 26'12		max. Earth dist.	-10977 May 15 j 21:30	4° \overline{H} 30'42	19.21347 AU
opposition	-10984 Oct 10 j 06:01	3° \approx 24'09	-1°01'36				
min. Earth dist.	-10984 Oct 11 j 13:11	3° \approx 20'44	17.39053 AU	conjunction	-10977 May 17 j 04:05	4° \overline{H} 35'33	-0°24'41
direct	-10984 Dec 25 j 10:11	1° \approx 17'42		minimum elong	-10977 May 17 j 04:05	4° \overline{H} 35'33	0°24'59
evening set	-10983 Mar 31 j 14:01	4° \approx 47'08		morning rise	-10977 Jun 02 j 08:07	5° \overline{H} 36'47	
max. Earth dist.	-10983 Apr 15 j 16:00	5° \approx 43'13	19.36703 AU	retrograde	-10977 Sep 01 j 06:15	8° \overline{H} 59'29	
				opposition	-10977 Nov 13 j 14:54	6° \overline{H} 57'23	-0°24'31
conjunction	-10983 Apr 17 j 05:06	5° \approx 49'01	-0°53'18	min. Earth dist.	-10977 Nov 14 j 17:53	6° \overline{H} 54'27	17.21208 AU
minimum elong	-10983 Apr 17 j 05:06	5° \approx 49'01	0°53'50	direct	-10976 Jan 29 j 10:33	4° \overline{H} 50'22	
morning rise	-10983 May 03 j 16:21	6° \approx 50'21		evening set	-10976 May 05 j 00:04	8° \overline{H} 23'24	
retrograde	-10983 Aug 03 j 02:36	10° \approx 11'29		max. Earth dist.	-10976 May 20 j 02:17	9° \overline{H} 20'33	19.21140 AU
opposition	-10983 Oct 15 j 05:11	8° \approx 09'20	-0°57'22				
min. Earth dist.	-10983 Oct 16 j 12:28	8° \approx 05'55	17.34629 AU	conjunction	-10976 May 21 j 07:21	9° \overline{H} 25'11	-0°19'03
direct	-10983 Dec 30 j 11:22	6° \approx 02'37		minimum elong	-10976 May 21 j 07:21	9° \overline{H} 25'11	0°19'19
evening set	-10982 Apr 05 j 18:48	9° \approx 32'55		morning rise	-10976 Jun 06 j 10:14	10° \overline{H} 26'19	

Attention, astronomical year style is used: The year -10976 in astronomical counting style is the year 10977 BCE in historical counting style.

retrograde	-10976 Sep 05 j 08:57	13° H 49'07		direct	-10970 Feb 27 j 19:58	3° Y 45'36	
opposition	-10976 Nov 17 j 18:26	11° H 47'07	-0°18'09	evening set	-10970 Jun 03 j 17:38	7° Y 16'34	
min. Earth dist.	-10976 Nov 18 j 19:05	11° H 44'27	17.21302 AU				
direct	-10975 Feb 02 j 17:23	9° H 40'15		conjunction	-10970 Jun 19 j 17:01	8° Y 17'10	0°16'03
evening set	-10975 May 10 j 04:14	13° H 13'17		minimum elong	-10970 Jun 19 j 17:01	8° Y 17'10	0°16'05
max. Earth dist.	-10975 May 25 j 07:23	14° H 10'39	19.21531 AU	behind sun begin	-10970 Jun 19 j 16:16	8° Y 17'03	
				behind sun end	-10970 Jun 19 j 17:45	8° Y 17'17	
conjunction	-10975 May 26 j 10:20	14° H 14'57	-0°13'17	max. Earth dist.	-10970 Jun 18 j 23:34	8° Y 14'24	19.31472 AU
minimum elong	-10975 May 26 j 10:20	14° H 14'57	0°13'30	morning rise	-10970 Jul 05 j 12:50	9° Y 17'14	
behind sun begin	-10975 May 26 j 06:36	14° H 14'22		retrograde	-10970 Oct 04 j 15:04	12° Y 39'26	
behind sun end	-10975 May 26 j 14:04	14° H 15'32		opposition	-10970 Dec 17 j 20:44	10° Y 37'46	0°20'58
morning rise	-10975 Jun 11 j 11:53	15° H 15'57		min. Earth dist.	-10970 Dec 18 j 10:49	10° Y 36'16	17.33177 AU
retrograde	-10975 Sep 10 j 09:12	18° H 38'49		direct	-10969 Mar 05 j 01:29	8° Y 32'07	
opposition	-10975 Nov 22 j 22:32	16° H 36'54	-0°11'38	evening set	-10969 Jun 08 j 17:47	12° Y 02'15	
min. Earth dist.	-10975 Nov 23 j 22:49	16° H 34'17	17.21977 AU				
direct	-10974 Feb 07 j 21:49	14° H 30'12		conjunction	-10969 Jun 24 j 16:05	13° Y 02'35	0°21'39
evening set	-10974 May 15 j 08:11	18° H 03'07		minimum elong	-10969 Jun 24 j 16:05	13° Y 02'35	0°21'45
max. Earth dist.	-10974 May 30 j 11:01	19° H 00'29	19.22490 AU	max. Earth dist.	-10969 Jun 24 j 02:25	13° Y 00'25	19.34995 AU
				morning rise	-10969 Jul 10 j 10:43	14° Y 02'25	
conjunction	-10974 May 31 j 12:50	19° H 04'36	-0°07'27	retrograde	-10969 Oct 09 j 14:02	17° Y 24'18	
minimum elong	-10974 May 31 j 12:50	19° H 04'36	0°07'36	opposition	-10969 Dec 23 j 00:59	15° Y 22'39	0°27'08
behind sun begin	-10974 May 31 j 06:47	19° H 03'40		min. Earth dist.	-10969 Dec 23 j 13:00	15° Y 21'22	17.36956 AU
behind sun end	-10974 May 31 j 18:52	19° H 05'33		direct	-10968 Mar 09 j 06:26	13° Y 17'17	
morning rise	-10974 Jun 16 j 13:15	20° H 05'28		evening set	-10968 Jun 12 j 17:18	16° Y 46'29	
retrograde	-10974 Sep 15 j 11:43	23° H 28'20					
opposition	-10974 Nov 28 j 02:46	21° H 26'30	-0°05'03	conjunction	-10968 Jun 28 j 14:13	17° Y 46'32	0°27'05
min. Earth dist.	-10974 Nov 29 j 00:29	21° H 24'09	17.23195 AU	minimum elong	-10968 Jun 28 j 14:12	17° Y 46'32	0°27'13
direct	-10973 Feb 13 j 04:45	19° H 19'58		max. Earth dist.	-10968 Jun 28 j 02:16	17° Y 44'38	19.39051 AU
evening set	-10973 May 20 j 11:34	22° H 52'36		morning rise	-10968 Jul 14 j 08:01	18° Y 46'06	
				retrograde	-10968 Oct 13 j 13:27	22° Y 07'38	
conjunction	-10973 Jun 05 j 15:00	23° H 53'55	-0°01'32	opposition	-10968 Dec 27 j 04:39	20° Y 06'00	0°33'05
minimum elong	-10973 Jun 05 j 15:00	23° H 53'55	0°01'40	min. Earth dist.	-10968 Dec 27 j 13:52	20° Y 05'01	17.41293 AU
behind sun begin	-10973 Jun 05 j 08:22	23° H 52'53		direct	-10967 Mar 14 j 10:57	18° Y 00'54	
behind sun end	-10973 Jun 05 j 21:39	23° H 54'57		evening set	-10967 Jun 17 j 15:40	21° Y 29'07	
max. Earth dist.	-10973 Jun 04 j 15:56	23° H 50'14	19.23971 AU				
morning rise	-10973 Jun 21 j 14:03	24° H 54'36		conjunction	-10967 Jul 03 j 11:34	22° Y 28'51	0°32'19
asc. node	-10973 Sep 09 j 00:17	28° H 13'37		minimum elong	-10967 Jul 03 j 11:34	22° Y 28'51	0°32'30
retrograde	-10973 Sep 20 j 12:00	28° H 17'23		max. Earth dist.	-10967 Jul 03 j 03:29	22° Y 27'35	19.43657 AU
opposition	-10973 Dec 03 j 07:26	26° H 15'37	0°01'33	morning rise	-10967 Jul 19 j 04:20	23° Y 28'09	
min. Earth dist.	-10973 Dec 04 j 04:22	26° H 13'22	17.24931 AU	retrograde	-10967 Oct 18 j 11:00	26° Y 49'18	
direct	-10972 Feb 18 j 09:15	24° H 09'18		opposition	-10966 Jan 01 j 08:04	24° Y 47'43	0°38'47
evening set	-10972 May 24 j 14:17	27° H 41'30		min. Earth dist.	-10966 Jan 01 j 14:30	24° Y 47'02	17.46162 AU
				direct	-10966 Mar 19 j 15:36	22° Y 42'59	
conjunction	-10972 Jun 09 j 16:15	28° H 42'36	0°04'29	evening set	-10966 Jun 22 j 13:13	26° Y 10'05	
minimum elong	-10972 Jun 09 j 16:15	28° H 42'36	0°04'25				
behind sun begin	-10972 Jun 09 j 09:44	28° H 41'35		conjunction	-10966 Jul 08 j 07:51	27° Y 09'31	0°37'18
behind sun end	-10972 Jun 09 j 22:46	28° H 43'37		minimum elong	-10966 Jul 08 j 07:51	27° Y 09'30	0°37'31
max. Earth dist.	-10972 Jun 08 j 18:17	28° H 39'06	19.25971 AU	max. Earth dist.	-10966 Jul 08 j 01:51	27° Y 08'34	19.48801 AU
morning rise	-10972 Jun 25 j 14:18	29° H 43'06		morning rise	-10966 Jul 23 j 23:52	28° Y 08'32	
	-10972 Jun 30 j 03:38	0° Y			-10966 Aug 26 j 03:28	0° Y	
retrograde	-10972 Sep 24 j 14:11	3° Y 05'46		retrograde	-10966 Oct 23 j 08:48	1° Y 29'16	
opposition	-10972 Dec 07 j 11:56	1° Y 04'02	0°08'07		-10966 Dec 24 j 13:08	30° R Y	
min. Earth dist.	-10972 Dec 08 j 06:06	1° Y 02'05	17.27176 AU	opposition	-10965 Jan 06 j 11:05	29° Y 27'46	0°44'12
	-10971 Jan 02 j 14:32	30° R H		min. Earth dist.	-10965 Jan 06 j 14:49	29° Y 27'22	17.51581 AU
direct	-10971 Feb 22 j 15:27	28° H 57'55		direct	-10965 Mar 24 j 18:06	27° Y 23'24	
	-10971 Apr 12 j 20:10	0° Y			-10965 Jun 13 j 15:06	0° Y	
evening set	-10971 May 29 j 16:16	2° Y 29'34		evening set	-10965 Jun 27 j 09:44	0° Y 49'22	
conjunction	-10971 Jun 14 j 17:07	3° Y 30'26	0°10'19	conjunction	-10965 Jul 13 j 03:27	1° Y 48'28	0°42'01
minimum elong	-10971 Jun 14 j 17:07	3° Y 30'26	0°10'17	minimum elong	-10965 Jul 13 j 03:27	1° Y 48'28	0°42'17
behind sun begin	-10971 Jun 14 j 11:50	3° Y 29'37		max. Earth dist.	-10965 Jul 13 j 01:11	1° Y 48'07	19.54479 AU
behind sun end	-10971 Jun 14 j 22:23	3° Y 31'15		morning rise	-10965 Jul 28 j 18:37	2° Y 47'13	
max. Earth dist.	-10971 Jun 13 j 22:23	3° Y 27'27	19.28468 AU	retrograde	-10965 Oct 28 j 05:51	6° Y 07'30	
morning rise	-10971 Jun 30 j 13:51	4° Y 30'44		opposition	-10964 Jan 11 j 13:34	4° Y 06'07	0°49'17
retrograde	-10971 Sep 29 j 13:56	7° Y 53'10		min. Earth dist.	-10964 Jan 11 j 14:01	4° Y 06'04	17.57495 AU
opposition	-10971 Dec 12 j 16:23	5° Y 51'30	0°14'37	direct	-10964 Mar 28 j 21:03	2° Y 02'12	
min. Earth dist.	-10971 Dec 13 j 09:19	5° Y 49'41	17.29916 AU	evening set	-10964 Jul 01 j 05:19	5° Y 26'57	

Attention, astronomical year style is used: The year -10964 in astronomical counting style is the year 10965 BCE in historical counting style.

conjunction	-10964 Jul 16 j 21:59	6°8'25"44	0°46'26	minimum elong	-10958 Aug 12 j 20:25	3°II'30"51	1°06'01
minimum elong	-10964 Jul 16 j 21:59	6°8'25"44	0°46'45	max. Earth dist.	-10958 Aug 13 j 11:38	3°II'33"11	20.02905 AU
max. Earth dist.	-10964 Jul 16 j 22:03	6°8'25"44	19.60622 AU	morning rise	-10958 Aug 28 j 08:47	4°II'27"41	
morning rise	-10964 Aug 01 j 12:35	7°8'24"13		retrograde	-10958 Nov 28 j 19:57	7°II'44"05	
retrograde	-10964 Nov 01 j 02:18	10°8'44"01		opposition	-10957 Feb 13 j 13:26	5°II'43"37	1°13'52
opposition	-10963 Jan 15 j 15:33	8°8'42"46	0°54'01	min. Earth dist.	-10957 Feb 12 j 22:00	5°II'45"12	18.06582 AU
min. Earth dist.	-10963 Jan 15 j 13:49	8°8'42"57	17.63855 AU	direct	-10957 May 01 j 10:00	3°II'42"52	
direct	-10963 Apr 02 j 20:52	6°8'39"19		evening set	-10957 Aug 01 j 20:58	6°II'58"04	
evening set	-10963 Jul 05 j 23:59	10°8'02"48					
conjunction	-10963 Jul 21 j 15:50	11°8'01"16	0°50'32	conjunction	-10957 Aug 17 j 09:15	7°II'54"37	1°07'19
minimum elong	-10963 Jul 21 j 15:49	11°8'01"16	0°50'53	minimum elong	-10957 Aug 17 j 09:15	7°II'54"37	1°07'52
max. Earth dist.	-10963 Jul 21 j 19:08	11°8'01"47	19.67168 AU	max. Earth dist.	-10957 Aug 18 j 02:08	7°II'57"12	20.10194 AU
morning rise	-10963 Aug 06 j 05:46	11°8'59"27		morning rise	-10957 Sep 01 j 21:40	8°II'51"13	
retrograde	-10963 Oct 10 j 14:36	15°8'		retrograde	-10957 Dec 03 j 13:14	12°II'06"57	
opposition	-10963 Nov 05 j 23:11	15°8'18"46		opposition	-10956 Feb 18 j 10:07	10°II'06"33	1°15'38
min. Earth dist.	-10963 Dec 02 j 23:49	15°8'8'		min. Earth dist.	-10956 Feb 17 j 15:39	10°II'08"26	18.13853 AU
direct	-10962 Jan 20 j 16:46	13°8'17"41	0°58'23	direct	-10956 May 05 j 06:46	8°II'06"10	
evening set	-10962 Jan 20 j 11:44	13°8'18"12	17.70557 AU	evening set	-10956 Aug 05 j 09:07	11°II'19"56	
conjunction	-10962 Apr 07 j 22:19	11°8'14"42		conjunction	-10956 Aug 20 j 21:15	12°II'16"13	1°08'43
minimum elong	-10962 Jul 10 j 17:50	14°8'36"54		minimum elong	-10956 Aug 20 j 21:14	12°II'16"13	1°09'17
max. Earth dist.	-10962 Jul 17 j 00:05	15°8'		max. Earth dist.	-10956 Aug 21 j 16:39	12°II'19"10	20.17433 AU
morning rise	-10962 Jul 26 j 08:47	15°8'35"01	0°54'17	morning rise	-10956 Sep 05 j 09:43	13°II'12"33	
retrograde	-10962 Jul 26 j 08:47	15°8'35"01	0°54'41	retrograde	-10956 Dec 07 j 03:53	16°II'27"38	
min. Earth dist.	-10962 Jul 26 j 14:30	15°8'35"55	19.74013 AU	min. Earth dist.	-10955 Feb 21 j 10:42	14°II'29"15	18.21079 AU
opposition	-10962 Aug 10 j 22:15	16°8'32"56		opposition	-10955 Feb 22 j 06:03	14°II'27"17	1°16'56
direct	-10962 Nov 10 j 18:24	19°8'51"44		direct	-10955 May 10 j 00:07	12°II'27"15	
evening set	-10961 Jan 25 j 17:41	17°8'50"48	1°02'21	evening set	-10955 Aug 09 j 20:20	15°II'39"36	
conjunction	-10961 Jan 25 j 10:57	17°8'51"30	17.77540 AU	conjunction	-10955 Aug 25 j 08:15	16°II'35"36	1°09'43
minimum elong	-10961 Apr 12 j 19:59	15°8'48"18		minimum elong	-10955 Aug 25 j 08:14	16°II'35"36	1°10'19
max. Earth dist.	-10961 Jul 15 j 10:37	19°8'09"08		max. Earth dist.	-10955 Aug 26 j 05:07	16°II'38"46	20.24640 AU
morning rise	-10961 Jul 31 j 00:53	20°8'06"56	0°57'40	morning rise	-10955 Sep 09 j 20:56	17°II'31"43	
retrograde	-10961 Jul 31 j 00:52	20°8'06"56	0°58'06	retrograde	-10955 Dec 11 j 19:22	20°II'46"08	
min. Earth dist.	-10961 Jul 31 j 09:18	20°8'08"15	19.81097 AU	min. Earth dist.	-10954 Feb 26 j 02:32	18°II'48"05	18.28273 AU
opposition	-10961 Aug 15 j 13:55	21°8'04"35		opposition	-10954 Feb 27 j 00:51	18°II'45"49	1°17'48
direct	-10961 Nov 15 j 15:03	24°8'22"49		direct	-10954 May 14 j 18:23	16°II'46"08	
evening set	-10960 Jan 30 j 17:46	22°8'22"02	1°05'53	evening set	-10954 Aug 14 j 06:41	19°II'57"06	
conjunction	-10960 Jan 30 j 07:43	22°8'23"04	17.84702 AU	conjunction	-10954 Aug 29 j 18:36	20°II'52"51	1°10'20
minimum elong	-10960 Apr 16 j 20:09	20°8'20"00		minimum elong	-10954 Aug 29 j 18:35	20°II'52"51	1°10'55
max. Earth dist.	-10960 Jul 19 j 02:40	23°8'39"27		max. Earth dist.	-10954 Aug 30 j 18:11	20°II'56"25	20.31811 AU
morning rise	-10960 Aug 03 j 16:16	24°8'36"56	1°00'41	morning rise	-10954 Sep 14 j 07:28	21°II'48"45	
retrograde	-10960 Aug 03 j 16:15	24°8'36"56	1°01'08	retrograde	-10954 Dec 16 j 08:38	25°II'02"31	
min. Earth dist.	-10960 Aug 04 j 03:02	24°8'38"36	19.88312 AU	opposition	-10953 Mar 03 j 18:57	23°II'02"15	1°18'14
opposition	-10960 Aug 19 j 04:59	25°8'34"18		min. Earth dist.	-10953 Mar 02 j 19:37	23°II'04"37	18.35445 AU
direct	-10960 Nov 19 j 08:36	28°8'51"57		direct	-10953 May 19 j 10:08	21°II'02"56	
evening set	-10959 Feb 03 j 17:03	26°8'51"17	1°09'00	evening set	-10953 Aug 18 j 16:11	24°II'12"33	
conjunction	-10959 Feb 03 j 05:50	26°8'52"27	17.91975 AU	conjunction	-10953 Sep 03 j 04:06	25°II'08"03	1°10'33
minimum elong	-10959 Apr 21 j 16:22	24°8'49"42		minimum elong	-10953 Sep 03 j 04:06	25°II'08"03	1°11'09
max. Earth dist.	-10959 Jul 23 j 17:45	28°8'07"46		max. Earth dist.	-10953 Sep 04 j 04:54	25°II'11"47	20.38973 AU
morning rise	-10959 Aug 08 j 06:49	29°8'04"56	1°03'18	morning rise	-10953 Sep 18 j 17:25	26°II'03"44	
retrograde	-10959 Aug 08 j 06:49	29°8'04"56	1°03'47	retrograde	-10953 Dec 20 j 22:45	29°II'16"53	
min. Earth dist.	-10959 Aug 08 j 19:35	29°8'06"54	19.95608 AU	min. Earth dist.	-10952 Mar 06 j 09:52	27°II'19"20	18.42595 AU
opposition	-10959 Aug 23 j 19:20	0°II'02"02		opposition	-10952 Mar 07 j 11:56	27°II'16"42	1°18'14
direct	-10959 Aug 23 j 05:53	0°II'		direct	-10952 May 23 j 01:39	25°II'17"45	
evening set	-10959 Nov 24 j 03:48	3°II'19"03		evening set	-10952 Aug 22 j 01:00	28°II'26"05	
conjunction	-10958 Feb 08 j 15:33	1°II'18"30	1°11'40	conjunction	-10952 Sep 06 j 13:07	29°II'21"21	1°10'23
minimum elong	-10958 Feb 08 j 01:09	1°II'19"59	17.99282 AU	minimum elong	-10952 Sep 06 j 13:07	29°II'21"21	1°11'00
max. Earth dist.	-10958 Mar 15 j 07:29	30°8'8'		max. Earth dist.	-10952 Sep 07 j 16:28	29°II'25"27	20.46085 AU
morning rise	-10958 Apr 26 j 15:05	29°8'17"21		morning rise	-10952 Sep 17 j 08:10	0°8'	
retrograde	-10958 Jun 06 j 09:17	0°II'		retrograde	-10952 Sep 22 j 02:46	0°8'16"51	
opposition	-10958 Jul 28 j 07:48	2°II'33"59		opposition	-10952 Dec 24 j 10:41	3°8'29"23	
conjunction	-10958 Aug 12 j 20:25	3°II'30"51	1°05'31	min. Earth dist.	-10951 Mar 11 j 01:07	1°8'32"02	18.49681 AU
				opposition	-10951 Mar 12 j 03:59	1°8'29"19	1°17'48

Attention, astronomical year style is used: The year -10951 in astronomical counting style is the year 10952 BCE in historical counting style.

	-10951 Apr 22 j 20:28	30° $\mathbb{R}\mathbb{II}$		max. Earth dist.	-10945 Oct 06 j 23:34	28° \mathbb{E} 16'39	20.90201 AU
direct	-10951 May 27 j 15:23	29° \mathbb{II} 30'45		morning rise	-10945 Oct 21 j 09:13	29° \mathbb{E} 06'26	
	-10951 Jun 30 j 08:17	0° \mathbb{E}			-10945 Nov 06 j 17:33	0° \mathbb{Q}	
evening set	-10951 Aug 26 j 09:08	2° \mathbb{E} 37'51		retrograde	-10944 Jan 23 j 15:03	2° \mathbb{Q} 15'22	
				opposition	-10944 Apr 10 j 22:42	0° \mathbb{Q} 16'03	1°04'05
conjunction	-10951 Sep 10 j 21:25	3° \mathbb{E} 32'55	1°09'51	min. Earth dist.	-10944 Apr 09 j 14:19	0° \mathbb{Q} 19'17	18.92703 AU
minimum elong	-10951 Sep 10 j 21:25	3° \mathbb{E} 32'55	1°10'27		-10944 Apr 17 j 15:45	30° $\mathbb{R}\mathbb{E}$	
max. Earth dist.	-10951 Sep 12 j 01:33	3° \mathbb{E} 37'06	20.53133 AU	direct	-10944 Jun 25 j 15:38	28° \mathbb{E} 19'40	
morning rise	-10951 Sep 26 j 11:41	4° \mathbb{E} 28'14			-10944 Aug 29 j 00:04	0° \mathbb{Q}	
retrograde	-10951 Dec 28 j 23:39	7° \mathbb{E} 40'12		evening set	-10944 Sep 23 j 03:59	1° \mathbb{Q} 19'43	
opposition	-10950 Mar 16 j 19:16	5° \mathbb{E} 40'15	1°16'59				
min. Earth dist.	-10950 Mar 15 j 14:07	5° \mathbb{E} 43'11	18.56674 AU	conjunction	-10944 Oct 08 j 20:13	2° \mathbb{Q} 13'47	0°56'29
direct	-10950 Jun 01 j 04:27	3° \mathbb{E} 42'04		minimum elong	-10944 Oct 08 j 20:13	2° \mathbb{Q} 13'47	0°57'01
evening set	-10950 Aug 30 j 16:28	6° \mathbb{E} 48'00		max. Earth dist.	-10944 Oct 10 j 06:27	2° \mathbb{Q} 18'44	20.94916 AU
				morning rise	-10944 Oct 24 j 15:51	3° \mathbb{Q} 08'19	
conjunction	-10950 Sep 15 j 05:09	7° \mathbb{E} 42'52	1°08'57	retrograde	-10943 Jan 26 j 23:04	6° \mathbb{Q} 16'47	
minimum elong	-10950 Sep 15 j 05:09	7° \mathbb{E} 42'52	1°09'34	min. Earth dist.	-10943 Apr 14 j 00:34	4° \mathbb{Q} 20'41	18.97159 AU
max. Earth dist.	-10950 Sep 16 j 11:40	7° \mathbb{E} 47'23	20.60043 AU	opposition	-10943 Apr 15 j 08:34	4° \mathbb{Q} 17'29	1°00'47
morning rise	-10950 Sep 30 j 19:55	8° \mathbb{E} 38'02		direct	-10943 Jun 30 j 00:02	2° \mathbb{Q} 21'16	
retrograde	-10949 Jan 02 j 10:30	11° \mathbb{E} 49'27		evening set	-10943 Sep 27 j 08:39	5° \mathbb{Q} 20'31	
min. Earth dist.	-10949 Mar 20 j 04:10	9° \mathbb{E} 52'37	18.63496 AU				
opposition	-10949 Mar 21 j 09:51	9° \mathbb{E} 49'38	1°15'45	conjunction	-10943 Oct 13 j 01:35	6° \mathbb{Q} 14'29	0°53'23
direct	-10949 Jun 05 j 16:16	7° \mathbb{E} 51'50		minimum elong	-10943 Oct 13 j 01:36	6° \mathbb{Q} 14'29	0°53'55
evening set	-10949 Sep 03 j 23:29	10° \mathbb{E} 56'39		max. Earth dist.	-10943 Oct 14 j 10:48	6° \mathbb{Q} 19'17	20.99137 AU
				morning rise	-10943 Oct 28 j 22:21	7° \mathbb{Q} 08'59	
conjunction	-10949 Sep 19 j 12:30	11° \mathbb{E} 51'20	1°07'41	retrograde	-10942 Jan 31 j 08:24	10° \mathbb{Q} 17'01	
minimum elong	-10949 Sep 19 j 12:30	11° \mathbb{E} 51'20	1°08'17	min. Earth dist.	-10942 Apr 18 j 09:49	8° \mathbb{Q} 20'54	19.01139 AU
max. Earth dist.	-10949 Sep 20 j 19:19	11° \mathbb{E} 55'53	20.66762 AU	opposition	-10942 Apr 19 j 17:52	8° \mathbb{Q} 17'41	0°57'12
morning rise	-10949 Oct 05 j 04:03	12° \mathbb{E} 46'22		direct	-10942 Jul 04 j 06:15	6° \mathbb{Q} 21'34	
retrograde	-10948 Jan 06 j 22:50	15° \mathbb{E} 57'15		evening set	-10942 Oct 01 j 12:49	9° \mathbb{Q} 20'05	
opposition	-10948 Mar 24 j 23:24	13° \mathbb{E} 57'34	1°14'08				
min. Earth dist.	-10948 Mar 23 j 16:12	14° \mathbb{E} 00'42	18.70092 AU	conjunction	-10942 Oct 17 j 06:45	10° \mathbb{Q} 14'01	0°50'03
direct	-10948 Jun 09 j 03:20	12° \mathbb{E} 00'07		minimum elong	-10942 Oct 17 j 06:46	10° \mathbb{Q} 14'01	0°50'32
evening set	-10948 Sep 07 j 05:57	15° \mathbb{E} 03'53		max. Earth dist.	-10942 Oct 18 j 17:01	10° \mathbb{Q} 18'56	21.02877 AU
				morning rise	-10942 Nov 02 j 04:27	11° \mathbb{Q} 08'29	
conjunction	-10948 Sep 22 j 19:32	15° \mathbb{E} 58'25	1°06'05	retrograde	-10941 Feb 04 j 15:42	14° \mathbb{Q} 16'06	
minimum elong	-10948 Sep 22 j 19:32	15° \mathbb{E} 58'25	1°06'41	min. Earth dist.	-10941 Apr 22 j 18:44	12° \mathbb{Q} 19'54	19.04645 AU
max. Earth dist.	-10948 Sep 24 j 04:14	16° \mathbb{E} 03'13	20.73199 AU	opposition	-10941 Apr 24 j 02:26	12° \mathbb{Q} 16'44	0°53'22
morning rise	-10948 Oct 08 j 11:42	16° \mathbb{E} 53'19		direct	-10941 Jul 08 j 13:37	10° \mathbb{Q} 20'42	
retrograde	-10947 Jan 10 j 08:21	20° \mathbb{E} 03'40		evening set	-10941 Oct 05 j 17:01	13° \mathbb{Q} 18'34	
min. Earth dist.	-10947 Mar 28 j 05:01	18° \mathbb{E} 07'16	18.76366 AU				
opposition	-10947 Mar 29 j 12:19	18° \mathbb{E} 04'08	1°12'08	conjunction	-10941 Oct 21 j 11:46	14° \mathbb{Q} 12'27	0°46'29
direct	-10947 Jun 13 j 13:24	16° \mathbb{E} 07'02		minimum elong	-10941 Oct 21 j 11:46	14° \mathbb{Q} 12'27	0°46'57
evening set	-10947 Sep 11 j 11:59	19° \mathbb{E} 09'47		max. Earth dist.	-10941 Oct 22 j 20:52	14° \mathbb{Q} 17'12	21.06175 AU
					-10941 Nov 04 j 09:27	15° \mathbb{Q}	
conjunction	-10947 Sep 27 j 02:00	20° \mathbb{E} 04'09	1°04'09	morning rise	-10941 Nov 06 j 10:39	15° \mathbb{Q} 06'54	
minimum elong	-10947 Sep 27 j 02:00	20° \mathbb{E} 04'10	1°04'44	retrograde	-10940 Feb 09 j 00:21	18° \mathbb{Q} 14'09	
max. Earth dist.	-10947 Sep 28 j 10:29	20° \mathbb{E} 08'55	20.79296 AU	min. Earth dist.	-10940 Apr 26 j 02:43	16° \mathbb{Q} 17'53	19.07736 AU
morning rise	-10947 Oct 12 j 19:03	20° \mathbb{E} 58'57		opposition	-10940 Apr 27 j 10:11	16° \mathbb{Q} 14'45	0°49'18
retrograde	-10946 Jan 14 j 19:54	24° \mathbb{E} 08'49			-10940 May 31 j 04:31	15° $\mathbb{R}\mathbb{Q}$	
min. Earth dist.	-10946 Apr 01 j 16:17	22° \mathbb{E} 12'36	18.82270 AU	direct	-10940 Jul 11 j 18:55	14° \mathbb{Q} 18'46	
opposition	-10946 Apr 03 j 00:31	22° \mathbb{E} 09'23	1°09'47		-10940 Aug 21 j 03:49	15° \mathbb{Q}	
direct	-10946 Jun 17 j 22:54	20° \mathbb{E} 12'34		evening set	-10940 Oct 08 j 20:55	17° \mathbb{Q} 16'04	
evening set	-10946 Sep 15 j 17:39	23° \mathbb{E} 14'22					
				conjunction	-10940 Oct 24 j 16:43	18° \mathbb{Q} 09'57	0°42'43
conjunction	-10946 Oct 01 j 08:24	24° \mathbb{E} 08'38	1°01'53	minimum elong	-10940 Oct 24 j 16:43	18° \mathbb{Q} 09'57	0°43'09
minimum elong	-10946 Oct 01 j 08:24	24° \mathbb{E} 08'38	1°02'28	max. Earth dist.	-10940 Oct 26 j 02:40	18° \mathbb{Q} 14'48	21.09054 AU
max. Earth dist.	-10946 Oct 02 j 18:21	24° \mathbb{E} 13'35	20.84977 AU	morning rise	-10940 Nov 09 j 16:31	19° \mathbb{Q} 04'23	
morning rise	-10946 Oct 17 j 02:10	25° \mathbb{E} 03'19		retrograde	-10939 Feb 12 j 07:06	22° \mathbb{Q} 11'19	
retrograde	-10945 Jan 19 j 04:39	28° \mathbb{E} 12'42		min. Earth dist.	-10939 Apr 30 j 10:21	20° \mathbb{Q} 15'01	19.10413 AU
min. Earth dist.	-10945 Apr 06 j 03:56	26° \mathbb{E} 16'33	18.87725 AU	opposition	-10939 May 01 j 17:28	20° \mathbb{Q} 11'54	0°45'01
opposition	-10945 Apr 07 j 11:58	26° \mathbb{E} 13'21	1°07'06	direct	-10939 Jul 16 j 00:28	18° \mathbb{Q} 15'59	
direct	-10945 Jun 22 j 07:55	24° \mathbb{E} 16'47		evening set	-10939 Oct 13 j 00:41	21° \mathbb{Q} 12'49	
evening set	-10945 Sep 19 j 23:02	27° \mathbb{E} 17'41					
				conjunction	-10939 Oct 28 j 21:21	22° \mathbb{Q} 06'41	0°38'46
conjunction	-10945 Oct 05 j 14:23	28° \mathbb{E} 11'49	0°59'20	minimum elong	-10939 Oct 28 j 21:21	22° \mathbb{Q} 06'41	0°39'10
minimum elong	-10945 Oct 05 j 14:24	28° \mathbb{E} 11'49	0°59'54	max. Earth dist.	-10939 Oct 30 j 06:02	22° \mathbb{Q} 11'21	21.11546 AU

Attention, astronomical year style is used: The year -10939 in astronomical counting style is the year 10940 BCE in historical counting style.

morning rise	-10939 Nov 13 j 22:23	23° Ω 01'09		min. Earth dist.	-10932 May 28 j 10:12	17° η 46'27	19.16921 AU
retrograde	-10938 Feb 16 j 15:24	26° Ω 07'50		opposition	-10932 May 29 j 10:01	17° η 44'03	0°10'28
min. Earth dist.	-10938 May 04 j 17:37	24° Ω 11'28	19.12710 AU	direct	-10932 Aug 12 j 02:56	15° η 48'17	
opposition	-10938 May 06 j 00:21	24° Ω 08'23	0°40'32	evening set	-10932 Nov 09 j 07:47	18° η 44'20	
direct	-10938 Jul 20 j 05:08	22° Ω 12'32					
evening set	-10938 Oct 17 j 04:28	25° Ω 09'00		conjunction	-10932 Nov 25 j 12:09	19° η 38'45	0°07'10
				minimum elong	-10932 Nov 25 j 12:09	19° η 38'45	0°07'20
conjunction	-10938 Nov 02 j 02:18	26° Ω 02'54	0°34'38	behind sun begin	-10932 Nov 25 j 06:03	19° η 37'55	
minimum elong	-10938 Nov 02 j 02:18	26° Ω 02'54	0°35'01	behind sun end	-10932 Nov 25 j 18:14	19° η 39'35	
max. Earth dist.	-10938 Nov 03 j 11:38	26° Ω 07'38	21.13642 AU	max. Earth dist.	-10932 Nov 26 j 14:23	19° η 42'27	21.16344 AU
morning rise	-10938 Nov 18 j 04:19	26° Ω 57'23		morning rise	-10932 Dec 11 j 20:45	20° η 33'46	
	-10937 Feb 08 j 06:07	0° η		retrograde	-10931 Mar 16 j 20:44	23° η 40'00	
retrograde	-10937 Feb 20 j 22:14	0° η 03'52		opposition	-10931 Jun 02 j 14:59	21° η 40'37	0°05'08
	-10937 Mar 05 j 16:50	30° κ Ω		min. Earth dist.	-10931 Jun 01 j 16:37	21° η 42'53	19.15677 AU
min. Earth dist.	-10937 May 09 j 00:29	28° Ω 07'28	19.14597 AU	direct	-10931 Aug 16 j 07:41	19° η 44'45	
opposition	-10937 May 10 j 06:38	28° Ω 04'26	0°35'52	evening set	-10931 Nov 13 j 13:25	22° η 40'59	
direct	-10937 Jul 24 j 09:15	26° Ω 08'40					
evening set	-10937 Oct 21 j 08:27	29° Ω 04'50		conjunction	-10931 Nov 29 j 18:46	23° η 35'31	0°02'21
				minimum elong	-10931 Nov 29 j 18:46	23° η 35'31	0°02'28
conjunction	-10937 Nov 06 j 07:14	29° Ω 58'46	0°30'20	behind sun begin	-10931 Nov 29 j 12:07	23° η 34'37	
minimum elong	-10937 Nov 06 j 07:15	29° Ω 58'46	0°30'41	behind sun end	-10931 Nov 30 j 01:26	23° η 36'26	
	-10937 Nov 06 j 15:57	0° η		max. Earth dist.	-10931 Nov 30 j 18:03	23° η 38'48	21.14808 AU
max. Earth dist.	-10937 Nov 07 j 14:53	0° η 03'16	21.15334 AU	morning rise	-10931 Dec 16 j 04:37	24° η 30'41	
morning rise	-10937 Nov 22 j 10:33	0° η 53'19		retrograde	-10930 Mar 21 j 04:23	27° η 37'00	
retrograde	-10936 Feb 25 j 06:15	3° η 59'39		desc. node	-10930 May 23 j 09:22	26° η 12'09	
min. Earth dist.	-10936 May 12 j 07:25	2° η 03'11	19.16069 AU	opposition	-10930 Jun 06 j 19:56	25° η 37'31	-0°00'13
opposition	-10936 May 13 j 12:41	2° η 00'15	0°31'02	min. Earth dist.	-10930 Jun 05 j 23:38	25° η 39'35	19.13837 AU
direct	-10936 Jul 27 j 13:11	0° η 04'31		direct	-10930 Aug 20 j 10:52	23° η 41'28	
evening set	-10936 Oct 24 j 12:27	3° η 00'30		evening set	-10930 Nov 17 j 19:31	26° η 37'57	
conjunction	-10936 Nov 09 j 12:24	3° η 54'30	0°25'54	conjunction	-10930 Dec 04 j 02:09	27° η 32'40	-0°02'38
minimum elong	-10936 Nov 09 j 12:24	3° η 54'30	0°26'14	minimum elong	-10930 Dec 04 j 02:07	27° η 32'39	0°02'34
max. Earth dist.	-10936 Nov 10 j 20:20	3° η 59'02	21.16576 AU	behind sun begin	-10930 Dec 03 j 19:27	27° η 31'45	
morning rise	-10936 Nov 25 j 16:38	4° η 49'06		behind sun end	-10930 Dec 04 j 08:48	27° η 33'34	
retrograde	-10935 Feb 28 j 13:29	7° η 55'20		max. Earth dist.	-10930 Dec 05 j 00:31	27° η 35'49	21.12675 AU
opposition	-10935 May 17 j 18:18	5° η 55'59	0°26'03	morning rise	-10930 Dec 20 j 12:51	28° η 27'58	
min. Earth dist.	-10935 May 16 j 13:54	5° η 58'50	19.17068 AU		-10929 Jan 19 j 18:19	0° Ω	
direct	-10935 Jul 31 j 17:00	4° η 00'18		retrograde	-10929 Mar 25 j 11:50	1° Ω 34'22	
evening set	-10935 Oct 28 j 16:47	6° η 56'10			-10929 May 31 j 14:44	30° κ η	
				min. Earth dist.	-10929 Jun 10 j 05:49	29° η 36'41	19.11412 AU
conjunction	-10935 Nov 13 j 17:42	7° η 50'15	0°21'21	opposition	-10929 Jun 11 j 00:33	29° η 34'46	-0°05'35
minimum elong	-10935 Nov 13 j 17:42	7° η 50'15	0°21'37	direct	-10929 Aug 24 j 15:40	27° η 38'30	
max. Earth dist.	-10935 Nov 14 j 23:34	7° η 54'28	21.17347 AU		-10929 Nov 11 j 03:36	0° Ω	
morning rise	-10935 Nov 29 j 23:13	8° η 44'57		evening set	-10929 Nov 22 j 02:09	0° Ω 35'19	
retrograde	-10934 Mar 04 j 21:17	11° η 51'08					
opposition	-10934 May 21 j 23:47	9° η 51'47	0°20'57	conjunction	-10929 Dec 08 j 09:44	1° Ω 30'11	-0°07'28
min. Earth dist.	-10934 May 20 j 20:46	9° η 54'30	19.17584 AU	minimum elong	-10929 Dec 08 j 09:43	1° Ω 30'11	0°07'26
direct	-10934 Aug 04 j 20:03	7° η 56'07		behind sun begin	-10929 Dec 08 j 03:37	1° Ω 29'21	
evening set	-10934 Nov 01 j 21:19	10° η 51'58		behind sun end	-10929 Dec 08 j 15:49	1° Ω 31'01	
				max. Earth dist.	-10929 Dec 09 j 05:00	1° Ω 32'54	21.09996 AU
conjunction	-10934 Nov 17 j 23:29	11° η 46'09	0°16'42	morning rise	-10929 Dec 24 j 21:36	2° Ω 25'39	
minimum elong	-10934 Nov 17 j 23:29	11° η 46'09	0°16'56	retrograde	-10928 Mar 28 j 20:02	5° Ω 32'11	
max. Earth dist.	-10934 Nov 19 j 05:09	11° η 50'21	21.17593 AU	opposition	-10928 Jun 14 j 05:17	3° Ω 32'26	-0°10'55
morning rise	-10934 Dec 04 j 05:58	12° η 40'56		min. Earth dist.	-10928 Jun 13 j 12:41	3° Ω 34'08	19.08482 AU
retrograde	-10933 Mar 09 j 05:13	15° η 47'06		direct	-10928 Aug 27 j 19:27	1° Ω 35'55	
min. Earth dist.	-10933 May 25 j 03:17	13° η 50'23	19.17541 AU	evening set	-10928 Nov 25 j 08:58	4° Ω 33'07	
opposition	-10933 May 26 j 05:00	13° η 47'47	0°15'45				
direct	-10933 Aug 09 j 00:18	11° η 52'06		conjunction	-10928 Dec 11 j 17:43	5° Ω 28'11	-0°12'16
evening set	-10933 Nov 06 j 02:27	14° η 48'01		minimum elong	-10928 Dec 11 j 17:43	5° Ω 28'11	0°12'17
				behind sun begin	-10928 Dec 11 j 13:20	5° Ω 27'35	
conjunction	-10933 Nov 22 j 05:35	15° η 42'18	0°11'58	behind sun end	-10928 Dec 11 j 22:06	5° Ω 28'47	
minimum elong	-10933 Nov 22 j 05:35	15° η 42'18	0°12'09	max. Earth dist.	-10928 Dec 12 j 12:16	5° Ω 30'48	21.06827 AU
behind sun begin	-10933 Nov 22 j 01:07	15° η 41'41		morning rise	-10928 Dec 28 j 06:21	6° Ω 23'48	
behind sun end	-10933 Nov 22 j 10:03	15° η 42'55		retrograde	-10927 Apr 02 j 03:04	9° Ω 30'30	
max. Earth dist.	-10933 Nov 23 j 08:32	15° η 46'06	21.17271 AU	opposition	-10927 Jun 18 j 09:53	7° Ω 30'37	-0°16'13
morning rise	-10933 Dec 08 j 13:18	16° η 37'12		min. Earth dist.	-10927 Jun 17 j 18:39	7° Ω 32'11	19.05088 AU
retrograde	-10932 Mar 12 j 12:46	19° η 43'23		direct	-10927 Sep 01 j 00:03	5° Ω 33'50	

Attention, astronomical year style is used: The year -10927 in astronomical counting style is the year 10928 BCE in historical counting style.

evening set	-10927 Nov 29 j 16:31	8° <u>♂</u> 31'31		max. Earth dist.	-10920 Jan 10 j 21:17	3° <u>♂</u> 40'37	20.74654 AU
				morning rise	-10920 Jan 27 j 13:05	4° <u>♂</u> 37'24	
conjunction	-10927 Dec 16 j 02:09	9° <u>♂</u> 26'46	-0°17'01	retrograde	-10920 Apr 30 j 20:54	7° <u>♂</u> 46'36	
minimum elong	-10927 Dec 16 j 02:09	9° <u>♂</u> 26'46	0°17'03	opposition	-10920 Jul 16 j 00:17	5° <u>♂</u> 46'06	-0°50'19
max. Earth dist.	-10927 Dec 16 j 17:39	9° <u>♂</u> 28'57	21.03241 AU	min. Earth dist.	-10920 Jul 15 j 23:16	5° <u>♂</u> 46'12	18.71743 AU
morning rise	-10926 Jan 01 j 15:51	10° <u>♂</u> 22'35		direct	-10920 Sep 28 j 13:58	3° <u>♂</u> 47'16	
retrograde	-10926 Apr 06 j 11:43	13° <u>♂</u> 29'30		evening set	-10920 Dec 28 j 16:45	6° <u>♂</u> 50'47	
opposition	-10926 Jun 22 j 14:37	11° <u>♂</u> 29'28	-0°21'26				
min. Earth dist.	-10926 Jun 22 j 01:31	11° <u>♂</u> 30'49	19.01315 AU	conjunction	-10919 Jan 14 j 08:49	7° <u>♂</u> 47'45	-0°47'19
direct	-10926 Sep 05 j 04:20	9° <u>♂</u> 32'23		minimum elong	-10919 Jan 14 j 08:48	7° <u>♂</u> 47'45	0°47'38
evening set	-10926 Dec 04 j 00:30	12° <u>♂</u> 30'39		max. Earth dist.	-10919 Jan 14 j 09:24	7° <u>♂</u> 47'50	20.68732 AU
				morning rise	-10919 Jan 31 j 03:02	8° <u>♂</u> 45'04	
conjunction	-10926 Dec 20 j 11:20	13° <u>♂</u> 26'07	-0°21'42	retrograde	-10919 May 05 j 09:16	11° <u>♂</u> 54'47	
minimum elong	-10926 Dec 20 j 11:20	13° <u>♂</u> 26'07	0°21'48	opposition	-10919 Jul 20 j 07:25	9° <u>♂</u> 54'13	-0°54'29
max. Earth dist.	-10926 Dec 21 j 01:59	13° <u>♂</u> 28'11	20.99282 AU	min. Earth dist.	-10919 Jul 20 j 08:05	9° <u>♂</u> 54'08	18.65635 AU
morning rise	-10925 Jan 06 j 01:44	14° <u>♂</u> 22'07		direct	-10919 Oct 02 j 22:30	7° <u>♂</u> 55'03	
retrograde	-10925 Apr 10 j 19:32	17° <u>♂</u> 29'17		evening set	-10918 Jan 02 j 06:44	10° <u>♂</u> 59'41	
opposition	-10925 Jun 26 j 19:26	15° <u>♂</u> 29'08	-0°26'35				
min. Earth dist.	-10925 Jun 26 j 07:42	15° <u>♂</u> 30'21	18.97176 AU	conjunction	-10918 Jan 18 j 23:20	11° <u>♂</u> 56'56	-0°50'56
direct	-10925 Sep 09 j 09:11	13° <u>♂</u> 31'47		minimum elong	-10918 Jan 18 j 23:20	11° <u>♂</u> 56'55	0°51'18
evening set	-10925 Dec 08 j 09:19	16° <u>♂</u> 30'43		max. Earth dist.	-10918 Jan 18 j 19:52	11° <u>♂</u> 56'26	20.62439 AU
				morning rise	-10918 Feb 04 j 18:07	12° <u>♂</u> 54'29	
conjunction	-10925 Dec 24 j 20:57	17° <u>♂</u> 26'23	-0°26'18		-10918 Mar 19 j 04:36	15° <u>♂</u>	
minimum elong	-10925 Dec 24 j 20:57	17° <u>♂</u> 26'23	0°26'26	retrograde	-10918 May 09 j 20:52	16° <u>♂</u> 04'45	
max. Earth dist.	-10925 Dec 25 j 08:24	17° <u>♂</u> 28'00	20.94983 AU		-10918 Jul 01 j 13:35	15° <u>♂</u>	
morning rise	-10924 Jan 10 j 12:17	18° <u>♂</u> 22'35		opposition	-10918 Jul 24 j 15:08	14° <u>♂</u> 04'04	-0°58'23
retrograde	-10924 Apr 14 j 04:23	21° <u>♂</u> 30'05		min. Earth dist.	-10918 Jul 24 j 18:54	14° <u>♂</u> 03'41	18.59165 AU
opposition	-10924 Jun 30 j 00:30	19° <u>♂</u> 29'49	-0°31'38	direct	-10918 Oct 07 j 06:15	12° <u>♂</u> 04'30	
min. Earth dist.	-10924 Jun 29 j 15:02	19° <u>♂</u> 30'48	18.92721 AU		-10917 Jan 03 j 19:50	15° <u>♂</u>	
direct	-10924 Sep 12 j 13:58	17° <u>♂</u> 32'10		evening set	-10917 Jan 06 j 21:32	15° <u>♂</u> 10'20	
evening set	-10924 Dec 11 j 18:39	20° <u>♂</u> 31'51					
				conjunction	-10917 Jan 23 j 14:58	16° <u>♂</u> 07'52	-0°54'19
conjunction	-10924 Dec 28 j 07:23	21° <u>♂</u> 27'47	-0°30'48	minimum elong	-10917 Jan 23 j 14:57	16° <u>♂</u> 07'52	0°54'43
minimum elong	-10924 Dec 28 j 07:23	21° <u>♂</u> 27'47	0°30'58	max. Earth dist.	-10917 Jan 23 j 09:39	16° <u>♂</u> 07'06	20.55783 AU
max. Earth dist.	-10924 Dec 28 j 17:53	21° <u>♂</u> 29'16	20.90369 AU	morning rise	-10917 Feb 09 j 09:56	17° <u>♂</u> 05'41	
morning rise	-10923 Jan 13 j 23:17	22° <u>♂</u> 24'10		retrograde	-10917 May 14 j 10:27	20° <u>♂</u> 16'28	
retrograde	-10923 Apr 18 j 13:45	25° <u>♂</u> 32'01		opposition	-10917 Jul 28 j 23:24	18° <u>♂</u> 15'41	-1°02'00
opposition	-10923 Jul 04 j 05:49	23° <u>♂</u> 31'42	-0°36'33	min. Earth dist.	-10917 Jul 29 j 04:50	18° <u>♂</u> 15'07	18.52330 AU
min. Earth dist.	-10923 Jul 03 j 21:44	23° <u>♂</u> 32'32	18.87950 AU	direct	-10917 Oct 11 j 16:29	16° <u>♂</u> 15'42	
direct	-10923 Sep 16 j 19:32	21° <u>♂</u> 33'46		evening set	-10916 Jan 11 j 13:20	19° <u>♂</u> 22'44	
evening set	-10923 Dec 16 j 04:47	24° <u>♂</u> 34'17					
				conjunction	-10916 Jan 28 j 07:08	20° <u>♂</u> 20'33	-0°57'26
conjunction	-10922 Jan 01 j 18:17	25° <u>♂</u> 30'27	-0°35'11	minimum elong	-10916 Jan 28 j 07:08	20° <u>♂</u> 20'33	0°57'51
minimum elong	-10922 Jan 01 j 18:17	25° <u>♂</u> 30'27	0°35'24	max. Earth dist.	-10916 Jan 27 j 21:51	20° <u>♂</u> 19'13	20.48788 AU
max. Earth dist.	-10922 Jan 02 j 01:25	25° <u>♂</u> 31'27	20.85454 AU	morning rise	-10916 Feb 14 j 02:29	21° <u>♂</u> 18'37	
morning rise	-10922 Jan 18 j 11:04	26° <u>♂</u> 27'04		retrograde	-10916 May 17 j 22:58	24° <u>♂</u> 29'58	
retrograde	-10922 Apr 22 j 23:19	29° <u>♂</u> 35'20		opposition	-10916 Aug 01 j 08:19	22° <u>♂</u> 29'02	-1°05'18
opposition	-10922 Jul 08 j 11:36	27° <u>♂</u> 34'56	-0°41'20	min. Earth dist.	-10916 Aug 01 j 16:48	22° <u>♂</u> 28'08	18.45203 AU
min. Earth dist.	-10922 Jul 08 j 06:04	27° <u>♂</u> 35'31	18.82880 AU	direct	-10916 Oct 15 j 01:52	20° <u>♂</u> 28'36	
direct	-10922 Sep 21 j 00:49	25° <u>♂</u> 36'43		evening set	-10915 Jan 15 j 05:48	23° <u>♂</u> 36'53	
evening set	-10922 Dec 20 j 15:52	28° <u>♂</u> 38'10					
				conjunction	-10915 Feb 01 j 00:17	24° <u>♂</u> 35'00	-1°00'14
conjunction	-10921 Jan 06 j 06:24	29° <u>♂</u> 34'35	-0°39'24	minimum elong	-10915 Feb 01 j 00:17	24° <u>♂</u> 35'00	1°00'43
minimum elong	-10921 Jan 06 j 06:23	29° <u>♂</u> 34'35	0°39'39	max. Earth dist.	-10915 Jan 31 j 13:22	24° <u>♂</u> 33'25	20.41538 AU
max. Earth dist.	-10921 Jan 06 j 12:16	29° <u>♂</u> 35'25	20.80221 AU	morning rise	-10915 Feb 17 j 19:41	25° <u>♂</u> 33'19	
	-10921 Jan 13 j 16:34	0° <u>♂</u>		retrograde	-10915 May 22 j 13:47	28° <u>♂</u> 45'14	
morning rise	-10921 Jan 22 j 23:37	0° <u>♂</u> 31'26		opposition	-10915 Aug 05 j 17:41	26° <u>♂</u> 44'09	-1°08'16
retrograde	-10921 Apr 27 j 10:19	3° <u>♂</u> 40'08		min. Earth dist.	-10915 Aug 06 j 03:33	26° <u>♂</u> 43'06	18.37851 AU
opposition	-10921 Jul 12 j 17:35	1° <u>♂</u> 39'41	-0°45'55	direct	-10915 Oct 19 j 13:34	24° <u>♂</u> 43'14	
min. Earth dist.	-10921 Jul 12 j 13:43	1° <u>♂</u> 40'06	18.77477 AU	evening set	-10914 Jan 19 j 23:17	27° <u>♂</u> 52'49	
	-10921 Aug 29 j 03:06	30° <u>♂</u>					
direct	-10921 Sep 25 j 07:44	29° <u>♂</u> 41'11		conjunction	-10914 Feb 05 j 18:05	28° <u>♂</u> 51'14	-1°02'44
	-10921 Oct 22 j 05:35	0° <u>♂</u>		minimum elong	-10914 Feb 05 j 18:04	28° <u>♂</u> 51'14	1°03'13
evening set	-10921 Dec 25 j 04:01	2° <u>♂</u> 43'38		max. Earth dist.	-10914 Feb 05 j 03:36	28° <u>♂</u> 49'07	20.34103 AU
				morning rise	-10914 Feb 22 j 13:43	29° <u>♂</u> 49'48	
conjunction	-10920 Jan 10 j 19:10	3° <u>♂</u> 40'19	-0°43'27		-10914 Feb 25 j 13:33	0° <u>♂</u>	
minimum elong	-10920 Jan 10 j 19:10	3° <u>♂</u> 40'19	0°43'46	retrograde	-10914 May 27 j 03:25	3° <u>♂</u> 02'18	

Attention, astronomical year style is used: The year -10914 in astronomical counting style is the year 10915 BCE in historical counting style.

opposition	-10914 Aug 10 j 03:52	1°♄01'03	-1°10'53	conjunction	-10907 Mar 09 j 22:18	29°♄40'14	-1°09'59
min. Earth dist.	-10914 Aug 10 j 16:41	0°♄59'41	18.30365 AU	minimum elong	-10907 Mar 09 j 22:18	29°♄40'14	1°10'35
	-10914 Sep 04 j 03:51	30°♄		max. Earth dist.	-10907 Mar 08 j 18:13	29°♄36'00	19.82921 AU
direct	-10914 Oct 24 j 00:08	28°♄59'39			-10907 Mar 15 j 09:11	0°♄	
	-10914 Dec 11 j 23:16	0°♄		morning rise	-10907 Mar 26 j 16:12	0°♄40'28	
evening set	-10913 Jan 24 j 17:36	2°♄10'34		retrograde	-10907 Jun 27 j 07:10	3°♄57'26	
				opposition	-10907 Sep 09 j 00:47	1°♄55'38	-1°17'38
conjunction	-10913 Feb 10 j 12:54	3°♄09'17	-1°04'54	min. Earth dist.	-10907 Sep 10 j 00:19	1°♄53'04	17.79604 AU
minimum elong	-10913 Feb 10 j 12:54	3°♄09'17	1°05'25		-10907 Nov 05 j 07:39	30°♄	
max. Earth dist.	-10913 Feb 09 j 20:57	3°♄06'57	20.26570 AU	direct	-10907 Nov 23 j 10:01	29°♄51'23	
morning rise	-10913 Feb 27 j 08:27	4°♄08'06			-10907 Dec 11 j 10:58	0°♄	
retrograde	-10913 May 31 j 20:06	7°♄21'11		evening set	-10906 Feb 26 j 03:30	3°♄12'23	
opposition	-10913 Aug 14 j 14:32	5°♄19'48	-1°13'08				
min. Earth dist.	-10913 Aug 15 j 04:25	5°♄18'19	18.22811 AU	conjunction	-10906 Mar 14 j 22:56	4°♄13'04	-1°09'22
direct	-10913 Oct 28 j 13:40	3°♄17'55		minimum elong	-10906 Mar 14 j 22:56	4°♄13'04	1°09'58
evening set	-10912 Jan 29 j 12:57	6°♄30'14		max. Earth dist.	-10906 Mar 13 j 17:14	4°♄08'34	19.76213 AU
				morning rise	-10906 Mar 31 j 16:10	5°♄13'30	
conjunction	-10912 Feb 15 j 08:23	7°♄29'14	-1°06'43	retrograde	-10906 Jul 02 j 02:01	8°♄31'06	
minimum elong	-10912 Feb 15 j 08:22	7°♄29'14	1°07'15	opposition	-10906 Sep 13 j 17:56	6°♄29'17	-1°16'43
max. Earth dist.	-10912 Feb 14 j 13:21	7°♄26'26	20.19008 AU	min. Earth dist.	-10906 Sep 14 j 19:55	6°♄26'28	17.72989 AU
morning rise	-10912 Mar 03 j 03:54	8°♄28'19		direct	-10906 Nov 28 j 04:33	4°♄24'42	
retrograde	-10912 Jun 04 j 10:44	11°♄42'01		evening set	-10905 Mar 03 j 05:12	7°♄47'07	
opposition	-10912 Aug 18 j 02:13	9°♄40'29	-1°14'59	max. Earth dist.	-10905 Mar 18 j 16:29	8°♄43'12	19.69682 AU
min. Earth dist.	-10912 Aug 18 j 18:47	9°♄38'43	18.15281 AU				
direct	-10912 Nov 01 j 01:21	7°♄38'08		conjunction	-10905 Mar 20 j 00:12	8°♄48'02	-1°08'18
evening set	-10911 Feb 02 j 08:50	10°♄51'51		minimum elong	-10905 Mar 20 j 00:12	8°♄48'02	1°08'54
max. Earth dist.	-10911 Feb 18 j 08:16	11°♄48'09	20.11508 AU	morning rise	-10905 Apr 05 j 16:53	9°♄48'39	
				retrograde	-10905 Jul 06 j 23:51	13°♄06'53	
conjunction	-10911 Feb 19 j 04:35	11°♄51'10	-1°08'10	opposition	-10905 Sep 18 j 11:53	11°♄05'02	-1°15'19
minimum elong	-10911 Feb 19 j 04:35	11°♄51'10	1°08'43	min. Earth dist.	-10905 Sep 19 j 14:22	11°♄02'09	17.66549 AU
morning rise	-10911 Mar 07 j 23:55	12°♄50'28		direct	-10905 Dec 03 j 02:10	9°♄00'06	
retrograde	-10911 Jun 09 j 05:16	16°♄04'49		evening set	-10904 Mar 07 j 07:35	12°♄23'52	
opposition	-10911 Aug 22 j 14:32	14°♄03'11	-1°16'25	max. Earth dist.	-10904 Mar 22 j 17:36	13°♄20'01	19.63324 AU
min. Earth dist.	-10911 Aug 23 j 07:49	14°♄01'19	18.07829 AU				
direct	-10911 Nov 05 j 16:32	12°♄00'24		conjunction	-10904 Mar 24 j 02:16	13°♄25'01	-1°06'47
evening set	-10910 Feb 07 j 05:57	15°♄15'33		minimum elong	-10904 Mar 24 j 02:16	13°♄25'01	1°07'22
max. Earth dist.	-10910 Feb 23 j 02:49	16°♄11'44	20.04107 AU	morning rise	-10904 Apr 09 j 18:03	14°♄25'47	
				retrograde	-10904 Jul 10 j 20:21	17°♄44'35	
conjunction	-10910 Feb 24 j 01:45	16°♄15'09	-1°09'14	opposition	-10904 Sep 22 j 06:59	15°♄42'42	-1°13'24
minimum elong	-10910 Feb 24 j 01:44	16°♄15'09	1°09'49	min. Earth dist.	-10904 Sep 23 j 11:31	15°♄39'35	17.60301 AU
morning rise	-10910 Mar 12 j 20:51	17°♄14'42		direct	-10904 Dec 06 j 23:19	13°♄37'26	
retrograde	-10910 Jun 13 j 21:09	20°♄29'41		evening set	-10903 Mar 12 j 10:33	17°♄02'29	
opposition	-10910 Aug 27 j 03:43	18°♄27'59	-1°17'25	max. Earth dist.	-10903 Mar 27 j 17:55	17°♄58'29	19.57194 AU
min. Earth dist.	-10910 Aug 27 j 23:37	18°♄25'50	18.00511 AU				
direct	-10910 Nov 10 j 06:08	16°♄24'47		conjunction	-10903 Mar 29 j 04:37	18°♄03'49	-1°04'49
evening set	-10909 Feb 12 j 03:58	19°♄41'24		minimum elong	-10903 Mar 29 j 04:37	18°♄03'49	1°05'25
				morning rise	-10903 Apr 14 j 19:48	19°♄04'45	
conjunction	-10909 Feb 28 j 23:51	20°♄41'17	-1°09'54	retrograde	-10903 Jul 15 j 19:01	22°♄24'06	
minimum elong	-10909 Feb 28 j 23:51	20°♄41'17	1°10'29	opposition	-10903 Sep 27 j 02:48	20°♄22'08	-1°11'00
max. Earth dist.	-10909 Feb 27 j 23:27	20°♄37'38	19.96869 AU	min. Earth dist.	-10903 Sep 28 j 07:39	20°♄18'59	17.54296 AU
morning rise	-10909 Mar 17 j 18:38	21°♄41'04		direct	-10903 Dec 11 j 22:55	18°♄16'30	
retrograde	-10909 Jun 18 j 16:56	24°♄56'43		evening set	-10902 Mar 17 j 14:08	21°♄42'47	
opposition	-10909 Aug 31 j 17:48	22°♄54'57	-1°17'57	max. Earth dist.	-10902 Apr 01 j 20:54	22°♄38'55	19.51321 AU
min. Earth dist.	-10909 Sep 01 j 14:16	22°♄52'44	17.93357 AU				
direct	-10909 Nov 14 j 23:02	20°♄51'24		conjunction	-10902 Apr 03 j 07:46	22°♄44'18	-1°02'25
evening set	-10908 Feb 17 j 02:51	24°♄09'28		minimum elong	-10902 Apr 03 j 07:46	22°♄44'18	1°02'59
				morning rise	-10902 Apr 19 j 21:54	23°♄45'22	
conjunction	-10908 Mar 04 j 22:37	25°♄09'38	-1°10'09	retrograde	-10902 Jul 20 j 16:50	27°♄05'12	
minimum elong	-10908 Mar 04 j 22:37	25°♄09'38	1°10'46	opposition	-10902 Oct 01 j 23:33	25°♄03'11	-1°08'07
max. Earth dist.	-10908 Mar 03 j 20:12	25°♄05'40	19.89795 AU	min. Earth dist.	-10902 Oct 03 j 05:55	24°♄59'52	17.48580 AU
morning rise	-10908 Mar 21 j 16:56	26°♄09'39		direct	-10902 Dec 16 j 22:00	22°♄57'13	
retrograde	-10908 Jun 22 j 10:17	29°♄25'57		evening set	-10901 Mar 22 j 18:19	26°♄24'38	
opposition	-10908 Sep 04 j 08:56	27°♄24'10	-1°18'02	max. Earth dist.	-10901 Apr 06 j 22:30	27°♄20'37	19.45792 AU
min. Earth dist.	-10908 Sep 05 j 07:53	27°♄21'41	17.86387 AU				
direct	-10908 Nov 18 j 14:54	25°♄20'15		conjunction	-10901 Apr 08 j 11:05	27°♄26'17	-0°59'35
evening set	-10907 Feb 21 j 02:41	28°♄39'48		minimum elong	-10901 Apr 08 j 11:06	27°♄26'17	1°00'08
				morning rise	-10901 Apr 25 j 00:28	28°♄27'28	

	-10901 May 22 j 07:48	0°	
retrograde	-10901 Jul 25 j 16:29	1°	47'47
	-10901 Oct 01 j 09:45	30°	8'3
opposition	-10901 Oct 06 j 21:08	29°	3'45'40 -1°04'45
min. Earth dist.	-10901 Oct 08 j 03:33	29°	3'42'21 17.43252 AU
direct	-10901 Dec 21 j 23:09	27°	3'39'23
	-10900 Mar 07 j 11:16	0°	
evening set	-10900 Mar 26 j 22:29	1°	07'51
max. Earth dist.	-10900 Apr 11 j 02:56	2°	04'04 19.40673 AU
conjunction	-10900 Apr 12 j 14:40	2°	09'38 -0°56'20
minimum elong	-10900 Apr 12 j 14:40	2°	09'38 0°56'53
morning rise	-10900 Apr 29 j 02:53	3°	10'55
retrograde	-10900 Jul 29 j 15:32	6°	31'39
opposition	-10900 Oct 10 j 19:37	4°	29'28 -1°00'57
min. Earth dist.	-10900 Oct 12 j 02:40	4°	26'04 17.38363 AU
direct	-10900 Dec 25 j 23:43	2°	22'54
evening set	-10899 Apr 01 j 03:13	5°	52'19
max. Earth dist.	-10899 Apr 16 j 05:31	6°	48'27 19.36042 AU
conjunction	-10899 Apr 17 j 18:23	6°	54'13 -0°52'43
minimum elong	-10899 Apr 17 j 18:23	6°	54'13 0°53'13
morning rise	-10899 May 04 j 05:44	7°	55'34
retrograde	-10899 Aug 03 j 15:53	11°	16'42
opposition	-10899 Oct 15 j 18:38	9°	14'27 -0°56'42
min. Earth dist.	-10899 Oct 17 j 01:35	9°	11'04 17.34006 AU
direct	-10899 Dec 31 j 01:44	7°	07'38