

Planetary Phenomena of Saturn from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

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

retrograde	-3400 Mar 21 j 17:57	14° \mathbb{M} 49'58		minimum elong	-3394 Feb 06 j 01:29	21° \mathfrak{Z} 13'13	1°40'45
opposition	-3400 May 31 j 17:09	11° \mathbb{M} 29'29	1°14'08	max. Earth dist.	-3394 Feb 05 j 23:41	21° \mathfrak{Z} 12'38	10.12468 AU
min. Earth dist.	-3400 Jun 01 j 06:19	11° \mathbb{M} 27'02	8.90633 AU	morning rise	-3394 Feb 23 j 16:29	23° \mathfrak{Z} 29'44	
direct	-3400 Aug 09 j 12:43	8° \mathbb{M} 11'03			-3394 Apr 25 j 12:25	0° \approx	
	-3400 Nov 14 j 19:55	15° \mathbb{M}		retrograde	-3394 Jun 11 j 11:33	1° \approx 52'33	
evening set	-3400 Nov 17 j 04:42	15° \mathbb{M} 16'42			-3394 Jul 29 j 05:20	30° \mathfrak{R} \mathfrak{Z}	
				opposition	-3394 Aug 19 j 03:04	28° \mathfrak{Z} 22'04	-2°20'10
conjunction	-3400 Dec 03 j 20:37	17° \mathbb{M} 16'30	0°47'03	min. Earth dist.	-3394 Aug 19 j 02:26	28° \mathfrak{Z} 22'11	8.06592 AU
minimum elong	-3400 Dec 03 j 20:39	17° \mathbb{M} 16'31	0°46'58	direct	-3394 Oct 24 j 11:00	24° \mathfrak{Z} 56'35	
max. Earth dist.	-3400 Dec 03 j 05:27	17° \mathbb{M} 11'56	10.84280 AU		-3393 Jan 09 j 21:32	0° \approx	
morning rise	-3400 Dec 20 j 15:22	19° \mathbb{M} 17'16		evening set	-3393 Feb 03 j 03:18	2° \approx 58'38	
retrograde	-3399 Apr 03 j 13:00	26° \mathbb{M} 41'37					
opposition	-3399 Jun 13 j 07:43	23° \mathbb{M} 19'31	0°39'49	conjunction	-3393 Feb 20 j 16:57	5° \approx 16'16	-2°01'57
min. Earth dist.	-3399 Jun 13 j 20:02	23° \mathbb{M} 17'12	8.77428 AU	minimum elong	-3393 Feb 20 j 16:54	5° \approx 16'15	2°02'04
direct	-3399 Aug 21 j 11:27	20° \mathbb{M} 00'23		max. Earth dist.	-3393 Feb 20 j 18:46	5° \approx 16'52	10.01186 AU
evening set	-3399 Nov 29 j 03:08	27° \mathbb{M} 12'44		morning rise	-3393 Mar 10 j 11:31	7° \approx 35'30	
					-3393 May 22 j 00:32	15° \approx	
conjunction	-3399 Dec 15 j 22:05	29° \mathbb{M} 15'12	0°17'47	retrograde	-3393 Jun 26 j 12:23	16° \approx 06'44	
minimum elong	-3399 Dec 15 j 22:06	29° \mathbb{M} 15'12	0°17'42		-3393 Aug 01 j 05:06	15° \mathfrak{R} \approx	
max. Earth dist.	-3399 Dec 15 j 07:15	29° \mathbb{M} 10'40	10.70409 AU	opposition	-3393 Sep 02 j 13:44	12° \approx 35'17	-2°42'55
	-3399 Dec 22 j 00:32	0° \mathfrak{Z}		min. Earth dist.	-3393 Sep 02 j 10:13	12° \approx 36'01	7.96698 AU
morning rise	-3398 Jan 01 j 20:53	1° \mathfrak{Z} 18'54		direct	-3393 Nov 07 j 13:17	9° \approx 08'24	
retrograde	-3398 Apr 16 j 16:29	8° \mathfrak{Z} 54'28			-3392 Jan 30 j 12:46	15° \approx	
opposition	-3398 Jun 26 j 05:42	5° \mathfrak{Z} 30'34	0°02'37	evening set	-3392 Feb 18 j 02:33	17° \approx 20'03	
min. Earth dist.	-3398 Jun 26 j 17:01	5° \mathfrak{Z} 28'25	8.62962 AU				
desc. node	-3398 Jul 22 j 01:44	3° \mathfrak{Z} 38'54		conjunction	-3392 Mar 06 j 19:57	19° \approx 40'04	-2°16'14
direct	-3398 Sep 02 j 18:36	2° \mathfrak{Z} 10'27		minimum elong	-3392 Mar 06 j 19:55	19° \approx 40'04	2°16'19
evening set	-3398 Dec 11 j 11:35	9° \mathfrak{Z} 30'59		max. Earth dist.	-3392 Mar 07 j 01:33	19° \approx 41'56	9.92701 AU
				morning rise	-3392 Mar 24 j 17:45	22° \approx 01'30	
conjunction	-3398 Dec 28 j 10:02	11° \mathfrak{Z} 36'25	-0°13'10		-3392 Jun 14 j 07:38	0° \mathfrak{H}	
minimum elong	-3398 Dec 28 j 10:01	11° \mathfrak{Z} 36'24	0°13'16	retrograde	-3392 Jul 10 j 16:51	0° \mathfrak{H} 37'55	
behind sun begin	-3398 Dec 28 j 05:51	11° \mathfrak{Z} 35'07			-3392 Aug 06 j 01:44	30° \mathfrak{R} \approx	
behind sun end	-3398 Dec 28 j 14:12	11° \mathfrak{Z} 37'41		opposition	-3392 Sep 16 j 04:48	27° \approx 05'58	-2°55'50
max. Earth dist.	-3398 Dec 27 j 21:10	11° \mathfrak{Z} 32'25	10.55575 AU	min. Earth dist.	-3392 Sep 15 j 22:39	27° \approx 07'15	7.89894 AU
morning rise	-3397 Jan 14 j 13:03	13° \mathfrak{Z} 43'17		direct	-3392 Nov 21 j 00:16	23° \approx 37'49	
retrograde	-3397 Apr 30 j 06:33	21° \mathfrak{Z} 30'56			-3391 Feb 17 j 02:33	0° \mathfrak{H}	
opposition	-3397 Jul 09 j 11:25	18° \mathfrak{Z} 05'12	-0°36'00	evening set	-3391 Mar 04 j 10:40	1° \mathfrak{H} 57'02	
min. Earth dist.	-3397 Jul 09 j 20:51	18° \mathfrak{Z} 03'22	8.47900 AU				
direct	-3397 Sep 15 j 09:54	14° \mathfrak{Z} 43'54		conjunction	-3391 Mar 22 j 07:39	4° \mathfrak{H} 18'51	-2°22'02
evening set	-3397 Dec 24 j 07:56	22° \mathfrak{Z} 13'54		minimum elong	-3391 Mar 22 j 07:39	4° \mathfrak{H} 18'51	2°22'06
				max. Earth dist.	-3391 Mar 22 j 17:05	4° \mathfrak{H} 22'00	9.87594 AU
conjunction	-3396 Jan 10 j 10:10	24° \mathfrak{Z} 22'28	-0°44'18	morning rise	-3391 Apr 09 j 08:10	6° \mathfrak{H} 41'46	
minimum elong	-3396 Jan 10 j 10:08	24° \mathfrak{Z} 22'28	0°44'25	retrograde	-3391 Jul 25 j 21:15	15° \mathfrak{H} 19'27	
max. Earth dist.	-3396 Jan 10 j 00:35	24° \mathfrak{Z} 19'27	10.40462 AU	opposition	-3391 Sep 30 j 21:55	11° \mathfrak{H} 47'29	-2°57'26
morning rise	-3396 Jan 27 j 17:19	26° \mathfrak{Z} 32'39		min. Earth dist.	-3391 Sep 30 j 13:18	11° \mathfrak{H} 49'17	7.86655 AU
	-3396 Feb 26 j 10:45	0° \mathfrak{Z}		direct	-3391 Dec 05 j 18:56	8° \mathfrak{H} 18'18	
retrograde	-3396 May 13 j 07:15	4° \mathfrak{Z} 32'40		evening set	-3390 Mar 20 j 00:33	16° \mathfrak{H} 42'19	
opposition	-3396 Jul 22 j 00:51	1° \mathfrak{Z} 05'09	-1°14'12				
min. Earth dist.	-3396 Jul 22 j 07:20	1° \mathfrak{Z} 03'52	8.32965 AU	conjunction	-3390 Apr 07 j 00:48	19° \mathfrak{H} 05'12	-2°18'37
	-3396 Aug 05 j 01:08	30° \mathfrak{R} \mathfrak{Z}		minimum elong	-3390 Apr 07 j 00:50	19° \mathfrak{H} 05'13	2°18'40
direct	-3396 Sep 27 j 08:41	27° \mathfrak{Z} 42'31		max. Earth dist.	-3390 Apr 07 j 13:39	19° \mathfrak{H} 09'29	9.86246 AU
	-3396 Nov 17 j 09:48	0° \mathfrak{Z}		morning rise	-3390 Apr 25 j 03:24	21° \mathfrak{H} 28'48	
evening set	-3395 Jan 05 j 17:09	5° \mathfrak{Z} 23'00			-3390 Aug 02 j 00:17	0° \mathfrak{Y}	
				retrograde	-3390 Aug 09 j 21:40	0° \mathfrak{Y} 03'31	
conjunction	-3395 Jan 22 j 23:14	7° \mathfrak{Z} 34'44	-1°14'05		-3390 Aug 17 j 18:39	30° \mathfrak{R} \mathfrak{H}	
minimum elong	-3395 Jan 22 j 23:11	7° \mathfrak{Z} 34'43	1°14'12	opposition	-3390 Oct 15 j 14:30	26° \mathfrak{H} 32'01	-2°47'20
max. Earth dist.	-3395 Jan 22 j 17:30	7° \mathfrak{Z} 32'54	10.25826 AU	min. Earth dist.	-3390 Oct 15 j 03:44	26° \mathfrak{H} 34'17	7.87221 AU
morning rise	-3395 Feb 09 j 10:21	9° \mathfrak{Z} 48'10		direct	-3390 Dec 20 j 17:14	23° \mathfrak{H} 02'07	
retrograde	-3395 May 27 j 17:05	18° \mathfrak{Z} 00'13			-3389 Mar 24 j 05:22	0° \mathfrak{Y}	
opposition	-3395 Aug 04 j 22:18	14° \mathfrak{Z} 31'05	-1°49'45	evening set	-3389 Apr 04 j 16:16	1° \mathfrak{Y} 27'43	
min. Earth dist.	-3395 Aug 05 j 01:12	14° \mathfrak{Z} 30'30	8.18931 AU				
direct	-3395 Oct 10 j 17:23	11° \mathfrak{Z} 07'03		conjunction	-3389 Apr 22 j 19:07	3° \mathfrak{Y} 50'49	-2°06'09
evening set	-3394 Jan 19 j 15:39	18° \mathfrak{Z} 58'25		minimum elong	-3389 Apr 22 j 19:10	3° \mathfrak{Y} 50'51	2°06'10
				max. Earth dist.	-3389 Apr 23 j 10:42	3° \mathfrak{Y} 55'59	9.88760 AU
conjunction	-3394 Feb 06 j 01:32	21° \mathfrak{Z} 13'14	-1°40'37	morning rise	-3389 May 10 j 22:51	6° \mathfrak{Y} 14'10	

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Attention, astronomical year style is used: The year -3389 in astronomical counting style is the year 3390 BCE in historical counting style.

retrograde	-3389 Aug 24 j 16:20	14° Υ 42'02		retrograde	-3383 Nov 11 j 02:35	5° \ominus 35'08	
opposition	-3389 Oct 30 j 04:19	11° Υ 11'30	-2°26'20	opposition	-3382 Jan 17 j 17:43	2° \ominus 15'03	1°16'43
min. Earth dist.	-3389 Oct 29 j 15:40	11° Υ 14'09	7.91555 AU	min. Earth dist.	-3382 Jan 17 j 10:49	2° \ominus 16'24	8.67754 AU
direct	-3388 Jan 04 j 16:23	7° Υ 41'14			-3382 Feb 18 j 11:15	30° \mathbb{R} II	
evening set	-3388 Apr 19 j 05:43	16° Υ 05'06		direct	-3382 Mar 29 j 00:17	28° \mathbb{I} 49'15	
					-3382 May 06 j 05:19	0° \ominus	
conjunction	-3388 May 07 j 10:03	18° Υ 27'30	-1°45'41	evening set	-3382 Jul 12 j 13:24	6° \ominus 23'35	
minimum elong	-3388 May 07 j 10:07	18° Υ 27'31	1°45'39				
max. Earth dist.	-3388 May 08 j 03:35	18° Υ 33'15	9.94954 AU	conjunction	-3382 Jul 29 j 23:06	8° \ominus 28'41	1°16'04
morning rise	-3388 May 25 j 13:43	20° Υ 49'38		minimum elong	-3382 Jul 29 j 23:03	8° \ominus 28'40	1°16'11
retrograde	-3388 Sep 07 j 03:08	29° Υ 07'33		max. Earth dist.	-3382 Jul 30 j 05:10	8° \ominus 30'30	10.74975 AU
opposition	-3388 Nov 12 j 13:11	25° Υ 38'23	-1°56'17	morning rise	-3382 Aug 16 j 03:30	10° \ominus 32'12	
min. Earth dist.	-3388 Nov 11 j 23:28	25° Υ 41'15	7.99363 AU	retrograde	-3382 Nov 23 j 03:38	17° \ominus 39'38	
direct	-3387 Jan 18 j 13:08	22° Υ 08'09		opposition	-3381 Jan 30 j 05:20	14° \ominus 21'02	1°48'10
	-3387 Apr 30 j 23:11	0° \mathbb{B}		min. Earth dist.	-3381 Jan 30 j 01:05	14° \ominus 21'51	8.81801 AU
evening set	-3387 May 04 j 13:23	0° \mathbb{B} 27'18		direct	-3381 Apr 11 j 00:46	10° \ominus 56'31	
				evening set	-3381 Jul 25 j 02:18	18° \ominus 21'56	
conjunction	-3387 May 22 j 17:50	2° \mathbb{B} 48'07	-1°18'55				
minimum elong	-3387 May 22 j 17:53	2° \mathbb{B} 48'08	1°18'52	conjunction	-3381 Aug 11 j 06:38	20° \ominus 23'52	1°39'43
max. Earth dist.	-3387 May 23 j 12:03	2° \mathbb{B} 54'02	10.04401 AU	minimum elong	-3381 Aug 11 j 06:34	20° \ominus 23'51	1°39'50
morning rise	-3387 Jun 09 j 20:09	5° \mathbb{B} 08'12		max. Earth dist.	-3381 Aug 11 j 09:29	20° \ominus 24'43	10.88243 AU
retrograde	-3387 Sep 21 j 05:28	13° \mathbb{B} 14'06		morning rise	-3381 Aug 28 j 05:42	22° \ominus 24'18	
opposition	-3387 Nov 26 j 15:25	9° \mathbb{B} 46'36	-1°19'48	retrograde	-3381 Dec 04 j 23:25	29° \ominus 24'16	
min. Earth dist.	-3387 Nov 26 j 01:48	9° \mathbb{B} 49'25	8.10130 AU	opposition	-3380 Feb 11 j 11:13	26° \ominus 06'55	2°14'06
direct	-3386 Feb 02 j 05:11	6° \mathbb{B} 16'44		min. Earth dist.	-3380 Feb 11 j 10:37	26° \ominus 07'01	8.94270 AU
evening set	-3386 May 19 j 12:25	14° \mathbb{B} 28'51		direct	-3380 Apr 22 j 15:48	22° \ominus 43'41	
	-3386 May 23 j 15:16	15° \mathbb{B}		evening set	-3380 Aug 05 j 05:06	0° \mathbb{Q} 01'10	
					-3380 Aug 05 j 01:03	0° \mathbb{Q}	
conjunction	-3386 Jun 06 j 15:27	16° \mathbb{B} 47'16	-0°48'02				
minimum elong	-3386 Jun 06 j 15:29	16° \mathbb{B} 47'17	0°47'57	conjunction	-3380 Aug 22 j 04:16	2° \mathbb{Q} 00'22	1°58'40
max. Earth dist.	-3386 Jun 07 j 08:56	16° \mathbb{B} 52'52	10.16462 AU	minimum elong	-3380 Aug 22 j 04:13	2° \mathbb{Q} 00'21	1°58'46
morning rise	-3386 Jun 24 j 15:07	19° \mathbb{B} 04'36		max. Earth dist.	-3380 Aug 22 j 02:49	1° \mathbb{Q} 59'57	10.99661 AU
retrograde	-3386 Oct 04 j 20:50	26° \mathbb{B} 57'29		morning rise	-3380 Sep 07 j 22:43	3° \mathbb{Q} 58'13	
opposition	-3386 Dec 10 j 10:07	23° \mathbb{B} 31'53	-0°39'44	retrograde	-3380 Dec 15 j 12:08	10° \mathbb{Q} 52'34	
min. Earth dist.	-3386 Dec 09 j 21:44	23° \mathbb{B} 34'24	8.23152 AU	opposition	-3379 Feb 22 j 12:16	7° \mathbb{Q} 36'10	2°33'59
direct	-3385 Feb 16 j 16:25	20° \mathbb{B} 02'43		min. Earth dist.	-3379 Feb 22 j 15:02	7° \mathbb{Q} 35'39	9.04683 AU
evening set	-3385 Jun 03 j 00:50	28° \mathbb{B} 06'10		direct	-3379 May 04 j 23:37	4° \mathbb{Q} 14'08	
	-3385 Jun 18 j 04:30	0° \mathbb{I}		evening set	-3379 Aug 16 j 23:30	11° \mathbb{Q} 24'54	
conjunction	-3385 Jun 21 j 00:53	0° \mathbb{I} 21'35	-0°15'15	conjunction	-3379 Sep 02 j 18:07	13° \mathbb{Q} 21'50	2°12'32
minimum elong	-3385 Jun 21 j 00:53	0° \mathbb{I} 21'35	0°15'08	minimum elong	-3379 Sep 02 j 18:04	13° \mathbb{Q} 21'50	2°12'36
behind sun begin	-3385 Jun 20 j 22:43	0° \mathbb{I} 20'54		max. Earth dist.	-3379 Sep 02 j 12:42	13° \mathbb{Q} 20'15	11.08864 AU
behind sun end	-3385 Jun 21 j 03:04	0° \mathbb{I} 22'16			-3379 Sep 16 j 19:22	15° \mathbb{Q}	
max. Earth dist.	-3385 Jun 21 j 16:16	0° \mathbb{I} 26'25	10.30360 AU	morning rise	-3379 Sep 19 j 08:42	15° \mathbb{Q} 17'37	
morning rise	-3385 Jul 08 j 20:43	2° \mathbb{I} 35'38		retrograde	-3379 Dec 26 j 23:10	22° \mathbb{Q} 08'11	
retrograde	-3385 Oct 18 j 00:09	10° \mathbb{I} 15'32		opposition	-3378 Mar 06 j 09:34	18° \mathbb{Q} 52'23	2°47'31
asc. node	-3385 Dec 12 j 19:06	7° \mathbb{I} 44'29		min. Earth dist.	-3378 Mar 06 j 14:41	18° \mathbb{Q} 51'26	9.12728 AU
opposition	-3385 Dec 23 j 20:42	6° \mathbb{I} 51'54	0°01'11	direct	-3378 May 17 j 03:23	15° \mathbb{Q} 31'26	
min. Earth dist.	-3385 Dec 23 j 10:11	6° \mathbb{I} 54'00	8.37641 AU	evening set	-3378 Aug 28 j 10:50	22° \mathbb{Q} 36'36	
direct	-3384 Mar 01 j 20:13	3° \mathbb{I} 23'41					
evening set	-3384 Jun 16 j 01:18	11° \mathbb{I} 17'33		conjunction	-3378 Sep 14 j 01:49	24° \mathbb{Q} 31'50	2°21'06
				minimum elong	-3378 Sep 14 j 01:48	24° \mathbb{Q} 31'50	2°21'10
conjunction	-3384 Jul 03 j 21:10	13° \mathbb{I} 29'34	0°17'29	max. Earth dist.	-3378 Sep 13 j 18:07	24° \mathbb{Q} 29'36	11.15600 AU
minimum elong	-3384 Jul 03 j 21:09	13° \mathbb{I} 29'34	0°17'37	morning rise	-3378 Sep 30 j 13:17	26° \mathbb{Q} 26'06	
max. Earth dist.	-3384 Jul 04 j 09:19	13° \mathbb{I} 33'20	10.45283 AU		-3378 Nov 03 j 13:20	0° \mathbb{P}	
morning rise	-3384 Jul 21 j 12:20	15° \mathbb{I} 40'05		retrograde	-3377 Jan 07 j 09:03	3° \mathbb{P} 14'37	
retrograde	-3384 Oct 29 j 17:34	23° \mathbb{I} 07'47			-3377 Mar 17 j 23:34	30° \mathbb{R} Q	
opposition	-3383 Jan 04 j 23:06	19° \mathbb{I} 46'00	0°40'37	opposition	-3377 Mar 18 j 04:45	29° \mathbb{Q} 59'03	2°54'35
min. Earth dist.	-3383 Jan 04 j 14:18	19° \mathbb{I} 47'45	8.52780 AU	min. Earth dist.	-3377 Mar 18 j 11:44	29° \mathbb{Q} 57'46	9.18186 AU
direct	-3383 Mar 15 j 15:03	16° \mathbb{I} 18'57		direct	-3377 May 28 j 23:51	26° \mathbb{Q} 39'03	
evening set	-3383 Jun 29 j 13:18	24° \mathbb{I} 02'55			-3377 Aug 04 j 13:14	0° \mathbb{P}	
				evening set	-3377 Sep 08 j 16:37	3° \mathbb{P} 39'46	
conjunction	-3383 Jul 17 j 04:17	26° \mathbb{I} 11'26	0°48'20				
minimum elong	-3383 Jul 17 j 04:15	26° \mathbb{I} 11'25	0°48'28	conjunction	-3377 Sep 25 j 04:52	5° \mathbb{P} 33'52	2°24'20
max. Earth dist.	-3383 Jul 17 j 13:18	26° \mathbb{I} 14'11	10.60419 AU	minimum elong	-3377 Sep 25 j 04:52	5° \mathbb{P} 33'52	2°24'23
morning rise	-3383 Aug 03 j 14:14	28° \mathbb{I} 18'22		max. Earth dist.	-3377 Sep 24 j 19:16	5° \mathbb{P} 31'04	11.19686 AU
	-3383 Aug 18 j 02:34	0° \ominus		morning rise	-3377 Oct 11 j 14:11	7° \mathbb{P} 27'13	

Planetary Phenomena of Saturn from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 3

Attention, astronomical year style is used: The year -3376 in astronomical counting style is the year 3377 BCE in historical counting style.

retrograde	-3376 Jan 18 j 18:30	14° \mathring{M} 15'21		min. Earth dist.	-3370 Jun 08 j 17:19	18° \mathring{M} 19'58	8.81902 AU
opposition	-3376 Mar 28 j 22:49	10° \mathring{M} 59'42	2°55'12	direct	-3370 Aug 16 j 15:23	15° \mathring{M} 03'05	
min. Earth dist.	-3376 Mar 29 j 08:19	10° \mathring{M} 57'57	9.20916 AU	evening set	-3370 Nov 24 j 06:31	22° \mathring{M} 12'44	
direct	-3376 Jun 08 j 16:35	7° \mathring{M} 40'24		max. Earth dist.	-3370 Dec 10 j 10:26	24° \mathring{M} 09'56	10.75317 AU
evening set	-3376 Sep 18 j 18:48	14° \mathring{M} 38'01					
				conjunction	-3370 Dec 11 j 00:12	24° \mathring{M} 14'07	0°30'54
conjunction	-3376 Oct 05 j 05:07	16° \mathring{M} 31'32	2°22'14	minimum elong	-3370 Dec 11 j 00:13	24° \mathring{M} 14'07	0°30'49
minimum elong	-3376 Oct 05 j 05:08	16° \mathring{M} 31'32	2°22'16	morning rise	-3370 Dec 27 j 21:12	26° \mathring{M} 16'37	
max. Earth dist.	-3376 Oct 04 j 16:44	16° \mathring{M} 27'56	11.21020 AU		-3369 Jan 30 j 14:37	0° \mathring{M}	
morning rise	-3376 Oct 21 j 13:32	18° \mathring{M} 24'33		retrograde	-3369 Apr 11 j 05:35	3° \mathring{M} 47'29	
retrograde	-3375 Jan 29 j 04:02	25° \mathring{M} 13'55		opposition	-3369 Jun 20 j 22:59	0° \mathring{M} 23'57	0°19'13
opposition	-3375 Apr 09 j 16:40	21° \mathring{M} 57'52	2°49'29	min. Earth dist.	-3369 Jun 21 j 09:54	0° \mathring{M} 21'52	8.68294 AU
min. Earth dist.	-3375 Apr 10 j 04:37	21° \mathring{M} 55'41	9.20850 AU		-3369 Jun 26 j 05:17	30° \mathring{M}	
direct	-3375 Jun 20 j 06:36	18° \mathring{M} 39'03		direct	-3369 Aug 28 j 19:53	27° \mathring{M} 03'55	
evening set	-3375 Sep 29 j 18:56	25° \mathring{M} 34'57			-3369 Oct 27 j 11:21	0° \mathring{M}	
				evening set	-3369 Dec 06 j 10:21	4° \mathring{M} 21'01	
conjunction	-3375 Oct 16 j 04:20	27° \mathring{M} 28'27	2°14'56				
minimum elong	-3375 Oct 16 j 04:22	27° \mathring{M} 28'28	2°14'56	conjunction	-3369 Dec 23 j 07:25	6° \mathring{M} 25'13	0°00'34
max. Earth dist.	-3375 Oct 15 j 13:54	27° \mathring{M} 24'16	11.19577 AU	minimum elong	-3369 Dec 23 j 07:25	6° \mathring{M} 25'13	0°00'28
morning rise	-3375 Nov 01 j 12:50	29° \mathring{M} 21'45		behind sun begin	-3369 Dec 23 j 00:22	6° \mathring{M} 23'04	
	-3375 Nov 07 j 04:29	0° \mathring{M}		behind sun end	-3369 Dec 23 j 14:27	6° \mathring{M} 27'22	
retrograde	-3374 Feb 09 j 16:06	6° \mathring{M} 14'03		max. Earth dist.	-3369 Dec 22 j 19:40	6° \mathring{M} 21'36	10.61226 AU
opposition	-3374 Apr 21 j 11:49	2° \mathring{M} 57'16	2°37'35	desc. node	-3369 Dec 29 j 22:19	7° \mathring{M} 14'17	
min. Earth dist.	-3374 Apr 22 j 00:43	2° \mathring{M} 54'54	9.17997 AU	morning rise	-3368 Jan 09 j 08:27	8° \mathring{M} 30'46	
	-3374 Jun 10 j 14:34	30° \mathring{M}		retrograde	-3368 Apr 23 j 16:42	16° \mathring{M} 13'18	
direct	-3374 Jul 01 j 20:28	29° \mathring{M} 38'46		opposition	-3368 Jul 03 j 01:12	12° \mathring{M} 48'06	-0°19'00
	-3374 Jul 22 j 20:21	0° \mathring{M}		min. Earth dist.	-3368 Jul 03 j 09:43	12° \mathring{M} 46'27	8.53828 AU
evening set	-3374 Oct 10 j 18:40	6° \mathring{M} 34'20		direct	-3368 Sep 09 j 06:23	9° \mathring{M} 27'11	
				evening set	-3368 Dec 18 j 01:31	16° \mathring{M} 53'08	
conjunction	-3374 Oct 27 j 04:15	8° \mathring{M} 28'24	2°02'37				
minimum elong	-3374 Oct 27 j 04:18	8° \mathring{M} 28'25	2°02'36	conjunction	-3367 Jan 04 j 02:01	19° \mathring{M} 00'21	-0°30'42
max. Earth dist.	-3374 Oct 26 j 13:38	8° \mathring{M} 24'08	11.15401 AU	minimum elong	-3367 Jan 04 j 02:00	19° \mathring{M} 00'21	0°30'49
morning rise	-3374 Nov 12 j 13:38	10° \mathring{M} 22'30		max. Earth dist.	-3367 Jan 03 j 16:01	18° \mathring{M} 57'14	10.46575 AU
retrograde	-3373 Feb 21 j 11:21	17° \mathring{M} 19'25		morning rise	-3367 Jan 21 j 07:15	21° \mathring{M} 09'08	
opposition	-3373 May 03 j 09:25	14° \mathring{M} 01'39	2°19'47	retrograde	-3367 May 07 j 13:56	29° \mathring{M} 03'55	
min. Earth dist.	-3373 May 03 j 22:25	13° \mathring{M} 59'16	9.12451 AU	opposition	-3367 Jul 16 j 11:27	25° \mathring{M} 37'07	-0°57'39
direct	-3373 Jul 13 j 10:33	10° \mathring{M} 43'16		min. Earth dist.	-3367 Jul 16 j 17:49	25° \mathring{M} 35'52	8.39179 AU
evening set	-3373 Oct 21 j 20:15	17° \mathring{M} 39'57		direct	-3367 Sep 22 j 00:16	22° \mathring{M} 15'07	
				evening set	-3367 Dec 31 j 05:09	29° \mathring{M} 51'05	
conjunction	-3373 Nov 07 j 06:50	19° \mathring{M} 35'09	1°45'36		-3366 Jan 01 j 09:43	0° \mathring{M}	
minimum elong	-3373 Nov 07 j 06:52	19° \mathring{M} 35'10	1°45'33				
max. Earth dist.	-3373 Nov 06 j 15:46	19° \mathring{M} 30'43	11.08626 AU	conjunction	-3366 Jan 17 j 09:20	2° \mathring{M} 01'26	-1°01'18
morning rise	-3373 Nov 23 j 18:02	21° \mathring{M} 30'39		minimum elong	-3366 Jan 17 j 09:17	2° \mathring{M} 01'26	1°01'26
retrograde	-3372 Mar 04 j 09:40	28° \mathring{M} 33'45		max. Earth dist.	-3366 Jan 17 j 02:03	1° \mathring{M} 59'07	10.32086 AU
opposition	-3372 May 14 j 10:32	25° \mathring{M} 14'47	1°56'27	morning rise	-3366 Feb 03 j 18:46	4° \mathring{M} 13'28	
min. Earth dist.	-3372 May 14 j 23:54	25° \mathring{M} 12'19	9.04395 AU	retrograde	-3366 May 21 j 19:36	12° \mathring{M} 20'27	
direct	-3372 Jul 23 j 23:23	21° \mathring{M} 56'18		opposition	-3366 Jul 30 j 05:53	8° \mathring{M} 52'10	-1°34'38
evening set	-3372 Nov 01 j 01:28	28° \mathring{M} 55'44		min. Earth dist.	-3366 Jul 30 j 09:45	8° \mathring{M} 51'24	8.25108 AU
	-3372 Nov 10 j 04:35	0° \mathring{M}		direct	-3366 Oct 05 j 05:18	5° \mathring{M} 28'58	
				evening set	-3365 Jan 13 j 22:01	13° \mathring{M} 15'38	
conjunction	-3372 Nov 17 j 13:42	0° \mathring{M} 52'32	1°24'15				
minimum elong	-3372 Nov 17 j 13:45	0° \mathring{M} 52'33	1°24'11	conjunction	-3365 Jan 31 j 06:04	15° \mathring{M} 29'05	-1°29'30
max. Earth dist.	-3372 Nov 16 j 21:33	0° \mathring{M} 47'44	10.99472 AU	minimum elong	-3365 Jan 31 j 06:01	15° \mathring{M} 29'04	1°29'38
morning rise	-3372 Dec 04 j 03:43	2° \mathring{M} 49'56		max. Earth dist.	-3365 Jan 31 j 02:39	15° \mathring{M} 27'59	10.18534 AU
retrograde	-3371 Mar 16 j 15:43	10° \mathring{M} 00'50		morning rise	-3365 Feb 17 j 19:29	17° \mathring{M} 44'15	
opposition	-3371 May 26 j 16:31	6° \mathring{M} 40'29	1°28'04	retrograde	-3365 Jun 05 j 10:07	26° \mathring{M} 02'33	
min. Earth dist.	-3371 May 27 j 06:22	6° \mathring{M} 37'55	8.94092 AU	opposition	-3365 Aug 13 j 07:54	22° \mathring{M} 32'58	-2°07'34
direct	-3371 Aug 04 j 17:30	3° \mathring{M} 21'41		min. Earth dist.	-3365 Aug 13 j 08:47	22° \mathring{M} 32'48	8.12390 AU
evening set	-3371 Nov 12 j 12:12	10° \mathring{M} 25'26		direct	-3365 Oct 18 j 20:03	19° \mathring{M} 08'30	
max. Earth dist.	-3371 Nov 28 j 11:11	12° \mathring{M} 19'37	10.88236 AU	evening set	-3364 Jan 28 j 04:21	27° \mathring{M} 05'53	
conjunction	-3371 Nov 29 j 02:49	12° \mathring{M} 24'19	0°59'06	conjunction	-3364 Feb 14 j 16:17	29° \mathring{M} 22'14	-1°53'20
minimum elong	-3371 Nov 29 j 02:51	12° \mathring{M} 24'20	0°59'02	minimum elong	-3364 Feb 14 j 16:14	29° \mathring{M} 22'13	1°53'26
morning rise	-3371 Dec 15 j 20:09	14° \mathring{M} 24'05		max. Earth dist.	-3364 Feb 14 j 17:30	29° \mathring{M} 22'38	10.06699 AU
	-3371 Dec 20 j 23:15	15° \mathring{M}			-3364 Feb 19 j 11:47	0° \mathring{M}	
retrograde	-3370 Mar 29 j 05:59	21° \mathring{M} 44'17		morning rise	-3364 Mar 03 j 09:16	1° \mathring{M} 40'14	
opposition	-3370 Jun 08 j 04:22	18° \mathring{M} 22'24	0°55'20	retrograde	-3364 Jun 19 j 08:19	10° \mathring{M} 47'54	




























































































































Planetary Phenomena of Saturn from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 4

Attention, astronomical year style is used: The year -3364 in astronomical counting style is the year 3365 BCE in historical counting style.

opposition	-3364 Aug 26 j 16:17	6° \approx 37'20	-2°33'55	evening set	-3357 May 13 j 11:42	8° \approx 41'35	
min. Earth dist.	-3364 Aug 26 j 13:40	6° \approx 37'52	8.01779 AU				
direct	-3364 Oct 31 j 19:17	3° \approx 11'35		conjunction	-3357 May 31 j 15:26	11° \approx 01'09	-1°01'41
evening set	-3363 Feb 10 j 22:51	11° \approx 18'54		minimum elong	-3357 May 31 j 15:29	11° \approx 01'10	1°01'37
				max. Earth dist.	-3357 Jun 01 j 07:05	11° \approx 06'12	10.11060 AU
conjunction	-3363 Feb 28 j 14:37	13° \approx 37'47	-2°10'52	morning rise	-3357 Jun 18 j 16:37	13° \approx 19'48	
minimum elong	-3363 Feb 28 j 14:34	13° \approx 37'46	2°10'57		-3357 Jul 02 j 05:14	15° \approx 08	
max. Earth dist.	-3363 Feb 28 j 20:23	13° \approx 39'41	9.97319 AU	retrograde	-3357 Sep 29 j 09:51	21° \approx 18'36	
	-3363 Mar 11 j 00:13	15° \approx 08		opposition	-3357 Dec 04 j 21:46	17° \approx 52'17	-0°57'15
morning rise	-3363 Mar 18 j 10:50	15° \approx 58'09		min. Earth dist.	-3357 Dec 04 j 09:40	17° \approx 54'46	8.17172 AU
retrograde	-3363 Jul 04 j 11:31	24° \approx 32'19			-3356 Jan 15 j 09:49	15° \approx 08	
opposition	-3363 Sep 10 j 05:45	21° \approx 01'06	-2°51'17	direct	-3356 Feb 10 j 22:02	14° \approx 22'50	
min. Earth dist.	-3363 Sep 09 j 23:40	21° \approx 02'21	7.93923 AU		-3356 Mar 08 j 08:27	15° \approx 08	
direct	-3363 Nov 15 j 02:46	17° \approx 34'06		evening set	-3356 May 27 j 04:58	22° \approx 30'23	
evening set	-3362 Feb 26 j 03:21	25° \approx 49'41					
				conjunction	-3356 Jun 14 j 06:30	24° \approx 47'13	-0°29'28
conjunction	-3362 Mar 15 j 22:49	28° \approx 10'35	-2°20'28	minimum elong	-3356 Jun 14 j 06:32	24° \approx 47'13	0°29'23
minimum elong	-3362 Mar 15 j 22:48	28° \approx 10'35	2°20'32	max. Earth dist.	-3356 Jun 14 j 21:19	24° \approx 51'55	10.23843 AU
max. Earth dist.	-3362 Mar 16 j 08:24	28° \approx 13'46	9.90971 AU	morning rise	-3356 Jul 02 j 04:18	27° \approx 02'50	
	-3362 Mar 29 j 17:44	0° \approx 08			-3356 Jul 27 j 02:43	0° \approx 08	
morning rise	-3362 Apr 02 j 21:56	0° \approx 32'42		retrograde	-3356 Oct 11 j 17:55	4° \approx 14'38	
retrograde	-3362 Jul 19 j 16:33	9° \approx 09'44		opposition	-3356 Dec 17 j 12:00	1° \approx 12'40	-0°16'24
opposition	-3362 Sep 24 j 22:06	5° \approx 38'16	-2°57'54	min. Earth dist.	-3356 Dec 17 j 00:31	1° \approx 12'21	8.30720 AU
min. Earth dist.	-3362 Sep 24 j 13:31	5° \approx 40'04	7.89262 AU		-3355 Jan 04 j 09:12	30° \approx 08	
direct	-3362 Nov 29 j 17:47	2° \approx 10'08		direct	-3355 Feb 24 j 05:06	27° \approx 55'15	
evening set	-3361 Mar 13 j 15:08	10° \approx 31'42			-3355 Apr 15 j 06:29	0° \approx 08	
				asc. node	-3355 May 18 j 19:58	3° \approx 14'05	
conjunction	-3361 Mar 31 j 14:00	12° \approx 54'00	-2°21'05	evening set	-3355 Jun 10 j 10:44	5° \approx 15'34	
minimum elong	-3361 Mar 31 j 14:01	12° \approx 54'01	2°21'07				
max. Earth dist.	-3361 Apr 01 j 02:19	12° \approx 58'06	9.87991 AU	conjunction	-3355 Jun 28 j 08:48	8° \approx 10'11	0°03'34
morning rise	-3361 Apr 18 j 15:30	15° \approx 17'10		minimum elong	-3355 Jun 28 j 08:47	8° \approx 10'11	0°03'40
retrograde	-3361 Aug 03 j 19:30	23° \approx 53'06		behind sun begin	-3355 Jun 28 j 01:35	8° \approx 10'45	
opposition	-3361 Oct 09 j 15:00	20° \approx 21'55	-2°52'51	behind sun end	-3355 Jun 28 j 15:59	8° \approx 10'25	
min. Earth dist.	-3361 Oct 09 j 04:48	20° \approx 24'03	7.88039 AU	max. Earth dist.	-3355 Jun 28 j 22:09	8° \approx 11'21	10.38040 AU
direct	-3361 Dec 14 j 13:39	16° \approx 52'54		morning rise	-3355 Jul 16 j 02:08	10° \approx 19'21	
evening set	-3360 Mar 28 j 06:31	25° \approx 17'39		retrograde	-3355 Oct 24 j 16:53	17° \approx 15'23	
				opposition	-3355 Dec 30 j 17:50	14° \approx 12'42	0°23'55
conjunction	-3360 Apr 15 j 08:12	27° \approx 40'36	-2°12'29	min. Earth dist.	-3355 Dec 30 j 08:14	14° \approx 13'17	8.45309 AU
minimum elong	-3360 Apr 15 j 08:15	27° \approx 40'37	2°12'29	direct	-3354 Mar 10 j 02:39	11° \approx 10'15	
max. Earth dist.	-3360 Apr 15 j 22:30	27° \approx 45'21	9.88582 AU	evening set	-3354 Jun 24 j 04:20	18° \approx 15'02	
	-3360 May 02 j 23:06	0° \approx 08					
morning rise	-3360 May 03 j 11:22	0° \approx 03'59		conjunction	-3354 Jul 11 j 21:46	21° \approx 10'33	0°35'20
retrograde	-3360 Aug 17 j 17:52	8° \approx 03'45		minimum elong	-3354 Jul 11 j 21:45	21° \approx 10'32	0°35'27
opposition	-3360 Oct 23 j 06:27	5° \approx 04'31	-2°36'26	max. Earth dist.	-3354 Jul 12 j 08:33	21° \approx 10'35	10.52842 AU
min. Earth dist.	-3360 Oct 22 j 19:13	5° \approx 06'52	7.90417 AU	morning rise	-3354 Jul 29 j 10:00	23° \approx 10'08	
direct	-3360 Dec 28 j 12:11	1° \approx 03'45			-3354 Oct 13 j 06:41	0° \approx 08	
evening set	-3359 Apr 12 j 21:21	9° \approx 05'36		retrograde	-3354 Nov 06 j 06:19	0° \approx 30'48	
					-3354 Nov 30 j 08:35	30° \approx 08	
conjunction	-3359 May 01 j 01:01	12° \approx 02'19	-1°55'18	opposition	-3353 Jan 12 j 15:51	27° \approx 10'37	1°01'38
minimum elong	-3359 May 01 j 01:04	12° \approx 02'20	1°55'18	min. Earth dist.	-3353 Jan 12 j 08:53	27° \approx 10'59	8.60150 AU
max. Earth dist.	-3359 May 01 j 16:34	12° \approx 02'27	9.92821 AU	direct	-3353 Mar 23 j 15:05	23° \approx 14'24	
morning rise	-3359 May 19 j 04:50	14° \approx 04'50			-3353 Jun 25 j 17:34	0° \approx 08	
retrograde	-3359 Sep 01 j 08:57	23° \approx 07'31		evening set	-3353 Jul 07 j 09:35	1° \approx 21'37	
opposition	-3359 Nov 06 j 17:58	19° \approx 03'11	-2°10'05				
min. Earth dist.	-3359 Nov 06 j 06:09	19° \approx 04'39	7.96347 AU	conjunction	-3353 Jul 24 j 21:41	3° \approx 28'19	1°04'32
direct	-3358 Jan 12 j 10:46	16° \approx 08'17		minimum elong	-3353 Jul 24 j 21:38	3° \approx 28'18	1°04'40
evening set	-3358 Apr 28 j 08:15	24° \approx 02'46		max. Earth dist.	-3353 Jul 25 j 04:49	3° \approx 30'29	10.67493 AU
				morning rise	-3353 Aug 11 j 04:32	5° \approx 33'25	
conjunction	-3358 May 16 j 12:40	26° \approx 05'12	-1°31'03	retrograde	-3353 Nov 18 j 08:36	12° \approx 45'02	
minimum elong	-3358 May 16 j 12:44	26° \approx 05'12	1°31'00	opposition	-3352 Jan 25 j 06:29	9° \approx 25'23	1°35'14
max. Earth dist.	-3358 May 17 j 04:37	26° \approx 05'33	10.00485 AU	min. Earth dist.	-3352 Jan 25 j 02:05	9° \approx 26'14	8.74525 AU
morning rise	-3358 Jun 03 j 15:53	29° \approx 02'25		direct	-3352 Apr 04 j 20:43	5° \approx 59'46	
	-3358 Jun 09 j 22:07	0° \approx 08		evening set	-3352 Jul 19 j 03:09	13° \approx 29'19	
retrograde	-3358 Sep 15 j 14:48	7° \approx 23'49					
opposition	-3358 Nov 20 j 23:27	3° \approx 55'53	-1°36'05	conjunction	-3352 Aug 05 j 09:46	15° \approx 32'42	1°30'02
min. Earth dist.	-3358 Nov 20 j 11:19	3° \approx 58'24	8.05466 AU	minimum elong	-3352 Aug 05 j 09:43	15° \approx 32'41	1°30'09
direct	-3357 Jan 27 j 06:43	0° \approx 26'02		max. Earth dist.	-3352 Aug 05 j 13:12	15° \approx 33'43	10.81336 AU

Planetary Phenomena of Saturn from -3400 through -2898 (UT), AstroDienst AG 18-Feb-2025 14:23, page 5

Attention, astronomical year style is used: The year -3352 in astronomical counting style is the year 3353 BCE in historical counting style.

morning rise	-3352 Aug 22 j 11:22	17°  34'33		morning rise	-3346 Oct 28 j 02:12	24°  46'33	
retrograde	-3352 Nov 29 j 05:53	24°  37'49			-3346 Dec 21 j 18:56	0° 	
opposition	-3351 Feb 05 j 14:27	21°  19'27	2°03'39	retrograde	-3345 Feb 04 j 23:47	1°  36'32	
min. Earth dist.	-3351 Feb 05 j 12:00	21°  19'55	8.87804 AU		-3345 Mar 23 j 18:00	30° 	
direct	-3351 Apr 17 j 16:32	17°  55'08		opposition	-3345 Apr 16 j 16:00	28°  20'27	2°43'25
evening set	-3351 Jul 31 j 10:00	25°  16'11		min. Earth dist.	-3345 Apr 17 j 02:43	28°  18'30	9.21568 AU
				direct	-3345 Jun 27 j 03:14	25°  02'17	
conjunction	-3351 Aug 17 j 11:28	27°  16'37	1°51'04		-3345 Sep 18 j 13:44	0° 	
minimum elong	-3351 Aug 17 j 11:25	27°  16'36	1°51'11	evening set	-3345 Oct 06 j 07:35	1°  56'56	
max. Earth dist.	-3351 Aug 17 j 12:10	27°  16'50	10.93798 AU				
morning rise	-3351 Sep 03 j 08:03	29°  15'38		conjunction	-3345 Oct 22 j 16:53	3°  50'27	2°08'34
	-3351 Sep 09 j 18:43	0° 		minimum elong	-3345 Oct 22 j 16:55	3°  50'28	2°08'33
retrograde	-3351 Dec 10 j 21:42	6°  12'17		max. Earth dist.	-3345 Oct 22 j 03:19	3°  46'30	11.19823 AU
opposition	-3350 Feb 17 j 17:06	2°  15'00	2°26'11	morning rise	-3345 Nov 08 j 01:39	5°  43'52	
min. Earth dist.	-3350 Feb 17 j 16:49	2°  15'04	8.99447 AU	retrograde	-3344 Feb 16 j 14:44	12°  37'32	
	-3350 Apr 05 j 18:30	30° 		opposition	-3344 Apr 27 j 11:52	9°  20'46	2°28'11
direct	-3350 Apr 30 j 03:12	29°  32'00		min. Earth dist.	-3344 Apr 28 j 00:32	9°  18'28	9.17726 AU
	-3350 May 24 j 08:23	0° 		direct	-3344 Jul 07 j 15:45	6°  02'56	
evening set	-3350 Aug 12 j 07:36	6°  45'33		evening set	-3344 Oct 16 j 07:46	12°  57'57	
conjunction	-3350 Aug 29 j 04:20	8°  43'28	2°07'10	conjunction	-3344 Nov 01 j 17:34	14°  52'17	1°53'37
minimum elong	-3350 Aug 29 j 04:17	8°  43'27	2°07'15	minimum elong	-3344 Nov 01 j 17:37	14°  52'18	1°53'34
max. Earth dist.	-3350 Aug 29 j 02:40	8°  42'59	11.04398 AU	max. Earth dist.	-3344 Nov 01 j 02:35	14°  47'54	11.14659 AU
morning rise	-3350 Sep 14 j 20:27	10°  40'06		morning rise	-3344 Nov 18 j 03:53	16°  46'48	
	-3350 Oct 27 j 03:03	15° 		retrograde	-3343 Feb 27 j 09:07	23°  45'46	
retrograde	-3350 Dec 22 j 10:02	17°  31'58		opposition	-3343 May 09 j 10:30	20°  28'01	2°07'17
	-3349 Feb 19 j 14:23	15° 		min. Earth dist.	-3343 May 09 j 23:56	20°  25'33	9.11170 AU
opposition	-3349 Mar 01 j 15:38	14°  15'32	2°42'27	direct	-3343 Jul 19 j 05:00	17°  10'15	
min. Earth dist.	-3349 Mar 01 j 18:17	14°  15'03	9.09031 AU	evening set	-3343 Oct 27 j 10:33	24°  07'10	
direct	-3349 May 12 j 07:35	10°  53'47					
	-3349 Jul 26 j 18:36	15° 		conjunction	-3343 Nov 12 j 21:51	26°  02'51	1°34'10
evening set	-3349 Aug 23 j 21:27	18°  01'00		minimum elong	-3343 Nov 12 j 21:53	26°  02'51	1°34'07
				max. Earth dist.	-3343 Nov 12 j 06:54	25°  58'26	11.06859 AU
conjunction	-3349 Sep 09 j 14:00	19°  56'53	2°18'02	morning rise	-3343 Nov 29 j 10:19	27°  58'58	
minimum elong	-3349 Sep 09 j 13:58	19°  56'53	2°18'06		-3343 Dec 17 j 12:12	0° 	
max. Earth dist.	-3349 Sep 09 j 09:02	19°  55'27	11.12776 AU	retrograde	-3342 Mar 11 j 12:22	5°  04'54	
morning rise	-3349 Sep 26 j 02:40	21°  51'43		opposition	-3342 May 21 j 13:27	1°  45'53	1°41'09
retrograde	-3348 Jan 02 j 18:39	28°  40'32		min. Earth dist.	-3342 May 22 j 02:35	1°  43'27	9.02055 AU
opposition	-3348 Mar 12 j 11:11	25°  42'39	2°52'17		-3342 Jun 15 j 19:12	30° 	
min. Earth dist.	-3348 Mar 12 j 16:53	25°  23'36	9.16237 AU	direct	-3342 Jul 30 j 21:39	28°  27'56	
direct	-3348 May 23 j 05:18	22°  04'03			-3342 Sep 12 j 09:44	0° 	
evening set	-3348 Sep 03 j 04:59	29°  06'09		evening set	-3342 Nov 07 j 17:52	5°  28'17	
	-3348 Sep 11 j 01:05	0° 					
				conjunction	-3342 Nov 24 j 07:16	7°  25'50	1°10'43
conjunction	-3348 Sep 19 j 18:13	1°  00'34	2°23'34	minimum elong	-3342 Nov 24 j 07:19	7°  25'50	1°10'39
minimum elong	-3348 Sep 19 j 18:13	1°  00'34	2°23'38	max. Earth dist.	-3342 Nov 23 j 16:06	7°  21'18	10.96611 AU
max. Earth dist.	-3348 Sep 19 j 09:58	0°  58'10	11.18661 AU	morning rise	-3342 Dec 10 j 22:42	9°  24'05	
morning rise	-3348 Oct 06 j 04:31	2°  54'10			-3341 Feb 06 j 06:09	15° 	
retrograde	-3347 Jan 13 j 02:17	9°  41'42		retrograde	-3341 Mar 23 j 23:02	16°  38'34	
opposition	-3347 Mar 24 j 04:52	6°  26'04	2°55'40		-3341 May 09 j 22:37	15° 	
min. Earth dist.	-3347 Mar 24 j 12:27	6°  24'40	9.20814 AU	opposition	-3341 Jun 02 j 21:49	13°  18'05	1°10'24
direct	-3347 Jun 04 j 00:12	3°  06'27		min. Earth dist.	-3341 Jun 03 j 10:50	13°  15'40	8.90633 AU
evening set	-3347 Sep 14 j 08:01	10°  04'44		direct	-3341 Aug 11 j 15:24	9°  59'43	
					-3341 Oct 31 j 23:51	15° 	
conjunction	-3347 Sep 30 j 19:03	11°  05'17	2°23'45	evening set	-3341 Nov 19 j 08:00	17°  05'15	
minimum elong	-3347 Sep 30 j 19:03	11°  05'17	2°23'48	max. Earth dist.	-3341 Dec 05 j 08:14	19°  00'20	10.84242 AU
max. Earth dist.	-3347 Sep 30 j 09:10	11°  55'25	11.21848 AU				
morning rise	-3347 Oct 17 j 03:44	13°  51'13		conjunction	-3341 Dec 06 j 00:00	19°  05'05	0°43'53
retrograde	-3346 Jan 24 j 12:38	20°  39'08		minimum elong	-3341 Dec 06 j 00:02	19°  05'06	0°43'48
opposition	-3346 Apr 04 j 21:58	17°  23'26	2°52'39	morning rise	-3341 Dec 22 j 19:06	21°  05'56	
min. Earth dist.	-3346 Apr 05 j 06:55	17°  21'48	9.22607 AU	retrograde	-3340 Apr 04 j 16:52	28°  30'29	
direct	-3346 Jun 15 j 15:16	14°  04'39		opposition	-3340 Jun 14 j 12:24	25°  08'23	0°35'49
evening set	-3346 Sep 25 j 08:19	21°  00'25		min. Earth dist.	-3340 Jun 15 j 01:18	25°  05'57	8.77333 AU
				direct	-3340 Aug 22 j 15:36	21°  49'16	
conjunction	-3346 Oct 11 j 18:05	22°  05'41	2°18'42	evening set	-3340 Nov 30 j 06:37	29°  01'40	
minimum elong	-3346 Oct 11 j 18:06	22°  05'41	2°18'44		-3340 Dec 08 j 07:45	0° 	
max. Earth dist.	-3346 Oct 11 j 06:51	22°  50'25	11.22239 AU	max. Earth dist.	-3340 Dec 16 j 10:44	0°  59'37	10.70261 AU

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Attention, astronomical year style is used: The year -3340 in astronomical counting style is the year 3341 BCE in historical counting style.

conjunction	-3340 Dec 17 j 01:47	1°♏04'13	0°14'29	direct	-3334 Nov 08 j 19:15	11°♏03'45	
minimum elong	-3340 Dec 17 j 01:47	1°♏04'13	0°14'24		-3333 Jan 14 j 21:14	15°♏	
behind sun begin	-3340 Dec 16 j 22:27	1°♏03'13		evening set	-3333 Feb 19 j 09:43	19°♏16'00	
behind sun end	-3340 Dec 17 j 05:08	1°♏05'14					
morning rise	-3339 Jan 03 j 00:53	3°♏08'01		conjunction	-3333 Mar 09 j 03:22	21°♏36'08	-2°17'06
retrograde	-3339 Apr 17 j 21:24	10°♏43'53		minimum elong	-3333 Mar 09 j 03:20	21°♏36'08	2°17'11
desc. node	-3339 Jun 12 j 19:49	8°♏25'42		max. Earth dist.	-3333 Mar 09 j 08:45	21°♏37'55	9.92270 AU
opposition	-3339 Jun 27 j 10:23	7°♏20'00	-0°01'29	morning rise	-3333 Mar 27 j 01:24	23°♏57'42	
min. Earth dist.	-3339 Jun 27 j 22:08	7°♏17'46	8.62751 AU		-3333 May 19 j 09:51	0°♏	
direct	-3339 Sep 03 j 23:05	3°♏59'55		retrograde	-3333 Jul 12 j 23:55	2°♏34'23	
evening set	-3339 Dec 12 j 15:26	11°♏20'39			-3333 Sep 06 j 19:15	30°♏	
				opposition	-3333 Sep 18 j 11:18	29°♏02'26	-2°56'22
conjunction	-3339 Dec 29 j 14:10	13°♏26'10	-0°16'27	min. Earth dist.	-3333 Sep 18 j 05:28	29°♏03'39	7.89512 AU
minimum elong	-3339 Dec 29 j 14:09	13°♏26'10	0°16'34	direct	-3333 Nov 23 j 08:08	25°♏34'13	
max. Earth dist.	-3339 Dec 29 j 01:51	13°♏22'21	10.55300 AU		-3332 Feb 02 j 20:30	0°♏	
morning rise	-3338 Jan 15 j 17:20	15°♏33'09		evening set	-3332 Mar 05 j 18:29	3°♏53'57	
retrograde	-3338 May 01 j 12:04	23°♏21'14					
opposition	-3338 Jul 10 j 16:12	19°♏55'30	-0°40'01	conjunction	-3332 Mar 23 j 15:47	6°♏15'54	-2°22'00
min. Earth dist.	-3338 Jul 11 j 01:22	19°♏53'44	8.47570 AU	minimum elong	-3332 Mar 23 j 15:47	6°♏15'54	2°22'04
direct	-3338 Sep 16 j 13:47	16°♏34'15		max. Earth dist.	-3332 Mar 24 j 01:26	6°♏19'06	9.87263 AU
evening set	-3338 Dec 25 j 12:19	24°♏04'36		morning rise	-3332 Apr 10 j 16:27	8°♏38'54	
				retrograde	-3332 Jul 27 j 03:10	17°♏16'39	
conjunction	-3337 Jan 11 j 14:48	26°♏13'17	-0°47'27	opposition	-3332 Oct 02 j 04:27	13°♏44'41	-2°56'50
minimum elong	-3337 Jan 11 j 14:46	26°♏13'16	0°47'34	min. Earth dist.	-3332 Oct 01 j 19:42	13°♏46'31	7.86385 AU
max. Earth dist.	-3337 Jan 11 j 05:35	26°♏10'22	10.40074 AU	direct	-3332 Dec 07 j 02:26	10°♏15'26	
morning rise	-3337 Jan 28 j 22:04	28°♏23'34		evening set	-3331 Mar 21 j 08:42	18°♏39'49	
	-3337 Feb 11 j 04:51	0°♏					
retrograde	-3337 May 15 j 12:51	6°♏24'07		conjunction	-3331 Apr 08 j 09:16	21°♏02'49	-2°17'41
opposition	-3337 Jul 24 j 05:59	2°♏56'36	-1°17'56	minimum elong	-3331 Apr 08 j 09:18	21°♏02'49	2°17'43
min. Earth dist.	-3337 Jul 24 j 11:57	2°♏55'25	8.32539 AU	max. Earth dist.	-3331 Apr 08 j 22:41	21°♏07'17	9.86043 AU
	-3337 Sep 07 j 13:56	30°♏		morning rise	-3331 Apr 26 j 11:54	23°♏26'27	
direct	-3337 Sep 29 j 13:23	29°♏34'00			-3331 Jun 24 j 18:29	0°♏	
	-3337 Oct 21 j 05:52	0°♏		retrograde	-3331 Aug 11 j 03:55	2°♏01'03	
evening set	-3336 Jan 07 j 22:16	7°♏14'56			-3331 Sep 28 j 07:48	30°♏	
				opposition	-3331 Oct 16 j 21:08	28°♏29'33	-2°45'36
conjunction	-3336 Jan 25 j 04:31	9°♏26'49	-1°16'54	min. Earth dist.	-3331 Oct 16 j 09:51	28°♏31'55	7.87086 AU
minimum elong	-3336 Jan 25 j 04:28	9°♏26'48	1°17'02	direct	-3331 Dec 21 j 23:51	24°♏59'34	
max. Earth dist.	-3336 Jan 24 j 22:23	9°♏24'51	10.25360 AU		-3330 Mar 09 j 05:35	0°♏	
morning rise	-3336 Feb 11 j 15:51	11°♏40'23		evening set	-3330 Apr 06 j 00:29	3°♏25'20	
retrograde	-3336 May 29 j 00:04	19°♏52'58					
opposition	-3336 Aug 06 j 03:47	16°♏23'50	-1°52'59	conjunction	-3330 Apr 24 j 03:36	5°♏48'31	-2°04'22
min. Earth dist.	-3336 Aug 06 j 06:38	16°♏23'16	8.18444 AU	minimum elong	-3330 Apr 24 j 03:39	5°♏48'32	2°04'22
direct	-3336 Oct 11 j 21:23	12°♏59'48		max. Earth dist.	-3330 Apr 24 j 19:54	5°♏53'56	9.88703 AU
evening set	-3335 Jan 20 j 21:35	20°♏51'45		morning rise	-3330 May 12 j 07:20	8°♏11'52	
				retrograde	-3330 Aug 25 j 23:33	16°♏39'27	
conjunction	-3335 Feb 07 j 07:33	23°♏06'42	-1°42'57	opposition	-3330 Oct 31 j 10:56	13°♏08'54	-2°23'36
minimum elong	-3335 Feb 07 j 07:30	23°♏06'41	1°43'04	min. Earth dist.	-3330 Oct 30 j 21:56	13°♏11'37	7.91564 AU
max. Earth dist.	-3335 Feb 07 j 04:43	23°♏05'46	10.11963 AU	direct	-3329 Jan 05 j 22:27	9°♏38'33	
morning rise	-3335 Feb 24 j 22:46	25°♏23'21		evening set	-3329 Apr 21 j 14:00	18°♏02'25	
	-3335 Apr 05 j 12:44	0°♏					
retrograde	-3335 Jun 12 j 19:19	3°♏46'39		conjunction	-3329 May 09 j 18:28	20°♏24'51	-1°43'10
opposition	-3335 Aug 20 j 08:54	0°♏16'12	-2°22'41	minimum elong	-3329 May 09 j 18:32	20°♏24'52	1°43'08
min. Earth dist.	-3335 Aug 20 j 08:49	0°♏16'13	8.06087 AU	max. Earth dist.	-3329 May 10 j 12:22	20°♏30'44	9.95040 AU
	-3335 Aug 23 j 16:28	30°♏		morning rise	-3329 May 27 j 22:06	22°♏46'59	
direct	-3335 Oct 25 j 15:18	26°♏50'40			-3329 Aug 06 j 09:11	0°♏	
	-3335 Dec 24 j 07:46	0°♏		retrograde	-3329 Sep 09 j 10:59	1°♏04'25	
evening set	-3334 Feb 04 j 09:54	4°♏53'21			-3329 Oct 13 j 17:37	30°♏	
				opposition	-3329 Nov 14 j 19:39	27°♏35'15	-1°52'47
conjunction	-3334 Feb 21 j 23:41	7°♏11'06	-2°03'37	min. Earth dist.	-3329 Nov 14 j 06:12	27°♏38'03	7.99510 AU
minimum elong	-3334 Feb 21 j 23:38	7°♏11'05	2°03'44	direct	-3328 Jan 20 j 19:29	24°♏04'55	
max. Earth dist.	-3334 Feb 22 j 00:43	7°♏11'26	10.00693 AU		-3328 Apr 16 j 09:26	0°♏	
morning rise	-3334 Mar 11 j 18:31	9°♏30'29		evening set	-3328 May 05 j 21:31	2°♏23'59	
	-3334 Apr 28 j 17:09	15°♏					
retrograde	-3334 Jun 27 j 20:08	18°♏02'07		conjunction	-3328 May 24 j 01:56	4°♏44'45	-1°15'52
	-3334 Aug 28 j 21:26	15°♏		minimum elong	-3328 May 24 j 01:59	4°♏44'46	1°15'49
opposition	-3334 Sep 03 j 19:59	14°♏30'42	-2°44'31	max. Earth dist.	-3328 May 24 j 19:55	4°♏50'35	10.04618 AU
min. Earth dist.	-3334 Sep 03 j 17:09	14°♏31'17	7.96232 AU	morning rise	-3328 Jun 11 j 04:10	7°♏04'47	

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Attention, astronomical year style is used: The year -3328 in astronomical counting style is the year 3329 BCE in historical counting style.

	-3328 Sep 09 j 03:16	15°♄	morning rise	-3322 Aug 29 j 09:59	24°♄14'48	
retrograde	-3328 Sep 22 j 12:21	15°♄10'06		-3322 Oct 28 j 18:56	0°♄	
	-3328 Oct 05 j 20:14	15°♄	retrograde	-3322 Dec 06 j 02:25	1°♄14'23	
opposition	-3328 Nov 27 j 21:50	11°♄42'39 -1°15'45		-3321 Jan 14 j 08:37	30°♄	
min. Earth dist.	-3328 Nov 27 j 08:49	11°♄45'20 8.10401 AU	opposition	-3321 Feb 12 j 16:07	27°♄57'08	2°16'37
direct	-3327 Feb 03 j 12:58	8°♄12'42	min. Earth dist.	-3321 Feb 12 j 15:39	27°♄57'13	8.95069 AU
	-3327 May 09 j 09:25	15°♄	direct	-3321 Apr 24 j 20:50	24°♄34'00	
evening set	-3327 May 20 j 20:04	16°♄24'36		-3321 Jul 21 j 20:40	0°♄	
			evening set	-3321 Aug 07 j 09:37	1°♄51'01	
conjunction	-3327 Jun 07 j 22:54	18°♄42'55 -0°44'39				
minimum elong	-3327 Jun 07 j 22:56	18°♄42'56 0°44'34	conjunction	-3321 Aug 24 j 08:18	3°♄50'00	2°00'27
max. Earth dist.	-3327 Jun 08 j 15:41	18°♄48'18 10.16793 AU	minimum elong	-3321 Aug 24 j 08:15	3°♄50'00	2°00'32
morning rise	-3327 Jun 25 j 22:28	21°♄00'09	max. Earth dist.	-3321 Aug 24 j 06:37	3°♄49'31	11.00500 AU
retrograde	-3327 Oct 06 j 01:49	28°♄52'29	morning rise	-3321 Sep 10 j 02:29	5°♄47'41	
opposition	-3327 Dec 11 j 16:17	25°♄26'56 -0°35'25	retrograde	-3321 Dec 17 j 15:57	12°♄41'41	
min. Earth dist.	-3327 Dec 11 j 04:22	25°♄29'21 8.23532 AU	opposition	-3320 Feb 24 j 16:50	9°♄25'22	2°35'46
direct	-3326 Feb 18 j 00:12	21°♄57'42	min. Earth dist.	-3320 Feb 24 j 18:56	9°♄24'58	9.05557 AU
evening set	-3326 Jun 04 j 08:01	0°♄00'53	direct	-3320 May 06 j 06:19	6°♄03'28	
	-3326 Jun 04 j 05:10	0°♄	evening set	-3320 Aug 18 j 03:18	13°♄13'40	
				-3320 Sep 02 j 09:59	15°♄	
conjunction	-3326 Jun 22 j 07:48	2°♄16'09 -0°11'45				
minimum elong	-3326 Jun 22 j 07:48	2°♄16'09 0°11'38	conjunction	-3320 Sep 03 j 21:38	15°♄10'26	2°13'42
behind sun begin	-3326 Jun 22 j 02:42	2°♄14'33	minimum elong	-3320 Sep 03 j 21:36	15°♄10'25	2°13'46
behind sun end	-3326 Jun 22 j 12:55	2°♄17'45	max. Earth dist.	-3320 Sep 03 j 17:00	15°♄09'04	11.09750 AU
max. Earth dist.	-3326 Jun 22 j 22:19	2°♄20'43 10.30787 AU	morning rise	-3320 Sep 20 j 11:54	17°♄06'02	
morning rise	-3326 Jul 10 j 03:30	4°♄30'04	retrograde	-3320 Dec 28 j 03:01	23°♄56'16	
retrograde	-3326 Oct 19 j 05:10	12°♄09'27	opposition	-3319 Mar 07 j 13:48	20°♄40'32	2°48'32
asc. node	-3326 Nov 03 j 17:07	11°♄56'17	min. Earth dist.	-3319 Mar 07 j 18:10	20°♄39'44	9.13616 AU
opposition	-3326 Dec 25 j 02:29	8°♄45'51 0°05'31	direct	-3319 May 18 j 07:05	17°♄19'46	
min. Earth dist.	-3326 Dec 24 j 15:48	8°♄47'59 8.38107 AU	evening set	-3319 Aug 29 j 14:03	24°♄24'21	
direct	-3325 Mar 04 j 03:15	5°♄17'38				
evening set	-3325 Jun 18 j 07:58	13°♄11'11	conjunction	-3319 Sep 15 j 04:51	26°♄19'26	2°21'39
			minimum elong	-3319 Sep 15 j 04:50	26°♄19'26	2°21'43
conjunction	-3325 Jul 06 j 03:35	15°♄23'04 0°20'55	max. Earth dist.	-3319 Sep 14 j 21:56	26°♄17'25	11.16475 AU
minimum elong	-3325 Jul 06 j 03:33	15°♄23'03 0°21'03	morning rise	-3319 Oct 01 j 16:01	28°♄13'33	
max. Earth dist.	-3325 Jul 06 j 15:32	15°♄26'46 10.45786 AU		-3319 Oct 17 j 17:31	0°♄	
morning rise	-3325 Jul 23 j 18:27	17°♄33'25	retrograde	-3318 Jan 08 j 12:17	5°♄01'45	
retrograde	-3325 Oct 31 j 22:47	25°♄00'40	opposition	-3318 Mar 19 j 08:41	1°♄46'18	2°54'50
opposition	-3324 Jan 07 j 04:39	21°♄38'56 0°44'44	min. Earth dist.	-3318 Mar 19 j 15:50	1°♄44'59	9.19042 AU
min. Earth dist.	-3324 Jan 06 j 19:13	21°♄40'48 8.53309 AU		-3318 Apr 13 j 20:30	30°♄	
direct	-3324 Mar 16 j 21:27	18°♄11'56	direct	-3318 May 30 j 03:33	28°♄26'27	
evening set	-3324 Jun 30 j 19:23	25°♄55'33		-3318 Jul 14 j 06:09	0°♄	
			evening set	-3318 Sep 09 j 19:27	5°♄26'39	
conjunction	-3324 Jul 18 j 10:05	28°♄03'54 0°51'32				
minimum elong	-3324 Jul 18 j 10:03	28°♄03'53 0°51'40	conjunction	-3318 Sep 26 j 07:25	7°♄20'36	2°24'14
max. Earth dist.	-3324 Jul 18 j 19:51	28°♄06'53 10.60981 AU	minimum elong	-3318 Sep 26 j 07:25	7°♄20'36	2°24'18
	-3324 Aug 03 j 07:58	0°♄	max. Earth dist.	-3318 Sep 25 j 21:25	7°♄17'42	11.20511 AU
morning rise	-3324 Aug 04 j 19:33	0°♄10'40	morning rise	-3318 Oct 12 j 16:39	9°♄13'49	
retrograde	-3324 Nov 12 j 07:27	7°♄27'05	retrograde	-3317 Jan 19 j 21:15	16°♄01'40	
opposition	-3323 Jan 18 j 23:07	4°♄07'04 1°20'26	opposition	-3317 Mar 31 j 02:29	12°♄46'08	2°54'42
min. Earth dist.	-3323 Jan 18 j 15:53	4°♄08'29 8.68349 AU	min. Earth dist.	-3317 Mar 31 j 12:26	12°♄44'19	9.21709 AU
direct	-3323 Mar 30 j 06:35	0°♄41'21	direct	-3317 Jun 10 j 19:56	9°♄27'00	
evening set	-3323 Jul 13 j 18:58	8°♄15'20	evening set	-3317 Sep 20 j 21:08	16°♄24'06	
conjunction	-3323 Jul 31 j 04:19	10°♄20'14 1°18'53	conjunction	-3317 Oct 07 j 07:17	18°♄17'30	2°21'32
minimum elong	-3323 Jul 31 j 04:16	10°♄20'14 1°19'00	minimum elong	-3317 Oct 07 j 07:18	18°♄17'30	2°21'35
max. Earth dist.	-3323 Jul 31 j 11:10	10°♄22'18 10.75611 AU	max. Earth dist.	-3317 Oct 06 j 18:37	18°♄13'49	11.21775 AU
morning rise	-3323 Aug 17 j 08:14	12°♄23'34	morning rise	-3317 Oct 23 j 15:43	20°♄10'26	
retrograde	-3323 Nov 24 j 09:08	19°♄30'41	retrograde	-3316 Jan 31 j 05:52	26°♄59'36	
opposition	-3322 Jan 31 j 10:31	16°♄12'12 1°51'20	opposition	-3316 Apr 10 j 20:05	23°♄43'36	2°48'15
min. Earth dist.	-3322 Jan 31 j 06:34	16°♄12'57 8.82489 AU	min. Earth dist.	-3316 Apr 11 j 07:42	23°♄41'29	9.21558 AU
direct	-3322 Apr 12 j 05:17	12°♄47'47	direct	-3316 Jun 21 j 10:20	20°♄24'56	
evening set	-3322 Jul 26 j 07:24	20°♄12'47	evening set	-3316 Sep 30 j 20:44	27°♄20'20	
conjunction	-3322 Aug 12 j 11:15	22°♄14'32 1°42'03	conjunction	-3316 Oct 17 j 06:13	29°♄13'46	2°13'40
minimum elong	-3322 Aug 12 j 11:11	22°♄14'31 1°42'10	minimum elong	-3316 Oct 17 j 06:15	29°♄13'46	2°13'40
max. Earth dist.	-3322 Aug 12 j 14:02	22°♄15'22 10.88981 AU	max. Earth dist.	-3316 Oct 16 j 16:35	29°♄09'48	11.20235 AU

Attention, astronomical year style is used: The year -3316 in astronomical counting style is the year 3317 BCE in historical counting style.

	-3316 Oct 23 j 21:30	0°♊		minimum elong	-3310 Dec 24 j 08:46	8°♊08'16	0°02'42
morning rise	-3316 Nov 02 j 14:42	1°♊06'59		behind sun begin	-3310 Dec 24 j 01:43	8°♊06'07	
retrograde	-3315 Feb 10 j 20:08	7°♊59'07		behind sun end	-3310 Dec 24 j 15:49	8°♊10'25	
opposition	-3315 Apr 22 j 14:54	4°♊42'22	2°35'42	max. Earth dist.	-3310 Dec 23 j 20:07	8°♊04'22	10.61022 AU
min. Earth dist.	-3315 Apr 23 j 03:04	4°♊40'08	9.18590 AU	morning rise	-3309 Jan 10 j 10:04	10°♊13'53	
direct	-3315 Jul 03 j 00:14	1°♊24'00		retrograde	-3309 Apr 25 j 19:15	17°♊56'34	
evening set	-3315 Oct 11 j 20:14	8°♊19'04		opposition	-3309 Jul 05 j 03:21	14°♊31'17	-0°22'46
				min. Earth dist.	-3309 Jul 05 j 12:26	14°♊29'32	8.53548 AU
conjunction	-3315 Oct 28 j 05:54	10°♊13'06	2°00'50	direct	-3309 Sep 11 j 07:03	11°♊10'15	
minimum elong	-3315 Oct 28 j 05:57	10°♊13'07	2°00'48	evening set	-3309 Dec 20 j 03:04	18°♊36'20	
max. Earth dist.	-3315 Oct 27 j 15:32	10°♊08'54	11.15932 AU				
morning rise	-3315 Nov 13 j 15:19	12°♊07'11		conjunction	-3308 Jan 06 j 03:42	20°♊43'37	-0°33'41
retrograde	-3314 Feb 22 j 13:01	19°♊03'54		minimum elong	-3308 Jan 06 j 03:41	20°♊43'37	0°33'48
opposition	-3314 May 04 j 12:13	15°♊46'09	2°17'19	max. Earth dist.	-3308 Jan 05 j 16:56	20°♊40'15	10.46231 AU
min. Earth dist.	-3314 May 05 j 01:21	15°♊43'45	9.12909 AU	morning rise	-3308 Jan 23 j 09:14	22°♊52'29	
direct	-3314 Jul 14 j 11:22	12°♊27'53			-3308 Apr 07 j 21:24	0°♊	
evening set	-3314 Oct 22 j 21:37	19°♊24'10		retrograde	-3308 May 08 j 15:01	0°♊47'30	
					-3308 Jun 08 j 15:43	30°♊	
conjunction	-3314 Nov 08 j 08:11	21°♊19'19	1°43'22	opposition	-3308 Jul 17 j 13:34	27°♊20'36	-1°01'12
minimum elong	-3314 Nov 08 j 08:14	21°♊19'19	1°43'19	min. Earth dist.	-3308 Jul 17 j 20:47	27°♊19'11	8.38765 AU
max. Earth dist.	-3314 Nov 07 j 16:24	21°♊14'40	11.09023 AU	direct	-3308 Sep 23 j 02:50	23°♊58'28	
morning rise	-3314 Nov 24 j 19:38	23°♊14'48			-3308 Dec 19 j 08:14	0°♊	
	-3313 Feb 15 j 08:00	0°♊		evening set	-3307 Jan 01 j 07:02	1°♊34'44	
retrograde	-3313 Mar 06 j 11:52	0°♊17'47					
	-3313 Mar 25 j 19:45	30°♊		conjunction	-3307 Jan 18 j 11:27	3°♊45'12	-1°04'02
opposition	-3313 May 16 j 13:16	26°♊58'48	1°53'28	minimum elong	-3307 Jan 18 j 11:24	3°♊45'11	1°04'10
min. Earth dist.	-3313 May 17 j 03:17	26°♊56'13	9.04715 AU	max. Earth dist.	-3307 Jan 18 j 04:10	3°♊42'52	10.31606 AU
direct	-3313 Jul 26 j 02:21	23°♊40'22		morning rise	-3307 Feb 04 j 21:03	5°♊57'20	
	-3313 Oct 28 j 09:24	0°♊		retrograde	-3307 May 22 j 21:27	14°♊04'40	
evening set	-3313 Nov 03 j 02:35	0°♊39'26		opposition	-3307 Jul 31 j 08:04	10°♊36'17	-1°37'49
				min. Earth dist.	-3307 Jul 31 j 12:18	10°♊35'26	8.24569 AU
conjunction	-3313 Nov 19 j 14:56	2°♊36'14	1°21'39	direct	-3307 Oct 06 j 07:43	7°♊12'57	
minimum elong	-3313 Nov 19 j 14:59	2°♊36'14	1°21'35	evening set	-3306 Jan 15 j 00:18	15°♊00'02	
max. Earth dist.	-3313 Nov 18 j 22:41	2°♊31'24	10.99730 AU				
morning rise	-3313 Dec 06 j 05:12	4°♊33'38		conjunction	-3306 Feb 01 j 08:37	17°♊13'37	-1°31'50
retrograde	-3312 Mar 17 j 17:24	11°♊44'28		minimum elong	-3306 Feb 01 j 08:34	17°♊13'36	1°31'57
opposition	-3312 May 27 j 19:00	8°♊24'04	1°24'41	max. Earth dist.	-3306 Feb 01 j 05:41	17°♊12'40	10.17936 AU
min. Earth dist.	-3312 May 28 j 08:57	8°♊21'29	8.94270 AU	morning rise	-3306 Feb 18 j 22:05	19°♊28'54	
direct	-3312 Aug 05 j 19:46	5°♊05'17		retrograde	-3306 Jun 06 j 13:35	27°♊47'40	
evening set	-3312 Nov 13 j 13:17	12°♊08'45		opposition	-3306 Aug 14 j 10:17	24°♊18'00	-2°10'11
				min. Earth dist.	-3306 Aug 14 j 10:54	24°♊17'52	8.11755 AU
conjunction	-3312 Nov 30 j 04:10	14°♊07'39	0°56'14	direct	-3306 Oct 19 j 21:41	20°♊53'25	
minimum elong	-3312 Nov 30 j 04:12	14°♊07'39	0°56'09	evening set	-3305 Jan 29 j 07:14	28°♊51'22	
max. Earth dist.	-3312 Nov 29 j 13:09	14°♊03'08	10.88340 AU		-3305 Feb 07 j 03:39	0°♊	
	-3312 Dec 07 j 10:33	15°♊					
morning rise	-3312 Dec 16 j 21:37	16°♊07'25		conjunction	-3305 Feb 15 j 19:25	1°♊07'52	-1°55'07
retrograde	-3311 Mar 30 j 07:35	23°♊27'38		minimum elong	-3305 Feb 15 j 19:21	1°♊07'51	1°55'14
opposition	-3311 Jun 09 j 06:30	20°♊05'40	0°51'41	max. Earth dist.	-3305 Feb 15 j 20:57	1°♊08'22	10.06027 AU
min. Earth dist.	-3311 Jun 09 j 18:58	20°♊03'19	8.81927 AU	morning rise	-3305 Mar 05 j 12:29	3°♊26'00	
direct	-3311 Aug 17 j 18:00	16°♊46'20		retrograde	-3305 Jun 21 j 12:35	11°♊54'13	
evening set	-3311 Nov 25 j 07:42	23°♊55'48		opposition	-3305 Aug 28 j 19:00	8°♊23'34	-2°35'46
max. Earth dist.	-3311 Dec 11 j 11:50	25°♊53'03	10.75264 AU	min. Earth dist.	-3305 Aug 28 j 15:58	8°♊24'11	8.01096 AU
				direct	-3305 Nov 02 j 21:16	4°♊57'43	
conjunction	-3311 Dec 12 j 01:33	25°♊57'14	0°27'52	evening set	-3304 Feb 13 j 02:31	13°♊05'44	
minimum elong	-3311 Dec 12 j 01:35	25°♊57'14	0°27'47		-3304 Feb 27 j 15:25	15°♊	
morning rise	-3311 Dec 28 j 22:42	27°♊59'46					
	-3310 Jan 15 j 07:07	0°♊		conjunction	-3304 Mar 01 j 18:28	15°♊24'47	-2°11'58
retrograde	-3310 Apr 12 j 09:12	5°♊30'41		minimum elong	-3304 Mar 01 j 18:26	15°♊24'46	2°12'04
opposition	-3310 Jun 22 j 01:05	2°♊07'04	0°15'26	max. Earth dist.	-3304 Mar 02 j 00:02	15°♊26'37	9.96635 AU
min. Earth dist.	-3310 Jun 22 j 11:47	2°♊05'02	8.68161 AU	morning rise	-3304 Mar 19 j 14:52	17°♊45'18	
	-3310 Jul 22 j 04:34	30°♊		retrograde	-3304 Jul 05 j 16:07	26°♊20'00	
direct	-3310 Aug 29 j 21:07	28°♊47'00		opposition	-3304 Sep 11 j 08:54	22°♊48'44	-2°52'13
	-3310 Oct 06 j 12:24	0°♊		min. Earth dist.	-3304 Sep 11 j 02:46	22°♊50'00	7.93266 AU
desc. node	-3310 Nov 23 j 11:35	4°♊25'03		direct	-3304 Nov 16 j 05:32	19°♊21'40	
evening set	-3310 Dec 07 j 11:40	6°♊04'01		evening set	-3303 Feb 27 j 07:45	27°♊37'59	
conjunction	-3310 Dec 24 j 08:47	8°♊08'16	-0°02'36	conjunction	-3303 Mar 17 j 03:19	29°♊59'03	-2°20'47

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Attention, astronomical year style is used: The year -3303 in astronomical counting style is the year 3304 BCE in historical counting style.

minimum elong	-3303 Mar 17 j 03:18	29° \approx 59'03	2°20'51		-3297 Jul 13 j 10:41	0° Π	
	-3303 Mar 17 j 06:10	0° X		retrograde	-3297 Oct 13 j 23:27	6° Π 38'56	
max. Earth dist.	-3303 Mar 17 j 12:26	0° X 02'05	9.90368 AU	opposition	-3297 Dec 19 j 16:07	3° Π 14'28	-0°12'14
morning rise	-3303 Apr 04 j 02:39	2° X 21'20		min. Earth dist.	-3297 Dec 19 j 04:53	3° Π 16'44	8.30979 AU
retrograde	-3303 Jul 20 j 20:57	10° X 58'46			-3296 Feb 09 j 21:23	30° R S	
opposition	-3303 Sep 26 j 01:44	7° X 27'18	-2°57'48	direct	-3296 Feb 26 j 08:13	29° S 45'45	
min. Earth dist.	-3303 Sep 25 j 17:23	7° X 29'03	7.88748 AU		-3296 Mar 13 j 20:58	0° Π	
direct	-3303 Nov 30 j 20:45	3° X 59'07		asc. node	-3296 Apr 11 j 02:04	1° Π 26'10	
evening set	-3302 Mar 14 j 20:04	12° X 21'16		evening set	-3296 Jun 11 j 16:01	7° Π 44'02	
conjunction	-3302 Apr 01 j 19:02	14° X 43'42	-2°20'35	conjunction	-3296 Jun 29 j 13:47	9° Π 57'35	0°06'55
minimum elong	-3302 Apr 01 j 19:03	14° X 43'42	2°20'37	minimum elong	-3296 Jun 29 j 13:47	9° Π 57'35	0°07'01
max. Earth dist.	-3302 Apr 02 j 06:50	14° X 47'38	9.87588 AU	behind sun begin	-3296 Jun 29 j 07:05	9° Π 55'30	
morning rise	-3302 Apr 19 j 20:47	17° X 06'59		behind sun end	-3296 Jun 29 j 20:29	9° Π 59'39	
retrograde	-3302 Aug 05 j 00:01	25° X 43'02		max. Earth dist.	-3296 Jun 30 j 03:12	10° Π 01'46	10.38336 AU
opposition	-3302 Oct 10 j 18:54	22° X 11'52	-2°51'43	morning rise	-3296 Jul 17 j 06:49	12° Π 09'39	
min. Earth dist.	-3302 Oct 10 j 09:11	22° X 13'55	7.87749 AU	retrograde	-3296 Oct 25 j 21:28	19° Π 42'37	
direct	-3302 Dec 15 j 17:09	18° X 42'46		opposition	-3296 Dec 31 j 22:07	16° Π 19'53	0°28'00
evening set	-3301 Mar 30 j 11:44	27° X 07'54		min. Earth dist.	-3296 Dec 31 j 13:07	16° Π 21'40	8.45644 AU
				direct	-3295 Mar 11 j 06:49	12° Π 52'04	
conjunction	-3301 Apr 17 j 13:35	29° X 30'57	-2°11'09	evening set	-3295 Jun 25 j 09:18	20° Π 40'31	
minimum elong	-3301 Apr 17 j 13:38	29° X 30'58	2°11'10				
max. Earth dist.	-3301 Apr 18 j 03:12	29° X 35'28	9.88395 AU	conjunction	-3295 Jul 13 j 02:21	22° Π 50'34	0°38'33
	-3301 Apr 21 j 05:09	0° Y		minimum elong	-3295 Jul 13 j 02:19	22° Π 50'33	0°38'41
morning rise	-3301 May 05 j 16:59	1° Y 54'25		max. Earth dist.	-3295 Jul 13 j 12:29	22° Π 53'41	10.53208 AU
retrograde	-3301 Aug 19 j 22:37	10° Y 25'16		morning rise	-3295 Jul 30 j 14:20	24° Π 59'03	
opposition	-3301 Oct 25 j 10:25	6° Y 54'53	-2°34'19		-3295 Sep 15 j 23:41	0° S	
min. Earth dist.	-3301 Oct 24 j 23:38	6° Y 57'08	7.90308 AU	retrograde	-3295 Nov 07 j 08:39	2° S 20'29	
direct	-3301 Dec 30 j 16:43	3° Y 25'13			-3295 Dec 31 j 17:35	30° R Π	
evening set	-3300 Apr 14 j 02:46	11° Y 50'10		opposition	-3294 Jan 13 j 20:05	28° Π 59'25	1°05'27
				min. Earth dist.	-3294 Jan 13 j 13:15	29° Π 00'45	8.60554 AU
conjunction	-3300 May 02 j 06:34	14° Y 12'57	-1°53'15	direct	-3294 Mar 24 j 21:12	25° Π 32'40	
minimum elong	-3300 May 02 j 06:38	14° Y 12'58	1°53'14		-3294 Jun 10 j 03:32	0° S	
max. Earth dist.	-3300 May 02 j 21:37	14° Y 17'55	9.92781 AU	evening set	-3294 Jul 08 j 14:18	3° S 11'19	
morning rise	-3300 May 20 j 10:30	16° Y 35'41					
retrograde	-3300 Sep 02 j 13:15	24° Y 57'59		conjunction	-3294 Jul 26 j 02:00	5° S 17'52	1°07'28
opposition	-3300 Nov 07 j 21:54	21° Y 28'44	-2°07'06	minimum elong	-3294 Jul 26 j 01:58	5° S 17'51	1°07'36
min. Earth dist.	-3300 Nov 07 j 10:03	21° Y 31'12	7.96357 AU	max. Earth dist.	-3294 Jul 26 j 08:38	5° S 19'52	10.67919 AU
direct	-3299 Jan 13 j 16:04	17° Y 58'51		morning rise	-3294 Aug 12 j 08:36	7° S 22'50	
evening set	-3299 Apr 29 j 13:36	26° Y 20'29		retrograde	-3294 Nov 19 j 12:42	14° S 34'14	
				opposition	-3293 Jan 26 j 10:35	11° S 14'38	1°38'36
conjunction	-3299 May 17 j 18:09	28° Y 42'04	-1°28'23	min. Earth dist.	-3293 Jan 26 j 05:36	11° S 15'36	8.74975 AU
minimum elong	-3299 May 17 j 18:13	28° Y 42'06	1°28'20	direct	-3293 Apr 07 j 01:39	7° S 49'07	
max. Earth dist.	-3299 May 18 j 10:09	28° Y 47'18	10.00550 AU	evening set	-3293 Jul 21 j 07:29	15° S 18'24	
	-3299 May 27 j 17:15	0° S					
morning rise	-3299 Jun 04 j 21:20	1° S 03'10		conjunction	-3293 Aug 07 j 13:48	17° S 21'38	1°32'33
retrograde	-3299 Sep 16 j 18:28	9° S 14'20		minimum elong	-3293 Aug 07 j 13:45	17° S 21'38	1°32'40
opposition	-3299 Nov 22 j 03:25	5° S 46'30	-1°32'28	max. Earth dist.	-3293 Aug 07 j 17:45	17° S 22'49	10.81802 AU
min. Earth dist.	-3299 Nov 21 j 14:50	5° S 49'07	8.05571 AU	morning rise	-3293 Aug 24 j 15:00	19° S 23'21	
direct	-3298 Jan 28 j 12:15	2° S 16'43		retrograde	-3293 Dec 01 j 09:33	26° S 26'24	
evening set	-3298 May 14 j 16:59	10° S 32'20		opposition	-3292 Feb 07 j 18:36	23° S 08'04	2°06'25
				min. Earth dist.	-3292 Feb 07 j 15:33	23° S 08'39	8.88283 AU
conjunction	-3298 Jun 01 j 20:49	12° S 51'53	-0°58'36	direct	-3292 Apr 18 j 20:41	19° S 43'51	
minimum elong	-3298 Jun 01 j 20:51	12° S 51'54	0°58'32	evening set	-3292 Aug 01 j 13:50	27° S 04'32	
max. Earth dist.	-3298 Jun 02 j 12:59	12° S 57'06	10.11213 AU				
	-3298 Jun 18 j 12:34	15° S		conjunction	-3292 Aug 18 j 15:00	29° S 04'49	1°53'05
morning rise	-3298 Jun 19 j 21:50	15° S 10'30		minimum elong	-3292 Aug 18 j 14:57	29° S 04'48	1°53'11
retrograde	-3298 Sep 30 j 13:33	23° S 09'05		max. Earth dist.	-3292 Aug 18 j 16:39	29° S 05'18	10.94284 AU
opposition	-3298 Dec 06 j 01:47	19° S 42'52	-0°53'14		-3292 Aug 26 j 09:31	0° Q	
min. Earth dist.	-3298 Dec 05 j 13:22	19° S 45'25	8.17357 AU	morning rise	-3292 Sep 04 j 11:09	1° Q 03'41	
direct	-3297 Feb 12 j 02:10	16° S 13'29		retrograde	-3292 Dec 12 j 01:26	8° Q 00'08	
evening set	-3297 May 29 j 10:19	24° S 21'03		opposition	-3291 Feb 18 j 21:12	4° Q 42'52	2°28'17
				min. Earth dist.	-3291 Feb 18 j 21:05	4° Q 42'54	8.99945 AU
conjunction	-3297 Jun 16 j 11:48	26° S 37'51	-0°26'09	direct	-3291 May 01 j 07:42	1° Q 19'55	
minimum elong	-3297 Jun 16 j 11:49	26° S 37'52	0°26'03	evening set	-3291 Aug 13 j 11:04	8° Q 33'04	
max. Earth dist.	-3297 Jun 17 j 03:09	26° S 42'43	10.24069 AU				
morning rise	-3297 Jul 04 j 09:18	28° S 53'22		conjunction	-3291 Aug 30 j 07:24	10° Q 30'50	2°08'36

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Attention, astronomical year style is used: The year -3291 in astronomical counting style is the year 3292 BCE in historical counting style.

minimum elong	-3291 Aug 30 j 07:22	10° Ω 30'49	2°08'41	conjunction	-3285 Nov 03 j 18:36	16° Ω 34'56	1°51'37
max. Earth dist.	-3291 Aug 30 j 05:37	10° Ω 30'19	11.04895 AU	minimum elong	-3285 Nov 03 j 18:39	16° Ω 34'57	1°51'35
morning rise	-3291 Sep 15 j 23:16	12° Ω 27'20		max. Earth dist.	-3285 Nov 03 j 04:36	16° Ω 30'51	11.15008 AU
	-3291 Oct 09 j 05:26	15° Ω		morning rise	-3285 Nov 20 j 04:58	18° Ω 29'26	
retrograde	-3291 Dec 23 j 12:31	19° Ω 18'57		retrograde	-3284 Feb 29 j 12:17	25° Ω 28'19	
opposition	-3290 Mar 02 j 19:27	16° Ω 02'32	2°43'50	opposition	-3284 May 10 j 12:40	22° Ω 10'33	2°04'35
min. Earth dist.	-3290 Mar 02 j 22:28	16° Ω 01'58	9.09537 AU	min. Earth dist.	-3284 May 11 j 01:12	22° Ω 08'15	9.11500 AU
	-3290 Mar 17 j 01:39	15° κ Ω		direct	-3284 Jul 20 j 08:07	18° Ω 52'52	
direct	-3290 May 13 j 10:45	12° Ω 40'49		evening set	-3284 Oct 28 j 11:12	25° Ω 49'24	
	-3290 Jul 07 j 22:46	15° Ω					
evening set	-3290 Aug 25 j 00:28	19° Ω 47'36		conjunction	-3284 Nov 13 j 22:40	27° Ω 45'05	1°31'47
				minimum elong	-3284 Nov 13 j 22:43	27° Ω 45'06	1°31'43
conjunction	-3290 Sep 10 j 16:39	21° Ω 43'21	2°18'52	max. Earth dist.	-3284 Nov 13 j 08:16	27° Ω 40'50	11.07181 AU
minimum elong	-3290 Sep 10 j 16:37	21° Ω 43'21	2°18'56	morning rise	-3284 Nov 30 j 11:17	29° Ω 41'12	
max. Earth dist.	-3290 Sep 10 j 11:17	21° Ω 41'47	11.13276 AU		-3284 Dec 03 j 04:42	0° \mathbb{M}	
morning rise	-3290 Sep 27 j 05:12	23° Ω 38'04		retrograde	-3283 Mar 12 j 14:19	6° \mathbb{M} 47'01	
	-3290 Dec 11 j 18:21	0° \mathbb{M}		opposition	-3283 May 22 j 15:22	3° \mathbb{M} 28'01	1°38'01
retrograde	-3289 Jan 03 j 20:35	0° \mathbb{M} 26'40		min. Earth dist.	-3283 May 23 j 04:08	3° \mathbb{M} 25'40	9.02371 AU
	-3289 Jan 27 j 07:55	30° κ Ω		direct	-3283 Jul 31 j 21:44	0° \mathbb{M} 10'10	
opposition	-3289 Mar 14 j 14:46	27° Ω 10'46	2°52'55	evening set	-3283 Nov 08 j 18:27	7° \mathbb{M} 10'12	
min. Earth dist.	-3289 Mar 14 j 19:59	27° Ω 09'48	9.16733 AU				
direct	-3289 May 25 j 10:11	23° Ω 50'11		conjunction	-3283 Nov 25 j 07:53	9° \mathbb{M} 07'42	1°08'01
	-3289 Aug 28 j 14:23	0° \mathbb{M}		minimum elong	-3283 Nov 25 j 07:55	9° \mathbb{M} 07'43	1°07'57
evening set	-3289 Sep 05 j 07:24	0° \mathbb{M} 51'49		max. Earth dist.	-3283 Nov 24 j 16:17	9° \mathbb{M} 03'04	10.96936 AU
				morning rise	-3283 Dec 11 j 23:35	11° \mathbb{M} 05'58	
conjunction	-3289 Sep 21 j 20:30	2° \mathbb{M} 46'08	2°23'47		-3282 Jan 17 j 12:28	15° \mathbb{M}	
minimum elong	-3289 Sep 21 j 20:29	2° \mathbb{M} 46'08	2°23'50	retrograde	-3282 Mar 24 j 23:22	18° \mathbb{M} 20'21	
max. Earth dist.	-3289 Sep 21 j 12:58	2° \mathbb{M} 43'57	11.19147 AU	opposition	-3282 Jun 03 j 23:30	14° \mathbb{M} 59'53	1°06'56
morning rise	-3289 Oct 08 j 06:35	4° \mathbb{M} 39'37			-3282 Jun 03 j 22:50	15° κ \mathbb{M}	
retrograde	-3288 Jan 15 j 05:53	11° \mathbb{M} 26'57		min. Earth dist.	-3282 Jun 04 j 12:54	14° \mathbb{M} 57'23	8.90958 AU
opposition	-3288 Mar 25 j 08:13	8° \mathbb{M} 11'16	2°55'33	direct	-3282 Aug 12 j 16:43	11° \mathbb{M} 41'33	
min. Earth dist.	-3288 Mar 25 j 14:54	8° \mathbb{M} 10'03	9.21285 AU		-3282 Oct 16 j 09:36	15° \mathbb{M}	
direct	-3288 Jun 05 j 04:12	4° \mathbb{M} 51'43		evening set	-3282 Nov 20 j 08:23	18° \mathbb{M} 46'47	
evening set	-3288 Sep 15 j 10:00	11° \mathbb{M} 49'30		max. Earth dist.	-3282 Dec 06 j 08:44	20° \mathbb{M} 41'52	10.84571 AU
conjunction	-3288 Oct 01 j 20:59	13° \mathbb{M} 42'58	2°23'22	conjunction	-3282 Dec 07 j 00:29	20° \mathbb{M} 46'37	0°40'58
minimum elong	-3288 Oct 01 j 20:59	13° \mathbb{M} 42'58	2°23'25	minimum elong	-3282 Dec 07 j 00:31	20° \mathbb{M} 46'37	0°40'54
max. Earth dist.	-3288 Oct 01 j 11:54	13° \mathbb{M} 40'20	11.22308 AU	morning rise	-3282 Dec 23 j 19:50	22° \mathbb{M} 47'28	
morning rise	-3288 Oct 18 j 05:32	15° \mathbb{M} 35'49			-3281 Mar 22 j 04:29	0° \mathbb{X}	
retrograde	-3287 Jan 25 j 14:43	22° \mathbb{M} 23'32		retrograde	-3281 Apr 06 j 18:21	0° \mathbb{X} 11'55	
opposition	-3287 Apr 06 j 01:00	19° \mathbb{M} 07'48	2°51'49		-3281 Apr 22 j 10:21	30° κ \mathbb{M}	
min. Earth dist.	-3287 Apr 06 j 09:54	19° \mathbb{M} 06'11	9.23048 AU	opposition	-3281 Jun 16 j 13:53	26° \mathbb{M} 49'49	0°32'10
direct	-3287 Jun 16 j 17:12	15° \mathbb{M} 49'04		min. Earth dist.	-3281 Jun 17 j 02:58	26° \mathbb{M} 47'21	8.77646 AU
evening set	-3287 Sep 26 j 09:58	22° \mathbb{M} 44'23		direct	-3281 Aug 24 j 17:10	23° \mathbb{M} 30'46	
					-3281 Nov 26 j 06:03	0° \mathbb{X}	
conjunction	-3287 Oct 12 j 19:36	24° \mathbb{M} 37'34	2°17'44	evening set	-3281 Dec 02 j 06:53	0° \mathbb{X} 42'54	
minimum elong	-3287 Oct 12 j 19:38	24° \mathbb{M} 37'34	2°17'45				
max. Earth dist.	-3287 Oct 12 j 08:02	24° \mathbb{M} 34'13	11.22665 AU	conjunction	-3281 Dec 19 j 02:17	2° \mathbb{X} 45'27	0°11'30
morning rise	-3287 Oct 29 j 03:48	26° \mathbb{M} 30'24		minimum elong	-3281 Dec 19 j 02:18	2° \mathbb{X} 45'27	0°11'25
	-3287 Dec 01 j 13:06	0° Ω		behind sun begin	-3281 Dec 18 j 21:08	2° \mathbb{X} 43'53	
retrograde	-3286 Feb 06 j 01:46	3° Ω 20'11		behind sun end	-3281 Dec 19 j 07:27	2° \mathbb{X} 47'01	
opposition	-3286 Apr 17 j 18:45	0° Ω 04'05	2°41'53	max. Earth dist.	-3281 Dec 18 j 12:01	2° \mathbb{X} 41'05	10.70547 AU
min. Earth dist.	-3286 Apr 18 j 05:57	0° Ω 02'03	9.21972 AU	morning rise	-3280 Jan 05 j 01:30	4° \mathbb{X} 49'15	
	-3286 Apr 18 j 17:12	30° κ \mathbb{M}		retrograde	-3280 Apr 18 j 22:10	12° \mathbb{X} 25'04	
direct	-3286 Jun 28 j 05:52	26° \mathbb{M} 45'57		desc. node	-3280 May 08 j 07:55	12° \mathbb{X} 06'40	
	-3286 Sep 02 j 02:53	0° Ω		opposition	-3280 Jun 28 j 11:33	9° \mathbb{X} 01'13	-0°05'10
evening set	-3286 Oct 07 j 08:51	3° Ω 40'12		min. Earth dist.	-3280 Jun 28 j 22:53	8° \mathbb{X} 59'03	8.63000 AU
				direct	-3280 Sep 04 j 23:55	5° \mathbb{X} 41'12	
conjunction	-3286 Oct 23 j 18:06	5° Ω 33'39	2°07'04	evening set	-3280 Dec 13 j 15:53	13° \mathbb{X} 01'47	
minimum elong	-3286 Oct 23 j 18:09	5° Ω 33'40	2°07'03				
max. Earth dist.	-3286 Oct 23 j 04:27	5° Ω 29'41	11.20213 AU	conjunction	-3280 Dec 30 j 14:48	15° \mathbb{X} 07'19	-0°19'24
morning rise	-3286 Nov 09 j 03:01	7° Ω 27'03		minimum elong	-3280 Dec 30 j 14:47	15° \mathbb{X} 07'19	0°19'31
retrograde	-3285 Feb 17 j 15:14	14° Ω 20'35		max. Earth dist.	-3280 Dec 30 j 02:48	15° \mathbb{X} 03'36	10.55496 AU
opposition	-3285 Apr 29 j 14:19	11° Ω 03'47	2°26'02	morning rise	-3279 Jan 16 j 18:01	17° \mathbb{X} 14'18	
min. Earth dist.	-3285 Apr 30 j 02:40	11° Ω 01'32	9.18090 AU	retrograde	-3279 May 02 j 13:11	25° \mathbb{X} 02'24	
direct	-3285 Jul 09 j 18:00	7° Ω 46'00		opposition	-3279 Jul 11 j 17:08	21° \mathbb{X} 36'42	-0°43'34
evening set	-3285 Oct 18 j 08:37	14° Ω 40'38		min. Earth dist.	-3279 Jul 12 j 01:49	21° \mathbb{X} 35'01	8.47718 AU

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Attention, astronomical year style is used: The year -3279 in astronomical counting style is the year 3280 BCE in historical counting style.

direct	-3279 Sep 17 j 14:45	18° ♁ 15'31	retrograde	-3273 Jul 29 j 05:14	19° ♁ 00'37	
evening set	-3279 Dec 26 j 13:00	25° ♁ 45'50	opposition	-3273 Oct 04 j 05:50	15° ♁ 28'38	-2°56'13
			min. Earth dist.	-3273 Oct 03 j 20:49	15° ♁ 30'32	7.86166 AU
conjunction	-3278 Jan 12 j 15:31	27° ♁ 54'32	-0°50'13	direct	-3273 Dec 09 j 02:53	11° ♁ 59'20
minimum elong	-3278 Jan 12 j 15:29	27° ♁ 54'31	0°50'20	evening set	-3272 Mar 22 j 11:34	20° ♁ 24'02
max. Earth dist.	-3278 Jan 12 j 05:39	27° ♁ 51'25	10.40167 AU			
morning rise	-3278 Jan 29 j 22:54	0° ♁ 04'50		conjunction	-3272 Apr 09 j 12:21	22° ♁ 47'08
	-3278 Jan 29 j 07:16	0° ♁		minimum elong	-3272 Apr 09 j 12:24	22° ♁ 47'08
retrograde	-3278 May 16 j 15:15	8° ♁ 05'28		max. Earth dist.	-3272 Apr 10 j 01:58	22° ♁ 51'39
opposition	-3278 Jul 25 j 06:59	4° ♁ 38'00	-1°21'11	morning rise	-3272 Apr 27 j 15:03	25° ♁ 10'50
min. Earth dist.	-3278 Jul 25 j 13:08	4° ♁ 36'47	8.32580 AU		-3272 Jun 07 j 01:43	0° ♁
direct	-3278 Sep 30 j 13:01	1° ♁ 15'27		retrograde	-3272 Aug 12 j 07:24	3° ♁ 45'23
evening set	-3277 Jan 08 j 23:10	8° ♁ 56'28		opposition	-3272 Oct 17 j 22:44	0° ♁ 13'53
				min. Earth dist.	-3272 Oct 17 j 11:27	0° ♁ 16'15
conjunction	-3277 Jan 26 j 05:25	11° ♁ 08'22	-1°19'21		-3272 Oct 20 j 16:53	30° ♁
minimum elong	-3277 Jan 26 j 05:22	11° ♁ 08'21	1°19'29	direct	-3272 Dec 23 j 01:03	26° ♁ 43'50
max. Earth dist.	-3277 Jan 25 j 22:16	11° ♁ 06'04	10.25352 AU		-3271 Feb 22 j 01:05	0° ♁
morning rise	-3277 Feb 12 j 16:59	13° ♁ 21'59		evening set	-3271 Apr 07 j 03:29	5° ♁ 09'52
retrograde	-3277 May 31 j 02:38	21° ♁ 34'41				
opposition	-3277 Aug 08 j 04:52	18° ♁ 05'37	-1°55'45	conjunction	-3271 Apr 25 j 06:43	7° ♁ 33'07
min. Earth dist.	-3277 Aug 08 j 08:28	18° ♁ 04'54	8.18388 AU	minimum elong	-3271 Apr 25 j 06:47	7° ♁ 33'08
direct	-3277 Oct 13 j 21:25	14° ♁ 41'34		max. Earth dist.	-3271 Apr 25 j 22:52	7° ♁ 38'28
evening set	-3276 Jan 22 j 22:55	22° ♁ 33'45		morning rise	-3271 May 13 j 10:31	9° ♁ 56'32
				retrograde	-3271 Aug 27 j 02:42	18° ♁ 23'58
conjunction	-3276 Feb 09 j 08:59	24° ♁ 48'44	-1°44'56	opposition	-3271 Nov 01 j 12:43	14° ♁ 53'26
minimum elong	-3276 Feb 09 j 08:56	24° ♁ 48'43	1°45'03	min. Earth dist.	-3271 Nov 01 j 00:14	14° ♁ 56'03
max. Earth dist.	-3276 Feb 09 j 05:25	24° ♁ 47'34	10.11866 AU	direct	-3270 Jan 07 j 00:36	11° ♁ 23'00
morning rise	-3276 Feb 27 j 00:23	27° ♁ 05'26		evening set	-3270 Apr 22 j 17:06	19° ♁ 47'05
	-3276 Mar 21 j 21:21	0° ♁				
retrograde	-3276 Jun 13 j 20:26	5° ♁ 28'52		conjunction	-3270 May 10 j 21:38	22° ♁ 09'33
opposition	-3276 Aug 21 j 09:57	1° ♁ 58'28	-2°24'48	minimum elong	-3270 May 10 j 21:42	22° ♁ 09'34
min. Earth dist.	-3276 Aug 21 j 10:42	1° ♁ 58'18	8.05952 AU	max. Earth dist.	-3270 May 11 j 14:49	22° ♁ 15'12
	-3276 Sep 16 j 06:17	30° ♁		morning rise	-3270 May 29 j 01:22	24° ♁ 31'43
direct	-3276 Oct 26 j 17:10	28° ♁ 32'54			-3270 Jul 16 j 00:32	0° ♁
	-3276 Dec 05 j 06:38	0° ♁		retrograde	-3270 Sep 10 j 13:04	2° ♁ 48'57
evening set	-3275 Feb 05 j 11:36	6° ♁ 35'55			-3270 Nov 07 j 19:12	30° ♁
				opposition	-3270 Nov 15 j 21:29	29° ♁ 19'49
conjunction	-3275 Feb 23 j 01:35	8° ♁ 53'44	-2°05'00	min. Earth dist.	-3270 Nov 15 j 08:51	29° ♁ 22'27
minimum elong	-3275 Feb 23 j 01:32	8° ♁ 53'43	2°05'06	direct	-3269 Jan 21 j 22:22	25° ♁ 49'23
max. Earth dist.	-3275 Feb 23 j 02:31	8° ♁ 54'02	10.00524 AU		-3269 Apr 02 j 23:27	0° ♁
morning rise	-3275 Mar 12 j 20:30	11° ♁ 13'09		evening set	-3269 May 08 j 00:39	4° ♁ 08'35
	-3275 Apr 13 j 02:14	15° ♁				
retrograde	-3275 Jun 28 j 20:38	19° ♁ 44'57		conjunction	-3269 May 26 j 05:01	6° ♁ 29'22
opposition	-3275 Sep 04 j 21:10	16° ♁ 13'34	-2°45'49	minimum elong	-3269 May 26 j 05:05	6° ♁ 29'23
min. Earth dist.	-3275 Sep 04 j 18:38	16° ♁ 14'05	7.96041 AU	max. Earth dist.	-3269 May 26 j 21:57	6° ♁ 34'51
	-3275 Sep 20 j 01:35	15° ♁		morning rise	-3269 Jun 13 j 07:20	8° ♁ 49'25
direct	-3275 Nov 09 j 21:32	12° ♁ 46'35			-3269 Aug 09 j 12:12	15° ♁
	-3275 Dec 29 j 03:12	15° ♁		retrograde	-3269 Sep 24 j 13:28	16° ♁ 54'30
evening set	-3274 Feb 20 j 11:42	20° ♁ 59'09			-3269 Nov 10 j 11:29	15° ♁
				opposition	-3269 Nov 29 j 23:43	13° ♁ 27'04
conjunction	-3274 Mar 10 j 05:37	23° ♁ 19'24	-2°17'46	min. Earth dist.	-3269 Nov 29 j 11:12	13° ♁ 29'39
minimum elong	-3274 Mar 10 j 05:35	23° ♁ 19'23	2°17'51	direct	-3268 Feb 05 j 15:42	9° ♁ 57'03
max. Earth dist.	-3274 Mar 10 j 11:23	23° ♁ 21'19	9.92058 AU		-3268 Apr 25 j 13:23	15° ♁
morning rise	-3274 Mar 28 j 03:41	25° ♁ 41'00		evening set	-3268 May 21 j 23:03	18° ♁ 09'01
	-3274 May 02 j 23:35	0° ♁				
retrograde	-3274 Jul 14 j 00:39	4° ♁ 17'49		conjunction	-3268 Jun 09 j 01:45	20° ♁ 27'19
opposition	-3274 Sep 19 j 12:35	0° ♁ 45'53	-2°56'44	minimum elong	-3268 Jun 09 j 01:47	20° ♁ 27'20
min. Earth dist.	-3274 Sep 19 j 06:32	0° ♁ 47'09	7.89292 AU	max. Earth dist.	-3268 Jun 09 j 17:43	20° ♁ 32'26
	-3274 Sep 28 j 18:38	30° ♁		morning rise	-3268 Jun 27 j 01:18	22° ♁ 44'31
direct	-3274 Nov 24 j 09:21	27° ♁ 17'38			-3268 Sep 11 j 10:53	0° ♁
	-3273 Jan 18 j 00:25	0° ♁		retrograde	-3268 Oct 07 j 03:33	0° ♁ 36'39
evening set	-3273 Mar 07 j 20:56	5° ♁ 37'41			-3268 Nov 02 j 00:00	30° ♁
				opposition	-3268 Dec 12 j 18:07	27° ♁ 11'06
conjunction	-3273 Mar 25 j 18:31	7° ♁ 59'45	-2°21'55	min. Earth dist.	-3268 Dec 12 j 06:00	27° ♁ 13'33
minimum elong	-3273 Mar 25 j 18:32	7° ♁ 59'45	2°21'57	direct	-3267 Feb 19 j 02:42	23° ♁ 41'50
max. Earth dist.	-3273 Mar 26 j 04:35	8° ♁ 03'06	9.87042 AU		-3267 May 21 j 22:29	0° ♁
morning rise	-3273 Apr 12 j 19:14	10° ♁ 22'49		evening set	-3267 Jun 05 j 10:41	1° ♁ 45'00

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Attention, astronomical year style is used: The year -3267 in astronomical counting style is the year 3268 BCE in historical counting style.

conjunction	-3267 Jun 23 j 10:22	4°♊00'14	-0°08'39	conjunction	-3261 Sep 05 j 22:26	16°♊52'16	2°14'44
minimum elong	-3267 Jun 23 j 10:22	4°♊00'14	0°08'33	minimum elong	-3261 Sep 05 j 22:24	16°♊52'15	2°14'48
behind sun begin	-3267 Jun 23 j 04:03	3°♊58'16		max. Earth dist.	-3261 Sep 05 j 18:52	16°♊51'13	11.10272 AU
behind sun end	-3267 Jun 23 j 16:42	4°♊02'13		morning rise	-3261 Sep 22 j 12:21	18°♊47'45	
max. Earth dist.	-3267 Jun 24 j 00:49	4°♊04'47	10.30827 AU	retrograde	-3261 Dec 30 j 04:10	25°♊37'48	
morning rise	-3267 Jul 11 j 05:54	6°♊14'07		opposition	-3260 Mar 08 j 15:21	22°♊22'07	2°49'26
asc. node	-3267 Sep 30 j 02:37	13°♊30'50		min. Earth dist.	-3260 Mar 08 j 19:35	22°♊21'20	9.14168 AU
retrograde	-3267 Oct 20 j 06:29	13°♊53'19		direct	-3260 May 19 j 08:31	19°♊01'26	
opposition	-3267 Dec 26 j 04:12	10°♊29'43	0°09'21	evening set	-3260 Aug 30 j 14:36	26°♊05'37	
min. Earth dist.	-3267 Dec 25 j 16:54	10°♊31'59	8.38169 AU				
direct	-3266 Mar 05 j 06:03	7°♊01'30		conjunction	-3260 Sep 16 j 05:08	28°♊00'35	2°22'06
evening set	-3266 Jun 19 j 10:25	14°♊55'01		minimum elong	-3260 Sep 16 j 05:07	28°♊00'35	2°22'10
				max. Earth dist.	-3260 Sep 15 j 22:15	27°♊58'35	11.17041 AU
conjunction	-3266 Jul 07 j 05:55	17°♊06'50	0°23'58	morning rise	-3260 Oct 02 j 16:10	29°♊54'36	
minimum elong	-3266 Jul 07 j 05:54	17°♊06'49	0°24'05		-3260 Oct 03 j 11:12	0°♊	
max. Earth dist.	-3266 Jul 07 j 18:34	17°♊10'45	10.45876 AU	retrograde	-3259 Jan 09 j 13:00	6°♊42'36	
morning rise	-3266 Jul 24 j 20:28	19°♊17'06		opposition	-3259 Mar 20 j 10:02	3°♊27'12	2°55'01
retrograde	-3266 Nov 02 j 00:19	26°♊44'14		min. Earth dist.	-3259 Mar 20 j 17:35	3°♊25'49	9.19619 AU
opposition	-3265 Jan 08 j 06:22	23°♊22'32	0°48'23	direct	-3259 May 31 j 04:23	0°♊07'28	
min. Earth dist.	-3265 Jan 07 j 20:48	23°♊24'25	8.53420 AU	evening set	-3259 Sep 10 j 19:39	7°♊07'15	
direct	-3265 Mar 18 j 23:48	19°♊55'32					
evening set	-3265 Jul 02 j 21:42	27°♊39'07		conjunction	-3259 Sep 27 j 07:25	9°♊01'06	2°24'07
				minimum elong	-3259 Sep 27 j 07:25	9°♊01'06	2°24'10
conjunction	-3265 Jul 20 j 12:08	29°♊47'23	0°54'23	max. Earth dist.	-3259 Sep 26 j 21:01	8°♊58'05	11.21083 AU
minimum elong	-3265 Jul 20 j 12:06	29°♊47'22	0°54'30	morning rise	-3259 Oct 13 j 16:39	10°♊54'15	
max. Earth dist.	-3265 Jul 20 j 22:32	29°♊50'33	10.61118 AU	retrograde	-3258 Jan 20 j 20:06	17°♊41'56	
	-3265 Jul 22 j 05:26	0°♊		opposition	-3258 Apr 01 j 03:30	14°♊26'25	2°54'11
morning rise	-3265 Aug 06 j 21:13	1°♊54'02		min. Earth dist.	-3258 Apr 01 j 13:07	14°♊24'40	9.22269 AU
retrograde	-3265 Nov 14 j 10:07	9°♊10'21		direct	-3258 Jun 11 j 20:57	11°♊07'24	
opposition	-3264 Jan 21 j 00:55	5°♊50'24	1°23'45	evening set	-3258 Sep 21 j 20:58	18°♊04'07	
min. Earth dist.	-3264 Jan 20 j 18:05	5°♊51'43	8.68519 AU				
direct	-3264 Mar 31 j 07:19	2°♊24'43		conjunction	-3258 Oct 08 j 07:07	19°♊57'26	2°20'51
evening set	-3264 Jul 14 j 21:03	9°♊58'37		minimum elong	-3258 Oct 08 j 07:08	19°♊57'26	2°20'53
				max. Earth dist.	-3258 Oct 07 j 19:08	19°♊53'58	11.22317 AU
conjunction	-3264 Aug 01 j 05:58	12°♊03'26	1°21'24	morning rise	-3258 Oct 24 j 15:28	21°♊50'18	
minimum elong	-3264 Aug 01 j 05:55	12°♊03'25	1°21'31	retrograde	-3257 Feb 01 j 07:41	28°♊39'20	
max. Earth dist.	-3264 Aug 01 j 12:42	12°♊05'28	10.75815 AU	opposition	-3257 Apr 12 j 21:01	25°♊23'22	2°47'05
morning rise	-3264 Aug 18 j 09:37	14°♊06'40		min. Earth dist.	-3257 Apr 13 j 07:46	25°♊21'24	9.22068 AU
retrograde	-3264 Nov 25 j 09:24	21°♊13'42		direct	-3257 Jun 23 j 12:16	22°♊04'51	
opposition	-3263 Feb 01 j 12:20	17°♊55'16	1°54'10	evening set	-3257 Oct 02 j 20:15	28°♊59'47	
min. Earth dist.	-3263 Feb 01 j 08:35	17°♊55'59	8.82748 AU		-3257 Oct 11 j 14:19	0°♊	
direct	-3263 Apr 13 j 07:24	14°♊30'54					
evening set	-3263 Jul 27 j 09:08	21°♊55'48		conjunction	-3257 Oct 19 j 05:48	0°♊53'11	2°12'27
				minimum elong	-3257 Oct 19 j 05:50	0°♊53'12	2°12'27
conjunction	-3263 Aug 13 j 12:35	23°♊57'26	1°44'08	max. Earth dist.	-3257 Oct 18 j 16:51	0°♊49'25	11.20718 AU
minimum elong	-3263 Aug 13 j 12:32	23°♊57'25	1°44'15	morning rise	-3257 Nov 04 j 14:14	2°♊46'21	
max. Earth dist.	-3263 Aug 13 j 15:03	23°♊58'10	10.89289 AU	retrograde	-3256 Feb 12 j 20:12	9°♊38'21	
morning rise	-3263 Aug 30 j 11:08	25°♊57'35		opposition	-3256 Apr 23 j 15:46	6°♊21'38	2°33'55
	-3263 Oct 07 j 16:02	0°♊		min. Earth dist.	-3256 Apr 24 j 03:47	6°♊19'27	9.19034 AU
retrograde	-3263 Dec 07 j 03:18	2°♊57'06		direct	-3256 Jul 03 j 23:26	3°♊03'24	
	-3262 Feb 09 j 06:47	30°♊		evening set	-3256 Oct 12 j 19:40	9°♊58'04	
opposition	-3262 Feb 13 j 17:47	29°♊39'53	2°18'52				
min. Earth dist.	-3262 Feb 13 j 16:36	29°♊40'06	8.95442 AU	conjunction	-3256 Oct 29 j 05:20	11°♊52'03	1°59'09
direct	-3262 Apr 26 j 00:14	26°♊16'50		minimum elong	-3256 Oct 29 j 05:22	11°♊52'04	1°59'07
	-3262 Jul 06 j 03:18	0°♊		max. Earth dist.	-3256 Oct 28 j 14:26	11°♊47'42	11.16347 AU
evening set	-3262 Aug 08 j 11:01	3°♊33'37		morning rise	-3256 Nov 14 j 14:56	13°♊46'06	
				retrograde	-3255 Feb 23 j 13:10	20°♊42'42	
conjunction	-3262 Aug 25 j 09:27	5°♊32'29	2°02'01	opposition	-3255 May 05 j 12:51	17°♊24'59	2°14'59
minimum elong	-3262 Aug 25 j 09:24	5°♊32'28	2°02'07	min. Earth dist.	-3255 May 06 j 02:32	17°♊22'29	9.13278 AU
max. Earth dist.	-3262 Aug 25 j 08:29	5°♊32'12	11.00931 AU	direct	-3255 Jul 15 j 12:10	14°♊06'46	
morning rise	-3262 Sep 11 j 03:19	7°♊30'01		evening set	-3255 Oct 23 j 20:52	21°♊02'42	
retrograde	-3262 Dec 18 j 17:34	14°♊23'52					
opposition	-3261 Feb 25 j 18:22	11°♊07'34	2°37'21	conjunction	-3255 Nov 09 j 07:30	22°♊57'50	1°41'16
min. Earth dist.	-3261 Feb 25 j 19:34	11°♊07'21	9.06039 AU	minimum elong	-3255 Nov 09 j 07:33	22°♊57'51	1°41'12
direct	-3261 May 08 j 07:38	7°♊45'47		max. Earth dist.	-3255 Nov 08 j 15:29	22°♊53'08	11.09358 AU
evening set	-3261 Aug 20 j 04:18	14°♊55'37		morning rise	-3255 Nov 25 j 19:11	24°♊53'19	
	-3261 Aug 20 j 19:37	15°♊			-3254 Jan 16 j 15:02	0°♊	

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Attention, astronomical year style is used: The year -3254 in astronomical counting style is the year 3255 BCE in historical counting style.

retrograde	-3254 Mar 07 j 11:03	1°♌56'11		minimum elong	-3248 Jan 20 j 11:02	5°♊22'52	1°06'39
	-3254 Apr 28 j 05:47	30°♈♌		max. Earth dist.	-3248 Jan 20 j 04:20	5°♊20'43	10.31391 AU
opposition	-3254 May 17 j 13:43	28°♌37'13	1°50'40	morning rise	-3248 Feb 06 j 20:43	7°♊35'03	
min. Earth dist.	-3254 May 18 j 03:48	28°♌34'37	9.04998 AU	retrograde	-3248 May 23 j 21:54	15°♊42'35	
direct	-3254 Jul 27 j 02:21	25°♌18'50		opposition	-3248 Aug 01 j 07:37	12°♊14'07	-1°40'41
	-3254 Oct 14 j 11:04	0°♌		min. Earth dist.	-3248 Aug 01 j 11:28	12°♊13'21	8.24319 AU
evening set	-3254 Nov 04 j 01:39	2°♌17'34		direct	-3248 Oct 07 j 06:49	8°♊50'44	
				evening set	-3247 Jan 16 j 00:03	16°♊38'02	
conjunction	-3254 Nov 20 j 14:13	4°♌14'21	1°19'13				
minimum elong	-3254 Nov 20 j 14:15	4°♌14'22	1°19'09	conjunction	-3247 Feb 02 j 08:28	18°♊51'41	-1°33'57
max. Earth dist.	-3254 Nov 19 j 22:46	4°♌09'46	10.99970 AU	minimum elong	-3247 Feb 02 j 08:25	18°♊51'40	1°34'04
morning rise	-3254 Dec 07 j 04:33	6°♌11'46		max. Earth dist.	-3247 Feb 02 j 05:34	18°♊50'44	10.17640 AU
retrograde	-3253 Mar 19 j 17:15	13°♌22'33		morning rise	-3247 Feb 19 j 21:57	21°♊07'01	
opposition	-3253 May 29 j 19:16	10°♌02'06	1°21'32	retrograde	-3247 Jun 07 j 13:42	29°♊26'01	
min. Earth dist.	-3253 May 30 j 08:29	9°♌59'39	8.94459 AU	opposition	-3247 Aug 15 j 09:52	25°♊56'16	-2°12'30
direct	-3253 Aug 07 j 20:32	6°♌43'21		min. Earth dist.	-3247 Aug 15 j 10:10	25°♊56'13	8.11434 AU
evening set	-3253 Nov 15 j 12:21	13°♌46'32		direct	-3247 Oct 20 j 21:04	22°♊31'38	
	-3253 Nov 25 j 19:53	15°♌			-3246 Jan 26 j 09:27	0°♊	
				evening set	-3246 Jan 30 j 07:17	0°♊29'54	
conjunction	-3253 Dec 02 j 03:25	15°♌45'28	0°53'33				
minimum elong	-3253 Dec 02 j 03:27	15°♌45'28	0°53'29	conjunction	-3246 Feb 16 j 19:29	2°♊46'29	-1°56'43
max. Earth dist.	-3253 Dec 01 j 12:43	15°♌41'03	10.88485 AU	minimum elong	-3246 Feb 16 j 19:26	2°♊46'28	1°56'49
morning rise	-3253 Dec 18 j 21:00	17°♌45'15		max. Earth dist.	-3246 Feb 16 j 20:23	2°♊46'46	10.05679 AU
retrograde	-3252 Mar 31 j 08:59	25°♌05'25		morning rise	-3246 Mar 06 j 12:41	5°♊04'41	
opposition	-3252 Jun 10 j 06:33	21°♌43'24	0°48'17	retrograde	-3246 Jun 22 j 13:09	13°♊33'10	
min. Earth dist.	-3252 Jun 10 j 18:42	21°♌41'07	8.82022 AU	opposition	-3246 Aug 29 j 18:46	10°♊02'29	-2°37'23
direct	-3252 Aug 18 j 17:26	18°♌24'05		min. Earth dist.	-3246 Aug 29 j 15:55	10°♊03'04	8.00737 AU
evening set	-3252 Nov 26 j 06:51	25°♌33'21		direct	-3246 Nov 03 j 20:10	6°♊36'33	
max. Earth dist.	-3252 Dec 12 j 10:20	27°♌30'24	10.75316 AU	evening set	-3245 Feb 14 j 02:55	14°♊44'58	
					-3245 Feb 16 j 01:18	15°♊	
conjunction	-3252 Dec 13 j 00:46	27°♌34'47	0°25'03				
minimum elong	-3252 Dec 13 j 00:47	27°♌34'48	0°24'58	conjunction	-3245 Mar 03 j 18:55	17°♊04'06	-2°12'56
morning rise	-3252 Dec 29 j 22:10	29°♌37'22		minimum elong	-3245 Mar 03 j 18:53	17°♊04'06	2°13'01
	-3251 Jan 02 j 02:28	0°♊		max. Earth dist.	-3245 Mar 03 j 23:28	17°♊05'37	9.96275 AU
retrograde	-3251 Apr 13 j 08:33	7°♊08'16		morning rise	-3245 Mar 21 j 15:32	19°♊24'44	
opposition	-3251 Jun 23 j 00:59	3°♊44'36	0°11'56	retrograde	-3245 Jul 07 j 17:05	27°♊59'40	
min. Earth dist.	-3251 Jun 23 j 12:12	3°♊42'28	8.68162 AU	opposition	-3245 Sep 13 j 08:50	24°♊28'25	-2°53'00
direct	-3251 Aug 30 j 19:41	0°♊24'30		min. Earth dist.	-3245 Sep 13 j 03:23	24°♊29'32	7.92918 AU
desc. node	-3251 Oct 20 j 13:20	2°♊34'06		direct	-3245 Nov 18 j 04:35	21°♊01'16	
evening set	-3251 Dec 08 j 10:49	7°♊41'27		evening set	-3244 Feb 29 j 08:38	29°♊18'02	
					-3244 Mar 05 j 16:51	0°♊	
conjunction	-3251 Dec 25 j 07:59	9°♊45'43	-0°05'26				
minimum elong	-3251 Dec 25 j 07:59	9°♊45'43	0°05'32	conjunction	-3244 Mar 18 j 04:18	1°♊39'12	-2°21'03
behind sun begin	-3251 Dec 25 j 01:10	9°♊43'39		minimum elong	-3244 Mar 18 j 04:17	1°♊39'12	2°21'06
behind sun end	-3251 Dec 25 j 14:47	9°♊47'48		max. Earth dist.	-3244 Mar 18 j 12:36	1°♊41'57	9.90050 AU
max. Earth dist.	-3251 Dec 24 j 18:46	9°♊41'39	10.60983 AU	morning rise	-3244 Apr 05 j 03:50	4°♊01'35	
morning rise	-3250 Jan 11 j 09:31	11°♊51'22		retrograde	-3244 Jul 21 j 22:04	12°♊39'09	
retrograde	-3250 Apr 26 j 18:05	19°♊34'07		opposition	-3244 Sep 27 j 01:47	9°♊07'45	-2°57'39
opposition	-3250 Jul 06 j 03:09	16°♊08'46	-0°26'13	min. Earth dist.	-3244 Sep 26 j 18:01	9°♊09'22	7.88482 AU
min. Earth dist.	-3250 Jul 06 j 12:55	16°♊06'53	8.53462 AU	direct	-3244 Dec 01 j 20:48	5°♊39'30	
direct	-3250 Sep 12 j 07:26	12°♊47'41		evening set	-3243 Mar 15 j 21:14	14°♊02'03	
evening set	-3250 Dec 21 j 02:15	20°♊13'46					
				conjunction	-3243 Apr 02 j 20:21	16°♊24'33	-2°20'05
conjunction	-3249 Jan 07 j 03:04	22°♊21'06	-0°36'25	minimum elong	-3243 Apr 02 j 20:22	16°♊24'34	2°20'07
minimum elong	-3249 Jan 07 j 03:03	22°♊21'06	0°36'31	max. Earth dist.	-3243 Apr 03 j 07:57	16°♊28'25	9.87403 AU
max. Earth dist.	-3249 Jan 06 j 16:41	22°♊17'51	10.46103 AU	morning rise	-3243 Apr 20 j 22:16	18°♊47'55	
morning rise	-3249 Jan 24 j 08:43	24°♊30'00		retrograde	-3243 Aug 06 j 00:52	27°♊23'56	
	-3249 Mar 16 j 19:45	0°♊		opposition	-3243 Oct 11 j 19:05	23°♊52'49	-2°50'38
retrograde	-3249 May 10 j 14:47	2°♊25'10		min. Earth dist.	-3243 Oct 11 j 09:23	23°♊54'51	7.87660 AU
	-3249 Jul 06 j 04:43	30°♈♊		direct	-3243 Dec 16 j 18:49	20°♊23'41	
opposition	-3249 Jul 19 j 13:15	28°♊58'12	-1°04'28	evening set	-3242 Mar 31 j 12:56	28°♊48'58	
min. Earth dist.	-3249 Jul 19 j 20:32	28°♊56'46	8.38597 AU		-3242 Apr 09 j 13:37	0°♊	
direct	-3249 Sep 25 j 02:37	25°♊36'00					
	-3249 Dec 07 j 00:30	0°♊		conjunction	-3242 Apr 18 j 15:00	1°♊12'03	-2°09'57
evening set	-3248 Jan 03 j 06:26	3°♊12'22		minimum elong	-3242 Apr 18 j 15:03	1°♊12'04	2°09'57
				max. Earth dist.	-3242 Apr 19 j 04:54	1°♊16'40	9.88407 AU
conjunction	-3248 Jan 20 j 11:05	5°♊22'52	-1°06'32	morning rise	-3242 May 06 j 18:29	3°♊35'32	

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Attention, astronomical year style is used: The year -3242 in astronomical counting style is the year 3243 BCE in historical counting style.

retrograde	-3242 Aug 20 j 22:02	12°♊06'08		retrograde	-3236 Nov 08 j 08:45	3°♊59'50	
opposition	-3242 Oct 26 j 10:28	8°♊35'46	-2°32'23	opposition	-3235 Jan 14 j 20:14	0°♊38'49	1°08'45
min. Earth dist.	-3242 Oct 25 j 23:20	8°♊38'06	7.90396 AU	min. Earth dist.	-3235 Jan 14 j 12:56	0°♊40'15	8.60723 AU
direct	-3242 Dec 31 j 18:18	5°♊06'05			-3235 Jan 23 j 03:53	30°♊	
evening set	-3241 Apr 16 j 04:02	13°♊31'02		direct	-3235 Mar 25 j 21:56	27°♊12'09	
					-3235 May 24 j 19:18	0°♊	
conjunction	-3241 May 04 j 08:03	15°♊53'50	-1°51'24	evening set	-3235 Jul 09 j 14:48	4°♊50'45	
minimum elong	-3241 May 04 j 08:07	15°♊53'51	1°51'23				
max. Earth dist.	-3241 May 04 j 23:33	15°♊58'56	9.92931 AU	conjunction	-3235 Jul 27 j 02:19	6°♊57'14	1°10'00
morning rise	-3241 May 22 j 11:58	18°♊16'32		minimum elong	-3235 Jul 27 j 02:16	6°♊57'13	1°10'07
retrograde	-3241 Sep 04 j 12:25	26°♊38'29		max. Earth dist.	-3235 Jul 27 j 09:14	6°♊59'20	10.68078 AU
opposition	-3241 Nov 09 j 21:47	23°♊09'17	-2°04'28	morning rise	-3235 Aug 13 j 08:37	9°♊02'07	
min. Earth dist.	-3241 Nov 09 j 09:28	23°♊11'51	7.96536 AU	retrograde	-3235 Nov 20 j 12:41	16°♊13'30	
direct	-3240 Jan 15 j 16:35	19°♊39'24		opposition	-3234 Jan 27 j 10:45	12°♊53'57	1°41'31
evening set	-3240 Apr 30 j 14:47	28°♊00'59		min. Earth dist.	-3234 Jan 27 j 05:21	12°♊55'00	8.75121 AU
	-3240 May 15 j 22:19	0°♊		direct	-3234 Apr 08 j 01:54	9°♊28'30	
				evening set	-3234 Jul 22 j 07:54	16°♊57'45	
conjunction	-3240 May 18 j 19:28	0°♊22'35	-1°26'02				
minimum elong	-3240 May 18 j 19:32	0°♊22'36	1°25'59	conjunction	-3234 Aug 08 j 14:01	19°♊00'55	1°34'44
max. Earth dist.	-3240 May 19 j 12:01	0°♊27'59	10.00755 AU	minimum elong	-3234 Aug 08 j 13:58	19°♊00'54	1°34'51
morning rise	-3240 Jun 05 j 22:31	2°♊43'36		max. Earth dist.	-3234 Aug 08 j 18:38	19°♊02'18	10.81934 AU
retrograde	-3240 Sep 17 j 18:35	10°♊54'28		morning rise	-3234 Aug 25 j 14:50	21°♊02'33	
opposition	-3240 Nov 23 j 03:20	7°♊26'42	-1°29'18	retrograde	-3234 Dec 02 j 10:23	28°♊05'36	
min. Earth dist.	-3240 Nov 22 j 14:40	7°♊29'19	8.05780 AU	opposition	-3233 Feb 08 j 19:00	24°♊47'20	2°08'50
direct	-3239 Jan 29 j 11:27	3°♊56'56		min. Earth dist.	-3233 Feb 08 j 16:15	24°♊47'51	8.88402 AU
evening set	-3239 May 15 j 17:57	12°♊12'29		direct	-3233 Apr 20 j 21:02	21°♊23'09	
				evening set	-3233 Aug 03 j 14:10	28°♊43'47	
conjunction	-3239 Jun 02 j 21:46	14°♊32'01	-0°55'54		-3233 Aug 14 j 10:19	0°♊	
minimum elong	-3239 Jun 02 j 21:49	14°♊32'02	0°55'49	conjunction	-3233 Aug 20 j 14:59	0°♊43'59	1°54'49
max. Earth dist.	-3239 Jun 03 j 14:13	14°♊37'19	10.11430 AU	minimum elong	-3233 Aug 20 j 14:56	0°♊43'59	1°54'55
	-3239 Jun 06 j 12:35	15°♊		max. Earth dist.	-3233 Aug 20 j 16:34	0°♊44'27	10.94388 AU
morning rise	-3239 Jun 20 j 22:38	16°♊50'35		morning rise	-3233 Sep 06 j 10:52	2°♊42'47	
retrograde	-3239 Oct 01 j 15:00	24°♊48'53		retrograde	-3233 Dec 14 j 01:24	9°♊39'16	
opposition	-3239 Dec 07 j 01:43	21°♊22'45	-0°49'44	opposition	-3232 Feb 20 j 21:45	6°♊22'02	2°30'07
min. Earth dist.	-3239 Dec 06 j 13:50	21°♊25'11	8.17570 AU	min. Earth dist.	-3232 Feb 20 j 22:10	6°♊21'57	9.00047 AU
direct	-3238 Feb 13 j 01:09	17°♊53'23		direct	-3232 May 02 j 07:26	2°♊59'07	
evening set	-3238 May 30 j 11:16	26°♊00'56		evening set	-3232 Aug 14 j 11:12	10°♊12'11	
conjunction	-3238 Jun 17 j 12:36	28°♊17'41	-0°23'16	conjunction	-3232 Aug 31 j 07:11	12°♊09'52	2°09'51
minimum elong	-3238 Jun 17 j 12:37	28°♊17'42	0°23'10	minimum elong	-3232 Aug 31 j 07:09	12°♊09'52	2°09'55
max. Earth dist.	-3238 Jun 18 j 03:31	28°♊22'25	10.24279 AU	max. Earth dist.	-3232 Aug 31 j 04:50	12°♊09'11	11.04984 AU
	-3238 Jun 30 j 23:48	0°♊		morning rise	-3232 Sep 16 j 22:57	14°♊06'20	
morning rise	-3238 Jul 05 j 09:57	0°♊33'10			-3232 Sep 24 j 20:17	15°♊	
retrograde	-3238 Oct 14 j 23:25	8°♊18'29		retrograde	-3232 Dec 24 j 11:31	20°♊58'01	
opposition	-3238 Dec 20 j 16:03	4°♊54'07	-0°08'37	opposition	-3231 Mar 03 j 19:56	17°♊41'34	2°45'01
min. Earth dist.	-3238 Dec 20 j 05:40	4°♊56'13	8.31184 AU	min. Earth dist.	-3231 Mar 03 j 22:40	17°♊41'04	9.09624 AU
direct	-3237 Feb 27 j 09:06	1°♊25'25			-3231 Apr 15 j 00:47	15°♊	
asc. node	-3237 Mar 10 j 10:09	1°♊31'51		direct	-3231 May 14 j 12:18	14°♊19'52	
evening set	-3237 Jun 13 j 16:55	9°♊23'44			-3231 Jun 12 j 16:30	15°♊	
				evening set	-3231 Aug 26 j 00:20	21°♊26'33	
conjunction	-3237 Jul 01 j 14:24	11°♊37'12	0°09'49				
minimum elong	-3237 Jul 01 j 14:24	11°♊37'12	0°09'55	conjunction	-3231 Sep 11 j 16:22	23°♊22'15	2°19'34
behind sun begin	-3237 Jul 01 j 08:33	11°♊35'23		minimum elong	-3231 Sep 11 j 16:21	23°♊22'15	2°19'38
behind sun end	-3237 Jul 01 j 20:15	11°♊39'01		max. Earth dist.	-3231 Sep 11 j 11:24	23°♊20'48	11.13352 AU
max. Earth dist.	-3237 Jul 02 j 02:48	11°♊41'04	10.38530 AU	morning rise	-3231 Sep 28 j 04:46	25°♊16'55	
morning rise	-3237 Jul 19 j 07:19	13°♊49'13			-3231 Nov 14 j 16:30	0°♊	
retrograde	-3237 Oct 27 j 20:23	21°♊22'01		retrograde	-3230 Jan 04 j 21:29	2°♊05'34	
opposition	-3236 Jan 02 j 22:14	17°♊59'24	0°31'33		-3230 Feb 27 j 08:20	30°♊	
min. Earth dist.	-3236 Jan 02 j 13:30	18°♊01'08	8.45834 AU	opposition	-3230 Mar 15 j 15:12	28°♊49'38	2°53'26
direct	-3236 Mar 12 j 08:25	14°♊31'37		min. Earth dist.	-3230 Mar 15 j 19:37	28°♊48'49	9.16800 AU
evening set	-3236 Jun 26 j 09:58	22°♊20'04		direct	-3230 May 26 j 10:53	25°♊29'06	
					-3230 Aug 14 j 02:15	0°♊	
conjunction	-3236 Jul 14 j 02:43	24°♊30'02	0°41'20	evening set	-3230 Sep 06 j 07:06	2°♊30'35	
minimum elong	-3236 Jul 14 j 02:41	24°♊30'02	0°41'28				
max. Earth dist.	-3236 Jul 14 j 12:08	24°♊32'56	10.53385 AU	conjunction	-3230 Sep 22 j 20:07	4°♊24'52	2°23'56
morning rise	-3236 Jul 31 j 14:31	26°♊38'27		minimum elong	-3230 Sep 22 j 20:07	4°♊24'52	2°23'59
	-3236 Aug 30 j 08:02	0°♊					

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Attention, astronomical year style is used: The year -3230 in astronomical counting style is the year 3231 BCE in historical counting style.

max. Earth dist.	-3230 Sep 22 j 13:32	4° $\mathring{\mu}$ 22'57	11.19206 AU	retrograde	-3223 Mar 25 j 23:00	19° $\mathring{\mu}$ 57'58	
morning rise	-3230 Oct 09 j 06:00	6° $\mathring{\mu}$ 18'19		opposition	-3223 Jun 04 j 23:22	16° $\mathring{\mu}$ 37'30	1°03'40
retrograde	-3229 Jan 16 j 05:43	13° $\mathring{\mu}$ 05'42		min. Earth dist.	-3223 Jun 05 j 12:41	16° $\mathring{\mu}$ 35'01	8.91230 AU
opposition	-3229 Mar 27 j 08:46	9° $\mathring{\mu}$ 49'59	2°55'23		-3223 Jun 27 j 18:40	15° $\mathring{\mu}$	
min. Earth dist.	-3229 Mar 27 j 15:18	9° $\mathring{\mu}$ 48'47	9.21339 AU	direct	-3223 Aug 13 j 16:46	13° $\mathring{\mu}$ 19'12	
direct	-3229 Jun 07 j 03:42	6° $\mathring{\mu}$ 30'29			-3223 Sep 27 j 21:32	15° $\mathring{\mu}$	
evening set	-3229 Sep 17 j 09:32	13° $\mathring{\mu}$ 28'05		evening set	-3223 Nov 21 j 07:03	20° $\mathring{\mu}$ 24'09	
conjunction	-3229 Oct 03 j 20:22	15° $\mathring{\mu}$ 21'31	2°22'58	conjunction	-3223 Dec 07 j 23:22	22° $\mathring{\mu}$ 23'57	0°38'14
minimum elong	-3229 Oct 03 j 20:23	15° $\mathring{\mu}$ 21'31	2°23'00	minimum elong	-3223 Dec 07 j 23:24	22° $\mathring{\mu}$ 23'58	0°38'09
max. Earth dist.	-3229 Oct 03 j 11:15	15° $\mathring{\mu}$ 18'52	11.22364 AU	max. Earth dist.	-3223 Dec 07 j 08:44	22° $\mathring{\mu}$ 19'33	10.84895 AU
morning rise	-3229 Oct 20 j 04:55	17° $\mathring{\mu}$ 14'21		morning rise	-3223 Dec 24 j 18:48	24° $\mathring{\mu}$ 24'48	
retrograde	-3228 Jan 27 j 15:13	24° $\mathring{\mu}$ 02'07			-3222 Feb 18 j 18:01	0° $\mathring{\mu}$	
opposition	-3228 Apr 07 j 01:37	20° $\mathring{\mu}$ 46'21	2°50'59	retrograde	-3222 Apr 07 j 16:54	1° $\mathring{\mu}$ 49'06	
min. Earth dist.	-3228 Apr 07 j 10:50	20° $\mathring{\mu}$ 44'41	9.23110 AU		-3222 May 27 j 03:43	30° $\mathring{\mu}$	
direct	-3228 Jun 17 j 17:46	17° $\mathring{\mu}$ 27'39		opposition	-3222 Jun 17 j 13:29	28° $\mathring{\mu}$ 26'59	0°28'44
evening set	-3228 Sep 27 j 09:15	24° $\mathring{\mu}$ 22'46		min. Earth dist.	-3222 Jun 18 j 01:44	28° $\mathring{\mu}$ 24'41	8.78014 AU
conjunction	-3228 Oct 13 j 18:48	26° $\mathring{\mu}$ 15'56	2°16'47	direct	-3222 Aug 25 j 16:36	25° $\mathring{\mu}$ 08'00	
minimum elong	-3228 Oct 13 j 18:50	26° $\mathring{\mu}$ 15'56	2°16'49		-3222 Nov 12 j 22:38	0° $\mathring{\mu}$	
max. Earth dist.	-3228 Oct 13 j 07:01	26° $\mathring{\mu}$ 12'31	11.22735 AU	evening set	-3222 Dec 03 j 05:28	2° $\mathring{\mu}$ 19'48	
morning rise	-3228 Oct 30 j 03:10	28° $\mathring{\mu}$ 08'47		max. Earth dist.	-3222 Dec 19 j 11:34	4° $\mathring{\mu}$ 18'12	10.70942 AU
	-3228 Nov 16 j 00:14	0° $\mathring{\mu}$		conjunction	-3222 Dec 20 j 01:02	4° $\mathring{\mu}$ 22'19	0°08'42
retrograde	-3227 Feb 07 j 00:24	4° $\mathring{\mu}$ 58'36		minimum elong	-3222 Dec 20 j 01:02	4° $\mathring{\mu}$ 22'19	0°08'36
opposition	-3227 Apr 18 j 19:09	1° $\mathring{\mu}$ 42'27	2°40'26	behind sun begin	-3222 Dec 19 j 18:53	4° $\mathring{\mu}$ 20'27	
min. Earth dist.	-3227 Apr 19 j 06:05	1° $\mathring{\mu}$ 40'28	9.22046 AU	behind sun end	-3222 Dec 20 j 07:11	4° $\mathring{\mu}$ 24'10	
	-3227 May 13 j 10:57	30° $\mathring{\mu}$		morning rise	-3221 Jan 06 j 00:17	6° $\mathring{\mu}$ 26'03	
direct	-3227 Jun 29 j 05:44	28° $\mathring{\mu}$ 24'21		desc. node	-3221 Apr 05 j 20:19	13° $\mathring{\mu}$ 50'24	
	-3227 Aug 13 j 14:03	0° $\mathring{\mu}$		retrograde	-3221 Apr 20 j 22:10	14° $\mathring{\mu}$ 01'43	
evening set	-3227 Oct 08 j 07:54	5° $\mathring{\mu}$ 18'24		opposition	-3221 Jun 30 j 10:52	10° $\mathring{\mu}$ 37'51	-0°08'37
conjunction	-3227 Oct 24 j 17:17	7° $\mathring{\mu}$ 11'51	2°05'37	min. Earth dist.	-3221 Jun 30 j 21:25	10° $\mathring{\mu}$ 35'50	8.63416 AU
minimum elong	-3227 Oct 24 j 17:19	7° $\mathring{\mu}$ 11'52	2°05'36	direct	-3221 Sep 06 j 23:24	7° $\mathring{\mu}$ 17'55	
max. Earth dist.	-3227 Oct 24 j 04:31	7° $\mathring{\mu}$ 08'08	11.20294 AU	evening set	-3221 Dec 15 j 14:34	14° $\mathring{\mu}$ 38'10	
morning rise	-3227 Nov 10 j 02:14	9° $\mathring{\mu}$ 05'15		conjunction	-3220 Jan 01 j 13:30	16° $\mathring{\mu}$ 43'40	-0°22'09
retrograde	-3226 Feb 18 j 16:05	15° $\mathring{\mu}$ 58'50		minimum elong	-3220 Jan 01 j 13:29	16° $\mathring{\mu}$ 43'40	0°22'16
opposition	-3226 Apr 30 j 14:33	12° $\mathring{\mu}$ 41'59	2°24'00	max. Earth dist.	-3220 Jan 01 j 01:06	16° $\mathring{\mu}$ 39'50	10.55919 AU
min. Earth dist.	-3226 May 01 j 01:53	12° $\mathring{\mu}$ 39'55	9.18174 AU	morning rise	-3220 Jan 18 j 16:51	18° $\mathring{\mu}$ 50'37	
direct	-3226 Jul 10 j 19:14	9° $\mathring{\mu}$ 24'16		retrograde	-3220 May 03 j 13:29	26° $\mathring{\mu}$ 38'28	
evening set	-3226 Oct 19 j 07:33	16° $\mathring{\mu}$ 18'39		opposition	-3220 Jul 12 j 16:04	23° $\mathring{\mu}$ 12'50	-0°46'52
conjunction	-3226 Nov 04 j 17:40	18° $\mathring{\mu}$ 12'58	1°49'44	min. Earth dist.	-3220 Jul 13 j 00:48	23° $\mathring{\mu}$ 11'08	8.48141 AU
minimum elong	-3226 Nov 04 j 17:43	18° $\mathring{\mu}$ 12'59	1°49'42	direct	-3220 Sep 18 j 12:14	19° $\mathring{\mu}$ 51'41	
max. Earth dist.	-3226 Nov 04 j 04:29	18° $\mathring{\mu}$ 09'07	11.15107 AU	evening set	-3220 Dec 27 j 11:39	27° $\mathring{\mu}$ 21'46	
morning rise	-3226 Nov 21 j 04:05	20° $\mathring{\mu}$ 07'29		conjunction	-3219 Jan 13 j 14:09	29° $\mathring{\mu}$ 30'24	-0°52'47
retrograde	-3225 Mar 02 j 12:20	27° $\mathring{\mu}$ 06'23		minimum elong	-3219 Jan 13 j 14:07	29° $\mathring{\mu}$ 30'23	0°52'54
opposition	-3225 May 12 j 12:58	23° $\mathring{\mu}$ 48'35	2°02'02	max. Earth dist.	-3219 Jan 13 j 03:28	29° $\mathring{\mu}$ 27'02	10.40583 AU
min. Earth dist.	-3225 May 13 j 00:56	23° $\mathring{\mu}$ 46'23	9.11612 AU		-3219 Jan 17 j 11:56	0° $\mathring{\mu}$	
direct	-3225 Jul 22 j 06:33	20° $\mathring{\mu}$ 30'59		morning rise	-3219 Jan 30 j 21:43	1° $\mathring{\mu}$ 40'40	
evening set	-3225 Oct 30 j 10:02	27° $\mathring{\mu}$ 27'15		retrograde	-3219 May 17 j 14:05	9° $\mathring{\mu}$ 41'03	
conjunction	-3225 Nov 15 j 21:32	29° $\mathring{\mu}$ 22'56	1°29'31	opposition	-3219 Jul 26 j 05:43	6° $\mathring{\mu}$ 13'40	-1°24'10
minimum elong	-3225 Nov 15 j 21:35	29° $\mathring{\mu}$ 22'57	1°29'27	min. Earth dist.	-3219 Jul 26 j 12:31	6° $\mathring{\mu}$ 12'19	8.32982 AU
max. Earth dist.	-3225 Nov 15 j 06:59	29° $\mathring{\mu}$ 18'39	11.07326 AU	direct	-3219 Oct 01 j 11:19	2° $\mathring{\mu}$ 51'08	
	-3225 Nov 21 j 03:23	0° $\mathring{\mu}$		evening set	-3218 Jan 09 j 21:41	10° $\mathring{\mu}$ 31'59	
morning rise	-3225 Dec 02 j 10:24	1° $\mathring{\mu}$ 19'06		conjunction	-3218 Jan 27 j 03:59	12° $\mathring{\mu}$ 43'50	-1°21'35
retrograde	-3224 Mar 13 j 13:38	8° $\mathring{\mu}$ 24'55		minimum elong	-3218 Jan 27 j 03:56	12° $\mathring{\mu}$ 43'49	1°21'42
opposition	-3224 May 23 j 15:34	5° $\mathring{\mu}$ 05'53	1°35'03	max. Earth dist.	-3218 Jan 26 j 20:38	12° $\mathring{\mu}$ 41'28	10.25737 AU
min. Earth dist.	-3224 May 24 j 04:31	5° $\mathring{\mu}$ 03'30	9.02546 AU	morning rise	-3218 Feb 13 j 15:38	14° $\mathring{\mu}$ 57'23	
direct	-3224 Aug 01 j 21:35	1° $\mathring{\mu}$ 48'05		retrograde	-3218 May 31 j 23:34	23° $\mathring{\mu}$ 09'53	
evening set	-3224 Nov 09 j 17:16	8° $\mathring{\mu}$ 47'52		opposition	-3218 Aug 09 j 03:20	19° $\mathring{\mu}$ 40'53	-1°58'15
conjunction	-3224 Nov 26 j 06:47	10° $\mathring{\mu}$ 45'23	1°05'27	min. Earth dist.	-3218 Aug 09 j 07:28	19° $\mathring{\mu}$ 40'03	8.18753 AU
minimum elong	-3224 Nov 26 j 06:49	10° $\mathring{\mu}$ 45'24	1°05'23	direct	-3218 Oct 14 j 21:14	16° $\mathring{\mu}$ 16'52	
max. Earth dist.	-3224 Nov 25 j 15:20	10° $\mathring{\mu}$ 40'47	10.97160 AU	evening set	-3217 Jan 23 j 21:25	24° $\mathring{\mu}$ 08'54	
morning rise	-3224 Dec 12 j 22:44	12° $\mathring{\mu}$ 43'40		conjunction	-3217 Feb 10 j 07:39	26° $\mathring{\mu}$ 23'51	-1°46'43
	-3223 Jan 02 j 05:10	15° $\mathring{\mu}$		minimum elong	-3217 Feb 10 j 07:36	26° $\mathring{\mu}$ 23'50	1°46'49

Planetary Phenomena of Saturn from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 16

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

max. Earth dist.	-3217 Feb 10 j 04:28	26° Z 22'49	10.12206 AU	conjunction	-3211 May 11 j 20:13	23° Y 43'38	-1°39'00
morning rise	-3217 Feb 27 j 23:04	28° Z 40'30		minimum elong	-3211 May 11 j 20:17	23° Y 43'39	1°38'58
	-3217 Mar 10 j 12:56	0° \approx		max. Earth dist.	-3211 May 12 j 12:10	23° Y 48'52	9.94896 AU
retrograde	-3217 Jun 15 j 17:58	7° \approx 03'44		morning rise	-3211 May 30 j 00:05	26° Y 05'49	
opposition	-3217 Aug 23 j 08:07	3° \approx 33'22	-2°26'40		-3211 Jul 01 j 10:43	0° B	
min. Earth dist.	-3217 Aug 23 j 08:56	3° \approx 33'12	8.06268 AU	retrograde	-3211 Sep 11 j 10:39	4° B 22'54	
direct	-3217 Oct 28 j 15:33	0° \approx 07'51		opposition	-3211 Nov 16 j 19:06	0° B 53'48	-1°47'00
evening set	-3216 Feb 07 j 10:11	8° \approx 10'45		min. Earth dist.	-3211 Nov 16 j 06:58	0° B 56'19	7.99360 AU
					-3211 Nov 27 j 16:30	30° R Y	
conjunction	-3216 Feb 25 j 00:21	10° \approx 28'33	-2°06'13	direct	-3210 Jan 22 j 20:32	27° Y 23'19	
minimum elong	-3216 Feb 25 j 00:19	10° \approx 28'32	2°06'19		-3210 Mar 18 j 20:20	0° B	
max. Earth dist.	-3216 Feb 25 j 01:48	10° \approx 29'02	10.00805 AU	evening set	-3210 May 08 j 23:11	5° B 42'38	
morning rise	-3216 Mar 13 j 19:13	12° \approx 47'55					
	-3216 Mar 31 j 09:40	15° \approx		conjunction	-3210 May 27 j 03:35	8° B 03'27	-1°10'50
retrograde	-3216 Jun 29 j 19:11	21° \approx 19'31		minimum elong	-3210 May 27 j 03:39	8° B 03'28	1°10'47
opposition	-3216 Sep 05 j 19:06	17° \approx 48'10	-2°46'56	max. Earth dist.	-3210 May 27 j 19:42	8° B 08'41	10.04471 AU
min. Earth dist.	-3216 Sep 05 j 16:13	17° \approx 48'46	7.96294 AU	morning rise	-3210 Jun 14 j 05:57	10° B 23'31	
	-3216 Oct 15 j 12:50	15° R \approx			-3210 Jul 23 j 23:34	15° B	
direct	-3216 Nov 10 j 18:57	14° \approx 21'13		retrograde	-3210 Sep 25 j 11:05	18° B 28'30	
	-3216 Dec 06 j 19:24	15° \approx		opposition	-3210 Nov 30 j 21:17	15° B 01'04	-1°09'07
evening set	-3215 Feb 21 j 10:18	22° \approx 33'44		min. Earth dist.	-3210 Nov 30 j 08:41	15° B 03'40	8.10246 AU
					-3210 Dec 01 j 02:30	15° R B	
conjunction	-3215 Mar 11 j 04:19	24° \approx 53'57	-2°18'21	direct	-3209 Feb 06 j 14:21	11° B 31'01	
minimum elong	-3215 Mar 11 j 04:18	24° \approx 53'57	2°18'25		-3209 Apr 12 j 13:25	15° B	
max. Earth dist.	-3215 Mar 11 j 10:15	24° \approx 55'55	9.92276 AU	evening set	-3209 May 23 j 21:38	19° B 43'08	
morning rise	-3215 Mar 29 j 02:20	27° \approx 15'31					
	-3215 Apr 20 j 00:55	0° H		conjunction	-3209 Jun 11 j 00:23	22° B 01'27	-0°39'04
retrograde	-3215 Jul 14 j 23:45	5° H 52'09		minimum elong	-3209 Jun 11 j 00:25	22° B 01'28	0°38'59
opposition	-3215 Sep 20 j 10:23	2° H 20'15	-2°57'01	max. Earth dist.	-3209 Jun 11 j 16:14	22° B 06'32	10.16638 AU
min. Earth dist.	-3215 Sep 20 j 04:09	2° H 21'33	7.89481 AU	morning rise	-3209 Jun 28 j 23:48	24° B 18'40	
	-3215 Oct 21 j 06:07	30° R \approx			-3209 Aug 20 j 10:58	0° II	
direct	-3215 Nov 25 j 06:38	28° \approx 52'00		retrograde	-3209 Oct 09 j 00:42	2° II 10'45	
	-3215 Dec 29 j 21:59	0° H			-3209 Nov 28 j 23:07	30° R B	
evening set	-3214 Mar 08 j 19:32	7° H 12'03		opposition	-3209 Dec 14 j 15:46	28° B 45'12	-0°28'19
				min. Earth dist.	-3209 Dec 14 j 03:19	28° B 47'43	8.23373 AU
conjunction	-3214 Mar 26 j 17:12	9° H 34'06	-2°21'48	direct	-3208 Feb 21 j 01:36	25° B 15'54	
minimum elong	-3214 Mar 26 j 17:12	9° H 34'06	2°21'51		-3208 May 08 j 22:56	0° II	
max. Earth dist.	-3214 Mar 27 j 02:53	9° H 37'19	9.87201 AU	evening set	-3208 Jun 06 j 09:13	3° II 19'14	
morning rise	-3214 Apr 13 j 17:57	11° H 57'10					
retrograde	-3214 Jul 30 j 04:20	20° H 34'45		conjunction	-3208 Jun 24 j 08:54	5° II 34'29	-0°05'59
opposition	-3214 Oct 05 j 03:34	17° H 02'49	-2°55'39	minimum elong	-3208 Jun 24 j 08:53	5° II 34'29	0°05'53
min. Earth dist.	-3214 Oct 04 j 18:54	17° H 04'38	7.86293 AU	behind sun begin	-3208 Jun 24 j 01:57	5° II 32'19	
direct	-3214 Dec 10 j 00:51	13° H 33'30		behind sun end	-3208 Jun 24 j 15:50	5° II 36'39	
evening set	-3213 Mar 24 j 10:15	21° H 58'15		max. Earth dist.	-3208 Jun 24 j 23:47	5° II 39'10	10.30637 AU
				morning rise	-3208 Jul 12 j 04:09	7° II 48'20	
conjunction	-3213 Apr 11 j 11:05	24° H 21'21	-2°16'01	asc. node	-3208 Aug 31 j 03:38	13° II 11'04	
minimum elong	-3213 Apr 11 j 11:07	24° H 21'22	2°16'02	retrograde	-3208 Oct 21 j 04:54	15° II 27'37	
max. Earth dist.	-3213 Apr 11 j 23:45	24° H 25'34	9.85935 AU	opposition	-3208 Dec 27 j 02:02	12° II 04'00	0°12'40
morning rise	-3213 Apr 29 j 13:54	26° H 45'04		min. Earth dist.	-3208 Dec 26 j 14:48	12° II 06'15	8.37958 AU
	-3213 May 25 j 17:50	0° Y		direct	-3207 Mar 06 j 03:24	8° II 35'44	
retrograde	-3213 Aug 14 j 05:28	5° Y 19'23		evening set	-3207 Jun 20 j 08:55	16° II 29'26	
opposition	-3213 Oct 19 j 20:25	1° Y 47'57	-2°42'39				
min. Earth dist.	-3213 Oct 19 j 10:02	1° Y 50'08	7.86953 AU	conjunction	-3207 Jul 08 j 04:17	18° II 41'15	0°26'37
	-3213 Nov 11 j 08:59	30° R H		minimum elong	-3207 Jul 08 j 04:16	18° II 41'15	0°26'44
direct	-3213 Dec 24 j 23:00	28° H 17'52		max. Earth dist.	-3207 Jul 08 j 17:16	18° II 45'16	10.45650 AU
	-3212 Feb 06 j 01:16	0° Y		morning rise	-3207 Jul 25 j 18:34	20° II 51'30	
evening set	-3212 Apr 08 j 02:12	6° Y 43'59		retrograde	-3207 Nov 02 j 23:28	28° II 18'44	
				opposition	-3206 Jan 09 j 04:24	24° II 57'01	0°51'34
conjunction	-3212 Apr 26 j 05:25	9° Y 07'15	-2°01'21	min. Earth dist.	-3206 Jan 08 j 19:30	24° II 58'47	8.53186 AU
minimum elong	-3212 Apr 26 j 05:28	9° Y 07'16	2°01'21	direct	-3206 Mar 19 j 20:40	21° II 29'59	
max. Earth dist.	-3212 Apr 26 j 20:17	9° Y 12'10	9.88565 AU	evening set	-3206 Jul 03 j 20:20	29° II 13'48	
morning rise	-3212 May 14 j 09:21	11° Y 30'40			-3206 Jul 10 j 05:34	0° B	
retrograde	-3212 Aug 28 j 00:15	19° Y 57'55					
opposition	-3212 Nov 02 j 10:22	16° Y 27'26	-2°19'05	conjunction	-3206 Jul 21 j 10:28	1° B 22'03	0°56'51
min. Earth dist.	-3212 Nov 01 j 22:51	16° Y 29'51	7.91413 AU	minimum elong	-3206 Jul 21 j 10:26	1° B 22'02	0°56'59
direct	-3211 Jan 07 j 22:33	12° Y 56'57		max. Earth dist.	-3206 Jul 21 j 20:20	1° B 25'04	10.60874 AU
evening set	-3211 Apr 23 j 15:42	21° Y 21'08		morning rise	-3206 Aug 07 j 19:22	3° B 28'42	

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

retrograde	-3206 Nov 15 j 07:07	10° $\mathring{\text{D}}$ 45'08		retrograde	-3199 Jan 21 j 19:47	19° $\mathring{\text{M}}$ 17'03	
opposition	-3205 Jan 21 j 23:07	7° $\mathring{\text{D}}$ 25'12	1°26'39	opposition	-3199 Apr 02 j 02:20	16° $\mathring{\text{M}}$ 01'32	2°53'41
min. Earth dist.	-3205 Jan 21 j 16:44	7° $\mathring{\text{D}}$ 26'26	8.68283 AU	min. Earth dist.	-3199 Apr 02 j 10:58	15° $\mathring{\text{M}}$ 59'58	9.22511 AU
direct	-3205 Apr 02 j 06:00	3° $\mathring{\text{D}}$ 59'29		direct	-3199 Jun 12 j 21:02	12° $\mathring{\text{M}}$ 42'36	
evening set	-3205 Jul 16 j 19:41	11° $\mathring{\text{D}}$ 33'38		evening set	-3199 Sep 22 j 18:52	19° $\mathring{\text{M}}$ 39'04	
conjunction	-3205 Aug 03 j 04:16	13° $\mathring{\text{D}}$ 38'24	1°23'36	conjunction	-3199 Oct 09 j 05:04	21° $\mathring{\text{M}}$ 32'22	2°20'11
minimum elong	-3205 Aug 03 j 04:13	13° $\mathring{\text{D}}$ 38'23	1°23'43	minimum elong	-3199 Oct 09 j 05:06	21° $\mathring{\text{M}}$ 32'22	2°20'12
max. Earth dist.	-3205 Aug 03 j 10:18	13° $\mathring{\text{D}}$ 40'13	10.75582 AU	max. Earth dist.	-3199 Oct 08 j 18:04	21° $\mathring{\text{M}}$ 29'10	11.22580 AU
morning rise	-3205 Aug 20 j 07:46	15° $\mathring{\text{D}}$ 41'38		morning rise	-3199 Oct 25 j 13:20	23° $\mathring{\text{M}}$ 25'12	
retrograde	-3205 Nov 27 j 07:33	22° $\mathring{\text{D}}$ 48'52			-3198 Jan 16 j 04:28	0° $\mathring{\text{D}}$	
opposition	-3204 Feb 03 j 10:50	19° $\mathring{\text{D}}$ 30'25	1°56'40	retrograde	-3198 Feb 02 j 05:55	0° $\mathring{\text{D}}$ 14'10	
min. Earth dist.	-3204 Feb 03 j 06:34	19° $\mathring{\text{D}}$ 31'14	8.82540 AU		-3198 Feb 19 j 10:22	30° $\mathring{\text{R}}$ $\mathring{\text{M}}$	
direct	-3204 Apr 14 j 07:17	16° $\mathring{\text{D}}$ 06'04		opposition	-3198 Apr 13 j 19:55	26° $\mathring{\text{M}}$ 58'14	2°45'57
evening set	-3204 Jul 28 j 07:35	23° $\mathring{\text{D}}$ 31'07		min. Earth dist.	-3198 Apr 14 j 06:16	26° $\mathring{\text{M}}$ 56'21	9.22344 AU
				direct	-3198 Jun 24 j 09:26	23° $\mathring{\text{M}}$ 39'50	
conjunction	-3204 Aug 14 j 10:49	25° $\mathring{\text{D}}$ 32'43	1°45'58		-3198 Sep 28 j 15:32	0° $\mathring{\text{D}}$	
minimum elong	-3204 Aug 14 j 10:46	25° $\mathring{\text{D}}$ 32'42	1°46'04	evening set	-3198 Oct 03 j 18:07	0° $\mathring{\text{D}}$ 34'30	
max. Earth dist.	-3204 Aug 14 j 13:43	25° $\mathring{\text{D}}$ 33'35	10.89109 AU				
morning rise	-3204 Aug 31 j 09:10	27° $\mathring{\text{D}}$ 32'51		conjunction	-3198 Oct 20 j 03:36	2° $\mathring{\text{D}}$ 27'52	2°11'17
	-3204 Sep 22 j 09:06	0° $\mathring{\text{D}}$		minimum elong	-3198 Oct 20 j 03:38	2° $\mathring{\text{D}}$ 27'52	2°11'17
retrograde	-3204 Dec 08 j 02:16	4° $\mathring{\text{D}}$ 32'34		max. Earth dist.	-3198 Oct 19 j 14:32	2° $\mathring{\text{D}}$ 24'04	11.21014 AU
opposition	-3203 Feb 14 j 16:26	1° $\mathring{\text{D}}$ 15'20	2°20'51	morning rise	-3198 Nov 05 j 12:07	4° $\mathring{\text{D}}$ 21'01	
min. Earth dist.	-3203 Feb 14 j 14:18	1° $\mathring{\text{D}}$ 15'44	8.95305 AU	retrograde	-3197 Feb 13 j 18:40	11° $\mathring{\text{D}}$ 12'58	
	-3203 Mar 03 j 18:16	30° $\mathring{\text{R}}$ $\mathring{\text{D}}$		opposition	-3197 Apr 25 j 14:44	7° $\mathring{\text{D}}$ 56'17	2°32'12
direct	-3203 Apr 26 j 22:17	27° $\mathring{\text{D}}$ 52'19		min. Earth dist.	-3197 Apr 26 j 03:07	7° $\mathring{\text{D}}$ 54'02	9.19341 AU
	-3203 Jun 18 j 15:33	0° $\mathring{\text{D}}$		direct	-3197 Jul 05 j 22:11	4° $\mathring{\text{D}}$ 38'08	
evening set	-3203 Aug 09 j 09:28	5° $\mathring{\text{D}}$ 09'10		evening set	-3197 Oct 14 j 17:24	11° $\mathring{\text{D}}$ 32'31	
				max. Earth dist.	-3197 Oct 30 j 12:00	13° $\mathring{\text{D}}$ 22'05	11.16674 AU
conjunction	-3203 Aug 26 j 07:46	7° $\mathring{\text{D}}$ 08'00	2°03'25				
minimum elong	-3203 Aug 26 j 07:43	7° $\mathring{\text{D}}$ 07'59	2°03'29	conjunction	-3197 Oct 31 j 03:03	13° $\mathring{\text{D}}$ 26'29	1°57'32
max. Earth dist.	-3203 Aug 26 j 08:02	7° $\mathring{\text{D}}$ 08'05	11.00848 AU	minimum elong	-3197 Oct 31 j 03:06	13° $\mathring{\text{D}}$ 26'29	1°57'30
morning rise	-3203 Sep 12 j 01:20	9° $\mathring{\text{D}}$ 05'30		morning rise	-3197 Nov 16 j 12:53	15° $\mathring{\text{D}}$ 20'32	
	-3203 Nov 15 j 05:37	15° $\mathring{\text{D}}$		retrograde	-3196 Feb 25 j 10:47	22° $\mathring{\text{D}}$ 17'03	
retrograde	-3203 Dec 19 j 15:55	15° $\mathring{\text{D}}$ 59'29		opposition	-3196 May 06 j 11:39	18° $\mathring{\text{D}}$ 59'20	2°12'45
	-3202 Jan 23 j 20:05	15° $\mathring{\text{R}}$ $\mathring{\text{D}}$		min. Earth dist.	-3196 May 07 j 01:13	18° $\mathring{\text{D}}$ 56'51	9.13610 AU
opposition	-3202 Feb 26 j 17:11	12° $\mathring{\text{D}}$ 43'10	2°38'46	direct	-3196 Jul 16 j 10:41	15° $\mathring{\text{D}}$ 41'13	
min. Earth dist.	-3202 Feb 26 j 18:10	12° $\mathring{\text{D}}$ 42'59	9.06018 AU	evening set	-3196 Oct 24 j 18:24	22° $\mathring{\text{D}}$ 36'50	
direct	-3202 May 09 j 06:09	9° $\mathring{\text{D}}$ 21'25					
	-3202 Aug 07 j 11:55	15° $\mathring{\text{D}}$		conjunction	-3196 Nov 10 j 05:14	24° $\mathring{\text{D}}$ 31'57	1°39'16
evening set	-3202 Aug 21 j 02:44	16° $\mathring{\text{D}}$ 31'13		minimum elong	-3196 Nov 10 j 05:17	24° $\mathring{\text{D}}$ 31'58	1°39'13
				max. Earth dist.	-3196 Nov 09 j 14:04	24° $\mathring{\text{D}}$ 27'30	11.09698 AU
conjunction	-3202 Sep 06 j 20:38	18° $\mathring{\text{D}}$ 27'48	2°15'38	morning rise	-3196 Nov 26 j 17:01	26° $\mathring{\text{D}}$ 27'26	
minimum elong	-3202 Sep 06 j 20:36	18° $\mathring{\text{D}}$ 27'47	2°15'42		-3196 Dec 30 j 00:53	0° $\mathring{\text{M}}$	
max. Earth dist.	-3202 Sep 06 j 17:23	18° $\mathring{\text{D}}$ 26'51	11.10311 AU	retrograde	-3195 Mar 08 j 09:40	3° $\mathring{\text{M}}$ 30'13	
morning rise	-3202 Sep 23 j 10:22	20° $\mathring{\text{D}}$ 23'14		opposition	-3195 May 18 j 12:14	0° $\mathring{\text{M}}$ 11'14	1°48'01
retrograde	-3202 Dec 31 j 03:06	27° $\mathring{\text{D}}$ 13'19		min. Earth dist.	-3195 May 19 j 01:32	0° $\mathring{\text{M}}$ 08'47	9.05332 AU
opposition	-3201 Mar 10 j 14:23	23° $\mathring{\text{D}}$ 57'39	2°50'13		-3195 May 21 j 01:15	30° $\mathring{\text{R}}$ $\mathring{\text{D}}$	
min. Earth dist.	-3201 Mar 10 j 18:50	23° $\mathring{\text{D}}$ 56'49	9.14266 AU	direct	-3195 Jul 28 j 01:43	26° $\mathring{\text{D}}$ 52'56	
direct	-3201 May 21 j 06:59	20° $\mathring{\text{D}}$ 37'01			-3195 Sep 29 j 11:34	0° $\mathring{\text{M}}$	
evening set	-3201 Sep 01 j 12:51	27° $\mathring{\text{D}}$ 41'02		evening set	-3195 Nov 04 j 23:05	3° $\mathring{\text{M}}$ 51'21	
conjunction	-3201 Sep 18 j 03:06	29° $\mathring{\text{D}}$ 35'57	2°22'29	conjunction	-3195 Nov 21 j 11:49	5° $\mathring{\text{M}}$ 48'08	1°16'54
minimum elong	-3201 Sep 18 j 03:06	29° $\mathring{\text{D}}$ 35'56	2°22'32	minimum elong	-3195 Nov 21 j 11:51	5° $\mathring{\text{M}}$ 48'09	1°16'50
max. Earth dist.	-3201 Sep 17 j 19:58	29° $\mathring{\text{D}}$ 33'52	11.17185 AU	max. Earth dist.	-3195 Nov 20 j 21:03	5° $\mathring{\text{M}}$ 43'46	11.00304 AU
	-3201 Sep 21 j 13:55	0° $\mathring{\text{M}}$		morning rise	-3195 Dec 08 j 02:13	7° $\mathring{\text{M}}$ 45'32	
morning rise	-3201 Oct 04 j 14:08	1° $\mathring{\text{M}}$ 29'56		retrograde	-3194 Mar 20 j 16:38	14° $\mathring{\text{M}}$ 56'11	
retrograde	-3200 Jan 11 j 10:07	8° $\mathring{\text{M}}$ 17'57		opposition	-3194 May 30 j 17:40	11° $\mathring{\text{M}}$ 35'45	1°18'33
opposition	-3200 Mar 21 j 09:03	5° $\mathring{\text{M}}$ 02'32	2°55'09	min. Earth dist.	-3194 May 31 j 06:20	11° $\mathring{\text{M}}$ 33'24	8.94786 AU
min. Earth dist.	-3200 Mar 21 j 16:11	5° $\mathring{\text{M}}$ 01'14	9.19805 AU	direct	-3194 Aug 08 j 18:00	8° $\mathring{\text{M}}$ 17'05	
direct	-3200 Jun 01 j 03:27	1° $\mathring{\text{M}}$ 42'51			-3194 Nov 13 j 13:29	15° $\mathring{\text{M}}$	
evening set	-3200 Sep 11 j 17:41	8° $\mathring{\text{M}}$ 42'27		evening set	-3194 Nov 16 j 09:43	15° $\mathring{\text{M}}$ 19'56	
				max. Earth dist.	-3194 Dec 02 j 09:43	17° $\mathring{\text{M}}$ 14'18	10.88813 AU
conjunction	-3200 Sep 28 j 05:24	10° $\mathring{\text{M}}$ 36'15	2°23'58				
minimum elong	-3200 Sep 28 j 05:24	10° $\mathring{\text{M}}$ 36'15	2°24'00	conjunction	-3194 Dec 03 j 00:49	17° $\mathring{\text{M}}$ 18'49	0°51'01
max. Earth dist.	-3200 Sep 27 j 19:42	10° $\mathring{\text{M}}$ 33'26	11.21302 AU	minimum elong	-3194 Dec 03 j 00:51	17° $\mathring{\text{M}}$ 18'50	0°50'57
morning rise	-3200 Oct 14 j 14:35	12° $\mathring{\text{M}}$ 29'22		morning rise	-3194 Dec 19 j 18:37	19° $\mathring{\text{M}}$ 18'37	

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Attention, astronomical year style is used: The year -3193 in astronomical counting style is the year 3194 BCE in historical counting style.

retrograde	-3193 Apr 02 j 06:19	26° \mathbb{M} 38'38		minimum elong	-3187 Feb 17 j 16:17	4° \approx 17'24	1°58'13
opposition	-3193 Jun 12 j 04:52	23° \mathbb{M} 16'37	0°45'05	max. Earth dist.	-3187 Feb 17 j 16:05	4° \approx 17'20	10.05706 AU
min. Earth dist.	-3193 Jun 12 j 17:19	23° \mathbb{M} 14'17	8.82343 AU	morning rise	-3187 Mar 07 j 09:40	6° \approx 35'39	
direct	-3193 Aug 20 j 14:29	19° \mathbb{M} 57'20			-3187 Jun 14 j 18:43	15° \approx	
evening set	-3193 Nov 28 j 04:03	27° \mathbb{M} 06'19		retrograde	-3187 Jun 23 j 10:42	15° \approx 04'02	
					-3187 Jul 02 j 01:02	15° \mathbb{R} \approx	
conjunction	-3193 Dec 14 j 22:02	29° \mathbb{M} 07'43	0°22'24	opposition	-3187 Aug 30 j 15:14	11° \approx 33'20	-2°38'46
minimum elong	-3193 Dec 14 j 22:03	29° \mathbb{M} 07'43	0°22'19	min. Earth dist.	-3187 Aug 30 j 13:16	11° \approx 33'44	8.00723 AU
max. Earth dist.	-3193 Dec 14 j 07:18	29° \mathbb{M} 03'15	10.75637 AU	direct	-3187 Nov 04 j 16:33	8° \approx 07'19	
	-3193 Dec 22 j 02:04	0° \mathbb{Z}			-3186 Feb 05 j 01:42	15° \approx	
morning rise	-3193 Dec 31 j 19:42	1° \mathbb{Z} 10'17		evening set	-3186 Feb 14 j 23:41	16° \approx 15'49	
retrograde	-3192 Apr 14 j 05:49	8° \mathbb{Z} 41'02					
opposition	-3192 Jun 23 j 22:57	5° \mathbb{Z} 17'22	0°08'39	conjunction	-3186 Mar 04 j 15:45	18° \approx 34'58	-2°13'46
min. Earth dist.	-3192 Jun 24 j 10:38	5° \mathbb{Z} 15'09	8.68470 AU	minimum elong	-3186 Mar 04 j 15:43	18° \approx 34'57	2°13'51
direct	-3192 Aug 31 j 18:28	1° \mathbb{Z} 57'15		max. Earth dist.	-3186 Mar 04 j 19:38	18° \approx 36'15	9.96224 AU
desc. node	-3192 Sep 18 j 19:58	2° \mathbb{Z} 14'25		morning rise	-3186 Mar 22 j 12:29	20° \approx 55'37	
evening set	-3192 Dec 09 j 07:54	9° \mathbb{Z} 13'57		retrograde	-3186 Jul 08 j 13:35	29° \approx 30'30	
				opposition	-3186 Sep 14 j 05:11	25° \approx 59'15	-2°53'38
conjunction	-3192 Dec 26 j 05:14	11° \mathbb{Z} 18'12	-0°08'04	min. Earth dist.	-3186 Sep 14 j 00:24	26° \approx 00'15	7.92833 AU
minimum elong	-3192 Dec 26 j 05:13	11° \mathbb{Z} 18'11	0°08'10	direct	-3186 Nov 19 j 02:06	22° \approx 32'02	
behind sun begin	-3192 Dec 25 j 22:56	11° \mathbb{Z} 16'16			-3185 Feb 23 j 21:39	0° \mathbb{H}	
behind sun end	-3192 Dec 26 j 11:30	11° \mathbb{Z} 20'07		evening set	-3185 Mar 02 j 05:34	0° \mathbb{H} 49'00	
max. Earth dist.	-3192 Dec 25 j 16:33	11° \mathbb{Z} 14'17	10.61273 AU				
morning rise	-3191 Jan 12 j 06:50	13° \mathbb{Z} 23'49		conjunction	-3185 Mar 20 j 01:25	3° \mathbb{H} 10'12	-2°21'14
retrograde	-3191 Apr 27 j 15:34	21° \mathbb{Z} 06'24		minimum elong	-3185 Mar 20 j 01:24	3° \mathbb{H} 10'12	2°21'17
opposition	-3191 Jul 07 j 00:40	17° \mathbb{Z} 41'02	-0°29'25	max. Earth dist.	-3185 Mar 20 j 09:37	3° \mathbb{H} 12'56	9.89943 AU
min. Earth dist.	-3191 Jul 07 j 10:18	17° \mathbb{Z} 39'11	8.53735 AU	morning rise	-3185 Apr 07 j 01:02	5° \mathbb{H} 32'37	
direct	-3191 Sep 13 j 04:46	14° \mathbb{Z} 19'57		retrograde	-3185 Jul 23 j 17:44	14° \mathbb{H} 10'10	
evening set	-3191 Dec 21 j 23:11	21° \mathbb{Z} 45'48		opposition	-3185 Sep 28 j 22:00	10° \mathbb{H} 38'47	-2°57'29
				min. Earth dist.	-3185 Sep 28 j 14:20	10° \mathbb{H} 40'23	7.88362 AU
conjunction	-3190 Jan 08 j 00:10	23° \mathbb{Z} 53'06	-0°38'55	direct	-3185 Dec 03 j 18:36	7° \mathbb{H} 10'31	
minimum elong	-3190 Jan 08 j 00:08	23° \mathbb{Z} 53'06	0°39'02	evening set	-3184 Mar 16 j 18:20	15° \mathbb{H} 33'16	
max. Earth dist.	-3190 Jan 07 j 14:29	23° \mathbb{Z} 50'05	10.46345 AU				
morning rise	-3190 Jan 25 j 05:46	26° \mathbb{Z} 01'58		conjunction	-3184 Apr 03 j 17:41	17° \mathbb{H} 55'51	-2°19'37
	-3190 Mar 01 j 03:44	0° \mathbb{Z}		minimum elong	-3184 Apr 03 j 17:43	17° \mathbb{H} 55'51	2°19'39
retrograde	-3190 May 11 j 11:51	3° \mathbb{Z} 57'00		max. Earth dist.	-3184 Apr 04 j 05:46	17° \mathbb{H} 59'52	9.87290 AU
opposition	-3190 Jul 20 j 10:28	0° \mathbb{Z} 29'59	-1°07'26	morning rise	-3184 Apr 21 j 19:37	20° \mathbb{H} 19'14	
min. Earth dist.	-3190 Jul 20 j 17:07	0° \mathbb{Z} 28'40	8.38819 AU	retrograde	-3184 Aug 06 j 20:08	28° \mathbb{H} 55'14	
	-3190 Jul 26 j 20:01	30° \mathbb{R} \mathbb{Z}		opposition	-3184 Oct 12 j 15:24	25° \mathbb{H} 24'08	-2°49'39
direct	-3190 Sep 25 j 23:55	27° \mathbb{Z} 07'47		min. Earth dist.	-3184 Oct 12 j 05:11	25° \mathbb{H} 26'16	7.87576 AU
	-3190 Nov 22 j 17:43	0° \mathbb{Z}		direct	-3184 Dec 17 j 15:18	21° \mathbb{H} 55'00	
evening set	-3189 Jan 04 j 03:19	4° \mathbb{Z} 43'57			-3183 Mar 29 j 19:10	0° \mathbb{Y}	
				evening set	-3183 Apr 01 j 10:05	0° \mathbb{Y} 20'23	
conjunction	-3189 Jan 21 j 08:00	6° \mathbb{Z} 54'27	-1°08'47				
minimum elong	-3189 Jan 21 j 07:58	6° \mathbb{Z} 54'26	1°08'54	conjunction	-3183 Apr 19 j 12:21	2° \mathbb{Y} 43'32	-2°08'52
max. Earth dist.	-3189 Jan 21 j 01:07	6° \mathbb{Z} 52'15	10.31574 AU	minimum elong	-3183 Apr 19 j 12:24	2° \mathbb{Y} 43'33	2°08'51
morning rise	-3189 Feb 07 j 17:40	9° \mathbb{Z} 06'35		max. Earth dist.	-3183 Apr 20 j 03:07	2° \mathbb{Y} 48'26	9.88375 AU
retrograde	-3189 May 25 j 18:51	17° \mathbb{Z} 14'00		morning rise	-3183 May 07 j 15:48	5° \mathbb{Y} 07'01	
opposition	-3189 Aug 03 j 04:33	13° \mathbb{Z} 45'29	-1°43'16	retrograde	-3183 Aug 21 j 18:15	13° \mathbb{Y} 37'29	
min. Earth dist.	-3189 Aug 03 j 08:10	13° \mathbb{Z} 44'46	8.24471 AU	opposition	-3183 Oct 27 j 06:48	10° \mathbb{Y} 07'06	-2°30'40
direct	-3189 Oct 09 j 03:43	10° \mathbb{Z} 22'04		min. Earth dist.	-3183 Oct 26 j 19:07	10° \mathbb{Y} 09'33	7.90412 AU
evening set	-3188 Jan 17 j 21:01	18° \mathbb{Z} 09'16		direct	-3182 Jan 01 j 13:40	6° \mathbb{Y} 37'24	
				evening set	-3182 Apr 17 j 01:14	15° \mathbb{Y} 02'19	
conjunction	-3188 Feb 04 j 05:23	20° \mathbb{Z} 22'53	-1°35'50				
minimum elong	-3188 Feb 04 j 05:19	20° \mathbb{Z} 22'52	1°35'57	conjunction	-3182 May 05 j 05:25	17° \mathbb{Y} 25'08	-1°49'47
max. Earth dist.	-3188 Feb 04 j 01:30	20° \mathbb{Z} 21'38	10.17750 AU	minimum elong	-3182 May 05 j 05:29	17° \mathbb{Y} 25'10	1°49'45
morning rise	-3188 Feb 21 j 18:58	22° \mathbb{Z} 38'12		max. Earth dist.	-3182 May 05 j 21:27	17° \mathbb{Y} 30'26	9.92990 AU
	-3188 May 06 j 06:42	0° \approx		morning rise	-3182 May 23 j 09:17	19° \mathbb{Y} 47'50	
retrograde	-3188 Jun 08 j 11:22	0° \approx 57'05		retrograde	-3182 Sep 05 j 10:07	28° \mathbb{Y} 09'32	
	-3188 Jul 11 j 20:09	30° \mathbb{R} \mathbb{Z}		opposition	-3182 Nov 10 j 18:04	24° \mathbb{Y} 40'20	-2°02'08
opposition	-3188 Aug 16 j 06:26	27° \mathbb{Z} 27'19	-2°14'33	min. Earth dist.	-3182 Nov 10 j 05:51	24° \mathbb{Y} 42'53	7.96607 AU
min. Earth dist.	-3188 Aug 16 j 07:17	27° \mathbb{Z} 27'08	8.11502 AU	direct	-3181 Jan 16 j 12:07	21° \mathbb{Y} 10'25	
direct	-3188 Oct 21 j 16:22	24° \mathbb{Z} 02'36		evening set	-3181 May 02 j 12:02	29° \mathbb{Y} 31'59	
	-3187 Jan 15 j 00:07	0° \approx			-3181 May 06 j 03:19	0° \mathbb{B}	
evening set	-3187 Jan 31 j 04:10	2° \approx 00'52					
				conjunction	-3181 May 20 j 16:44	1° \mathbb{B} 53'35	-1°23'58
conjunction	-3187 Feb 17 j 16:20	4° \approx 17'25	-1°58'07	minimum elong	-3181 May 20 j 16:48	1° \mathbb{B} 53'36	1°23'55

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Attention, astronomical year style is used: The year -3181 in astronomical counting style is the year 3182 BCE in historical counting style.

max. Earth dist.	-3181 May 21 j 09:08	1°♄58'56	10.00828 AU	minimum elong	-3175 Aug 09 j 11:24	20°♄33'24	1°36'48
morning rise	-3181 Jun 07 j 19:45	4°♄14'36		max. Earth dist.	-3175 Aug 09 j 15:57	20°♄34'46	10.81733 AU
retrograde	-3181 Sep 19 j 16:11	12°♄25'14		morning rise	-3175 Aug 26 j 12:03	22°♄35'02	
opposition	-3181 Nov 24 j 23:43	8°♄57'31	-1°26'31	retrograde	-3175 Dec 03 j 07:48	29°♄38'19	
min. Earth dist.	-3181 Nov 24 j 11:48	8°♄59'59	8.05833 AU	opposition	-3174 Feb 09 j 16:42	26°♄20'05	2°11'01
direct	-3180 Jan 31 j 07:59	5°♄27'43		min. Earth dist.	-3174 Feb 09 j 14:36	26°♄20'29	8.88199 AU
evening set	-3180 May 16 j 15:07	13°♄43'19		direct	-3174 Apr 21 j 17:34	22°♄55'56	
	-3180 May 26 j 15:39	15°♄		evening set	-3174 Aug 02 j 01:50	0°♄	
					-3174 Aug 04 j 12:02	0°♄16'48	
conjunction	-3180 Jun 03 j 18:49	16°♄02'50	-0°53'32	conjunction	-3174 Aug 21 j 12:30	2°♄16'59	1°56'23
minimum elong	-3180 Jun 03 j 18:51	16°♄02'51	0°53'27	minimum elong	-3174 Aug 21 j 12:27	2°♄16'58	1°56'29
max. Earth dist.	-3180 Jun 04 j 10:27	16°♄07'53	10.11462 AU	max. Earth dist.	-3174 Aug 21 j 13:18	2°♄17'14	10.94171 AU
morning rise	-3180 Jun 21 j 19:39	18°♄21'24		morning rise	-3174 Sep 07 j 08:16	4°♄15'47	
retrograde	-3180 Oct 02 j 11:12	26°♄19'35		retrograde	-3174 Dec 14 j 22:07	11°♄12'31	
opposition	-3180 Dec 07 j 22:14	22°♄53'32	-0°46'40	opposition	-3173 Feb 21 j 19:40	7°♄55'17	2°31'46
min. Earth dist.	-3180 Dec 07 j 11:09	22°♄55'48	8.17577 AU	min. Earth dist.	-3173 Feb 21 j 19:56	7°♄55'15	8.99830 AU
direct	-3179 Feb 13 j 22:54	19°♄24'10		direct	-3173 May 04 j 06:27	4°♄32'23	
evening set	-3179 May 31 j 08:26	27°♄31'50		evening set	-3173 Aug 16 j 08:59	11°♄45'39	
conjunction	-3179 Jun 18 j 09:36	29°♄48'33	-0°20'44	conjunction	-3173 Sep 02 j 04:46	13°♄43'19	2°10'57
minimum elong	-3179 Jun 18 j 09:37	29°♄48'34	0°20'38	minimum elong	-3173 Sep 02 j 04:44	13°♄43'18	2°11'01
max. Earth dist.	-3179 Jun 18 j 23:23	29°♄52'55	10.24257 AU	max. Earth dist.	-3173 Sep 02 j 02:36	13°♄42'41	11.04760 AU
	-3179 Jun 19 j 21:38	0°♄			-3173 Sep 13 j 02:48	15°♄	
morning rise	-3179 Jul 06 j 06:58	2°♄04'02		morning rise	-3173 Sep 18 j 20:22	15°♄39'46	
retrograde	-3179 Oct 15 j 19:07	9°♄49'20		retrograde	-3173 Dec 26 j 10:36	22°♄31'42	
opposition	-3179 Dec 21 j 12:39	6°♄25'03	-0°05'25	opposition	-3172 Mar 04 j 18:07	19°♄15'14	2°46'06
min. Earth dist.	-3179 Dec 21 j 02:33	6°♄27'05	8.31135 AU	min. Earth dist.	-3172 Mar 04 j 20:03	19°♄14'52	9.09400 AU
asc. node	-3178 Feb 09 j 14:59	3°♄14'32		direct	-3172 May 15 j 10:59	15°♄53'34	
direct	-3178 Feb 28 j 06:22	2°♄56'22		evening set	-3172 Aug 26 j 21:59	23°♄00'19	
evening set	-3178 Jun 14 j 14:12	10°♄54'51					
conjunction	-3178 Jul 02 j 11:32	13°♄08'19	0°12'23	conjunction	-3172 Sep 12 j 13:59	24°♄56'02	2°20'11
minimum elong	-3178 Jul 02 j 11:32	13°♄08'19	0°12'29	minimum elong	-3172 Sep 12 j 13:57	24°♄56'02	2°20'15
behind sun begin	-3178 Jul 02 j 06:54	13°♄06'53		max. Earth dist.	-3172 Sep 12 j 09:58	24°♄54'52	11.13125 AU
behind sun end	-3178 Jul 02 j 16:09	13°♄09'45		morning rise	-3172 Sep 29 j 02:09	26°♄50'42	
max. Earth dist.	-3178 Jul 02 j 23:11	13°♄11'57	10.38451 AU		-3172 Oct 28 j 16:33	0°♄	
morning rise	-3178 Jul 20 j 04:22	15°♄20'19		retrograde	-3171 Jan 05 j 19:35	3°♄39'35	
retrograde	-3178 Oct 28 j 17:22	22°♄53'13		opposition	-3171 Mar 16 j 13:33	0°♄23'36	2°53'54
opposition	-3177 Jan 03 j 19:00	19°♄30'38	0°34'42	min. Earth dist.	-3171 Mar 16 j 17:44	0°♄22'50	9.16574 AU
min. Earth dist.	-3177 Jan 03 j 09:53	19°♄32'27	8.45726 AU		-3171 Mar 21 j 22:00	30°♄	
direct	-3177 Mar 14 j 05:23	16°♄02'55		direct	-3171 May 27 j 08:08	27°♄03'05	
evening set	-3177 Jun 28 j 07:23	23°♄51'34		evening set	-3171 Jul 29 j 10:27	0°♄	
					-3171 Sep 07 j 04:49	4°♄04'37	
conjunction	-3177 Jul 16 j 00:00	26°♄01'32	0°43'49	conjunction	-3171 Sep 23 j 17:43	5°♄58'54	2°24'02
minimum elong	-3177 Jul 15 j 23:59	26°♄01'32	0°43'56	minimum elong	-3171 Sep 23 j 17:43	5°♄58'54	2°24'05
max. Earth dist.	-3177 Jul 16 j 09:39	26°♄04'31	10.53252 AU	max. Earth dist.	-3171 Sep 23 j 11:14	5°♄57'01	11.18981 AU
morning rise	-3177 Aug 02 j 11:33	28°♄09'55		morning rise	-3171 Oct 10 j 03:31	7°♄52'22	
	-3177 Aug 18 j 02:50	0°♄		retrograde	-3170 Jan 17 j 04:14	14°♄39'56	
retrograde	-3177 Nov 10 j 05:52	5°♄31'30		opposition	-3170 Mar 28 j 07:14	11°♄24'11	2°55'13
opposition	-3176 Jan 16 j 17:20	2°♄10'31	1°11'42	min. Earth dist.	-3170 Mar 28 j 14:15	11°♄22'54	9.21123 AU
min. Earth dist.	-3176 Jan 16 j 09:41	2°♄12'01	8.60567 AU	direct	-3170 Jun 08 j 01:54	8°♄04'40	
	-3176 Feb 15 j 22:13	30°♄		evening set	-3170 Sep 18 j 07:13	15°♄02'16	
direct	-3176 Mar 26 j 19:14	28°♄43'55					
	-3176 May 05 j 07:09	0°♄		conjunction	-3170 Oct 04 j 17:54	16°♄55'43	2°22'33
evening set	-3176 Jul 10 j 12:19	6°♄22'45		minimum elong	-3170 Oct 04 j 17:54	16°♄55'43	2°22'36
conjunction	-3176 Jul 27 j 23:41	8°♄29'12	1°12'16	max. Earth dist.	-3170 Oct 04 j 08:17	16°♄52'56	11.22158 AU
minimum elong	-3176 Jul 27 j 23:39	8°♄29'12	1°12'23	morning rise	-3170 Oct 21 j 02:33	18°♄48'36	
max. Earth dist.	-3176 Jul 28 j 07:21	8°♄31'32	10.67905 AU	retrograde	-3169 Jan 28 j 11:44	25°♄36'32	
morning rise	-3176 Aug 14 j 05:39	10°♄34'05		opposition	-3169 Apr 09 j 00:14	22°♄20'41	2°50'12
retrograde	-3176 Nov 21 j 10:53	17°♄45'41		min. Earth dist.	-3169 Apr 09 j 09:15	22°♄19'03	9.22913 AU
opposition	-3175 Jan 28 j 08:11	14°♄26'11	1°44'08	direct	-3169 Jun 19 j 15:38	19°♄01'59	
min. Earth dist.	-3175 Jan 28 j 03:09	14°♄27'10	8.74936 AU	evening set	-3169 Sep 29 j 06:41	25°♄57'03	
direct	-3175 Apr 08 j 22:59	11°♄00'47					
evening set	-3175 Jul 23 j 05:36	18°♄30'15		conjunction	-3169 Oct 15 j 16:19	27°♄50'14	2°15'53
				minimum elong	-3169 Oct 15 j 16:20	27°♄50'14	2°15'54
conjunction	-3175 Aug 09 j 11:27	20°♄33'25	1°36'41	max. Earth dist.	-3169 Oct 15 j 05:13	27°♄47'01	11.22551 AU

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Attention, astronomical year style is used: The year -3169 in astronomical counting style is the year 3170 BCE in historical counting style.

morning rise	-3169 Nov 01 j 00:44	29° \mathbb{M} 43'07	conjunction	-3163 Dec 20 j 22:35	5° \mathbb{A} 56'13	0°06'02
	-3169 Nov 03 j 12:30	0° \mathbb{A}	minimum elong	-3163 Dec 20 j 22:36	5° \mathbb{A} 56'14	0°05'57
retrograde	-3168 Feb 08 j 23:50	6° \mathbb{A} 33'07	behind sun begin	-3163 Dec 20 j 15:53	5° \mathbb{A} 54'12	
opposition	-3168 Apr 19 j 17:44	3° \mathbb{A} 16'52 2°39'03	behind sun end	-3163 Dec 21 j 05:20	5° \mathbb{A} 58'16	
min. Earth dist.	-3168 Apr 20 j 03:42	3° \mathbb{A} 15'04 9.21869 AU	max. Earth dist.	-3163 Dec 20 j 09:06	5° \mathbb{A} 52'07	10.71173 AU
	-3168 Jun 25 j 03:31	30° \mathbb{R} \mathbb{M}	morning rise	-3162 Jan 06 j 22:01	7° \mathbb{A} 59'59	
direct	-3168 Jun 30 j 05:42	29° \mathbb{M} 58'46	desc. node	-3162 Mar 04 j 19:48	13° \mathbb{A} 45'12	
	-3168 Jul 05 j 06:28	0° \mathbb{A}	retrograde	-3162 Apr 21 j 21:07	15° \mathbb{A} 35'29	
evening set	-3168 Oct 09 j 05:19	6° \mathbb{A} 52'42	opposition	-3162 Jul 01 j 09:04	12° \mathbb{A} 11'37	-0°11'54
			min. Earth dist.	-3162 Jul 01 j 19:30	12° \mathbb{A} 09'38	8.63695 AU
conjunction	-3168 Oct 25 j 14:52	8° \mathbb{A} 46'13 2°04'15	direct	-3162 Sep 07 j 19:42	8° \mathbb{A} 51'42	
minimum elong	-3168 Oct 25 j 14:55	8° \mathbb{A} 46'14 2°04'13	evening set	-3162 Dec 16 j 12:06	16° \mathbb{A} 11'44	
max. Earth dist.	-3168 Oct 25 j 03:03	8° \mathbb{A} 42'47 11.20130 AU				
morning rise	-3168 Nov 10 j 23:50	10° \mathbb{A} 39'39	conjunction	-3161 Jan 02 j 11:03	18° \mathbb{A} 17'10	-0°24'47
retrograde	-3167 Feb 19 j 14:43	17° \mathbb{A} 33'20	minimum elong	-3161 Jan 02 j 11:02	18° \mathbb{A} 17'10	0°24'53
opposition	-3167 May 01 j 13:04	14° \mathbb{A} 16'25 2°22'04	max. Earth dist.	-3161 Jan 01 j 22:16	18° \mathbb{A} 13'13	10.56239 AU
min. Earth dist.	-3167 May 01 j 23:53	14° \mathbb{A} 14'27 9.18019 AU	morning rise	-3161 Jan 19 j 14:39	20° \mathbb{A} 24'06	
direct	-3167 Jul 11 j 16:16	10° \mathbb{A} 58'42	retrograde	-3161 May 05 j 10:23	28° \mathbb{A} 11'46	
evening set	-3167 Oct 20 j 05:01	17° \mathbb{A} 52'59	opposition	-3161 Jul 14 j 14:04	24° \mathbb{A} 46'09	-0°50'01
			min. Earth dist.	-3161 Jul 14 j 23:19	24° \mathbb{A} 44'22	8.48488 AU
conjunction	-3167 Nov 05 j 15:10	19° \mathbb{A} 47'20 1°47'57	direct	-3161 Sep 20 j 10:23	21° \mathbb{A} 25'01	
minimum elong	-3167 Nov 05 j 15:13	19° \mathbb{A} 47'21 1°47'54	evening set	-3161 Dec 29 j 09:10	28° \mathbb{A} 54'55	
max. Earth dist.	-3167 Nov 05 j 01:49	19° \mathbb{A} 43'26 11.14975 AU		-3160 Jan 07 j 02:10	0° \mathbb{B}	
morning rise	-3167 Nov 22 j 01:47	21° \mathbb{A} 41'54				
retrograde	-3166 Mar 03 j 09:59	28° \mathbb{A} 40'54	conjunction	-3160 Jan 15 j 11:47	1° \mathbb{B} 03'31	-0°55'13
opposition	-3166 May 13 j 11:37	25° \mathbb{A} 23'02 1°59'37	minimum elong	-3160 Jan 15 j 11:44	1° \mathbb{B} 03'31	0°55'19
min. Earth dist.	-3166 May 13 j 23:49	25° \mathbb{A} 20'48 9.11497 AU	max. Earth dist.	-3160 Jan 15 j 01:21	1° \mathbb{B} 00'14	10.40947 AU
direct	-3166 Jul 23 j 04:34	22° \mathbb{A} 05'25	morning rise	-3160 Feb 01 j 19:28	3° \mathbb{B} 13'44	
evening set	-3166 Oct 31 j 07:27	29° \mathbb{A} 01'35	retrograde	-3160 May 18 j 10:40	11° \mathbb{B} 13'56	
	-3166 Nov 08 j 16:17	0° \mathbb{M}	opposition	-3160 Jul 27 j 03:24	7° \mathbb{B} 46'35	-1°27'00
			min. Earth dist.	-3160 Jul 27 j 10:28	7° \mathbb{B} 45'12	8.33358 AU
conjunction	-3166 Nov 16 j 19:00	0° \mathbb{M} 57'18 1°27'22	direct	-3160 Oct 02 j 10:02	4° \mathbb{B} 24'06	
minimum elong	-3166 Nov 16 j 19:02	0° \mathbb{M} 57'19 1°27'18	evening set	-3159 Jan 10 j 19:10	12° \mathbb{B} 04'46	
max. Earth dist.	-3166 Nov 16 j 04:24	0° \mathbb{M} 53'00 11.07247 AU				
morning rise	-3166 Dec 03 j 08:08	2° \mathbb{M} 53'31	conjunction	-3159 Jan 28 j 01:37	14° \mathbb{B} 16'34	-1°23'43
retrograde	-3165 Mar 15 j 11:50	9° \mathbb{M} 59'25	minimum elong	-3159 Jan 28 j 01:34	14° \mathbb{B} 16'33	1°23'49
opposition	-3165 May 25 j 14:13	6° \mathbb{M} 40'20 1°32'14	max. Earth dist.	-3159 Jan 27 j 19:00	14° \mathbb{B} 14'27	10.26110 AU
min. Earth dist.	-3165 May 26 j 03:06	6° \mathbb{M} 37'58 9.02497 AU	morning rise	-3159 Feb 14 j 13:13	16° \mathbb{B} 30'04	
direct	-3165 Aug 03 j 20:02	3° \mathbb{M} 22'32	retrograde	-3159 Jun 01 j 21:11	24° \mathbb{B} 42'23	
evening set	-3165 Nov 11 j 14:41	10° \mathbb{M} 22'11	opposition	-3159 Aug 10 j 00:44	21° \mathbb{B} 13'26	-2°00'37
			min. Earth dist.	-3159 Aug 10 j 04:30	21° \mathbb{B} 12'40	8.19135 AU
conjunction	-3165 Nov 28 j 04:27	12° \mathbb{M} 19'44 1°03'02	direct	-3159 Oct 15 j 18:21	17° \mathbb{B} 49'28	
minimum elong	-3165 Nov 28 j 04:29	12° \mathbb{M} 19'44 1°02'57	evening set	-3158 Jan 24 j 18:52	25° \mathbb{B} 41'20	
max. Earth dist.	-3165 Nov 27 j 14:04	12° \mathbb{M} 15'27 10.97161 AU				
morning rise	-3165 Dec 14 j 20:33	14° \mathbb{M} 18'03	conjunction	-3158 Feb 11 j 05:13	27° \mathbb{B} 56'14	-1°48'24
	-3165 Dec 20 j 21:50	15° \mathbb{M}	minimum elong	-3158 Feb 11 j 05:10	27° \mathbb{B} 56'13	1°48'30
retrograde	-3164 Mar 26 j 20:34	21° \mathbb{M} 32'23	max. Earth dist.	-3158 Feb 11 j 02:37	27° \mathbb{B} 55'24	10.12578 AU
opposition	-3164 Jun 05 j 21:47	18° \mathbb{M} 11'51 1°00'33		-3158 Feb 27 j 04:18	0° \mathbb{B}	
min. Earth dist.	-3164 Jun 06 j 10:10	18° \mathbb{M} 09'33 8.91282 AU	morning rise	-3158 Feb 28 j 20:33	0° \mathbb{B} 12'49	
	-3164 Aug 03 j 08:05	15° \mathbb{R} \mathbb{M}	retrograde	-3158 Jun 16 j 16:14	8° \mathbb{B} 35'51	
direct	-3164 Aug 14 j 15:08	14° \mathbb{M} 53'35	opposition	-3158 Aug 24 j 05:16	5° \mathbb{B} 05'33	-2°28'25
	-3164 Aug 25 j 20:07	15° \mathbb{M}	min. Earth dist.	-3158 Aug 24 j 05:33	5° \mathbb{B} 05'30	8.06644 AU
evening set	-3164 Nov 22 j 04:34	21° \mathbb{M} 58'22	direct	-3158 Oct 29 j 12:21	1° \mathbb{B} 40'06	
			evening set	-3157 Feb 08 j 07:42	9° \mathbb{B} 42'51	
conjunction	-3164 Dec 08 j 21:06	23° \mathbb{M} 58'12 0°35'37				
minimum elong	-3164 Dec 08 j 21:08	23° \mathbb{M} 58'12 0°35'32	conjunction	-3157 Feb 25 j 21:55	12° \mathbb{B} 00'37	-2°07'22
max. Earth dist.	-3164 Dec 08 j 07:29	23° \mathbb{M} 54'06 10.85005 AU	minimum elong	-3157 Feb 25 j 21:52	12° \mathbb{B} 00'36	2°07'27
morning rise	-3164 Dec 25 j 16:36	25° \mathbb{M} 59'02	max. Earth dist.	-3157 Feb 25 j 23:16	12° \mathbb{B} 01'03	10.01169 AU
	-3163 Jan 31 j 21:39	0° \mathbb{A}	morning rise	-3157 Mar 15 j 16:47	14° \mathbb{B} 19'55	
retrograde	-3163 Apr 08 j 16:01	3° \mathbb{A} 23'18		-3157 Mar 20 j 22:16	15° \mathbb{B}	
opposition	-3163 Jun 18 j 11:47	0° \mathbb{A} 01'09 0°25'27	retrograde	-3157 Jul 01 j 16:54	22° \mathbb{B} 51'16	
	-3163 Jun 18 j 17:50	30° \mathbb{R} \mathbb{M}	opposition	-3157 Sep 07 j 16:01	19° \mathbb{B} 20'00	-2°47'57
min. Earth dist.	-3163 Jun 18 j 23:04	29° \mathbb{M} 59'01 8.78187 AU	min. Earth dist.	-3157 Sep 07 j 13:01	19° \mathbb{B} 20'37	7.96653 AU
direct	-3163 Aug 26 j 15:11	26° \mathbb{M} 42'11	direct	-3157 Nov 12 j 15:45	15° \mathbb{B} 53'05	
	-3163 Oct 29 j 12:54	0° \mathbb{A}	evening set	-3156 Feb 23 j 07:51	24° \mathbb{B} 05'30	
evening set	-3163 Dec 04 j 03:02	3° \mathbb{A} 53'44				
			conjunction	-3156 Mar 12 j 01:49	26° \mathbb{B} 25'41	-2°18'52

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Attention, astronomical year style is used: The year -3156 in astronomical counting style is the year 3157 BCE in historical counting style.

minimum elong	-3156 Mar 12 j 01:48	26° \approx 25'40	2°18'56	evening set	-3150 May 24 j 18:06	21° \mathfrak{B} 12'43	
max. Earth dist.	-3156 Mar 12 j 06:57	26° \approx 27'22	9.92622 AU				
morning rise	-3156 Mar 29 j 23:54	28° \approx 47'11		conjunction	-3150 Jun 11 j 20:53	23° \mathfrak{B} 31'01	-0°36'42
	-3156 Apr 08 j 11:30	0° \mathfrak{H}		minimum elong	-3150 Jun 11 j 20:55	23° \mathfrak{B} 31'02	0°36'36
retrograde	-3156 Jul 15 j 20:53	7° \mathfrak{H} 23'31		max. Earth dist.	-3150 Jun 12 j 13:07	23° \mathfrak{B} 36'13	10.16663 AU
opposition	-3156 Sep 21 j 07:04	3° \mathfrak{H} 51'43	-2°57'14	morning rise	-3150 Jun 29 j 20:07	25° \mathfrak{B} 48'11	
min. Earth dist.	-3156 Sep 21 j 01:20	3° \mathfrak{H} 52'55	7.89816 AU		-3150 Aug 05 j 04:35	0° \mathfrak{I}	
direct	-3156 Nov 26 j 03:14	0° \mathfrak{H} 23'30		retrograde	-3150 Oct 09 j 21:06	3° \mathfrak{I} 40'09	
evening set	-3155 Mar 09 j 16:55	8° \mathfrak{H} 43'27		opposition	-3150 Dec 15 j 11:27	0° \mathfrak{I} 14'35	-0°25'18
				min. Earth dist.	-3150 Dec 14 j 23:25	0° \mathfrak{I} 17'02	8.23347 AU
conjunction	-3155 Mar 27 j 14:32	11° \mathfrak{H} 05'27	-2°21'40		-3150 Dec 18 j 11:17	30° \mathfrak{R} 8	
minimum elong	-3155 Mar 27 j 14:32	11° \mathfrak{H} 05'27	2°21'43	direct	-3149 Feb 21 j 20:10	26° \mathfrak{B} 45'15	
max. Earth dist.	-3155 Mar 27 j 23:04	11° \mathfrak{H} 08'18	9.87527 AU		-3149 Apr 26 j 02:56	0° \mathfrak{I}	
morning rise	-3155 Apr 14 j 15:25	13° \mathfrak{H} 28'29		evening set	-3149 Jun 08 j 05:40	4° \mathfrak{I} 48'37	
retrograde	-3155 Jul 31 j 00:59	22° \mathfrak{H} 05'44					
opposition	-3155 Oct 06 j 00:05	18° \mathfrak{H} 33'55	-2°55'03	conjunction	-3149 Jun 26 j 05:14	7° \mathfrak{I} 03'51	-0°03'32
min. Earth dist.	-3155 Oct 05 j 16:17	18° \mathfrak{H} 35'33	7.86605 AU	minimum elong	-3149 Jun 26 j 05:13	7° \mathfrak{I} 03'51	0°03'25
direct	-3155 Dec 10 j 21:08	15° \mathfrak{H} 04'36		behind sun begin	-3149 Jun 25 j 21:59	7° \mathfrak{I} 01'36	
evening set	-3154 Mar 25 j 07:23	23° \mathfrak{H} 29'14		behind sun end	-3149 Jun 26 j 12:27	7° \mathfrak{I} 06'06	
				max. Earth dist.	-3149 Jun 26 j 20:00	7° \mathfrak{I} 08'30	10.30565 AU
conjunction	-3154 Apr 12 j 08:15	25° \mathfrak{H} 52'19	-2°15'15	morning rise	-3149 Jul 14 j 00:16	9° \mathfrak{I} 17'40	
minimum elong	-3154 Apr 12 j 08:18	25° \mathfrak{H} 52'20	2°15'16	asc. node	-3149 Aug 04 j 19:24	11° \mathfrak{I} 52'37	
max. Earth dist.	-3154 Apr 12 j 19:49	25° \mathfrak{H} 56'10	9.86234 AU	retrograde	-3149 Oct 23 j 01:44	16° \mathfrak{I} 56'53	
morning rise	-3154 Apr 30 j 11:14	28° \mathfrak{H} 16'01		opposition	-3149 Dec 28 j 21:56	13° \mathfrak{I} 33'16	0°15'42
	-3154 May 14 j 01:17	0° \mathfrak{Y}		min. Earth dist.	-3149 Dec 28 j 11:31	13° \mathfrak{I} 35'21	8.37844 AU
retrograde	-3154 Aug 15 j 02:00	6° \mathfrak{Y} 49'59		direct	-3148 Mar 06 j 22:41	10° \mathfrak{I} 04'56	
opposition	-3154 Oct 20 j 16:41	3° \mathfrak{Y} 18'39	-2°41'18	evening set	-3148 Jun 21 j 05:11	17° \mathfrak{I} 58'43	
min. Earth dist.	-3154 Oct 20 j 07:02	3° \mathfrak{Y} 20'40	7.87228 AU				
	-3154 Dec 11 j 17:43	30° \mathfrak{R} 8		conjunction	-3148 Jul 09 j 00:18	20° \mathfrak{I} 10'31	0°29'01
direct	-3154 Dec 25 j 19:38	29° \mathfrak{H} 48'34		minimum elong	-3148 Jul 09 j 00:16	20° \mathfrak{I} 10'31	0°29'08
	-3153 Jan 08 j 22:09	0° \mathfrak{Y}		max. Earth dist.	-3148 Jul 09 j 12:29	20° \mathfrak{I} 14'18	10.45489 AU
evening set	-3153 Apr 09 j 23:15	8° \mathfrak{Y} 14'35		morning rise	-3148 Jul 26 j 14:28	22° \mathfrak{I} 20'46	
				retrograde	-3148 Nov 03 j 18:05	29° \mathfrak{I} 48'02	
conjunction	-3153 Apr 28 j 02:33	10° \mathfrak{Y} 37'50	-2°00'01	opposition	-3147 Jan 10 j 00:22	26° \mathfrak{I} 26'19	0°54'28
minimum elong	-3153 Apr 28 j 02:37	10° \mathfrak{Y} 37'52	1°59'59	min. Earth dist.	-3147 Jan 09 j 16:02	26° \mathfrak{I} 27'57	8.52994 AU
max. Earth dist.	-3153 Apr 28 j 16:32	10° \mathfrak{Y} 42'28	9.88818 AU	direct	-3147 Mar 20 j 17:52	22° \mathfrak{I} 59'11	
morning rise	-3153 May 16 j 06:35	13° \mathfrak{Y} 01'15			-3147 Jun 28 j 15:07	0° \mathfrak{E}	
retrograde	-3153 Aug 29 j 20:30	21° \mathfrak{Y} 28'08		evening set	-3147 Jul 04 j 16:36	0° \mathfrak{E} 43'10	
opposition	-3153 Nov 04 j 06:20	17° \mathfrak{Y} 57'44	-2°17'05				
min. Earth dist.	-3153 Nov 03 j 19:08	18° \mathfrak{Y} 00'05	7.91633 AU	conjunction	-3147 Jul 22 j 06:29	2° \mathfrak{E} 51'23	0°59'06
direct	-3152 Jan 09 j 20:00	14° \mathfrak{Y} 27'15		minimum elong	-3147 Jul 22 j 06:27	2° \mathfrak{E} 51'22	0°59'13
evening set	-3152 Apr 24 j 12:31	22° \mathfrak{Y} 51'21		max. Earth dist.	-3147 Jul 22 j 15:18	2° \mathfrak{E} 54'05	10.60640 AU
				morning rise	-3147 Aug 08 j 15:18	4° \mathfrak{E} 58'01	
conjunction	-3152 May 12 j 17:08	25° \mathfrak{Y} 13'50	-1°37'11	retrograde	-3147 Nov 16 j 02:29	12° \mathfrak{E} 14'37	
minimum elong	-3152 May 12 j 17:12	25° \mathfrak{Y} 13'51	1°37'09	opposition	-3146 Jan 22 j 19:06	8° \mathfrak{E} 54'37	1°29'17
max. Earth dist.	-3152 May 13 j 08:43	25° \mathfrak{Y} 18'57	9.95086 AU	min. Earth dist.	-3146 Jan 22 j 12:29	8° \mathfrak{E} 55'54	8.68020 AU
morning rise	-3152 May 30 j 20:59	27° \mathfrak{Y} 36'00		direct	-3146 Apr 03 j 03:25	5° \mathfrak{E} 28'52	
	-3152 Jun 19 j 04:01	0° \mathfrak{B}		evening set	-3146 Jul 17 j 15:58	13° \mathfrak{E} 03'12	
retrograde	-3152 Sep 12 j 05:52	5° \mathfrak{B} 52'48					
opposition	-3152 Nov 17 j 14:57	2° \mathfrak{B} 23'44	-1°44'29	conjunction	-3146 Aug 04 j 00:24	15° \mathfrak{E} 07'58	1°25'35
min. Earth dist.	-3152 Nov 17 j 02:32	2° \mathfrak{B} 26'19	7.99511 AU	minimum elong	-3146 Aug 04 j 00:20	15° \mathfrak{E} 07'57	1°25'42
	-3152 Dec 19 j 10:30	30° \mathfrak{R} 8		max. Earth dist.	-3146 Aug 04 j 06:25	15° \mathfrak{E} 09'47	10.75289 AU
direct	-3151 Jan 23 j 17:47	28° \mathfrak{Y} 53'15		morning rise	-3146 Aug 21 j 03:42	17° \mathfrak{E} 11'10	
	-3151 Feb 27 j 20:26	0° \mathfrak{B}		retrograde	-3146 Nov 28 j 04:11	24° \mathfrak{E} 18'37	
evening set	-3151 May 09 j 19:41	7° \mathfrak{B} 12'30		opposition	-3145 Feb 04 j 07:05	21° \mathfrak{E} 00'08	1°58'56
				min. Earth dist.	-3145 Feb 04 j 02:16	21° \mathfrak{E} 01'03	8.82223 AU
conjunction	-3151 May 28 j 00:13	9° \mathfrak{B} 33'18	-1°08'40	direct	-3145 Apr 16 j 02:58	17° \mathfrak{E} 35'46	
minimum elong	-3151 May 28 j 00:16	9° \mathfrak{B} 33'19	1°08'36	evening set	-3145 Jul 30 j 03:54	25° \mathfrak{E} 01'00	
max. Earth dist.	-3151 May 28 j 16:34	9° \mathfrak{B} 38'36	10.04586 AU				
morning rise	-3151 Jun 15 j 02:29	11° \mathfrak{B} 53'19		conjunction	-3145 Aug 16 j 07:01	27° \mathfrak{E} 02'36	1°47'37
	-3151 Jul 10 j 19:43	15° \mathfrak{B}		minimum elong	-3145 Aug 16 j 06:58	27° \mathfrak{E} 02'35	1°47'43
retrograde	-3151 Sep 26 j 06:13	19° \mathfrak{B} 58'07		max. Earth dist.	-3145 Aug 16 j 10:44	27° \mathfrak{E} 03'43	10.88780 AU
opposition	-3151 Dec 01 j 17:00	16° \mathfrak{B} 30'42	-1°06'15	morning rise	-3145 Sep 02 j 05:02	29° \mathfrak{E} 02'44	
min. Earth dist.	-3151 Dec 01 j 04:10	16° \mathfrak{B} 33'21	8.10313 AU		-3145 Sep 10 j 12:14	0° \mathfrak{Q}	
	-3151 Dec 20 j 17:13	15° \mathfrak{R} 8		retrograde	-3145 Dec 09 j 22:58	6° \mathfrak{Q} 02'42	
direct	-3150 Feb 07 j 10:40	13° \mathfrak{B} 00'37		opposition	-3144 Feb 16 j 13:04	2° \mathfrak{Q} 45'26	2°22'39
	-3150 Mar 27 j 13:10	15° \mathfrak{B}		min. Earth dist.	-3144 Feb 16 j 10:54	2° \mathfrak{Q} 45'51	8.94978 AU

Attention, astronomical year style is used: The year -3144 in astronomical counting style is the year 3145 BCE in historical counting style.

	-3144 Mar 30 j 12:29	30° $\text{R}\overline{\text{E}}$		opposition	-3138 Apr 26 j 12:23	9° $\underline{\text{A}}\text{28}'01$	2°30'33
direct	-3144 Apr 27 j 18:50	29° $\text{E}\text{22}'26$		min. Earth dist.	-3138 Apr 27 j 00:44	9° $\underline{\text{A}}\text{25}'46$	9.19320 AU
	-3144 May 25 j 19:56	0° O		direct	-3138 Jul 06 j 19:02	6° $\underline{\text{A}}\text{09}'57$	
evening set	-3144 Aug 10 j 05:55	6° $\text{O}\text{39}'27$		evening set	-3138 Oct 15 j 14:02	13° $\underline{\text{A}}\text{04}'18$	
conjunction	-3144 Aug 27 j 04:01	8° $\text{O}\text{38}'17$	2°04'40	conjunction	-3138 Oct 31 j 23:49	14° $\underline{\text{A}}\text{58}'18$	1°55'58
minimum elong	-3144 Aug 27 j 03:59	8° $\text{O}\text{38}'16$	2°04'44	minimum elong	-3138 Oct 31 j 23:52	14° $\underline{\text{A}}\text{58}'19$	1°55'56
max. Earth dist.	-3144 Aug 27 j 04:36	8° $\text{O}\text{38}'27$	11.00537 AU	max. Earth dist.	-3138 Oct 31 j 09:33	14° $\underline{\text{A}}\text{54}'08$	11.16675 AU
morning rise	-3144 Sep 12 j 21:24	10° $\text{O}\text{35}'47$		morning rise	-3138 Nov 17 j 09:44	16° $\underline{\text{A}}\text{52}'24$	
	-3144 Oct 25 j 18:45	15° O		retrograde	-3137 Feb 26 j 08:31	23° $\underline{\text{A}}\text{49}'05$	
retrograde	-3144 Dec 20 j 13:03	17° $\text{O}\text{30}'00$		opposition	-3137 May 08 j 09:25	20° $\underline{\text{A}}\text{31}'23$	2°10'35
	-3143 Feb 17 j 02:57	15° RO		min. Earth dist.	-3137 May 08 j 22:02	20° $\underline{\text{A}}\text{29}'05$	9.13625 AU
opposition	-3143 Feb 27 j 14:01	14° $\text{O}\text{13}'40$	2°40'03	direct	-3137 Jul 18 j 08:56	17° $\underline{\text{A}}\text{13}'21$	
min. Earth dist.	-3143 Feb 27 j 15:26	14° $\text{O}\text{13}'24$	9.05743 AU	evening set	-3137 Oct 26 j 15:03	24° $\underline{\text{A}}\text{08}'53$	
direct	-3143 May 10 j 02:18	10° $\text{O}\text{51}'54$		max. Earth dist.	-3137 Nov 11 j 11:51	25° $\underline{\text{A}}\text{59}'53$	11.09733 AU
	-3143 Jul 24 j 19:35	15° O					
evening set	-3143 Aug 21 j 23:18	18° $\text{O}\text{01}'50$		conjunction	-3137 Nov 12 j 02:06	26° $\underline{\text{A}}\text{04}'04$	1°37'18
				minimum elong	-3137 Nov 12 j 02:09	26° $\underline{\text{A}}\text{04}'04$	1°37'16
conjunction	-3143 Sep 07 j 16:56	19° $\text{O}\text{58}'24$	2°16'26	morning rise	-3137 Nov 28 j 13:57	27° $\underline{\text{A}}\text{59}'35$	
minimum elong	-3143 Sep 07 j 16:54	19° $\text{O}\text{58}'24$	2°16'29		-3137 Dec 16 j 15:23	0° M	
max. Earth dist.	-3143 Sep 07 j 13:14	19° $\text{O}\text{57}'19$	11.10074 AU	retrograde	-3136 Mar 09 j 08:41	5° $\text{M}\text{02}'28$	
morning rise	-3143 Sep 24 j 06:39	21° $\text{O}\text{53}'51$		opposition	-3136 May 19 j 10:02	1° $\text{M}\text{43}'31$	1°45'25
retrograde	-3143 Dec 31 j 22:04	28° $\text{O}\text{44}'08$		min. Earth dist.	-3136 May 19 j 22:39	1° $\text{M}\text{41}'11$	9.05383 AU
opposition	-3142 Mar 11 j 11:22	25° $\text{O}\text{28}'24$	2°50'55		-3136 Jun 13 j 01:19	30° RA	
min. Earth dist.	-3142 Mar 11 j 15:37	25° $\text{O}\text{27}'37$	9.14071 AU	direct	-3136 Jul 28 j 22:35	28° $\underline{\text{A}}\text{25}'18$	
direct	-3142 May 22 j 03:51	22° $\text{O}\text{07}'46$			-3136 Sep 11 j 05:46	0° M	
evening set	-3142 Sep 02 j 09:22	29° $\text{O}\text{11}'52$		evening set	-3136 Nov 05 j 19:55	5° $\text{M}\text{23}'37$	
	-3142 Sep 09 j 09:23	0° M					
conjunction	-3142 Sep 18 j 23:30	1° $\text{M}\text{06}'45$	2°22'48	conjunction	-3136 Nov 22 j 08:42	7° $\text{M}\text{20}'25$	1°14'38
minimum elong	-3142 Sep 18 j 23:30	1° $\text{M}\text{06}'45$	2°22'51	minimum elong	-3136 Nov 22 j 08:45	7° $\text{M}\text{20}'26$	1°14'34
max. Earth dist.	-3142 Sep 18 j 16:46	1° $\text{M}\text{04}'47$	11.17023 AU	max. Earth dist.	-3136 Nov 21 j 17:45	7° $\text{M}\text{15}'59$	11.00378 AU
morning rise	-3142 Oct 05 j 10:27	3° $\text{M}\text{00}'44$		morning rise	-3136 Dec 08 j 23:19	9° $\text{M}\text{17}'52$	
retrograde	-3141 Jan 12 j 07:58	9° $\text{M}\text{48}'57$			-3135 Feb 06 j 07:32	15° M	
opposition	-3141 Mar 23 j 06:13	6° $\text{M}\text{33}'30$	2°55'15	retrograde	-3135 Mar 21 j 13:33	16° $\text{M}\text{28}'34$	
min. Earth dist.	-3141 Mar 23 j 12:23	6° $\text{M}\text{32}'22$	9.19670 AU		-3135 May 04 j 23:38	15° RM	
direct	-3141 Jun 03 j 01:40	3° $\text{M}\text{13}'51$		opposition	-3135 May 31 j 15:26	13° $\text{M}\text{08}'10$	1°15'37

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Attention, astronomical year style is used: The year -3133 in astronomical counting style is the year 3134 BCE in historical counting style.

max. Earth dist.	-3133 Dec 27 j 14:27	12° ♁ 46'38	10.61496 AU		-3126 Feb 12 j 22:13	0° ♁	
morning rise	-3132 Jan 14 j 03:53	14° ♁ 55'52		evening set	-3126 Mar 03 j 01:18	2° ♁ 17'16	
retrograde	-3132 Apr 28 j 12:28	22° ♁ 38'20					
opposition	-3132 Jul 07 j 21:48	19° ♁ 12'56	-0°32'34	conjunction	-3126 Mar 20 j 21:21	4° ♁ 38'27	-2°21'25
min. Earth dist.	-3132 Jul 08 j 06:38	19° ♁ 11'14	8.53983 AU	minimum elong	-3126 Mar 20 j 21:20	4° ♁ 38'27	2°21'27
direct	-3132 Sep 14 j 02:26	15° ♁ 51'52		max. Earth dist.	-3126 Mar 21 j 06:09	4° ♁ 41'23	9.90151 AU
evening set	-3132 Dec 22 j 20:03	23° ♁ 17'31		morning rise	-3126 Apr 07 j 20:56	7° ♁ 00'49	
				retrograde	-3126 Jul 24 j 12:42	15° ♁ 38'05	
conjunction	-3131 Jan 08 j 21:04	25° ♁ 24'48	-0°41'24	opposition	-3126 Sep 29 j 17:03	12° ♁ 06'41	-2°57'18
minimum elong	-3131 Jan 08 j 21:02	25° ♁ 24'47	0°41'30	min. Earth dist.	-3126 Sep 29 j 08:56	12° ♁ 08'22	7.88550 AU
max. Earth dist.	-3131 Jan 08 j 11:20	25° ♁ 21'45	10.46606 AU	direct	-3126 Dec 04 j 13:01	8° ♁ 38'23	
morning rise	-3131 Jan 26 j 02:44	27° ♁ 33'36		evening set	-3125 Mar 18 j 14:03	17° ♁ 01'00	
	-3131 Feb 15 j 18:13	0° ♁					
retrograde	-3131 May 12 j 09:44	5° ♁ 28'27		conjunction	-3125 Apr 05 j 13:33	19° ♁ 23'35	-2°19'11
opposition	-3131 Jul 21 j 07:22	2° ♁ 01'24	-1°10'21	minimum elong	-3125 Apr 05 j 13:35	19° ♁ 23'35	2°19'12
min. Earth dist.	-3131 Jul 21 j 13:41	2° ♁ 00'10	8.39097 AU	max. Earth dist.	-3125 Apr 06 j 01:59	19° ♁ 27'43	9.87466 AU
	-3131 Aug 17 j 23:16	30° ♁		morning rise	-3125 Apr 23 j 15:27	21° ♁ 46'57	
direct	-3131 Sep 26 j 20:11	28° ♁ 39'12			-3125 Jul 19 j 14:05	0° ♁	
	-3131 Nov 04 j 16:25	0° ♁		retrograde	-3125 Aug 08 j 16:05	0° ♁ 22'40	
evening set	-3130 Jan 04 j 24:00	6° ♁ 15'07			-3125 Aug 28 j 18:28	30° ♁	
				opposition	-3125 Oct 14 j 10:18	26° ♁ 51'34	-2°48'43
conjunction	-3130 Jan 22 j 04:37	8° ♁ 25'33	-1°11'00	min. Earth dist.	-3125 Oct 13 j 23:54	26° ♁ 53'45	7.87747 AU
minimum elong	-3130 Jan 22 j 04:35	8° ♁ 25'32	1°11'07	direct	-3125 Dec 19 j 09:24	23° ♁ 22'26	
max. Earth dist.	-3130 Jan 21 j 20:59	8° ♁ 23'07	10.31864 AU		-3124 Mar 19 j 02:50	0° ♁	
morning rise	-3130 Feb 08 j 14:26	10° ♁ 37'40		evening set	-3124 Apr 02 j 05:42	1° ♁ 47'43	
retrograde	-3130 May 26 j 16:32	18° ♁ 44'49					
opposition	-3130 Aug 04 j 01:11	15° ♁ 16'16	-1°45'48	conjunction	-3124 Apr 20 j 08:01	4° ♁ 10'50	-2°07'51
min. Earth dist.	-3130 Aug 04 j 05:15	15° ♁ 15'28	8.24769 AU	minimum elong	-3124 Apr 20 j 08:04	4° ♁ 10'51	2°07'50
direct	-3130 Oct 09 j 23:16	11° ♁ 52'48		max. Earth dist.	-3124 Apr 20 j 22:52	4° ♁ 15'46	9.88565 AU
evening set	-3129 Jan 18 j 17:33	19° ♁ 39'47		morning rise	-3124 May 08 j 11:27	6° ♁ 34'18	
				retrograde	-3124 Aug 22 j 14:32	15° ♁ 04'27	
conjunction	-3129 Feb 05 j 01:56	21° ♁ 53'19	-1°37'40	opposition	-3124 Oct 28 j 01:37	11° ♁ 34'05	-2°29'04
minimum elong	-3129 Feb 05 j 01:53	21° ♁ 53'18	1°37'46	min. Earth dist.	-3124 Oct 27 j 14:09	11° ♁ 36'29	7.90630 AU
max. Earth dist.	-3129 Feb 04 j 21:26	21° ♁ 51'52	10.18053 AU	direct	-3123 Jan 02 j 08:50	8° ♁ 04'22	
morning rise	-3129 Feb 22 j 15:40	24° ♁ 08'36		evening set	-3123 Apr 17 j 20:40	16° ♁ 29'07	
	-3129 Apr 16 j 23:48	0° ♁					
retrograde	-3129 Jun 10 j 07:30	2° ♁ 27'07		conjunction	-3123 May 06 j 00:48	18° ♁ 51'53	-1°48'16
	-3129 Aug 04 j 23:34	30° ♁		minimum elong	-3123 May 06 j 00:52	18° ♁ 51'54	1°48'14
opposition	-3129 Aug 18 j 02:37	28° ♁ 57'20	-2°16'33	max. Earth dist.	-3123 May 06 j 16:28	18° ♁ 57'02	9.93246 AU
min. Earth dist.	-3129 Aug 18 j 04:11	28° ♁ 57'01	8.11802 AU	morning rise	-3123 May 24 j 04:44	21° ♁ 14'32	
direct	-3129 Oct 23 j 13:27	25° ♁ 32'33		retrograde	-3123 Sep 06 j 04:48	29° ♁ 35'50	
	-3128 Jan 03 j 21:32	0° ♁		opposition	-3123 Nov 11 j 12:41	26° ♁ 06'40	-1°59'59
evening set	-3128 Feb 02 j 00:28	3° ♁ 30'37		min. Earth dist.	-3123 Nov 11 j 01:13	26° ♁ 09'03	7.96877 AU
				direct	-3122 Jan 17 j 07:36	22° ♁ 36'42	
conjunction	-3128 Feb 19 j 12:44	5° ♁ 47'07	-1°59'28		-3122 Apr 25 j 15:27	0° ♁	
minimum elong	-3128 Feb 19 j 12:41	5° ♁ 47'06	1°59'34	evening set	-3122 May 03 j 07:14	0° ♁ 58'05	
max. Earth dist.	-3128 Feb 19 j 12:23	5° ♁ 47'00	10.05994 AU				
morning rise	-3128 Mar 08 j 06:07	8° ♁ 05'16		conjunction	-3122 May 21 j 11:52	3° ♁ 19'37	-1°22'05
	-3128 May 12 j 20:37	15° ♁		minimum elong	-3122 May 21 j 11:55	3° ♁ 19'38	1°22'01
retrograde	-3128 Jun 24 j 04:52	16° ♁ 33'18		max. Earth dist.	-3122 May 22 j 03:08	3° ♁ 24'36	10.01092 AU
	-3128 Aug 06 j 01:27	15° ♁		morning rise	-3122 Jun 08 j 14:57	5° ♁ 40'36	
opposition	-3128 Aug 31 j 11:00	13° ♁ 02'34	-2°40'06	retrograde	-3122 Sep 20 j 09:52	13° ♁ 50'52	
min. Earth dist.	-3128 Aug 31 j 09:25	13° ♁ 02'54	8.00996 AU	opposition	-3122 Nov 25 j 18:08	10° ♁ 23'13	-1°23'58
direct	-3128 Nov 05 j 13:52	9° ♁ 36'31		min. Earth dist.	-3122 Nov 25 j 07:04	10° ♁ 25'30	8.06065 AU
	-3127 Jan 24 j 16:54	15° ♁		direct	-3121 Feb 01 j 03:18	6° ♁ 53'24	
evening set	-3127 Feb 15 j 19:39	17° ♁ 44'47			-3121 May 17 j 05:56	15° ♁	
				evening set	-3121 May 18 j 10:10	15° ♁ 08'54	
conjunction	-3127 Mar 05 j 11:52	20° ♁ 03'54	-2°14'33				
minimum elong	-3127 Mar 05 j 11:50	20° ♁ 03'53	2°14'37	conjunction	-3121 Jun 05 j 13:45	17° ♁ 28'22	-0°51'22
max. Earth dist.	-3127 Mar 05 j 16:12	20° ♁ 05'20	9.96474 AU	minimum elong	-3121 Jun 05 j 13:48	17° ♁ 28'23	0°51'18
morning rise	-3127 Mar 23 j 08:33	22° ♁ 24'28		max. Earth dist.	-3121 Jun 06 j 04:05	17° ♁ 32'59	10.11643 AU
	-3127 Jun 06 j 04:44	0° ♁		morning rise	-3121 Jun 23 j 14:37	19° ♁ 46'53	
retrograde	-3127 Jul 09 j 07:45	0° ♁ 59'03		retrograde	-3121 Oct 04 j 04:59	27° ♁ 44'53	
	-3127 Aug 11 j 15:53	30° ♁		opposition	-3121 Dec 09 j 16:33	24° ♁ 18'54	-0°43'52
opposition	-3127 Sep 15 j 00:34	27° ♁ 27'46	-2°54'14	min. Earth dist.	-3121 Dec 09 j 05:42	24° ♁ 21'07	8.17700 AU
min. Earth dist.	-3127 Sep 14 j 19:36	27° ♁ 28'48	7.93065 AU	direct	-3120 Feb 15 j 17:46	20° ♁ 49'33	
direct	-3127 Nov 19 j 21:53	24° ♁ 00'31		evening set	-3120 Jun 01 j 03:18	28° ♁ 57'14	

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Attention, astronomical year style is used: The year -3120 in astronomical counting style is the year 3121 BCE in historical counting style.

	-3120 Jun 09 j 11:25	0°♊		evening set	-3114 Aug 17 j 05:07	13°♊15'25	
					-3114 Sep 01 j 04:07	15°♊	
conjunction	-3120 Jun 19 j 04:24	1°♊13'57	-0°18'26				
minimum elong	-3120 Jun 19 j 04:25	1°♊13'57	0°18'21	conjunction	-3114 Sep 03 j 00:51	15°♊13'09	2°11'58
max. Earth dist.	-3120 Jun 19 j 17:33	1°♊18'07	10.24314 AU	minimum elong	-3114 Sep 03 j 00:49	15°♊13'08	2°12'02
morning rise	-3120 Jul 07 j 01:42	3°♊29'24		max. Earth dist.	-3114 Sep 02 j 23:31	15°♊12'45	11.04205 AU
retrograde	-3120 Oct 16 j 13:38	11°♊14'42		morning rise	-3114 Sep 19 j 16:12	17°♊09'39	
opposition	-3120 Dec 22 j 07:01	7°♊50'28	-0°02'33	retrograde	-3114 Dec 27 j 07:07	24°♊02'03	
min. Earth dist.	-3120 Dec 21 j 20:40	7°♊52'33	8.31125 AU	opposition	-3113 Mar 06 j 14:55	20°♊45'32	2°47'05
asc. node	-3119 Jan 14 j 17:39	6°♊02'51		min. Earth dist.	-3113 Mar 06 j 16:41	20°♊45'13	9.08823 AU
direct	-3119 Mar 01 j 01:15	4°♊21'50		direct	-3113 May 17 j 06:33	17°♊23'54	
evening set	-3119 Jun 15 j 09:03	12°♊20'27		evening set	-3113 Aug 28 j 18:20	24°♊30'58	
conjunction	-3119 Jul 03 j 06:24	14°♊33'56	0°14'42	conjunction	-3113 Sep 14 j 10:11	26°♊26'43	2°20'45
minimum elong	-3119 Jul 03 j 06:23	14°♊33'56	0°14'48	minimum elong	-3113 Sep 14 j 10:10	26°♊26'43	2°20'48
behind sun begin	-3119 Jul 03 j 03:41	14°♊33'06		max. Earth dist.	-3113 Sep 14 j 06:25	26°♊25'37	11.12533 AU
behind sun end	-3119 Jul 03 j 09:04	14°♊34'46		morning rise	-3113 Sep 30 j 22:14	28°♊21'27	
max. Earth dist.	-3119 Jul 03 j 18:10	14°♊37'36	10.38372 AU		-3113 Oct 15 j 17:05	0°♊	
morning rise	-3119 Jul 20 j 23:01	16°♊45'56		retrograde	-3112 Jan 07 j 17:30	5°♊10'47	
retrograde	-3119 Oct 29 j 11:58	24°♊19'00		opposition	-3112 Mar 17 j 10:47	1°♊54'45	2°54'18
opposition	-3118 Jan 04 j 13:33	20°♊56'28	0°37'32	min. Earth dist.	-3112 Mar 17 j 15:25	1°♊53'54	9.15980 AU
min. Earth dist.	-3118 Jan 04 j 04:22	20°♊58'18	8.45577 AU		-3112 Apr 14 j 03:03	30°♊	
direct	-3118 Mar 15 j 00:16	17°♊28'48		direct	-3112 May 28 j 05:05	28°♊34'13	
evening set	-3118 Jun 29 j 02:32	25°♊17'44			-3112 Jul 10 j 07:36	0°♊	
				evening set	-3112 Sep 08 j 01:25	5°♊36'00	
conjunction	-3118 Jul 16 j 19:04	27°♊27'43	0°46'03	conjunction	-3112 Sep 24 j 14:08	7°♊30'21	2°24'07
minimum elong	-3118 Jul 16 j 19:02	27°♊27'42	0°46'10	minimum elong	-3112 Sep 24 j 14:08	7°♊30'21	2°24'09
max. Earth dist.	-3118 Jul 17 j 05:04	27°♊30'48	10.53035 AU	max. Earth dist.	-3112 Sep 24 j 07:07	7°♊28'19	11.18385 AU
morning rise	-3118 Aug 03 j 06:19	29°♊36'06		morning rise	-3112 Oct 11 j 00:01	9°♊23'54	
	-3118 Aug 06 j 13:56	0°♊		retrograde	-3111 Jan 18 j 00:02	16°♊11'51	
retrograde	-3118 Nov 11 j 02:03	6°♊57'57		opposition	-3111 Mar 29 j 04:37	12°♊56'01	2°55'02
opposition	-3117 Jan 17 j 12:19	3°♊37'03	1°14'22	min. Earth dist.	-3111 Mar 29 j 11:39	12°♊54'44	9.20536 AU
min. Earth dist.	-3117 Jan 17 j 05:17	3°♊38'26	8.60291 AU	direct	-3111 Jun 08 j 22:25	9°♊36'27	
direct	-3117 Mar 28 j 13:10	0°♊10'30		evening set	-3111 Sep 19 j 03:55	16°♊34'18	
evening set	-3117 Jul 12 j 07:47	7°♊49'41					
conjunction	-3117 Jul 29 j 18:54	9°♊56'11	1°14'19	conjunction	-3111 Oct 05 j 14:35	18°♊27'48	2°22'08
minimum elong	-3117 Jul 29 j 18:51	9°♊56'10	1°14'26	minimum elong	-3111 Oct 05 j 14:36	18°♊27'48	2°22'10
max. Earth dist.	-3117 Jul 30 j 02:12	9°♊58'24	10.67569 AU	max. Earth dist.	-3111 Oct 05 j 05:22	18°♊25'07	11.21581 AU
morning rise	-3117 Aug 16 j 00:39	12°♊01'04		morning rise	-3111 Oct 21 j 23:16	20°♊20'45	
retrograde	-3117 Nov 23 j 06:30	19°♊13'02		retrograde	-3110 Jan 29 j 09:49	27°♊09'05	
opposition	-3116 Jan 30 j 03:41	15°♊53'36	1°46'30	opposition	-3110 Apr 09 j 21:53	23°♊53'07	2°49'24
min. Earth dist.	-3116 Jan 29 j 23:24	15°♊54'26	8.74562 AU	min. Earth dist.	-3110 Apr 10 j 05:58	23°♊51'39	9.22346 AU
direct	-3116 Apr 09 j 17:15	12°♊28'14		direct	-3110 Jun 20 j 14:30	20°♊34'22	
evening set	-3116 Jul 24 j 01:14	19°♊58'07		evening set	-3110 Sep 30 j 03:27	27°♊29'35	
conjunction	-3116 Aug 10 j 06:47	22°♊01'18	1°38'28	conjunction	-3110 Oct 16 j 13:12	29°♊22'51	2°14'59
minimum elong	-3116 Aug 10 j 06:44	22°♊01'17	1°38'34	minimum elong	-3110 Oct 16 j 13:14	29°♊22'52	2°14'59
max. Earth dist.	-3116 Aug 10 j 10:21	22°♊02'22	10.81308 AU	max. Earth dist.	-3110 Oct 16 j 03:12	29°♊19'57	11.22006 AU
morning rise	-3116 Aug 27 j 07:19	24°♊02'59			-3110 Oct 21 j 21:25	0°♊	
	-3116 Oct 29 j 01:43	0°♊		morning rise	-3110 Nov 01 j 21:34	1°♊15'48	
retrograde	-3116 Dec 04 j 02:42	1°♊06'42		retrograde	-3109 Feb 09 j 21:52	8°♊06'08	
	-3115 Jan 09 j 23:31	30°♊		opposition	-3109 Apr 21 j 15:42	4°♊49'46	2°37'41
opposition	-3115 Feb 10 j 12:33	27°♊48'29	2°13'00	min. Earth dist.	-3109 Apr 22 j 00:59	4°♊48'05	9.21345 AU
min. Earth dist.	-3115 Feb 10 j 10:28	27°♊48'53	8.87743 AU	direct	-3109 Jul 02 j 02:12	1°♊31'39	
direct	-3115 Apr 22 j 14:38	24°♊24'21		evening set	-3109 Oct 11 j 02:19	8°♊25'40	
	-3115 Jul 20 j 17:31	0°♊					
evening set	-3115 Aug 05 j 07:56	1°♊45'39		conjunction	-3109 Oct 27 j 11:54	10°♊19'15	2°02'53
conjunction	-3115 Aug 22 j 08:14	3°♊45'52	1°57'48	minimum elong	-3109 Oct 27 j 11:57	10°♊19'15	2°02'52
minimum elong	-3115 Aug 22 j 08:11	3°♊45'51	1°57'53	max. Earth dist.	-3109 Oct 27 j 00:14	10°♊15'51	11.19643 AU
max. Earth dist.	-3115 Aug 22 j 08:48	3°♊46'02	10.93674 AU	morning rise	-3109 Nov 12 j 21:02	12°♊12'47	
morning rise	-3115 Sep 08 j 03:53	5°♊44'42		retrograde	-3108 Feb 21 j 12:12	19°♊06'43	
retrograde	-3115 Dec 15 j 19:12	12°♊41'54		opposition	-3108 May 02 j 11:12	15°♊49'42	2°20'09
opposition	-3114 Feb 22 j 15:52	9°♊24'40	2°33'17	min. Earth dist.	-3108 May 02 j 22:13	15°♊47'41	9.17566 AU
min. Earth dist.	-3114 Feb 22 j 15:28	9°♊24'44	8.99302 AU	direct	-3108 Jul 12 j 13:39	12°♊31'55	
direct	-3114 May 05 j 02:30	6°♊01'48		evening set	-3108 Oct 21 j 02:10	19°♊26'17	

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Attention, astronomical year style is used: The year -3108 in astronomical counting style is the year 3109 BCE in historical counting style.

conjunction	-3108 Nov 06 j 12:21	21° $\underline{\text{A}}$ 20'42	1°46'10	direct	-3102 Sep 21 j 08:34	22° A 58'03	
minimum elong	-3108 Nov 06 j 12:24	21° $\underline{\text{A}}$ 20'43	1°46'07		-3102 Dec 26 j 12:18	0° B	
max. Earth dist.	-3108 Nov 05 j 22:46	21° $\underline{\text{A}}$ 16'44	11.14571 AU	evening set	-3102 Dec 30 j 06:29	0° B 27'39	
morning rise	-3108 Nov 22 j 23:15	23° $\underline{\text{A}}$ 15'22					
	-3107 Feb 14 j 23:20	0° M		conjunction	-3101 Jan 16 j 09:17	2° B 36'11	-0°57'37
retrograde	-3107 Mar 04 j 07:51	0° M 14'34		minimum elong	-3101 Jan 16 j 09:14	2° B 36'10	0°57'44
	-3107 Mar 21 j 20:24	30° R $\underline{\text{A}}$		max. Earth dist.	-3101 Jan 15 j 24:00	2° B 33'15	10.41436 AU
opposition	-3107 May 14 j 09:50	26° $\underline{\text{A}}$ 56'36	1°57'13	morning rise	-3101 Feb 02 j 16:57	4° B 46'20	
min. Earth dist.	-3107 May 14 j 22:01	26° $\underline{\text{A}}$ 54'22	9.11134 AU	retrograde	-3101 May 20 j 08:29	12° B 46'15	
direct	-3107 Jul 24 j 02:52	23° $\underline{\text{A}}$ 38'56		opposition	-3101 Jul 29 j 00:49	9° B 18'57	-1°29'47
	-3107 Oct 27 j 01:39	0° M		min. Earth dist.	-3101 Jul 29 j 07:11	9° B 17'42	8.33898 AU
evening set	-3107 Nov 01 j 04:37	0° M 35'07		direct	-3101 Oct 04 j 07:14	5° B 56'32	
				evening set	-3100 Jan 12 j 16:32	13° B 36'55	
conjunction	-3107 Nov 17 j 16:22	2° M 30'54	1°25'13				
minimum elong	-3107 Nov 17 j 16:25	2° M 30'55	1°25'10	conjunction	-3100 Jan 29 j 23:03	15° B 48'38	-1°25'47
max. Earth dist.	-3107 Nov 17 j 02:43	2° M 26'53	11.06941 AU	minimum elong	-3100 Jan 29 j 23:00	15° B 48'37	1°25'54
morning rise	-3107 Dec 04 j 05:38	4° M 27'12		max. Earth dist.	-3100 Jan 29 j 16:53	15° B 46'39	10.26671 AU
retrograde	-3106 Mar 16 j 09:10	11° M 33'17		morning rise	-3100 Feb 16 j 10:35	18° B 02'01	
opposition	-3106 May 26 j 12:31	8° M 14'06	1°29'26	retrograde	-3100 Jun 02 j 18:34	26° B 14'00	
min. Earth dist.	-3106 May 27 j 00:26	8° M 11'54	9.02246 AU	opposition	-3100 Aug 10 j 21:43	22° B 45'07	-2°02'55
direct	-3106 Aug 04 j 18:16	4° M 56'17		min. Earth dist.	-3100 Aug 11 j 00:51	22° B 44'29	8.19726 AU
evening set	-3106 Nov 12 j 11:58	11° M 55'53		direct	-3100 Oct 16 j 15:22	19° B 21'15	
				evening set	-3099 Jan 25 j 16:06	27° B 12'49	
conjunction	-3106 Nov 29 j 01:58	13° M 53'30	1°00'36				
minimum elong	-3106 Nov 29 j 02:01	13° M 53'31	1°00'33	conjunction	-3099 Feb 12 j 02:24	29° B 27'38	-1°50'02
max. Earth dist.	-3106 Nov 28 j 12:50	13° M 49'36	10.96979 AU	minimum elong	-3099 Feb 12 j 02:20	29° B 27'37	1°50'08
	-3106 Dec 08 j 09:38	15° M		max. Earth dist.	-3099 Feb 11 j 23:24	29° B 26'39	10.13180 AU
morning rise	-3106 Dec 15 j 18:10	15° M 51'53			-3099 Feb 16 j 06:10	0° \approx	
retrograde	-3105 Mar 28 j 20:13	23° M 06'20		morning rise	-3099 Mar 01 j 17:44	1° \approx 44'06	
opposition	-3105 Jun 07 j 20:08	19° M 45'44	0°57'27	retrograde	-3099 Jun 17 j 13:04	10° \approx 06'44	
min. Earth dist.	-3105 Jun 08 j 07:25	19° M 43'38	8.91178 AU	opposition	-3099 Aug 25 j 01:57	6° \approx 36'32	-2°30'05
direct	-3105 Aug 16 j 13:19	16° M 27'29		min. Earth dist.	-3099 Aug 25 j 02:14	6° \approx 36'29	8.07260 AU
evening set	-3105 Nov 24 j 02:03	23° M 32'09		direct	-3099 Oct 30 j 08:32	3° \approx 11'10	
				evening set	-3098 Feb 09 j 04:39	11° \approx 13'36	
conjunction	-3105 Dec 10 j 18:40	25° M 32'01	0°33'01				
minimum elong	-3105 Dec 10 j 18:42	25° M 32'01	0°32'56	conjunction	-3098 Feb 26 j 18:47	13° \approx 31'16	-2°08'27
max. Earth dist.	-3105 Dec 10 j 05:16	25° M 27'59	10.84992 AU	minimum elong	-3098 Feb 26 j 18:44	13° \approx 31'15	2°08'32
morning rise	-3105 Dec 27 j 14:24	27° M 32'55		max. Earth dist.	-3098 Feb 26 j 19:12	13° \approx 31'24	10.01788 AU
	-3104 Jan 18 j 06:30	0° A			-3098 Mar 10 j 01:49	15° \approx	
retrograde	-3104 Apr 09 j 14:41	4° A 57'09		morning rise	-3098 Mar 16 j 13:45	15° \approx 50'29	
opposition	-3104 Jun 19 j 10:05	1° A 34'58	0°22'12	retrograde	-3098 Jul 02 j 13:56	24° \approx 21'22	
min. Earth dist.	-3104 Jun 19 j 21:04	1° A 32'54	8.78274 AU	opposition	-3098 Sep 08 j 12:19	20° \approx 50'13	-2°48'54
	-3104 Jul 11 j 07:21	30° R M		min. Earth dist.	-3098 Sep 08 j 09:58	20° \approx 50'42	7.97268 AU
direct	-3104 Aug 27 j 11:48	28° M 16'00		direct	-3098 Nov 13 j 11:23	17° \approx 23'22	
	-3104 Oct 11 j 23:59	0° A		evening set	-3097 Feb 24 j 04:37	25° \approx 35'29	
evening set	-3104 Dec 05 j 00:35	5° A 27'24					
conjunction	-3104 Dec 21 j 20:09	7° A 29'52	0°03'22	conjunction	-3097 Mar 13 j 22:34	27° \approx 55'34	-2°19'21
minimum elong	-3104 Dec 21 j 20:10	7° A 29'52	0°03'17	minimum elong	-3097 Mar 13 j 22:33	27° \approx 55'33	2°19'24
behind sun begin	-3104 Dec 21 j 13:10	7° A 27'45		max. Earth dist.	-3097 Mar 14 j 02:36	27° \approx 56'54	9.93229 AU
behind sun end	-3104 Dec 22 j 03:11	7° A 31'59			-3097 Mar 29 j 16:29	0° H	
max. Earth dist.	-3104 Dec 21 j 06:40	7° A 25'45	10.71364 AU	morning rise	-3097 Mar 31 j 20:46	0° H 17'00	
morning rise	-3103 Jan 07 j 19:50	9° A 33'37		retrograde	-3097 Jul 17 j 17:24	8° H 52'47	
desc. node	-3103 Jan 31 j 18:19	12° A 17'33		opposition	-3097 Sep 23 j 02:51	5° H 21'08	-2°57'25
retrograde	-3103 Apr 22 j 17:39	17° A 09'00		min. Earth dist.	-3097 Sep 22 j 22:03	5° H 22'08	7.90403 AU
opposition	-3103 Jul 02 j 07:11	13° A 45'07	-0°15'10	direct	-3097 Nov 27 j 23:26	1° H 52'58	
min. Earth dist.	-3103 Jul 02 j 17:47	13° A 43'05	8.63982 AU	evening set	-3096 Mar 10 j 13:18	10° H 12'38	
direct	-3103 Sep 08 j 18:16	10° A 25'12		conjunction	-3096 Mar 28 j 10:58	12° H 34'33	-2°21'31
evening set	-3103 Dec 17 j 09:32	17° A 44'59		minimum elong	-3096 Mar 28 j 10:59	12° H 34'33	2°21'33
				max. Earth dist.	-3096 Mar 28 j 18:46	12° H 37'08	9.88091 AU
conjunction	-3102 Jan 03 j 08:35	19° A 50'24	-0°27'23	morning rise	-3096 Apr 15 j 11:56	14° H 57'29	
minimum elong	-3102 Jan 03 j 08:34	19° A 50'23	0°27'29	retrograde	-3096 Jul 31 j 20:31	23° H 34'13	
max. Earth dist.	-3102 Jan 02 j 20:30	19° A 46'39	10.56608 AU	opposition	-3096 Oct 06 j 19:29	20° H 02'31	-2°54'27
morning rise	-3102 Jan 20 j 12:17	21° A 57'17		min. Earth dist.	-3096 Oct 06 j 12:13	20° H 04'03	7.87137 AU
retrograde	-3102 May 06 j 07:58	29° A 44'44		direct	-3096 Dec 11 j 18:01	16° H 33'16	
opposition	-3102 Jul 15 j 11:56	26° A 19'08	-0°53'07	evening set	-3095 Mar 26 j 03:16	24° H 57'37	
min. Earth dist.	-3102 Jul 15 j 21:00	26° A 17'23	8.48930 AU				

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Attention, astronomical year style is used: The year -3095 in astronomical counting style is the year 3096 BCE in historical counting style.

conjunction	-3095 Apr 13 j 04:16	27° K 20'37	-2°14'30	min. Earth dist.	-3090 Dec 29 j 06:41	15° II 01'03	8.37658 AU
minimum elong	-3095 Apr 13 j 04:19	27° K 20'38	2°14'30	direct	-3089 Mar 08 j 18:49	11° II 30'41	
max. Earth dist.	-3095 Apr 13 j 15:37	27° K 24'23	9.86733 AU	evening set	-3089 Jun 23 j 00:05	19° II 24'37	
morning rise	-3095 May 01 j 07:18	29° K 44'14					
	-3095 May 03 j 07:51	0° Y		conjunction	-3089 Jul 10 j 18:58	21° II 36'23	0°31'17
retrograde	-3095 Aug 15 j 20:21	8° Y 17'44		minimum elong	-3089 Jul 10 j 18:57	21° II 36'23	0°31'24
opposition	-3095 Oct 21 j 11:39	4° Y 46'29	-2°40'00	max. Earth dist.	-3089 Jul 11 j 06:05	21° II 39'50	10.45233 AU
min. Earth dist.	-3095 Oct 21 j 02:02	4° Y 48'30	7.87681 AU	morning rise	-3089 Jul 28 j 09:05	23° II 46'38	
direct	-3095 Dec 26 j 16:25	1° Y 16'28			-3089 Sep 29 j 05:06	0° S	
evening set	-3094 Apr 10 j 18:50	9° Y 42'13		retrograde	-3089 Nov 05 j 12:33	1° S 14'02	
					-3089 Dec 13 j 12:32	30° R II	
conjunction	-3094 Apr 28 j 22:21	12° Y 05'26	-1°58'43	opposition	-3088 Jan 11 j 18:59	27° II 52'15	0°57'11
minimum elong	-3094 Apr 28 j 22:24	12° Y 05'27	1°58'42	min. Earth dist.	-3088 Jan 11 j 10:29	27° II 53'55	8.52681 AU
max. Earth dist.	-3094 Apr 29 j 12:24	12° Y 10'05	9.89226 AU	direct	-3088 Mar 21 j 12:56	24° II 25'03	
morning rise	-3094 May 17 j 02:22	14° Y 28'46			-3088 Jun 16 j 21:45	0° S	
retrograde	-3094 Aug 30 j 14:00	22° Y 55'13		evening set	-3088 Jul 05 j 11:27	2° S 09'12	
opposition	-3094 Nov 05 j 00:56	19° Y 24'54	-2°15'10				
min. Earth dist.	-3094 Nov 04 j 13:33	19° Y 27'16	7.91981 AU	conjunction	-3088 Jul 23 j 01:13	4° S 17'27	1°01'13
direct	-3093 Jan 10 j 14:57	15° Y 54'27		minimum elong	-3088 Jul 23 j 01:11	4° S 17'26	1°01'20
evening set	-3093 Apr 26 j 07:54	24° Y 18'20		max. Earth dist.	-3088 Jul 23 j 09:54	4° S 20'06	10.60269 AU
				morning rise	-3088 Aug 09 j 09:52	6° S 24'05	
conjunction	-3093 May 14 j 12:40	26° Y 40'48	-1°35'28	retrograde	-3088 Nov 16 j 21:31	13° S 40'54	
minimum elong	-3093 May 14 j 12:44	26° Y 40'49	1°35'25	opposition	-3087 Jan 23 j 13:52	10° S 20'50	1°31'45
max. Earth dist.	-3093 May 15 j 04:29	26° Y 46'00	9.95377 AU	min. Earth dist.	-3087 Jan 23 j 06:50	10° S 22'12	8.67596 AU
morning rise	-3093 Jun 01 j 16:26	29° Y 02'54		direct	-3087 Apr 03 j 21:57	6° S 55'00	
	-3093 Jun 09 j 04:04	0° S		evening set	-3087 Jul 18 j 10:56	14° S 29'35	
retrograde	-3093 Sep 14 j 00:37	7° S 19'22					
opposition	-3093 Nov 19 j 09:26	3° S 50'20	-1°42'07	conjunction	-3087 Aug 04 j 19:18	16° S 34'23	1°27'28
min. Earth dist.	-3093 Nov 18 j 21:03	3° S 52'55	7.99732 AU	minimum elong	-3087 Aug 04 j 19:15	16° S 34'22	1°27'34
direct	-3092 Jan 25 j 11:26	0° S 19'52		max. Earth dist.	-3087 Aug 05 j 01:58	16° S 36'24	10.74818 AU
evening set	-3092 May 10 j 14:46	8° S 38'57		morning rise	-3087 Aug 21 j 22:20	18° S 37'37	
				retrograde	-3087 Nov 28 j 23:17	25° S 45'23	
conjunction	-3092 May 28 j 19:20	10° S 59'44	-1°06'38	opposition	-3086 Feb 05 j 02:12	22° S 26'49	2°01'04
minimum elong	-3092 May 28 j 19:23	10° S 59'45	1°06'33	min. Earth dist.	-3086 Feb 04 j 21:38	22° S 27'42	8.81712 AU
max. Earth dist.	-3092 May 29 j 11:49	11° S 05'05	10.04744 AU	direct	-3086 Apr 16 j 22:12	19° S 02'24	
morning rise	-3092 Jun 15 j 21:28	13° S 19'43		evening set	-3086 Jul 30 j 23:10	26° S 27'57	
	-3092 Jun 29 j 08:04	15° S					
retrograde	-3092 Sep 27 j 01:59	21° S 24'18		conjunction	-3086 Aug 17 j 02:05	28° S 29'35	1°49'11
opposition	-3092 Dec 02 j 11:26	17° S 56'53	-1°03'34	minimum elong	-3086 Aug 17 j 02:02	28° S 29'34	1°49'16
min. Earth dist.	-3092 Dec 01 j 23:14	17° S 59'24	8.10400 AU	max. Earth dist.	-3086 Aug 17 j 05:55	28° S 30'43	10.88237 AU
	-3091 Jan 14 j 08:06	15° R S			-3086 Aug 29 j 18:27	0° Q	
direct	-3091 Feb 08 j 04:10	14° S 26'46		morning rise	-3086 Sep 02 j 23:53	0° Q 29'44	
	-3091 Mar 05 j 01:59	15° S		retrograde	-3086 Dec 10 j 18:58	7° Q 30'05	
evening set	-3091 May 25 j 13:05	22° S 38'48		opposition	-3085 Feb 17 j 08:40	4° Q 12'46	2°24'22
				min. Earth dist.	-3085 Feb 17 j 07:07	4° Q 13'04	8.94425 AU
conjunction	-3091 Jun 12 j 15:48	24° S 57'06	-0°34'27	direct	-3085 Apr 29 j 13:09	0° Q 49'43	
minimum elong	-3091 Jun 12 j 15:49	24° S 57'06	0°34'22	evening set	-3085 Aug 12 j 01:26	8° Q 07'04	
max. Earth dist.	-3091 Jun 13 j 07:28	25° S 02'07	10.16682 AU				
morning rise	-3091 Jun 30 j 14:57	27° S 14'15		conjunction	-3085 Aug 28 j 23:14	10° Q 05'56	2°05'51
	-3091 Jul 23 j 15:23	0° II		minimum elong	-3085 Aug 28 j 23:12	10° Q 05'56	2°05'55
retrograde	-3091 Oct 10 j 16:09	5° II 06'04		max. Earth dist.	-3085 Aug 28 j 23:16	10° Q 05'57	10.99979 AU
opposition	-3091 Dec 16 j 05:52	1° II 40'30	-0°22'27	morning rise	-3085 Sep 14 j 16:35	12° Q 03'30	
min. Earth dist.	-3091 Dec 15 j 18:50	1° II 42'45	8.23299 AU		-3085 Oct 11 j 17:23	15° Q	
	-3090 Jan 06 j 18:51	30° R S		retrograde	-3085 Dec 22 j 07:33	18° Q 58'07	
direct	-3090 Feb 22 j 15:03	28° S 11'04		opposition	-3084 Feb 29 j 10:00	15° Q 41'44	2°41'15
	-3090 Apr 10 j 00:58	0° II		min. Earth dist.	-3084 Feb 29 j 11:17	15° Q 41'30	9.05208 AU
evening set	-3090 Jun 09 j 00:38	6° II 14'31			-3084 Mar 09 j 19:33	15° R Q	
				direct	-3084 May 10 j 22:17	12° Q 19'56	
conjunction	-3090 Jun 26 j 23:59	8° II 29'43	-0°01'11		-3084 Jul 09 j 13:55	15° Q	
minimum elong	-3090 Jun 26 j 23:59	8° II 29'43	0°01'05	evening set	-3084 Aug 22 j 18:56	19° Q 30'10	
behind sun begin	-3090 Jun 26 j 16:42	8° II 27'27					
behind sun end	-3090 Jun 27 j 07:17	8° II 32'00		conjunction	-3084 Sep 08 j 12:26	21° Q 26'47	2°17'11
max. Earth dist.	-3090 Jun 27 j 13:34	8° II 34'00	10.30442 AU	minimum elong	-3084 Sep 08 j 12:24	21° Q 26'46	2°17'14
asc. node	-3090 Jul 10 j 03:09	10° II 08'49		max. Earth dist.	-3084 Sep 08 j 08:56	21° Q 25'46	11.09564 AU
morning rise	-3090 Jul 14 j 19:02	10° II 43'33		morning rise	-3084 Sep 25 j 02:06	23° Q 22'17	
retrograde	-3090 Oct 23 j 18:43	18° II 22'45			-3084 Dec 16 j 18:19	0° R Q	
opposition	-3090 Dec 29 j 16:26	14° II 59'06	0°18'33	retrograde	-3083 Jan 01 j 19:05	0° R Q 12'58	

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Attention, astronomical year style is used: The year -3083 in astronomical counting style is the year 3084 BCE in historical counting style.

	-3083 Jan 17 j 23:30	30° κ δ		min. Earth dist.	-3077 May 21 j 20:40	3° μ 13'37	9.05189 AU
opposition	-3083 Mar 12 j 07:37	26° δ 57'10	2°51'34		-3077 Jul 24 j 03:56	30° κ δ	
min. Earth dist.	-3083 Mar 12 j 10:56	26° δ 56'33	9.13597 AU	direct	-3077 Jul 30 j 18:43	29° δ 57'50	
direct	-3083 May 23 j 01:18	23° δ 36'32			-3077 Aug 06 j 09:47	0° μ	
	-3083 Aug 28 j 04:13	0° μ		evening set	-3077 Nov 07 j 16:47	6° μ 56'12	
evening set	-3083 Sep 03 j 05:12	0° μ 40'51					
				conjunction	-3077 Nov 24 j 05:38	8° μ 53'04	1°12'23
conjunction	-3083 Sep 19 j 19:20	2° μ 35'47	2°23'06	minimum elong	-3077 Nov 24 j 05:40	8° μ 53'05	1°12'19
minimum elong	-3083 Sep 19 j 19:20	2° μ 35'47	2°23'09	max. Earth dist.	-3077 Nov 23 j 14:23	8° μ 48'33	11.00215 AU
max. Earth dist.	-3083 Sep 19 j 13:42	2° μ 34'09	11.16585 AU	morning rise	-3077 Dec 10 j 20:33	10° μ 50'36	
morning rise	-3083 Oct 06 j 06:06	4° μ 29'48			-3076 Jan 19 j 09:55	15° μ	
retrograde	-3082 Jan 13 j 04:32	11° μ 18'21		retrograde	-3076 Mar 22 j 11:39	18° μ 01'29	
opposition	-3082 Mar 24 j 02:49	8° μ 02'51	2°55'20		-3076 May 28 j 07:23	15° κ μ	
min. Earth dist.	-3082 Mar 24 j 08:26	8° μ 01'49	9.19262 AU	opposition	-3076 Jun 01 j 13:18	14° μ 41'06	1°12'42
direct	-3082 Jun 03 j 20:45	4° μ 43'15		min. Earth dist.	-3076 Jun 02 j 02:26	14° μ 38'39	8.94735 AU
evening set	-3082 Sep 14 j 10:11	11° μ 43'00		direct	-3076 Aug 10 j 12:38	11° μ 22'30	
					-3076 Oct 17 j 17:37	15° μ	
conjunction	-3082 Sep 30 j 21:51	13° μ 36'51	2°23'36	evening set	-3076 Nov 18 j 03:33	18° μ 25'16	
minimum elong	-3082 Sep 30 j 21:51	13° μ 36'51	2°23'39				
max. Earth dist.	-3082 Sep 30 j 13:42	13° μ 34'29	11.20813 AU	conjunction	-3076 Dec 04 j 18:54	20° μ 24'14	0°46'03
morning rise	-3082 Oct 17 j 06:50	15° μ 30'01		minimum elong	-3076 Dec 04 j 18:56	20° μ 24'15	0°45'59
retrograde	-3081 Jan 24 j 14:05	22° μ 18'12		max. Earth dist.	-3076 Dec 04 j 04:17	20° μ 19'51	10.88823 AU
opposition	-3081 Apr 04 j 20:46	19° μ 02'40	2°52'40	morning rise	-3076 Dec 21 j 13:06	22° μ 24'08	
min. Earth dist.	-3081 Apr 05 j 05:16	19° μ 01'07	9.22070 AU	retrograde	-3075 Apr 04 j 01:02	29° μ 44'18	
direct	-3081 Jun 15 j 13:23	15° μ 43'50		opposition	-3075 Jun 14 j 00:30	26° μ 22'17	0°38'48
evening set	-3081 Sep 25 j 11:34	22° μ 40'25		min. Earth dist.	-3075 Jun 14 j 12:41	26° μ 20'00	8.82399 AU
				direct	-3075 Aug 22 j 10:05	23° μ 03'03	
conjunction	-3081 Oct 11 j 21:37	24° μ 33'47	2°18'51		-3075 Nov 28 j 05:55	0° χ	
minimum elong	-3081 Oct 11 j 21:38	24° μ 33'47	2°18'52	evening set	-3075 Nov 29 j 21:54	0° χ 11'52	
max. Earth dist.	-3081 Oct 11 j 10:16	24° μ 30'30	11.22184 AU				
morning rise	-3081 Oct 28 j 06:05	26° μ 26'43		conjunction	-3075 Dec 16 j 16:17	2° χ 13'19	0°17'12
	-3081 Dec 01 j 07:02	0° δ		minimum elong	-3075 Dec 16 j 16:18	2° χ 13'19	0°17'06
retrograde	-3080 Feb 04 j 23:33	3° δ 16'10		max. Earth dist.	-3075 Dec 16 j 03:24	2° χ 09'24	10.75746 AU
opposition	-3080 Apr 15 j 14:40	0° δ 00'15	2°43'46	morning rise	-3074 Jan 02 j 14:06	4° χ 15'55	
	-3080 Apr 15 j 16:05	30° κ μ		retrograde	-3074 Apr 17 j 00:54	11° χ 46'45	
min. Earth dist.	-3080 Apr 16 j 01:21	29° μ 58'19	9.21988 AU	opposition	-3074 Jun 26 j 18:21	8° χ 23'01	0°02'12
direct	-3080 Jun 26 j 02:57	26° μ 41'58		min. Earth dist.	-3074 Jun 27 j 04:36	8° χ 21'04	8.68636 AU
	-3080 Aug 31 j 19:38	0° δ		desc. node	-3074 Jul 18 j 21:02	6° χ 46'12	
evening set	-3080 Oct 05 j 11:01	3° δ 36'47		direct	-3074 Sep 03 j 13:52	5° χ 02'57	
				evening set	-3074 Dec 12 j 02:05	12° χ 19'23	
conjunction	-3080 Oct 21 j 20:31	5° δ 30'13	2°09'01				
minimum elong	-3080 Oct 21 j 20:34	5° δ 30'13	2°09'00	conjunction	-3074 Dec 28 j 23:42	14° χ 23'39	-0°13'16
max. Earth dist.	-3080 Oct 21 j 07:39	5° δ 26'28	11.20698 AU	minimum elong	-3074 Dec 28 j 23:41	14° χ 23'39	0°13'22
morning rise	-3080 Nov 07 j 05:19	7° δ 23'30		behind sun begin	-3074 Dec 28 j 19:34	14° χ 22'24	
retrograde	-3079 Feb 15 j 12:49	14° δ 15'55		behind sun end	-3074 Dec 29 j 03:48	14° χ 24'54	
opposition	-3079 Apr 27 j 09:39	10° δ 59'15	2°28'54	max. Earth dist.	-3074 Dec 28 j 11:56	14° χ 20'02	10.61487 AU
min. Earth dist.	-3079 Apr 27 j 21:10	10° δ 57'09	9.19054 AU	morning rise	-3073 Jan 15 j 01:27	16° χ 29'17	
direct	-3079 Jul 07 j 17:06	7° δ 41'16		retrograde	-3073 Apr 30 j 11:59	24° χ 11'45	
evening set	-3079 Oct 16 j 10:26	14° δ 35'43		opposition	-3073 Jul 09 j 19:33	20° χ 46'19	-0°35'45
				min. Earth dist.	-3073 Jul 10 j 04:07	20° χ 44'40	8.54007 AU
conjunction	-3079 Nov 01 j 20:24	16° δ 29'48	1°54'24	direct	-3073 Sep 15 j 22:51	17° χ 25'13	
minimum elong	-3079 Nov 01 j 20:27	16° δ 29'49	1°54'22	evening set	-3073 Dec 24 j 17:32	24° χ 50'47	
max. Earth dist.	-3079 Nov 01 j 07:10	16° δ 25'56	11.16427 AU				
morning rise	-3079 Nov 18 j 06:20	18° δ 23'58		conjunction	-3072 Jan 10 j 18:33	26° χ 58'04	-0°43'54
retrograde	-3078 Feb 27 j 07:15	25° δ 20'57		minimum elong	-3072 Jan 10 j 18:31	26° χ 58'03	0°44'00
opposition	-3078 May 09 j 07:03	22° δ 03'16	2°08'27	max. Earth dist.	-3072 Jan 10 j 08:10	26° χ 54'49	10.46660 AU
min. Earth dist.	-3078 May 09 j 18:53	22° δ 01'06	9.13390 AU	morning rise	-3072 Jan 28 j 00:25	29° χ 06'54	
direct	-3078 Jul 19 j 05:27	18° δ 45'20			-3072 Feb 04 j 07:24	0° χ	
evening set	-3078 Oct 27 j 11:39	25° δ 40'55		retrograde	-3072 May 13 j 07:33	7° χ 01'38	
				opposition	-3072 Jul 22 j 04:58	3° χ 34'34	-1°13'18
conjunction	-3078 Nov 12 j 22:46	27° δ 36'09	1°35'22	min. Earth dist.	-3072 Jul 22 j 11:44	3° χ 33'14	8.39181 AU
minimum elong	-3078 Nov 12 j 22:49	27° δ 36'10	1°35'19	direct	-3072 Sep 27 j 17:00	0° χ 12'17	
max. Earth dist.	-3078 Nov 12 j 08:31	27° δ 31'58	11.09522 AU	evening set	-3071 Jan 05 j 21:25	7° χ 48'09	
morning rise	-3078 Nov 29 j 10:48	29° δ 31'46					
	-3078 Dec 03 j 13:33	0° μ		conjunction	-3071 Jan 23 j 02:04	9° χ 58'32	-1°13'15
retrograde	-3077 Mar 11 j 05:36	6° μ 34'55		minimum elong	-3071 Jan 23 j 02:01	9° χ 58'31	1°13'21
opposition	-3077 May 21 j 07:55	3° μ 15'58	1°42'51	max. Earth dist.	-3071 Jan 22 j 18:17	9° χ 56'04	10.31976 AU

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Attention, astronomical year style is used: The year -3071 in astronomical counting style is the year 3072 BCE in historical counting style.

morning rise	-3071 Feb 09 j 12:00	12° Z 10'37	evening set	-3065 Apr 04 j 02:26	3° Y 17'06	
retrograde	-3071 May 27 j 12:35	20° Z 17'37				
opposition	-3071 Aug 04 j 22:33	16° Z 49'02 -1°48'21	conjunction	-3065 Apr 22 j 04:44	5° Y 40'11 -2°06'46	
min. Earth dist.	-3071 Aug 05 j 03:06	16° Z 48'07 8.24909 AU	minimum elong	-3065 Apr 22 j 04:47	5° Y 40'12 2°06'45	
direct	-3071 Oct 10 j 21:50	13° Z 25'28	max. Earth dist.	-3065 Apr 22 j 18:40	5° Y 44'49 9.88818 AU	
evening set	-3070 Jan 19 j 14:51	21° Z 12'20	morning rise	-3065 May 10 j 08:18	8° Y 03'37	
			retrograde	-3065 Aug 24 j 09:53	16° Y 33'22	
conjunction	-3070 Feb 05 j 23:23	23° Z 25'51 -1°39'32	opposition	-3065 Oct 29 j 21:18	13° Y 03'05 -2°27'22	
minimum elong	-3070 Feb 05 j 23:20	23° Z 25'50 1°39'37	min. Earth dist.	-3065 Oct 29 j 10:29	13° Y 05'21 7.90920 AU	
max. Earth dist.	-3070 Feb 05 j 19:27	23° Z 24'35 10.18213 AU	direct	-3064 Jan 04 j 04:51	9° Y 33'22	
morning rise	-3070 Feb 23 j 13:09	25° Z 41'05	evening set	-3064 Apr 18 j 17:06	17° Y 57'56	
	-3070 Apr 01 j 13:29	0° \approx				
retrograde	-3070 Jun 11 j 03:06	3° \approx 59'24	conjunction	-3064 May 06 j 21:12	20° Y 20'39 -1°46'41	
opposition	-3070 Aug 18 j 23:40	0° \approx 29'33 -2°18'33	minimum elong	-3064 May 06 j 21:16	20° Y 20'40 1°46'39	
min. Earth dist.	-3070 Aug 19 j 01:10	0° \approx 29'15 8.11987 AU	max. Earth dist.	-3064 May 07 j 12:06	20° Y 25'34 9.93590 AU	
	-3070 Aug 25 j 02:13	30° R Z	morning rise	-3064 May 25 j 01:14	22° Y 43'15	
direct	-3070 Oct 24 j 11:38	27° Z 04'41		-3064 Aug 04 j 00:08	0° Z	
	-3070 Dec 20 j 20:42	0° \approx	retrograde	-3064 Sep 06 j 23:52	1° Z 04'04	
evening set	-3069 Feb 02 j 21:43	5° \approx 02'35		-3064 Oct 11 j 04:22	30° R Y	
			opposition	-3064 Nov 12 j 08:08	27° Y 34'58 -1°57'45	
conjunction	-3069 Feb 20 j 10:11	7° \approx 19'03 -2°00'50	min. Earth dist.	-3064 Nov 11 j 20:58	27° Y 37'18 7.97273 AU	
minimum elong	-3069 Feb 20 j 10:08	7° \approx 19'02 2°00'55	direct	-3063 Jan 18 j 03:34	24° Y 05'00	
max. Earth dist.	-3069 Feb 20 j 10:31	7° \approx 19'10 10.06185 AU		-3063 Apr 14 j 10:14	0° Z	
morning rise	-3069 Mar 10 j 03:30	9° \approx 37'09	evening set	-3063 May 04 j 03:11	2° Z 26'04	
	-3069 Apr 26 j 06:36	15° \approx				
retrograde	-3069 Jun 26 j 01:40	18° \approx 04'54	conjunction	-3063 May 22 j 07:49	4° Z 47'32 -1°20'07	
	-3069 Aug 28 j 00:54	15° R \approx	minimum elong	-3063 May 22 j 07:52	4° Z 47'33 1°20'04	
opposition	-3069 Sep 02 j 07:39	14° \approx 34'06 -2°41'26	max. Earth dist.	-3063 May 22 j 22:32	4° Z 52'20 10.01526 AU	
min. Earth dist.	-3069 Sep 02 j 05:39	14° \approx 34'31 8.01201 AU	morning rise	-3063 Jun 09 j 10:58	7° Z 08'26	
direct	-3069 Nov 07 j 10:06	11° \approx 07'58		-3063 Sep 03 j 06:19	15° Z	
	-3068 Jan 12 j 23:11	15° \approx	retrograde	-3063 Sep 21 j 04:39	15° Z 18'12	
evening set	-3068 Feb 17 j 16:49	19° \approx 16'04		-3063 Oct 09 j 04:13	15° R Z	
			opposition	-3063 Nov 26 j 13:09	11° Z 50'36 -1°21'21	
conjunction	-3068 Mar 06 j 09:08	21° \approx 35'08 -2°15'20	min. Earth dist.	-3063 Nov 26 j 01:58	11° Z 52'55 8.06504 AU	
minimum elong	-3068 Mar 06 j 09:06	21° \approx 35'07 2°15'24	direct	-3062 Feb 01 j 23:30	8° Z 20'48	
max. Earth dist.	-3068 Mar 06 j 13:53	21° \approx 36'42 9.96676 AU		-3062 May 06 j 07:14	15° Z	
morning rise	-3068 Mar 24 j 05:45	23° \approx 55'39	evening set	-3062 May 19 j 05:47	16° Z 36'01	
	-3068 May 17 j 07:15	0° X				
retrograde	-3068 Jul 10 j 05:16	2° X 29'54	conjunction	-3062 Jun 06 j 09:24	18° Z 55'25 -0°49'11	
	-3068 Sep 03 j 07:58	30° R \approx	minimum elong	-3062 Jun 06 j 09:26	18° Z 55'25 0°49'06	
opposition	-3068 Sep 15 j 20:55	28° \approx 58'34 -2°54'48	max. Earth dist.	-3062 Jun 06 j 23:30	18° Z 59'58 10.12064 AU	
min. Earth dist.	-3068 Sep 15 j 15:32	28° \approx 59'41 7.93272 AU	morning rise	-3062 Jun 24 j 10:10	21° Z 13'51	
direct	-3068 Nov 20 j 17:58	25° \approx 31'15	retrograde	-3062 Oct 04 j 23:11	29° Z 11'26	
	-3067 Jan 31 j 19:45	0° X	opposition	-3062 Dec 10 j 11:14	25° Z 45'32 -0°41'03	
evening set	-3067 Mar 03 j 22:17	3° X 47'50	min. Earth dist.	-3062 Dec 10 j 00:04	25° Z 47'48 8.18076 AU	
			direct	-3061 Feb 16 j 13:42	22° Z 16'14	
conjunction	-3067 Mar 21 j 18:22	6° X 08'59 -2°21'34		-3061 May 30 j 17:59	0° II	
minimum elong	-3067 Mar 21 j 18:21	6° X 08'59 2°21'37	evening set	-3061 Jun 02 j 22:38	0° II 23'44	
max. Earth dist.	-3067 Mar 22 j 03:05	6° X 11'53 9.90359 AU				
morning rise	-3067 Apr 08 j 17:57	8° X 31'18	conjunction	-3061 Jun 20 j 23:43	2° II 40'23 -0°16'07	
retrograde	-3067 Jul 25 j 09:52	17° X 08'13	minimum elong	-3061 Jun 20 j 23:44	2° II 40'23 0°16'02	
opposition	-3067 Sep 30 j 13:11	13° X 36'47 -2°57'05	max. Earth dist.	-3061 Jun 21 j 13:10	2° II 44'38 10.24636 AU	
min. Earth dist.	-3067 Sep 30 j 05:07	13° X 38'28 7.88761 AU	morning rise	-3061 Jul 08 j 20:47	4° II 55'45	
direct	-3067 Dec 05 j 09:17	10° X 08'26	retrograde	-3061 Oct 18 j 08:06	12° II 40'52	
evening set	-3066 Mar 19 j 10:51	18° X 30'55	asc. node	-3061 Dec 20 j 23:32	9° II 31'37	
			opposition	-3061 Dec 24 j 01:42	9° II 16'42 0°00'20	
conjunction	-3066 Apr 06 j 10:22	20° X 53'28 -2°18'42	min. Earth dist.	-3061 Dec 23 j 15:25	9° II 18'46 8.31379 AU	
minimum elong	-3066 Apr 06 j 10:24	20° X 53'28 2°18'43	direct	-3060 Mar 01 j 20:06	5° II 48'09	
max. Earth dist.	-3066 Apr 06 j 22:10	20° X 57'23 9.87686 AU	evening set	-3060 Jun 16 j 04:06	13° II 46'41	
morning rise	-3066 Apr 24 j 12:23	23° X 16'48				
	-3066 Jun 24 j 20:16	0° Y	conjunction	-3060 Jul 04 j 01:22	16° II 00'07 0°17'00	
retrograde	-3066 Aug 09 j 12:32	1° Y 52'09	minimum elong	-3060 Jul 04 j 01:21	16° II 00'07 0°17'06	
	-3066 Sep 24 j 17:54	30° R X	max. Earth dist.	-3060 Jul 04 j 13:20	16° II 03'51 10.38553 AU	
opposition	-3066 Oct 15 j 06:13	28° X 21'05 -2°47'44	morning rise	-3060 Jul 21 j 17:45	18° II 12'03	
min. Earth dist.	-3066 Oct 14 j 20:25	28° X 23'08 7.87975 AU	retrograde	-3060 Oct 30 j 08:11	25° II 45'05	
direct	-3066 Dec 20 j 05:53	24° X 51'55	opposition	-3059 Jan 05 j 08:18	22° II 22'39 0°40'19	
	-3065 Mar 08 j 12:48	0° Y	min. Earth dist.	-3059 Jan 04 j 23:53	22° II 24'20 8.45685 AU	

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Attention, astronomical year style is used: The year -3059 in astronomical counting style is the year 3060 BCE in historical counting style.

direct	-3059 Mar 15 j 17:22	18° Π 55'03		evening set	-3053 Sep 09 j 21:35	7° Π 06'31	
evening set	-3059 Jun 29 j 21:41	26° Π 44'03					
				conjunction	-3053 Sep 26 j 10:15	9° Π 00'55	2°24'08
conjunction	-3059 Jul 17 j 14:00	28° Π 54'01	0°48'15	minimum elong	-3053 Sep 26 j 10:15	9° Π 00'55	2°24'11
minimum elong	-3059 Jul 17 j 13:57	28° Π 54'00	0°48'22	max. Earth dist.	-3053 Sep 26 j 03:09	8° Π 58'52	11.17652 AU
max. Earth dist.	-3059 Jul 17 j 23:21	28° Π 56'54	10.53060 AU	morning rise	-3053 Oct 12 j 20:10	10° Π 54'34	
	-3059 Jul 26 j 12:17	0° \mathfrak{D}		retrograde	-3052 Jan 19 j 21:39	17° Π 43'02	
morning rise	-3059 Aug 04 j 01:04	1° \mathfrak{D} 02'23		opposition	-3052 Mar 30 j 01:44	14° Π 27'04	2°54'48
retrograde	-3059 Nov 11 j 20:34	8° \mathfrak{D} 24'18		min. Earth dist.	-3052 Mar 30 j 08:06	14° Π 25'54	9.19770 AU
opposition	-3058 Jan 18 j 07:11	5° \mathfrak{D} 03'30	1°16'57	direct	-3052 Jun 09 j 20:47	11° Π 07'26	
min. Earth dist.	-3058 Jan 18 j 01:07	5° \mathfrak{D} 04'41	8.60246 AU	evening set	-3052 Sep 20 j 00:18	18° Π 05'35	
direct	-3058 Mar 29 j 07:54	1° \mathfrak{D} 36'59					
evening set	-3058 Jul 13 j 03:02	9° \mathfrak{D} 16'24		conjunction	-3052 Oct 06 j 11:06	19° Π 59'12	2°21'41
				minimum elong	-3052 Oct 06 j 11:07	19° Π 59'12	2°21'43
conjunction	-3058 Jul 30 j 13:51	11° \mathfrak{D} 22'52	1°16'18	max. Earth dist.	-3052 Oct 06 j 02:48	19° Π 56'48	11.20786 AU
minimum elong	-3058 Jul 30 j 13:48	11° \mathfrak{D} 22'51	1°16'25	morning rise	-3052 Oct 22 j 19:43	21° Π 52'15	
max. Earth dist.	-3058 Jul 30 j 19:52	11° \mathfrak{D} 24'42	10.67438 AU	retrograde	-3051 Jan 30 j 07:58	28° Π 41'04	
morning rise	-3058 Aug 16 j 19:31	13° \mathfrak{D} 27'46		opposition	-3051 Apr 10 j 19:25	25° Π 24'58	2°48'35
retrograde	-3058 Nov 24 j 00:29	20° \mathfrak{D} 39'59		min. Earth dist.	-3051 Apr 11 j 03:01	25° Π 23'35	9.21525 AU
opposition	-3057 Jan 30 j 22:52	17° \mathfrak{D} 20'36	1°48'47	direct	-3051 Jun 21 j 10:59	22° Π 06'10	
min. Earth dist.	-3057 Jan 30 j 18:43	17° \mathfrak{D} 21'24	8.74363 AU	evening set	-3051 Oct 01 j 00:14	29° Π 01'39	
direct	-3057 Apr 11 j 13:52	13° \mathfrak{D} 55'17			-3051 Oct 09 j 11:56	0° \mathfrak{A}	
evening set	-3057 Jul 25 j 20:28	21° \mathfrak{D} 25'26					
				conjunction	-3051 Oct 17 j 10:01	0° \mathfrak{A} 55'02	2°14'03
conjunction	-3057 Aug 12 j 01:50	23° \mathfrak{D} 28'37	1°40'10	minimum elong	-3051 Oct 17 j 10:02	0° \mathfrak{A} 55'02	2°14'03
minimum elong	-3057 Aug 12 j 01:47	23° \mathfrak{D} 28'36	1°40'15	max. Earth dist.	-3051 Oct 17 j 00:08	0° \mathfrak{A} 52'10	11.21173 AU
max. Earth dist.	-3057 Aug 12 j 04:56	23° \mathfrak{D} 29'33	10.81031 AU	morning rise	-3051 Nov 02 j 18:26	2° \mathfrak{A} 48'06	
morning rise	-3057 Aug 29 j 02:13	25° \mathfrak{D} 30'18		retrograde	-3050 Feb 10 j 19:26	9° \mathfrak{A} 38'55	
	-3057 Oct 11 j 00:36	0° \mathfrak{Q}		opposition	-3050 Apr 22 j 13:46	6° \mathfrak{A} 22'26	2°36'17
retrograde	-3057 Dec 05 j 23:10	2° \mathfrak{Q} 34'23		min. Earth dist.	-3050 Apr 22 j 23:19	6° \mathfrak{A} 20'41	9.20505 AU
	-3056 Feb 02 j 15:37	30° \mathfrak{R} \mathfrak{D}		direct	-3050 Jul 02 j 23:07	3° \mathfrak{A} 04'13	
opposition	-3056 Feb 12 j 08:01	29° \mathfrak{D} 16'11	2°14'53	evening set	-3050 Oct 11 j 23:24	9° \mathfrak{A} 58'31	
min. Earth dist.	-3056 Feb 12 j 05:30	29° \mathfrak{D} 16'40	8.87396 AU				
direct	-3056 Apr 23 j 09:51	25° \mathfrak{D} 52'07		conjunction	-3050 Oct 28 j 08:59	11° \mathfrak{A} 52'13	2°01'30
	-3056 Jul 07 j 12:08	0° \mathfrak{Q}		minimum elong	-3050 Oct 28 j 09:01	11° \mathfrak{A} 52'14	2°01'28
evening set	-3056 Aug 06 j 03:19	3° \mathfrak{Q} 13'41		max. Earth dist.	-3050 Oct 27 j 20:56	11° \mathfrak{A} 48'43	11.18813 AU
				morning rise	-3050 Nov 13 j 18:22	13° \mathfrak{A} 45'53	
conjunction	-3056 Aug 23 j 03:34	5° \mathfrak{Q} 13'57	1°59'09	retrograde	-3049 Feb 22 j 10:10	20° \mathfrak{A} 40'19	
minimum elong	-3056 Aug 23 j 03:31	5° \mathfrak{Q} 13'56	1°59'14	opposition	-3049 May 04 j 09:40	17° \mathfrak{A} 23'09	2°18'13
max. Earth dist.	-3056 Aug 23 j 04:38	5° \mathfrak{Q} 14'16	10.93257 AU	min. Earth dist.	-3049 May 04 j 20:49	17° \mathfrak{A} 21'07	9.16746 AU
morning rise	-3056 Sep 08 j 22:59	7° \mathfrak{Q} 12'49		direct	-3049 Jul 14 j 11:35	14° \mathfrak{A} 05'17	
retrograde	-3056 Dec 16 j 15:05	14° \mathfrak{Q} 10'25		evening set	-3049 Oct 22 j 23:28	20° \mathfrak{A} 59'55	
opposition	-3055 Feb 23 j 11:41	10° \mathfrak{Q} 53'10	2°34'43				
min. Earth dist.	-3055 Feb 23 j 11:18	10° \mathfrak{Q} 53'14	8.98818 AU	conjunction	-3049 Nov 08 j 09:51	22° \mathfrak{A} 54'28	1°44'21
direct	-3055 May 05 j 21:36	7° \mathfrak{Q} 30'19		minimum elong	-3049 Nov 08 j 09:54	22° \mathfrak{A} 54'28	1°44'18
evening set	-3055 Aug 18 j 00:49	14° \mathfrak{Q} 44'17		max. Earth dist.	-3049 Nov 07 j 20:54	22° \mathfrak{A} 50'40	11.13772 AU
	-3055 Aug 20 j 07:21	15° \mathfrak{Q}		morning rise	-3049 Nov 24 j 20:56	24° \mathfrak{A} 49'16	
					-3048 Jan 16 j 23:57	0° \mathfrak{M}	
conjunction	-3055 Sep 03 j 20:26	16° \mathfrak{Q} 42'03	2°12'55	retrograde	-3048 Mar 05 j 05:43	1° \mathfrak{M} 48'57	
minimum elong	-3055 Sep 03 j 20:24	16° \mathfrak{Q} 42'03	2°12'58		-3048 Apr 24 j 07:35	30° \mathfrak{R} \mathfrak{A}	
max. Earth dist.	-3055 Sep 03 j 19:13	16° \mathfrak{Q} 41'42	11.03656 AU	opposition	-3048 May 15 j 08:29	28° \mathfrak{A} 30'50	1°54'47
morning rise	-3055 Sep 20 j 11:37	18° \mathfrak{Q} 38'36		min. Earth dist.	-3048 May 15 j 19:52	28° \mathfrak{A} 28'45	9.10356 AU
retrograde	-3055 Dec 28 j 04:06	25° \mathfrak{Q} 31'27		direct	-3048 Jul 25 j 01:18	25° \mathfrak{A} 13'06	
opposition	-3054 Mar 07 j 11:16	22° \mathfrak{Q} 14'55	2°47'59		-3048 Oct 13 j 15:03	0° \mathfrak{M}	
min. Earth dist.	-3054 Mar 07 j 13:46	22° \mathfrak{Q} 14'27	9.08220 AU	evening set	-3048 Nov 02 j 02:15	2° \mathfrak{M} 09'33	
direct	-3054 May 18 j 02:31	18° \mathfrak{Q} 53'15					
evening set	-3054 Aug 29 j 14:18	26° \mathfrak{Q} 00'40		conjunction	-3048 Nov 18 j 14:16	4° \mathfrak{M} 05'28	1°23'02
				minimum elong	-3048 Nov 18 j 14:18	4° \mathfrak{M} 05'29	1°22'59
conjunction	-3054 Sep 15 j 05:55	27° \mathfrak{Q} 56'28	2°21'15	max. Earth dist.	-3048 Nov 18 j 01:43	4° \mathfrak{M} 01'46	11.06193 AU
minimum elong	-3054 Sep 15 j 05:54	27° \mathfrak{Q} 56'28	2°21'17	morning rise	-3048 Dec 05 j 03:37	6° \mathfrak{M} 01'53	
max. Earth dist.	-3054 Sep 15 j 01:23	27° \mathfrak{Q} 55'09	11.11877 AU	retrograde	-3047 Mar 17 j 09:47	13° \mathfrak{M} 08'27	
morning rise	-3054 Oct 01 j 17:59	29° \mathfrak{Q} 51'17		opposition	-3047 May 27 j 11:26	9° \mathfrak{M} 49'08	1°26'34
	-3054 Oct 03 j 00:35	0° \mathfrak{M}		min. Earth dist.	-3047 May 27 j 22:23	9° \mathfrak{M} 47'07	9.01539 AU
retrograde	-3053 Jan 08 j 12:32	6° \mathfrak{M} 41'05		direct	-3047 Aug 05 j 17:09	6° \mathfrak{M} 31'17	
opposition	-3053 Mar 19 j 07:36	3° \mathfrak{M} 24'58	2°54'39	evening set	-3047 Nov 13 j 10:01	13° \mathfrak{M} 31'08	
min. Earth dist.	-3053 Mar 19 j 12:30	3° \mathfrak{M} 24'04	9.15285 AU		-3047 Nov 25 j 23:12	15° \mathfrak{M}	
direct	-3053 May 30 j 00:46	0° \mathfrak{M} 04'23		max. Earth dist.	-3047 Nov 29 j 11:14	15° \mathfrak{M} 25'02	10.96328 AU

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Attention, astronomical year style is used: The year -3047 in astronomical counting style is the year 3048 BCE in historical counting style.

conjunction	-3047 Nov 30 j 00:08	15° ℓ 28'52	0°58'07		-3040 Feb 05 j 18:25	0° ≈	
minimum elong	-3047 Nov 30 j 00:10	15° ℓ 28'53	0°58'04				
morning rise	-3047 Dec 16 j 16:33	17° ℓ 27'23		conjunction	-3040 Feb 14 j 01:46	1° ≈ 04'34	-1°51'45
retrograde	-3046 Mar 29 j 19:26	24° ℓ 42'16		minimum elong	-3040 Feb 14 j 01:42	1° ≈ 04'33	1°51'50
opposition	-3046 Jun 08 j 19:31	21° ℓ 21'35	0°54'16	max. Earth dist.	-3040 Feb 13 j 22:10	1° ≈ 03'24	10.13645 AU
min. Earth dist.	-3046 Jun 09 j 06:28	21° ℓ 19'33	8.90595 AU	morning rise	-3040 Mar 02 j 17:14	3° ≈ 21'00	
direct	-3046 Aug 17 j 10:25	18° ℓ 03'19		retrograde	-3040 Jun 18 j 13:03	11° ≈ 43'17	
evening set	-3046 Nov 25 j 00:27	25° ℓ 08'12		opposition	-3040 Aug 26 j 00:47	8° ≈ 13'12	-2°31'51
				min. Earth dist.	-3040 Aug 26 j 01:31	8° ≈ 13'03	8.07788 AU
conjunction	-3046 Dec 11 j 17:09	27° ℓ 08'10	0°30'19	direct	-3040 Oct 31 j 06:47	4° ≈ 47'53	
minimum elong	-3046 Dec 11 j 17:10	27° ℓ 08'11	0°30'14	evening set	-3039 Feb 10 j 03:46	12° ≈ 50'06	
max. Earth dist.	-3046 Dec 11 j 03:43	27° ℓ 04'08	10.84501 AU		-3039 Feb 26 j 18:35	15° ≈	
morning rise	-3046 Dec 28 j 13:12	29° ℓ 09'11					
	-3045 Jan 04 j 19:15	0° ♊		conjunction	-3039 Feb 27 j 17:55	15° ≈ 07'40	-2°09'35
retrograde	-3045 Apr 11 j 13:23	6° ♊ 33'48		minimum elong	-3039 Feb 27 j 17:53	15° ≈ 07'39	2°09'39
opposition	-3045 Jun 21 j 09:41	3° ♊ 11'33	0°18'49	max. Earth dist.	-3039 Feb 27 j 18:04	15° ≈ 07'43	10.02370 AU
min. Earth dist.	-3045 Jun 21 j 20:42	3° ♊ 09'29	8.77883 AU	morning rise	-3039 Mar 17 j 12:59	17° ≈ 26'48	
	-3045 Aug 17 j 10:46	30° ♋		retrograde	-3039 Jul 03 j 12:31	25° ≈ 57'12	
direct	-3045 Aug 29 j 11:17	29° ℓ 52'34		opposition	-3039 Sep 09 j 10:43	22° ≈ 26'11	-2°49'53
	-3045 Sep 10 j 09:50	0° ♊		min. Earth dist.	-3039 Sep 09 j 08:48	22° ≈ 26'34	7.97899 AU
evening set	-3045 Dec 06 j 23:21	7° ♊ 04'09		direct	-3039 Nov 14 j 11:07	18° ≈ 59'24	
				evening set	-3038 Feb 25 j 03:28	27° ≈ 11'12	
conjunction	-3045 Dec 23 j 19:07	9° ♊ 06'42	0°00'32				
minimum elong	-3045 Dec 23 j 19:08	9° ♊ 06'42	0°00'26	conjunction	-3038 Mar 14 j 21:34	29° ≈ 31'10	-2°19'50
behind sun begin	-3045 Dec 23 j 12:06	9° ♊ 04'35		minimum elong	-3038 Mar 14 j 21:33	29° ≈ 31'10	2°19'53
behind sun end	-3045 Dec 24 j 02:09	9° ♊ 08'49		max. Earth dist.	-3038 Mar 15 j 01:45	29° ≈ 32'33	9.93901 AU
max. Earth dist.	-3045 Dec 23 j 06:37	9° ♊ 02'53	10.71087 AU		-3038 Mar 18 j 12:43	0° ♋	
desc. node	-3045 Dec 30 j 05:56	9° ♊ 54'00		morning rise	-3038 Apr 01 j 19:49	1° ♋ 52'29	
morning rise	-3044 Jan 09 j 18:58	11° ♊ 10'32		retrograde	-3038 Jul 18 j 14:07	10° ♋ 27'39	
retrograde	-3044 Apr 23 j 17:26	18° ♊ 46'08		opposition	-3038 Sep 24 j 00:42	6° ♋ 56'08	-2°57'33
opposition	-3044 Jul 03 j 06:43	15° ♊ 22'13	-0°18'35	min. Earth dist.	-3038 Sep 23 j 19:59	6° ♋ 57'07	7.91107 AU
min. Earth dist.	-3044 Jul 03 j 16:46	15° ♊ 20'18	8.63829 AU	direct	-3038 Nov 28 j 22:49	3° ♋ 28'02	
direct	-3044 Sep 09 j 17:52	12° ♊ 02'18		evening set	-3037 Mar 12 j 11:50	11° ♋ 47'17	
evening set	-3044 Dec 18 j 08:33	19° ♊ 22'09					
				conjunction	-3037 Mar 30 j 09:41	14° ♋ 09'06	-2°21'20
conjunction	-3043 Jan 04 j 07:48	21° ♊ 27'35	-0°30'07	minimum elong	-3037 Mar 30 j 09:42	14° ♋ 09'07	2°21'21
minimum elong	-3043 Jan 04 j 07:47	21° ♊ 27'35	0°30'13	max. Earth dist.	-3037 Mar 30 j 17:58	14° ♋ 11'52	9.88816 AU
max. Earth dist.	-3043 Jan 03 j 21:08	21° ♊ 24'17	10.56563 AU	morning rise	-3037 Apr 17 j 10:36	16° ♋ 31'54	
morning rise	-3043 Jan 21 j 11:31	23° ♊ 34'30		retrograde	-3037 Aug 02 j 16:39	25° ♋ 07'55	
	-3043 Mar 27 j 10:24	0° ♋		opposition	-3037 Oct 08 j 16:46	21° ♋ 36'21	-2°53'46
retrograde	-3043 May 07 j 07:30	1° ♋ 22'03		min. Earth dist.	-3037 Oct 08 j 09:09	21° ♋ 37'57	7.87871 AU
	-3043 Jun 17 j 22:00	30° ♋		direct	-3037 Dec 13 j 16:01	18° ♋ 07'11	
opposition	-3043 Jul 16 j 11:26	27° ♊ 56'26	-0°56'24	evening set	-3036 Mar 27 j 01:17	26° ♋ 31'01	
min. Earth dist.	-3043 Jul 16 j 19:26	27° ♊ 54'53	8.49000 AU				
direct	-3043 Sep 22 j 07:48	24° ♊ 35'23		conjunction	-3036 Apr 14 j 02:26	28° ♋ 53'55	-2°13'41
	-3043 Dec 13 j 19:00	0° ♋		minimum elong	-3036 Apr 14 j 02:29	28° ♋ 53'56	2°13'40
evening set	-3043 Dec 31 j 05:40	2° ♋ 04'57		max. Earth dist.	-3036 Apr 14 j 14:20	28° ♋ 57'52	9.87469 AU
					-3036 Apr 22 j 09:35	0° ♌	
conjunction	-3042 Jan 17 j 08:33	4° ♋ 13'29	-1°00'09	morning rise	-3036 May 02 j 05:21	1° ♌ 17'23	
minimum elong	-3042 Jan 17 j 08:30	4° ♋ 13'29	1°00'16	retrograde	-3036 Aug 16 j 16:38	9° ♌ 50'09	
max. Earth dist.	-3042 Jan 17 j 00:00	4° ♋ 10'48	10.41592 AU	opposition	-3036 Oct 22 j 08:25	6° ♌ 19'00	-2°38'34
morning rise	-3042 Feb 03 j 16:14	6° ♋ 23'37		min. Earth dist.	-3036 Oct 21 j 22:29	6° ♌ 21'05	7.88405 AU
retrograde	-3042 May 21 j 08:14	14° ♋ 23'32		direct	-3036 Dec 27 j 12:39	2° ♌ 49'02	
opposition	-3042 Jul 30 j 00:12	10° ♋ 56'14	-1°32'44	evening set	-3035 Apr 11 j 16:20	11° ♌ 14'15	
min. Earth dist.	-3042 Jul 30 j 05:42	10° ♋ 55'09	8.34149 AU				
direct	-3042 Oct 05 j 06:21	7° ♋ 33'53		conjunction	-3035 Apr 29 j 19:57	13° ♌ 37'21	-1°57'20
evening set	-3041 Jan 13 j 15:57	15° ♋ 14'11		minimum elong	-3035 Apr 29 j 20:01	13° ♌ 37'23	1°57'18
				max. Earth dist.	-3035 Apr 30 j 10:15	13° ♌ 42'05	9.89935 AU
conjunction	-3041 Jan 30 j 22:27	17° ♋ 25'52	-1°27'59	morning rise	-3035 May 17 j 23:53	16° ♌ 00'34	
minimum elong	-3041 Jan 30 j 22:24	17° ♋ 25'51	1°28'05	retrograde	-3035 Aug 31 j 11:17	24° ♌ 26'17	
max. Earth dist.	-3041 Jan 30 j 16:00	17° ♋ 23'48	10.26996 AU	opposition	-3035 Nov 05 j 21:11	20° ♌ 56'02	-2°13'07
morning rise	-3041 Feb 17 j 10:06	19° ♋ 39'14		min. Earth dist.	-3035 Nov 05 j 10:02	20° ♌ 58'22	7.92653 AU
retrograde	-3041 Jun 04 j 18:40	27° ♋ 51'00		direct	-3034 Jan 11 j 10:32	17° ♌ 25'36	
opposition	-3041 Aug 12 j 20:48	24° ♋ 22'12	-2°05'21	evening set	-3034 Apr 27 j 04:58	25° ♌ 49'00	
min. Earth dist.	-3041 Aug 12 j 23:54	24° ♋ 21'35	8.20128 AU				
direct	-3041 Oct 18 j 13:28	20° ♋ 58'24		conjunction	-3034 May 15 j 09:45	28° ♌ 11'22	-1°33'38
evening set	-3040 Jan 27 j 15:31	28° ♋ 49'50		minimum elong	-3034 May 15 j 09:48	28° ♌ 11'23	1°33'35

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Attention, astronomical year style is used: The year -3034 in astronomical counting style is the year 3035 BCE in historical counting style.

max. Earth dist.	-3034 May 16 j 01:12	28° Υ 16'26	9.96012 AU	evening set	-3028 Jul 19 j 06:16	15° \mathfrak{E} 56'29	
	-3034 May 29 j 06:05	0° \mathfrak{B}					
morning rise	-3034 Jun 02 j 13:26	0° \mathfrak{B} 33'21		conjunction	-3028 Aug 05 j 14:27	18° \mathfrak{E} 01'17	1°29'19
retrograde	-3034 Sep 14 j 21:42	8° \mathfrak{B} 49'07		minimum elong	-3028 Aug 05 j 14:24	18° \mathfrak{E} 01'16	1°29'25
opposition	-3034 Nov 20 j 05:18	5° \mathfrak{B} 20'10	-1°39'36	max. Earth dist.	-3028 Aug 05 j 20:56	18° \mathfrak{E} 03'15	10.74452 AU
min. Earth dist.	-3034 Nov 19 j 17:48	5° \mathfrak{B} 22'33	8.00307 AU	morning rise	-3028 Aug 22 j 17:16	20° \mathfrak{E} 04'31	
direct	-3033 Jan 26 j 07:59	1° \mathfrak{B} 49'41		retrograde	-3028 Nov 29 j 19:18	27° \mathfrak{E} 12'32	
evening set	-3033 May 12 j 11:22	10° \mathfrak{B} 08'22		opposition	-3027 Feb 05 j 21:38	23° \mathfrak{E} 53'56	2°03'10
				min. Earth dist.	-3027 Feb 05 j 17:58	23° \mathfrak{E} 54'38	8.81277 AU
conjunction	-3033 May 30 j 15:48	12° \mathfrak{B} 29'02	-1°04'29	direct	-3027 Apr 17 j 16:32	20° \mathfrak{E} 29'27	
minimum elong	-3033 May 30 j 15:51	12° \mathfrak{B} 29'03	1°04'25	evening set	-3027 Jul 31 j 18:44	27° \mathfrak{E} 55'19	
max. Earth dist.	-3033 May 31 j 07:16	12° \mathfrak{B} 34'03	10.05256 AU				
morning rise	-3033 Jun 17 j 17:53	14° \mathfrak{B} 48'55		conjunction	-3027 Aug 17 j 21:21	29° \mathfrak{E} 56'58	1°50'42
	-3033 Jun 19 j 04:53	15° \mathfrak{B}		minimum elong	-3027 Aug 17 j 21:18	29° \mathfrak{E} 56'57	1°50'47
retrograde	-3033 Sep 28 j 20:58	22° \mathfrak{B} 52'54		max. Earth dist.	-3027 Aug 18 j 00:10	29° \mathfrak{E} 57'48	10.87722 AU
opposition	-3033 Dec 04 j 06:58	19° \mathfrak{B} 25'34	-1°00'46		-3027 Aug 18 j 07:31	0° \mathfrak{Q}	
min. Earth dist.	-3033 Dec 03 j 19:53	19° \mathfrak{B} 27'51	8.10844 AU	morning rise	-3027 Sep 03 j 19:05	1° \mathfrak{Q} 57'10	
direct	-3032 Feb 10 j 01:08	15° \mathfrak{B} 55'24		retrograde	-3027 Dec 11 j 13:10	8° \mathfrak{Q} 57'54	
evening set	-3032 May 26 j 09:09	24° \mathfrak{B} 07'07		opposition	-3026 Feb 18 j 04:24	5° \mathfrak{Q} 40'32	2°26'02
				min. Earth dist.	-3026 Feb 18 j 03:10	5° \mathfrak{Q} 40'46	8.93857 AU
conjunction	-3032 Jun 13 j 11:40	26° \mathfrak{B} 25'19	-0°32'09	direct	-3026 Apr 30 j 09:21	2° \mathfrak{Q} 17'26	
minimum elong	-3032 Jun 13 j 11:41	26° \mathfrak{B} 25'19	0°32'04	evening set	-3026 Aug 12 j 21:09	9° \mathfrak{Q} 35'12	
max. Earth dist.	-3032 Jun 14 j 01:53	26° \mathfrak{B} 29'52	10.17045 AU				
morning rise	-3032 Jul 01 j 10:49	28° \mathfrak{B} 42'22		conjunction	-3026 Aug 29 j 18:46	11° \mathfrak{Q} 34'07	2°06'59
	-3032 Jul 11 j 22:45	0° \mathfrak{I}		minimum elong	-3026 Aug 29 j 18:44	11° \mathfrak{Q} 34'06	2°07'03
retrograde	-3032 Oct 11 j 10:01	6° \mathfrak{I} 33'47		max. Earth dist.	-3026 Aug 29 j 18:22	11° \mathfrak{Q} 33'59	10.99357 AU
opposition	-3032 Dec 17 j 01:04	3° \mathfrak{I} 08'15	-0°19'32	morning rise	-3026 Sep 15 j 12:02	13° \mathfrak{Q} 31'44	
min. Earth dist.	-3032 Dec 16 j 14:39	3° \mathfrak{I} 10'22	8.23584 AU		-3026 Sep 28 j 12:38	15° \mathfrak{Q}	
	-3031 Feb 03 j 10:21	30° \mathfrak{R} \mathfrak{B}		retrograde	-3026 Dec 23 j 04:24	20° \mathfrak{Q} 26'52	
direct	-3031 Feb 23 j 11:43	29° \mathfrak{B} 38'46		opposition	-3025 Mar 02 j 06:14	17° \mathfrak{Q} 10'25	2°42'25
	-3031 Mar 15 j 12:43	0° \mathfrak{I}		min. Earth dist.	-3025 Mar 02 j 06:49	17° \mathfrak{Q} 10'19	9.04552 AU
evening set	-3031 Jun 09 j 20:18	7° \mathfrak{I} 42'00			-3025 Apr 03 j 01:06	15° \mathfrak{R} \mathfrak{Q}	
asc. node	-3031 Jun 14 j 01:05	8° \mathfrak{I} 13'16		direct	-3025 May 12 j 19:02	13° \mathfrak{Q} 48'38	
					-3025 Jun 20 j 20:11	15° \mathfrak{Q}	
conjunction	-3031 Jun 27 j 19:30	9° \mathfrak{I} 57'08	0°01'15	evening set	-3025 Aug 24 j 14:44	20° \mathfrak{Q} 59'15	
minimum elong	-3031 Jun 27 j 19:30	9° \mathfrak{I} 57'08	0°01'20				
behind sun begin	-3031 Jun 27 j 12:13	9° \mathfrak{I} 54'52		conjunction	-3025 Sep 10 j 08:14	22° \mathfrak{Q} 55'57	2°17'54
behind sun end	-3031 Jun 28 j 02:48	9° \mathfrak{I} 59'24		minimum elong	-3025 Sep 10 j 08:12	22° \mathfrak{Q} 55'56	2°17'57
max. Earth dist.	-3031 Jun 28 j 07:54	10° \mathfrak{I} 01'02	10.30633 AU	max. Earth dist.	-3025 Sep 10 j 05:39	22° \mathfrak{Q} 55'11	11.08886 AU
morning rise	-3031 Jul 15 j 14:30	12° \mathfrak{I} 10'53		morning rise	-3025 Sep 26 j 21:44	24° \mathfrak{Q} 51'31	
retrograde	-3031 Oct 24 j 13:31	19° \mathfrak{I} 49'51			-3025 Nov 18 j 17:03	0° \mathfrak{N}	
opposition	-3031 Dec 30 j 11:24	16° \mathfrak{I} 26'11	0°21'26	retrograde	-3024 Jan 03 j 15:59	1° \mathfrak{N} 42'44	
min. Earth dist.	-3031 Dec 30 j 01:39	16° \mathfrak{I} 28'08	8.37758 AU		-3024 Feb 20 j 06:36	30° \mathfrak{R} \mathfrak{Q}	
direct	-3030 Mar 09 j 14:16	12° \mathfrak{I} 57'42		opposition	-3024 Mar 13 j 04:19	28° \mathfrak{Q} 26'53	2°52'11
evening set	-3030 Jun 23 j 19:33	20° \mathfrak{I} 51'33		min. Earth dist.	-3024 Mar 13 j 07:10	28° \mathfrak{Q} 26'22	9.12913 AU
				direct	-3024 May 23 j 20:32	25° \mathfrak{Q} 06'17	
conjunction	-3030 Jul 11 j 14:21	23° \mathfrak{I} 03'17	0°33'34		-3024 Aug 15 j 03:10	0° \mathfrak{N}	
minimum elong	-3030 Jul 11 j 14:19	23° \mathfrak{I} 03'17	0°33'40	evening set	-3024 Sep 04 j 01:22	2° \mathfrak{N} 10'57	
max. Earth dist.	-3030 Jul 12 j 01:07	23° \mathfrak{I} 06'38	10.45233 AU				
morning rise	-3030 Jul 29 j 04:15	25° \mathfrak{I} 13'29		conjunction	-3024 Sep 20 j 15:28	4° \mathfrak{N} 05'58	2°23'21
	-3030 Sep 11 j 05:23	0° \mathfrak{E}		minimum elong	-3024 Sep 20 j 15:28	4° \mathfrak{N} 05'58	2°23'23
retrograde	-3030 Nov 06 j 07:16	2° \mathfrak{E} 40'50		max. Earth dist.	-3024 Sep 20 j 10:19	4° \mathfrak{N} 04'28	11.15908 AU
	-3029 Jan 03 j 20:30	30° \mathfrak{R} \mathfrak{I}		morning rise	-3024 Oct 07 j 02:09	6° \mathfrak{N} 00'05	
opposition	-3029 Jan 12 j 13:57	29° \mathfrak{I} 18'59	0°59'55	retrograde	-3023 Jan 14 j 02:18	12° \mathfrak{N} 49'08	
min. Earth dist.	-3029 Jan 12 j 05:19	29° \mathfrak{I} 20'41	8.52585 AU	opposition	-3023 Mar 24 j 23:56	9° \mathfrak{N} 33'37	2°55'23
direct	-3029 Mar 23 j 08:32	25° \mathfrak{I} 51'45		min. Earth dist.	-3023 Mar 25 j 05:53	9° \mathfrak{N} 32'31	9.18600 AU
	-3029 Jun 05 j 02:55	0° \mathfrak{E}		direct	-3023 Jun 04 j 17:25	6° \mathfrak{N} 13'59	
evening set	-3029 Jul 07 j 06:46	3° \mathfrak{E} 35'57		evening set	-3023 Sep 15 j 06:42	13° \mathfrak{N} 14'06	
conjunction	-3029 Jul 24 j 20:27	5° \mathfrak{E} 44'10	1°03'20	conjunction	-3023 Oct 01 j 18:13	15° \mathfrak{N} 08'02	2°23'22
minimum elong	-3029 Jul 24 j 20:25	5° \mathfrak{E} 44'09	1°03'26	minimum elong	-3023 Oct 01 j 18:13	15° \mathfrak{N} 08'02	2°23'24
max. Earth dist.	-3029 Jul 25 j 05:27	5° \mathfrak{E} 46'55	10.60078 AU	max. Earth dist.	-3023 Oct 01 j 09:37	15° \mathfrak{N} 05'32	11.20164 AU
morning rise	-3029 Aug 11 j 04:48	7° \mathfrak{E} 50'47		morning rise	-3023 Oct 18 j 03:19	17° \mathfrak{N} 01'19	
retrograde	-3029 Nov 18 j 17:02	15° \mathfrak{E} 07'44		retrograde	-3022 Jan 25 j 10:38	23° \mathfrak{N} 49'59	
opposition	-3028 Jan 25 j 09:03	11° \mathfrak{E} 47'36	1°34'13	opposition	-3022 Apr 05 j 18:24	20° \mathfrak{N} 34'25	2°52'07
min. Earth dist.	-3028 Jan 25 j 02:30	11° \mathfrak{E} 48'53	8.67320 AU	min. Earth dist.	-3022 Apr 06 j 03:00	20° \mathfrak{N} 32'51	9.21431 AU
direct	-3028 Apr 04 j 17:05	8° \mathfrak{E} 21'43		direct	-3022 Jun 16 j 09:43	17° \mathfrak{N} 15'36	

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Attention, astronomical year style is used: The year -3022 in astronomical counting style is the year 3023 BCE in historical counting style.

evening set	-3022 Sep 26 j 08:14	24° \mathbb{M} 12'31		min. Earth dist.	-3016 Jun 15 j 11:20	27° \mathbb{M} 57'44	8.82036 AU
				direct	-3016 Aug 23 j 09:58	24° \mathbb{M} 40'37	
conjunction	-3022 Oct 12 j 18:18	26° \mathbb{M} 05'58	2°18'07		-3016 Nov 15 j 01:27	0° \mathbb{A}	
minimum elong	-3022 Oct 12 j 18:19	26° \mathbb{M} 05'58	2°18'08	evening set	-3016 Nov 30 j 20:51	1° \mathbb{A} 49'32	
max. Earth dist.	-3022 Oct 12 j 07:16	26° \mathbb{M} 02'46	11.21557 AU				
morning rise	-3022 Oct 29 j 02:51	27° \mathbb{M} 59'01		conjunction	-3016 Dec 17 j 15:20	3° \mathbb{A} 51'05	0°14'25
	-3022 Nov 16 j 12:28	0° \mathbb{A}		minimum elong	-3016 Dec 17 j 15:21	3° \mathbb{A} 51'05	0°14'20
retrograde	-3021 Feb 05 j 21:22	4° \mathbb{A} 49'02		behind sun begin	-3016 Dec 17 j 11:57	3° \mathbb{A} 50'04	
opposition	-3021 Apr 17 j 12:42	1° \mathbb{A} 33'03	2°42'37	behind sun end	-3016 Dec 17 j 18:45	3° \mathbb{A} 52'06	
min. Earth dist.	-3021 Apr 17 j 22:32	1° \mathbb{A} 31'16	9.21365 AU	max. Earth dist.	-3016 Dec 17 j 02:42	3° \mathbb{A} 47'15	10.75431 AU
	-3021 May 09 j 16:40	30° \mathbb{R} \mathbb{M}		morning rise	-3015 Jan 03 j 13:20	5° \mathbb{A} 53'46	
direct	-3021 Jun 28 j 01:22	28° \mathbb{M} 14'48		retrograde	-3015 Apr 18 j 02:14	13° \mathbb{A} 24'51	
	-3021 Aug 14 j 16:38	0° \mathbb{A}		desc. node	-3015 Jun 15 j 03:40	10° \mathbb{A} 57'54	
evening set	-3021 Oct 07 j 08:02	5° \mathbb{A} 09'56		opposition	-3015 Jun 27 j 18:13	10° \mathbb{A} 01'03	-0°01'15
				min. Earth dist.	-3015 Jun 28 j 04:02	9° \mathbb{A} 59'11	8.68377 AU
conjunction	-3021 Oct 23 j 17:44	7° \mathbb{A} 03'29	2°07'49	direct	-3015 Sep 04 j 12:15	6° \mathbb{A} 40'59	
minimum elong	-3021 Oct 23 j 17:46	7° \mathbb{A} 03'29	2°07'48	evening set	-3015 Dec 13 j 01:19	13° \mathbb{A} 57'29	
max. Earth dist.	-3021 Oct 23 j 05:54	7° \mathbb{A} 00'02	11.20086 AU				
morning rise	-3021 Nov 09 j 02:32	8° \mathbb{A} 56'52		conjunction	-3015 Dec 29 j 22:57	16° \mathbb{A} 01'47	-0°16'03
retrograde	-3020 Feb 17 j 12:29	15° \mathbb{A} 49'48		minimum elong	-3015 Dec 29 j 22:56	16° \mathbb{A} 01'47	0°16'09
opposition	-3020 Apr 28 j 08:01	12° \mathbb{A} 33'07	2°27'11	behind sun begin	-3015 Dec 29 j 22:37	16° \mathbb{A} 01'41	
min. Earth dist.	-3020 Apr 28 j 18:45	12° \mathbb{A} 31'10	9.18448 AU	behind sun end	-3015 Dec 29 j 23:15	16° \mathbb{A} 01'52	
direct	-3020 Jul 08 j 14:29	9° \mathbb{A} 15'12		max. Earth dist.	-3015 Dec 29 j 10:57	15° \mathbb{A} 58'05	10.61292 AU
evening set	-3020 Oct 17 j 07:54	16° \mathbb{A} 09'56		morning rise	-3014 Jan 16 j 00:58	18° \mathbb{A} 07'29	
				retrograde	-3014 May 01 j 11:21	25° \mathbb{A} 50'05	
conjunction	-3020 Nov 02 j 17:58	18° \mathbb{A} 04'08	1°52'45	opposition	-3014 Jul 10 j 19:32	22° \mathbb{A} 24'35	-0°39'08
minimum elong	-3020 Nov 02 j 18:01	18° \mathbb{A} 04'09	1°52'43	min. Earth dist.	-3014 Jul 11 j 04:18	22° \mathbb{A} 22'54	8.53877 AU
max. Earth dist.	-3020 Nov 02 j 04:56	18° \mathbb{A} 00'20	11.15838 AU	direct	-3014 Sep 16 j 21:58	19° \mathbb{A} 03'26	
morning rise	-3020 Nov 19 j 04:03	19° \mathbb{A} 58'26		evening set	-3014 Dec 25 j 16:56	26° \mathbb{A} 29'02	
retrograde	-3019 Feb 28 j 05:33	26° \mathbb{A} 55'54					
opposition	-3019 May 10 j 05:55	23° \mathbb{A} 38'13	2°06'12	conjunction	-3013 Jan 11 j 18:04	28° \mathbb{A} 36'20	-0°46'34
min. Earth dist.	-3019 May 10 j 17:51	23° \mathbb{A} 36'02	9.12813 AU	minimum elong	-3013 Jan 11 j 18:02	28° \mathbb{A} 36'19	0°46'40
direct	-3019 Jul 20 j 02:33	20° \mathbb{A} 20'20		max. Earth dist.	-3013 Jan 11 j 07:57	28° \mathbb{A} 33'10	10.46596 AU
evening set	-3019 Oct 28 j 09:32	27° \mathbb{A} 16'13			-3013 Jan 22 j 21:48	0° \mathbb{B}	
				morning rise	-3013 Jan 29 j 00:08	0° \mathbb{B} 45'11	
conjunction	-3019 Nov 13 j 20:40	29° \mathbb{A} 11'33	1°33'19	retrograde	-3013 May 15 j 06:08	8° \mathbb{B} 39'57	
minimum elong	-3019 Nov 13 j 20:43	29° \mathbb{A} 11'34	1°33'16	opposition	-3013 Jul 24 j 04:47	5° \mathbb{B} 12'48	-1°16'27
max. Earth dist.	-3019 Nov 13 j 06:05	29° \mathbb{A} 07'16	11.08977 AU	min. Earth dist.	-3013 Jul 24 j 11:42	5° \mathbb{B} 11'26	8.39185 AU
	-3019 Nov 20 j 17:37	0° \mathbb{M}		direct	-3013 Sep 29 j 17:50	1° \mathbb{B} 50'27	
morning rise	-3019 Nov 30 j 09:00	1° \mathbb{M} 07'17		evening set	-3012 Jan 07 j 20:57	9° \mathbb{B} 26'15	
retrograde	-3018 Mar 12 j 05:04	8° \mathbb{M} 10'55					
opposition	-3018 May 22 j 07:15	4° \mathbb{M} 51'57	1°40'08	conjunction	-3012 Jan 25 j 01:47	11° \mathbb{B} 36'39	-1°15'39
min. Earth dist.	-3018 May 22 j 20:10	4° \mathbb{M} 49'35	9.04668 AU	minimum elong	-3012 Jan 25 j 01:44	11° \mathbb{B} 36'39	1°15'45
direct	-3018 Jul 31 j 18:00	1° \mathbb{M} 33'50		max. Earth dist.	-3012 Jan 24 j 18:58	11° \mathbb{B} 34'29	10.32034 AU
evening set	-3018 Nov 08 j 14:58	8° \mathbb{M} 32'25		morning rise	-3012 Feb 11 j 11:43	13° \mathbb{B} 48'43	
				retrograde	-3012 May 28 j 12:02	21° \mathbb{B} 55'37	
conjunction	-3018 Nov 25 j 04:02	10° \mathbb{M} 29'25	1°09'59	opposition	-3012 Aug 05 j 22:03	18° \mathbb{B} 26'57	-1°51'05
minimum elong	-3018 Nov 25 j 04:04	10° \mathbb{M} 29'25	1°09'56	min. Earth dist.	-3012 Aug 06 j 02:10	18° \mathbb{B} 26'08	8.25036 AU
max. Earth dist.	-3018 Nov 24 j 13:32	10° \mathbb{M} 25'06	10.99734 AU	direct	-3012 Oct 11 j 21:32	15° \mathbb{B} 03'20	
morning rise	-3018 Dec 11 j 19:10	12° \mathbb{M} 27'05		evening set	-3011 Jan 20 j 14:24	22° \mathbb{B} 50'03	
	-3017 Jan 03 j 18:37	15° \mathbb{M}					
retrograde	-3017 Mar 24 j 10:23	19° \mathbb{M} 38'23		conjunction	-3011 Feb 06 j 23:04	25° \mathbb{B} 03'32	-1°41'31
opposition	-3017 Jun 03 j 12:50	16° \mathbb{M} 17'56	1°09'37	minimum elong	-3011 Feb 06 j 23:00	25° \mathbb{B} 03'31	1°41'36
min. Earth dist.	-3017 Jun 04 j 01:19	16° \mathbb{M} 15'37	8.94288 AU	max. Earth dist.	-3011 Feb 06 j 20:05	25° \mathbb{B} 02'34	10.18386 AU
	-3017 Jun 21 j 11:33	15° \mathbb{R} \mathbb{M}		morning rise	-3011 Feb 24 j 12:45	27° \mathbb{B} 18'42	
direct	-3017 Aug 12 j 11:13	12° \mathbb{M} 59'22			-3011 Mar 18 j 16:03	0° \mathbb{A}	
	-3017 Oct 01 j 06:12	15° \mathbb{M}		retrograde	-3011 Jun 12 j 03:03	5° \mathbb{A} 36'48	
evening set	-3017 Nov 20 j 02:07	20° \mathbb{M} 02'20		opposition	-3011 Aug 19 j 22:53	2° \mathbb{A} 06'52	-2°20'41
				min. Earth dist.	-3011 Aug 19 j 23:35	2° \mathbb{A} 06'44	8.12222 AU
conjunction	-3017 Dec 06 j 17:45	22° \mathbb{M} 01'24	0°43'25		-3011 Sep 17 j 03:14	30° \mathbb{R} \mathbb{B}	
minimum elong	-3017 Dec 06 j 17:46	22° \mathbb{M} 01'25	0°43'21	direct	-3011 Oct 25 j 10:27	28° \mathbb{B} 41'57	
max. Earth dist.	-3017 Dec 06 j 04:17	21° \mathbb{M} 57'22	10.88415 AU		-3011 Dec 01 j 22:57	0° \mathbb{A}	
morning rise	-3017 Dec 23 j 12:04	24° \mathbb{M} 01'23		evening set	-3010 Feb 03 j 21:11	6° \mathbb{A} 39'38	
	-3016 Feb 23 j 16:03	0° \mathbb{A}					
retrograde	-3016 Apr 05 j 01:32	1° \mathbb{A} 21'56		conjunction	-3010 Feb 21 j 09:42	8° \mathbb{A} 56'02	-2°02'16
	-3016 May 17 j 09:51	30° \mathbb{R} \mathbb{M}		minimum elong	-3010 Feb 21 j 09:39	8° \mathbb{A} 56'01	2°02'21
opposition	-3016 Jun 15 j 00:10	27° \mathbb{M} 59'50	0°35'27	max. Earth dist.	-3010 Feb 21 j 10:19	8° \mathbb{A} 56'14	10.06459 AU

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Attention, astronomical year style is used: The year -3010 in astronomical counting style is the year 3011 BCE in historical counting style.

morning rise	-3010 Mar 11 j 03:01	11° \approx 14'04	evening set	-3004 May 05 j 00:30	3° \approx 57'34	
	-3010 Apr 11 j 11:11	15° \approx				
retrograde	-3010 Jun 27 j 01:13	19° \approx 41'27	conjunction	-3004 May 23 j 05:15	6° \approx 18'57	-1°18'04
opposition	-3010 Sep 03 j 06:28	16° \approx 10'35	minimum elong	-3004 May 23 j 05:18	6° \approx 18'58	1°18'00
min. Earth dist.	-3010 Sep 03 j 04:03	16° \approx 11'05	max. Earth dist.	-3004 May 23 j 20:28	6° \approx 23'54	10.02078 AU
	-3010 Sep 17 j 21:58	15° \approx	morning rise	-3004 Jun 10 j 08:17	8° \approx 39'44	
direct	-3010 Nov 08 j 09:08	12° \approx 44'23		-3004 Aug 08 j 04:57	15° \approx	
	-3010 Dec 28 j 05:01	15° \approx	retrograde	-3004 Sep 21 j 23:58	16° \approx 48'55	
evening set	-3009 Feb 18 j 16:13	20° \approx 52'15		-3004 Nov 06 j 15:04	15° \approx	
			opposition	-3004 Nov 27 j 09:24	13° \approx 21'23	-1°18'36
conjunction	-3009 Mar 08 j 08:30	23° \approx 11'14	min. Earth dist.	-3004 Nov 26 j 21:44	13° \approx 23'48	8.07071 AU
minimum elong	-3009 Mar 08 j 08:28	23° \approx 11'14	direct	-3003 Feb 02 j 20:25	9° \approx 51'38	
max. Earth dist.	-3009 Mar 08 j 12:44	23° \approx 12'38		-3003 Apr 24 j 05:56	15° \approx	
morning rise	-3009 Mar 26 j 05:10	25° \approx 31'40	evening set	-3003 May 20 j 02:41	18° \approx 06'26	
	-3009 May 02 j 17:37	0° \approx				
retrograde	-3009 Jul 12 j 03:40	4° \approx 05'25	conjunction	-3003 Jun 07 j 06:21	20° \approx 25'44	-0°46'53
opposition	-3009 Sep 17 j 19:12	0° \approx 34'04	minimum elong	-3003 Jun 07 j 06:23	20° \approx 25'45	0°46'48
min. Earth dist.	-3009 Sep 17 j 14:06	0° \approx 35'07	max. Earth dist.	-3003 Jun 07 j 20:57	20° \approx 30'26	10.12631 AU
	-3009 Sep 24 j 16:19	30° \approx	morning rise	-3003 Jun 25 j 06:55	22° \approx 44'02	
direct	-3009 Nov 22 j 16:19	27° \approx 06'41		-3003 Sep 08 j 14:56	0° \approx	
	-3008 Jan 18 j 09:14	0° \approx	retrograde	-3003 Oct 05 j 19:29	0° \approx 41'06	
evening set	-3008 Mar 04 j 21:18	5° \approx 23'00		-3003 Nov 02 j 04:22	30° \approx	
			opposition	-3003 Dec 11 j 07:05	27° \approx 15'16	-0°38'06
conjunction	-3008 Mar 22 j 17:20	7° \approx 44'04	min. Earth dist.	-3003 Dec 10 j 20:10	27° \approx 17'30	8.18605 AU
minimum elong	-3008 Mar 22 j 17:20	7° \approx 44'04	direct	-3002 Feb 17 j 09:01	23° \approx 46'01	
max. Earth dist.	-3008 Mar 23 j 01:02	7° \approx 46'37		-3002 May 19 j 05:39	0° \approx	
morning rise	-3008 Apr 09 j 17:02	10° \approx 06'18	evening set	-3002 Jun 03 j 19:11	1° \approx 53'12	
retrograde	-3008 Jul 26 j 07:48	18° \approx 42'40				
opposition	-3008 Oct 01 j 11:04	15° \approx 11'16	conjunction	-3002 Jun 21 j 20:11	4° \approx 09'46	-0°13'44
min. Earth dist.	-3008 Oct 01 j 03:45	15° \approx 12'47	minimum elong	-3002 Jun 21 j 20:12	4° \approx 09'46	0°13'38
direct	-3008 Dec 06 j 07:13	11° \approx 42'51	behind sun begin	-3002 Jun 21 j 16:23	4° \approx 08'34	
evening set	-3007 Mar 20 j 09:21	20° \approx 05'03	behind sun end	-3002 Jun 22 j 00:01	4° \approx 10'58	
			max. Earth dist.	-3002 Jun 22 j 09:34	4° \approx 14'00	10.25111 AU
conjunction	-3007 Apr 07 j 08:53	22° \approx 27'31	morning rise	-3002 Jul 09 j 17:01	6° \approx 25'00	
minimum elong	-3007 Apr 07 j 08:55	22° \approx 27'32	retrograde	-3002 Oct 19 j 05:02	14° \approx 09'45	
max. Earth dist.	-3007 Apr 07 j 19:37	22° \approx 31'06	asc. node	-3002 Nov 24 j 10:42	13° \approx 00'12	
morning rise	-3007 Apr 25 j 11:03	24° \approx 50'47	opposition	-3002 Dec 24 j 21:27	10° \approx 45'41	0°03'18
	-3007 Jun 08 j 06:27	0° \approx	min. Earth dist.	-3002 Dec 24 j 12:05	10° \approx 47'34	8.31785 AU
retrograde	-3007 Aug 10 j 09:59	3° \approx 25'34	direct	-3001 Mar 03 j 14:57	7° \approx 17'11	
	-3007 Oct 15 j 01:45	30° \approx	evening set	-3001 Jun 18 j 00:18	15° \approx 15'33	
opposition	-3007 Oct 16 j 03:38	29° \approx 54'35				
min. Earth dist.	-3007 Oct 15 j 18:34	29° \approx 56'29	conjunction	-3001 Jul 05 j 21:18	17° \approx 28'54	0°19'22
direct	-3007 Dec 21 j 03:49	26° \approx 25'23	minimum elong	-3001 Jul 05 j 21:17	17° \approx 28'54	0°19'28
	-3006 Feb 23 j 04:07	0° \approx	max. Earth dist.	-3001 Jul 06 j 08:22	17° \approx 32'21	10.38873 AU
evening set	-3006 Apr 05 j 00:39	4° \approx 50'19	morning rise	-3001 Jul 23 j 13:30	19° \approx 40'45	
			retrograde	-3001 Nov 01 j 03:05	27° \approx 13'36	
conjunction	-3006 Apr 23 j 03:01	7° \approx 13'21	opposition	-3000 Jan 07 j 03:59	23° \approx 51'16	0°43'11
minimum elong	-3006 Apr 23 j 03:05	7° \approx 13'22	min. Earth dist.	-3000 Jan 06 j 20:29	23° \approx 52'46	8.45927 AU
max. Earth dist.	-3006 Apr 23 j 16:13	7° \approx 17'43	direct	-3000 Mar 16 j 14:03	20° \approx 23'42	
morning rise	-3006 May 11 j 06:42	9° \approx 36'43	evening set	-3000 Jun 30 j 17:40	28° \approx 12'42	
retrograde	-3006 Aug 25 j 06:52	18° \approx 05'54		-3000 Jul 15 j 08:26	0° \approx	
opposition	-3006 Oct 30 j 18:15	14° \approx 35'43				
min. Earth dist.	-3006 Oct 30 j 07:39	14° \approx 37'56	conjunction	-3000 Jul 18 j 09:41	0° \approx 22'35	0°50'29
direct	-3005 Jan 05 j 03:10	11° \approx 06'01	minimum elong	-3000 Jul 18 j 09:39	0° \approx 22'35	0°50'35
evening set	-3005 Apr 20 j 14:58	19° \approx 30'21	max. Earth dist.	-3000 Jul 18 j 17:44	0° \approx 25'04	10.53204 AU
			morning rise	-3000 Aug 04 j 20:41	2° \approx 30'55	
conjunction	-3005 May 08 j 19:10	21° \approx 53'00	retrograde	-3000 Nov 12 j 15:27	9° \approx 52'51	
minimum elong	-3005 May 08 j 19:14	21° \approx 53'01	opposition	-2999 Jan 19 j 02:48	6° \approx 32'07	1°19'35
max. Earth dist.	-3005 May 09 j 09:59	21° \approx 57'52	min. Earth dist.	-2999 Jan 18 j 21:01	6° \approx 33'15	8.60304 AU
morning rise	-3005 May 26 j 23:12	24° \approx 15'32	direct	-2999 Mar 30 j 04:46	3° \approx 05'39	
	-3005 Jul 16 j 17:13	0° \approx	evening set	-2999 Jul 13 j 22:57	10° \approx 45'11	
retrograde	-3005 Sep 08 j 20:01	2° \approx 35'47				
	-3005 Nov 03 j 10:08	30° \approx	conjunction	-2999 Jul 31 j 09:35	12° \approx 51'37	1°18'20
opposition	-3005 Nov 14 j 04:46	29° \approx 06'47	minimum elong	-2999 Jul 31 j 09:32	12° \approx 51'36	1°18'25
min. Earth dist.	-3005 Nov 13 j 17:11	29° \approx 09'11	max. Earth dist.	-2999 Jul 31 j 14:52	12° \approx 53'13	10.67394 AU
direct	-3004 Jan 20 j 01:59	25° \approx 36'52	morning rise	-2999 Aug 17 j 15:06	14° \approx 56'28	
	-3004 Apr 01 j 19:59	0° \approx	retrograde	-2999 Nov 24 j 20:55	22° \approx 08'51	

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Attention, astronomical year style is used: The year -2998 in astronomical counting style is the year 2999 BCE in historical counting style.

opposition	-2998 Jan 31 j 18:39	18° $\overline{54}$ 9'31	1°51'06	retrograde	-2992 Feb 01 j 06:16	0° $\underline{15}$ '10	
min. Earth dist.	-2998 Jan 31 j 14:12	18° $\overline{50}$ 22	8.74223 AU		-2992 Feb 19 j 00:28	30° \overline{R} \overline{M}	
direct	-2998 Apr 12 j 09:27	15° $\overline{52}$ 4'16		opposition	-2992 Apr 11 j 18:01	26° \overline{M} 58'57	2°47'42
evening set	-2998 Jul 26 j 16:28	22° $\overline{54}$ 3'36		min. Earth dist.	-2992 Apr 12 j 02:01	26° \overline{M} 57'29	9.20547 AU
				direct	-2992 Jun 22 j 08:23	23° \overline{M} 40'02	
conjunction	-2998 Aug 12 j 21:43	24° $\overline{55}$ 7'48	1°41'53		-2992 Sep 26 j 14:19	0° $\underline{15}$	
minimum elong	-2998 Aug 12 j 21:39	24° $\overline{55}$ 7'47	1°41'58	evening set	-2992 Oct 01 j 21:58	0° $\underline{15}$ 35'57	
max. Earth dist.	-2998 Aug 13 j 01:09	24° $\overline{55}$ 8'50	10.80794 AU				
morning rise	-2998 Aug 29 j 21:47	26° $\overline{55}$ 9'28		conjunction	-2992 Oct 18 j 07:43	2° $\underline{15}$ 29'27	2°13'03
	-2998 Sep 26 j 01:28	0° $\underline{15}$		minimum elong	-2992 Oct 18 j 07:44	2° $\underline{15}$ 29'27	2°13'03
retrograde	-2998 Dec 06 j 19:05	4° $\underline{15}$ 03'51		max. Earth dist.	-2992 Oct 17 j 21:11	2° $\underline{15}$ 26'23	11.20167 AU
opposition	-2997 Feb 13 j 04:13	0° $\underline{15}$ 45'41	2°16'48	morning rise	-2992 Nov 03 j 16:21	4° $\underline{15}$ 22'41	
min. Earth dist.	-2997 Feb 13 j 01:51	0° $\underline{15}$ 46'08	8.87068 AU	retrograde	-2991 Feb 11 j 18:10	11° $\underline{15}$ 14'05	
	-2997 Feb 23 j 06:49	30° \overline{R} \overline{M}		opposition	-2991 Apr 23 j 12:49	7° $\underline{15}$ 57'27	2°34'48
direct	-2997 Apr 25 j 05:33	27° $\overline{52}$ 1'38		min. Earth dist.	-2991 Apr 23 j 22:42	7° $\underline{15}$ 55'39	9.19476 AU
	-2997 Jun 23 j 02:27	0° $\underline{15}$		direct	-2991 Jul 03 j 21:45	4° $\underline{15}$ 39'08	
evening set	-2997 Aug 07 j 23:31	4° $\underline{15}$ 43'29		evening set	-2991 Oct 12 j 21:27	11° $\underline{15}$ 33'51	
conjunction	-2997 Aug 24 j 23:36	6° $\underline{15}$ 43'46	2°00'30	conjunction	-2991 Oct 29 j 07:09	13° $\underline{15}$ 27'42	2°00'01
minimum elong	-2997 Aug 24 j 23:34	6° $\underline{15}$ 43'45	2°00'34	minimum elong	-2991 Oct 29 j 07:11	13° $\underline{15}$ 27'42	2°00'00
max. Earth dist.	-2997 Aug 25 j 00:45	6° $\underline{15}$ 44'07	10.92839 AU	max. Earth dist.	-2991 Oct 28 j 19:20	13° $\underline{15}$ 24'15	11.17773 AU
morning rise	-2997 Sep 10 j 18:47	8° $\underline{15}$ 42'40		morning rise	-2991 Nov 14 j 16:42	15° $\underline{15}$ 21'32	
	-2997 Nov 20 j 06:24	15° $\underline{15}$		retrograde	-2990 Feb 23 j 09:06	22° $\underline{15}$ 16'38	
retrograde	-2997 Dec 18 j 12:39	15° $\underline{15}$ 40'39		opposition	-2990 May 05 j 09:15	18° $\underline{15}$ 59'17	2°16'10
	-2996 Jan 16 j 03:56	15° \overline{R} \overline{M}		min. Earth dist.	-2990 May 05 j 19:43	18° $\underline{15}$ 57'22	9.15694 AU
opposition	-2996 Feb 25 j 08:18	12° $\underline{15}$ 23'25	2°36'08	direct	-2990 Jul 15 j 10:52	15° $\underline{15}$ 41'20	
min. Earth dist.	-2996 Feb 25 j 08:47	12° $\underline{15}$ 23'20	8.98324 AU	evening set	-2990 Oct 23 j 21:48	22° $\underline{15}$ 36'22	
direct	-2996 May 06 j 17:34	9° $\underline{15}$ 00'33					
	-2996 Aug 07 j 20:17	15° $\underline{15}$		conjunction	-2990 Nov 09 j 08:28	24° $\underline{15}$ 31'05	1°42'26
evening set	-2996 Aug 18 j 21:18	16° $\underline{15}$ 14'51		minimum elong	-2990 Nov 09 j 08:31	24° $\underline{15}$ 31'06	1°42'23
				max. Earth dist.	-2990 Nov 08 j 20:38	24° $\underline{15}$ 27'37	11.12722 AU
conjunction	-2996 Sep 04 j 16:40	18° $\underline{15}$ 12'41	2°13'50	morning rise	-2990 Nov 25 j 19:40	26° $\underline{15}$ 26'04	
minimum elong	-2996 Sep 04 j 16:39	18° $\underline{15}$ 12'40	2°13'54		-2990 Dec 29 j 12:29	0° \overline{M}	
max. Earth dist.	-2996 Sep 04 j 14:33	18° $\underline{15}$ 12'03	11.03077 AU	retrograde	-2989 Mar 07 j 07:12	3° \overline{M} 26'26	
morning rise	-2996 Sep 21 j 07:50	20° $\underline{15}$ 09'18		opposition	-2989 May 17 j 08:33	0° \overline{M} 08'09	1°52'14
retrograde	-2996 Dec 28 j 23:59	27° $\underline{15}$ 02'35		min. Earth dist.	-2989 May 17 j 18:57	0° \overline{M} 06'14	9.09308 AU
opposition	-2995 Mar 08 j 08:17	23° $\underline{15}$ 46'00	2°48'53		-2989 May 19 j 04:59	30° \overline{R} $\underline{15}$	
min. Earth dist.	-2995 Mar 08 j 11:21	23° $\underline{15}$ 45'26	9.07574 AU	direct	-2989 Jul 27 j 00:57	26° $\underline{15}$ 50'21	
direct	-2995 May 18 j 22:40	20° $\underline{15}$ 24'17			-2989 Sep 29 j 03:17	0° \overline{M}	
evening set	-2995 Aug 30 j 11:04	27° $\underline{15}$ 32'06		evening set	-2989 Nov 04 j 01:13	3° \overline{M} 47'12	
conjunction	-2995 Sep 16 j 02:32	29° $\underline{15}$ 27'58	2°21'43	conjunction	-2989 Nov 20 j 13:24	5° \overline{M} 43'18	1°20'44
minimum elong	-2995 Sep 16 j 02:31	29° $\underline{15}$ 27'58	2°21'46	minimum elong	-2989 Nov 20 j 13:26	5° \overline{M} 43'18	1°20'41
max. Earth dist.	-2995 Sep 15 j 21:30	29° $\underline{15}$ 26'30	11.11156 AU	max. Earth dist.	-2989 Nov 20 j 01:03	5° \overline{M} 39'39	11.05164 AU
	-2995 Sep 20 j 16:11	0° \overline{M}		morning rise	-2989 Dec 07 j 03:00	7° \overline{M} 39'55	
morning rise	-2995 Oct 02 j 14:36	1° \overline{M} 22'52		retrograde	-2988 Mar 18 j 10:07	14° \overline{M} 47'07	
retrograde	-2994 Jan 09 j 10:02	8° \overline{M} 13'12		opposition	-2988 May 28 j 11:56	11° \overline{M} 27'40	1°23'34
opposition	-2994 Mar 20 j 05:06	4° \overline{M} 56'59	2°54'58	min. Earth dist.	-2988 May 28 j 22:45	11° \overline{M} 25'41	9.00530 AU
min. Earth dist.	-2994 Mar 20 j 09:34	4° \overline{M} 56'10	9.14499 AU	direct	-2988 Aug 06 j 15:17	8° \overline{M} 09'45	
direct	-2994 May 30 j 23:31	1° \overline{M} 36'20			-2988 Nov 12 j 22:57	15° \overline{M}	
evening set	-2994 Sep 10 j 18:35	8° \overline{M} 38'51		evening set	-2988 Nov 14 j 09:31	15° \overline{M} 10'03	
conjunction	-2994 Sep 27 j 07:17	10° \overline{M} 33'22	2°24'08	conjunction	-2988 Nov 30 j 23:43	17° \overline{M} 07'57	0°55'30
minimum elong	-2994 Sep 27 j 07:17	10° \overline{M} 33'22	2°24'10	minimum elong	-2988 Nov 30 j 23:45	17° \overline{M} 07'58	0°55'26
max. Earth dist.	-2994 Sep 27 j 00:51	10° \overline{M} 31'30	11.16807 AU	max. Earth dist.	-2988 Nov 30 j 10:35	17° \overline{M} 04'02	10.95362 AU
morning rise	-2994 Oct 13 j 17:05	12° \overline{M} 27'06		morning rise	-2988 Dec 17 j 16:30	19° \overline{M} 06'40	
retrograde	-2993 Jan 20 j 20:22	19° \overline{M} 16'08		retrograde	-2987 Mar 30 j 20:18	26° \overline{M} 22'13	
opposition	-2993 Mar 31 j 23:49	16° \overline{M} 00'02	2°54'31	opposition	-2987 Jun 09 j 20:34	23° \overline{M} 01'25	0°50'55
min. Earth dist.	-2993 Apr 01 j 05:44	15° \overline{M} 58'57	9.18872 AU	min. Earth dist.	-2987 Jun 10 j 07:38	22° \overline{M} 59'21	8.89673 AU
direct	-2993 Jun 11 j 17:39	12° \overline{M} 40'21		direct	-2987 Aug 18 j 11:18	19° \overline{M} 43'05	
evening set	-2993 Sep 21 j 21:36	19° \overline{M} 38'51		evening set	-2987 Nov 26 j 00:22	26° \overline{M} 48'25	
conjunction	-2993 Oct 08 j 08:27	21° \overline{M} 32'36	2°21'11	conjunction	-2987 Dec 12 j 17:17	28° \overline{M} 48'33	0°27'29
minimum elong	-2993 Oct 08 j 08:28	21° \overline{M} 32'36	2°21'12	minimum elong	-2987 Dec 12 j 17:18	28° \overline{M} 48'33	0°27'24
max. Earth dist.	-2993 Oct 08 j 00:26	21° \overline{M} 30'16	11.19844 AU	max. Earth dist.	-2987 Dec 12 j 04:37	28° \overline{M} 44'44	10.83646 AU
morning rise	-2993 Oct 24 j 17:05	23° \overline{M} 25'47			-2987 Dec 22 j 14:31	0° \overline{M}	
	-2992 Jan 14 j 15:24	0° $\underline{15}$		morning rise	-2987 Dec 29 j 13:36	0° \overline{M} 49'45	

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Attention, astronomical year style is used: The year -2986 in astronomical counting style is the year 2987 BCE in historical counting style.

retrograde	-2986 Apr 12 j 15:02	8°♄15'01		morning rise	-2980 Mar 18 j 15:16	19°♄10'43	
opposition	-2986 Jun 22 j 11:07	4°♄52'40	0°15'15	retrograde	-2980 Jul 04 j 12:37	27°♄40'51	
min. Earth dist.	-2986 Jun 22 j 21:34	4°♄50'42	8.77106 AU	opposition	-2980 Sep 10 j 12:06	24°♄09'55	-2°50'55
direct	-2986 Aug 30 j 11:56	1°♄33'40		min. Earth dist.	-2980 Sep 10 j 09:47	24°♄10'23	7.98292 AU
desc. node	-2986 Nov 24 j 18:59	7°♄13'03		direct	-2980 Nov 15 j 12:56	20°♄43'11	
evening set	-2986 Dec 07 j 23:52	8°♄45'38		evening set	-2979 Feb 26 j 05:30	28°♄54'47	
					-2979 Mar 06 j 13:18	0°♄	
conjunction	-2986 Dec 24 j 19:57	10°♄48'20	-0°02'29				
minimum elong	-2986 Dec 24 j 19:57	10°♄48'20	0°02'35	conjunction	-2979 Mar 15 j 23:48	1°♄14'44	-2°20'18
behind sun begin	-2986 Dec 24 j 12:55	10°♄46'12		minimum elong	-2979 Mar 15 j 23:47	1°♄14'44	2°20'21
behind sun end	-2986 Dec 25 j 02:59	10°♄50'28		max. Earth dist.	-2979 Mar 16 j 04:55	1°♄16'26	9.94360 AU
max. Earth dist.	-2986 Dec 24 j 08:55	10°♄44'59	10.70403 AU	morning rise	-2979 Apr 02 j 22:00	3°♄35'58	
morning rise	-2985 Jan 10 j 19:55	12°♄52'19		retrograde	-2979 Jul 19 j 15:20	12°♄10'42	
retrograde	-2985 Apr 25 j 19:03	20°♄28'28		opposition	-2979 Sep 25 j 01:44	8°♄39'14	-2°57'39
opposition	-2985 Jul 05 j 08:17	17°♄04'27	-0°22'12	min. Earth dist.	-2979 Sep 24 j 20:22	8°♄40'21	7.91637 AU
min. Earth dist.	-2985 Jul 05 j 17:05	17°♄02'46	8.63262 AU	direct	-2979 Nov 29 j 23:13	5°♄11'12	
direct	-2985 Sep 11 j 18:56	13°♄44'32		evening set	-2978 Mar 13 j 13:45	13°♄30'08	
evening set	-2985 Dec 20 j 09:41	21°♄04'42					
				conjunction	-2978 Mar 31 j 11:46	15°♄51'53	-2°21'03
conjunction	-2984 Jan 06 j 09:06	23°♄10'16	-0°33'01	minimum elong	-2978 Mar 31 j 11:47	15°♄51'54	2°21'05
minimum elong	-2984 Jan 06 j 09:04	23°♄10'15	0°33'07	max. Earth dist.	-2978 Mar 31 j 20:38	15°♄54'50	9.89405 AU
max. Earth dist.	-2984 Jan 05 j 23:15	23°♄07'13	10.56107 AU	morning rise	-2978 Apr 18 j 12:39	18°♄14'36	
morning rise	-2984 Jan 23 j 12:56	25°♄17'16		retrograde	-2978 Aug 03 j 18:30	26°♄49'58	
	-2984 Mar 06 j 16:37	0°♄		opposition	-2978 Oct 09 j 17:22	23°♄18'29	-2°52'56
retrograde	-2984 May 08 j 10:18	3°♄05'12		min. Earth dist.	-2978 Oct 09 j 09:25	23°♄20'08	7.88510 AU
	-2984 Jul 13 j 03:32	30°♄		direct	-2978 Dec 14 j 16:15	19°♄49'21	
opposition	-2984 Jul 17 j 13:11	29°♄39'31	-0°59'53	evening set	-2977 Mar 29 j 02:56	28°♄12'46	
min. Earth dist.	-2984 Jul 17 j 20:14	29°♄38'09	8.48668 AU		-2977 Apr 11 j 16:55	0°♄	
direct	-2984 Sep 23 j 08:57	26°♄18'29					
	-2984 Nov 28 j 23:02	0°♄		conjunction	-2977 Apr 16 j 04:08	0°♄35'34	-2°12'41
evening set	-2983 Jan 01 j 07:10	3°♄48'15		minimum elong	-2977 Apr 16 j 04:11	0°♄35'35	2°12'41
				max. Earth dist.	-2977 Apr 16 j 16:02	0°♄39'31	9.88153 AU
conjunction	-2983 Jan 18 j 10:04	5°♄56'51	-1°02'51	morning rise	-2977 May 04 j 07:01	2°♄58'55	
minimum elong	-2983 Jan 18 j 10:01	5°♄56'50	1°02'57	retrograde	-2977 Aug 18 j 18:01	11°♄30'54	
max. Earth dist.	-2983 Jan 18 j 01:26	5°♄54'08	10.41366 AU	opposition	-2977 Oct 24 j 08:33	7°♄59'51	-2°36'53
morning rise	-2983 Feb 04 j 17:57	8°♄07'03		min. Earth dist.	-2977 Oct 23 j 22:53	8°♄01'52	7.89121 AU
retrograde	-2983 May 22 j 11:45	16°♄07'10		direct	-2977 Dec 29 j 13:19	4°♄29'55	
opposition	-2983 Jul 31 j 02:04	12°♄39'53	-1°35'52	evening set	-2976 Apr 12 j 17:27	12°♄54'38	
min. Earth dist.	-2983 Jul 31 j 07:24	12°♄38'50	8.34031 AU				
direct	-2983 Oct 06 j 06:21	9°♄17'31		conjunction	-2976 Apr 30 j 21:01	15°♄17'36	-1°55'43
evening set	-2982 Jan 14 j 17:45	16°♄57'59		minimum elong	-2976 Apr 30 j 21:05	15°♄17'37	1°55'41
				max. Earth dist.	-2976 May 01 j 10:43	15°♄22'08	9.90682 AU
conjunction	-2982 Feb 01 j 00:19	19°♄09'40	-1°30'19	morning rise	-2976 May 19 j 00:57	17°♄40'40	
minimum elong	-2982 Feb 01 j 00:15	19°♄09'39	1°30'25	retrograde	-2976 Sep 01 j 11:13	26°♄05'32	
max. Earth dist.	-2982 Jan 31 j 17:40	19°♄07'33	10.26974 AU	opposition	-2976 Nov 06 j 20:49	22°♄35'24	-2°10'44
morning rise	-2982 Feb 18 j 12:11	21°♄23'05		min. Earth dist.	-2976 Nov 06 j 10:26	22°♄37'35	7.93413 AU
retrograde	-2982 Jun 05 j 20:56	29°♄34'54		direct	-2975 Jan 12 j 11:37	19°♄05'00	
opposition	-2982 Aug 13 j 22:37	26°♄06'09	-2°07'57	evening set	-2975 Apr 28 j 05:27	27°♄27'51	
min. Earth dist.	-2982 Aug 14 j 02:05	26°♄05'27	8.20201 AU				
direct	-2982 Oct 19 j 15:08	22°♄42'20		conjunction	-2975 May 16 j 10:08	29°♄50'03	-1°31'31
	-2981 Jan 24 j 06:04	0°♄		minimum elong	-2975 May 16 j 10:12	29°♄50'04	1°31'28
evening set	-2981 Jan 28 j 17:33	0°♄33'53		max. Earth dist.	-2975 May 17 j 00:30	29°♄54'45	9.96778 AU
					-2975 May 17 j 16:30	0°♄	
conjunction	-2981 Feb 15 j 03:57	2°♄48'37	-1°53'35	morning rise	-2975 Jun 03 j 13:52	2°♄11'53	
minimum elong	-2981 Feb 15 j 03:53	2°♄48'36	1°53'39	retrograde	-2975 Sep 15 j 19:43	10°♄26'48	
max. Earth dist.	-2981 Feb 15 j 00:41	2°♄47'34	10.13799 AU	opposition	-2975 Nov 21 j 04:21	6°♄57'58	-1°36'43
morning rise	-2981 Mar 04 j 19:33	5°♄05'02		min. Earth dist.	-2975 Nov 20 j 17:41	7°♄00'11	8.01061 AU
retrograde	-2981 Jun 20 j 13:48	13°♄27'12		direct	-2974 Jan 27 j 08:14	3°♄27'29	
opposition	-2981 Aug 28 j 02:25	9°♄57'12	-2°33'44	evening set	-2974 May 13 j 11:20	11°♄45'38	
min. Earth dist.	-2981 Aug 28 j 03:17	9°♄57'01	8.08028 AU				
direct	-2981 Nov 02 j 09:56	6°♄31'54		conjunction	-2974 May 31 j 15:38	14°♄06'08	-1°02'03
evening set	-2980 Feb 12 j 05:52	14°♄34'06		minimum elong	-2974 May 31 j 15:40	14°♄06'09	1°01'59
	-2980 Feb 15 j 14:14	15°♄		max. Earth dist.	-2974 Jun 01 j 05:50	14°♄10'45	10.05987 AU
					-2974 Jun 07 j 13:56	15°♄	
conjunction	-2980 Feb 29 j 20:13	16°♄51'39	-2°10'47	morning rise	-2974 Jun 18 j 17:41	16°♄25'51	
minimum elong	-2980 Feb 29 j 20:10	16°♄51'38	2°10'50	retrograde	-2974 Sep 29 j 18:47	24°♄29'05	
max. Earth dist.	-2980 Feb 29 j 21:09	16°♄51'57	10.02681 AU	opposition	-2974 Dec 05 j 05:27	21°♄01'49	-0°57'36

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Attention, astronomical year style is used: The year -2974 in astronomical counting style is the year 2975 BCE in historical counting style.

min. Earth dist.	-2974 Dec 04 j 18:47	21° 8 04'01	8.11537 AU	opposition	-2967 Feb 19 j 01:51	7° Ω 12'59	2°27'45
direct	-2973 Feb 11 j 00:42	17° 8 31'39		min. Earth dist.	-2967 Feb 19 j 00:20	7° Ω 13'16	8.93557 AU
evening set	-2973 May 28 j 08:27	25° 8 42'52		direct	-2967 May 01 j 07:48	3° Ω 49'53	
				evening set	-2967 Aug 13 j 18:29	11° Ω 07'50	
conjunction	-2973 Jun 15 j 10:50	28° 8 00'55	-0°29'33				
minimum elong	-2973 Jun 15 j 10:51	28° 8 00'56	0°29'28	conjunction	-2967 Aug 30 j 16:02	13° Ω 06'47	2°08'10
max. Earth dist.	-2973 Jun 16 j 00:12	28° 8 05'12	10.17690 AU	minimum elong	-2967 Aug 30 j 15:59	13° Ω 06'46	2°08'14
	-2973 Jul 01 j 01:02	0° Π		max. Earth dist.	-2967 Aug 30 j 15:57	13° Ω 06'45	10.98969 AU
morning rise	-2973 Jul 03 j 09:50	0° Π 17'49			-2967 Sep 15 j 17:48	15° Ω	
retrograde	-2973 Oct 13 j 07:40	8° Π 08'37		morning rise	-2967 Sep 16 j 09:03	15° Ω 04'25	
opposition	-2973 Dec 18 j 23:06	4° Π 43'06	-0°16'16	retrograde	-2967 Dec 24 j 02:14	21° Ω 59'53	
min. Earth dist.	-2973 Dec 18 j 12:32	4° Π 45'15	8.24170 AU	opposition	-2966 Mar 03 j 04:03	18° Ω 43'25	2°43'36
direct	-2972 Feb 25 j 10:53	1° Π 13'37		min. Earth dist.	-2966 Mar 03 j 04:28	18° Ω 43'20	9.04085 AU
asc. node	-2972 May 15 j 23:40	6° Π 14'28		direct	-2966 May 13 j 15:46	15° Ω 21'38	
evening set	-2972 Jun 10 j 18:55	9° Π 16'25		evening set	-2966 Aug 25 j 12:10	22° Ω 32'32	
conjunction	-2972 Jun 28 j 18:02	11° Π 31'25	0°03'53	conjunction	-2966 Sep 11 j 05:33	24° Ω 29'16	2°18'36
minimum elong	-2972 Jun 28 j 18:02	11° Π 31'25	0°03'59	minimum elong	-2966 Sep 11 j 05:32	24° Ω 29'16	2°18'39
behind sun begin	-2972 Jun 28 j 10:51	11° Π 29'11		max. Earth dist.	-2966 Sep 11 j 03:21	24° Ω 28'37	11.08353 AU
behind sun end	-2972 Jun 29 j 01:13	11° Π 33'40		morning rise	-2966 Sep 27 j 18:51	26° Ω 24'53	
max. Earth dist.	-2972 Jun 29 j 06:21	11° Π 35'18	10.31151 AU		-2966 Oct 31 j 17:31	0° Π	
morning rise	-2972 Jul 16 j 12:46	13° Π 45'02		retrograde	-2965 Jan 04 j 14:37	3° Π 16'34	
retrograde	-2972 Oct 25 j 10:39	21° Π 23'33		opposition	-2965 Mar 15 j 02:38	0° Π 00'42	2°52'47
opposition	-2972 Dec 31 j 09:05	17° Π 59'53	0°24'37	min. Earth dist.	-2965 Mar 15 j 06:00	0° Π 00'05	9.12333 AU
min. Earth dist.	-2972 Dec 30 j 23:18	18° Π 01'50	8.38195 AU		-2965 Mar 15 j 06:26	30° ℞ Ω	
direct	-2971 Mar 10 j 13:10	14° Π 31'23		direct	-2965 May 25 j 18:24	26° Ω 40'05	
evening set	-2971 Jun 24 j 17:48	22° Π 24'56			-2965 Aug 01 j 01:26	0° Π	
				evening set	-2965 Sep 05 j 23:04	3° Π 45'05	
conjunction	-2971 Jul 12 j 12:28	24° Π 36'33	0°36'04				
minimum elong	-2971 Jul 12 j 12:26	24° Π 36'33	0°36'11	conjunction	-2965 Sep 22 j 12:59	5° Π 40'10	2°23'34
max. Earth dist.	-2971 Jul 12 j 23:25	24° Π 39'57	10.45583 AU	minimum elong	-2965 Sep 22 j 12:58	5° Π 40'10	2°23'36
morning rise	-2971 Jul 30 j 02:00	26° Π 46'37		max. Earth dist.	-2965 Sep 22 j 07:14	5° Π 38'30	11.15294 AU
	-2971 Aug 27 j 05:18	0° ☿		morning rise	-2965 Oct 08 j 23:42	7° Π 34'22	
retrograde	-2971 Nov 07 j 05:16	4° ☿ 13'40		retrograde	-2964 Jan 15 j 23:53	14° Π 23'53	
opposition	-2970 Jan 13 j 11:25	0° ☿ 51'50	1°02'53	opposition	-2964 Mar 25 j 22:33	11° Π 08'19	2°55'21
min. Earth dist.	-2970 Jan 13 j 03:26	0° ☿ 53'25	8.52846 AU	min. Earth dist.	-2964 Mar 26 j 04:51	11° Π 07'09	9.17965 AU
	-2970 Jan 24 j 13:27	30° ℞ Π		direct	-2964 Jun 05 j 14:49	7° Π 48'41	
direct	-2970 Mar 24 j 05:47	27° Π 24'34		evening set	-2964 Sep 16 j 04:35	14° Π 49'07	
	-2970 May 20 j 11:15	0° ☿					
evening set	-2970 Jul 08 j 04:44	5° ☿ 08'37		conjunction	-2964 Oct 02 j 16:02	16° Π 43'08	2°23'05
				minimum elong	-2964 Oct 02 j 16:03	16° Π 43'08	2°23'06
conjunction	-2970 Jul 25 j 18:08	7° ☿ 16'44	1°05'37	max. Earth dist.	-2964 Oct 02 j 07:17	16° Π 40'35	11.19507 AU
minimum elong	-2970 Jul 25 j 18:06	7° ☿ 16'43	1°05'43	morning rise	-2964 Oct 19 j 01:13	18° Π 36'31	
max. Earth dist.	-2970 Jul 26 j 02:44	7° ☿ 19'22	10.60239 AU	retrograde	-2963 Jan 26 j 09:24	25° Π 25'41	
morning rise	-2970 Aug 12 j 02:11	9° ☿ 23'15		opposition	-2963 Apr 06 j 17:21	22° Π 10'03	2°51'28
retrograde	-2970 Nov 19 j 14:35	16° ☿ 40'04		min. Earth dist.	-2963 Apr 07 j 01:26	22° Π 08'34	9.20746 AU
opposition	-2969 Jan 26 j 06:35	13° ☿ 19'57	1°36'51	direct	-2963 Jun 17 j 09:24	18° Π 51'14	
min. Earth dist.	-2969 Jan 26 j 01:04	13° ☿ 21'02	8.67396 AU	evening set	-2963 Sep 27 j 06:20	25° Π 48'28	
direct	-2969 Apr 06 j 13:53	9° ☿ 54'02					
evening set	-2969 Jul 21 j 03:51	17° ☿ 28'46		conjunction	-2963 Oct 13 j 16:31	27° Π 42'01	2°17'19
				minimum elong	-2963 Oct 13 j 16:32	27° Π 42'02	2°17'19
conjunction	-2969 Aug 07 j 11:40	19° ☿ 33'30	1°31'18	max. Earth dist.	-2963 Oct 13 j 06:24	27° Π 39'05	11.20844 AU
minimum elong	-2969 Aug 07 j 11:37	19° ☿ 33'30	1°31'23	morning rise	-2963 Oct 30 j 01:02	29° Π 35'11	
max. Earth dist.	-2969 Aug 07 j 16:57	19° ☿ 35'06	10.74424 AU		-2963 Nov 02 j 16:55	0° ♊	
morning rise	-2969 Aug 24 j 14:21	21° ☿ 36'42		retrograde	-2962 Feb 06 j 22:09	6° ♊ 25'45	
retrograde	-2969 Dec 01 j 15:02	28° ☿ 44'46		opposition	-2962 Apr 18 j 12:10	3° ♊ 09'42	2°41'21
opposition	-2968 Feb 07 j 19:06	25° ☿ 26'09	2°05'23	min. Earth dist.	-2962 Apr 18 j 21:20	3° ♊ 08'02	9.20618 AU
min. Earth dist.	-2968 Feb 07 j 15:51	25° ☿ 26'46	8.81165 AU		-2962 Jun 15 j 13:38	30° ℞ Π	
direct	-2968 Apr 18 j 15:02	22° ☿ 01'38		direct	-2962 Jun 29 j 00:15	29° Π 51'30	
evening set	-2968 Aug 01 j 16:08	29° ☿ 27'37			-2962 Jul 12 j 07:31	0° ♊	
	-2968 Aug 06 j 06:30	0° Ω		evening set	-2962 Oct 08 j 06:33	6° ♊ 46'55	
conjunction	-2968 Aug 18 j 18:31	1° Ω 29'14	1°52'19	conjunction	-2962 Oct 24 j 16:19	8° ♊ 40'36	2°06'31
minimum elong	-2968 Aug 18 j 18:28	1° Ω 29'13	1°52'23	minimum elong	-2962 Oct 24 j 16:22	8° ♊ 40'37	2°06'30
max. Earth dist.	-2968 Aug 18 j 20:31	1° Ω 29'50	10.87510 AU	max. Earth dist.	-2962 Oct 24 j 04:47	8° ♊ 37'15	11.19314 AU
morning rise	-2968 Sep 04 j 16:07	3° Ω 29'25		morning rise	-2962 Nov 10 j 01:14	10° ♊ 34'09	
retrograde	-2968 Dec 12 j 11:13	10° Ω 30'23		retrograde	-2961 Feb 18 j 11:53	17° ♊ 27'40	

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Attention, astronomical year style is used: The year -2961 in astronomical counting style is the year 2962 BCE in historical counting style.

opposition	-2961 Apr 30 j 08:04	14° Ω 10'56	2°25'19	max. Earth dist.	-2956 Dec 30 j 13:25	17° Υ 43'00	10.60621 AU
min. Earth dist.	-2961 Apr 30 j 18:58	14° Ω 08'56	9.17648 AU	morning rise	-2955 Jan 17 j 03:18	19° Υ 52'25	
direct	-2961 Jul 10 j 12:14	10° Ω 53'01		retrograde	-2955 May 02 j 13:44	27° Υ 35'34	
evening set	-2961 Oct 19 j 06:54	17° Ω 48'09		opposition	-2955 Jul 11 j 22:33	24° Υ 09'58	-0°42'51
				min. Earth dist.	-2955 Jul 12 j 07:13	24° Υ 08'17	8.53273 AU
conjunction	-2961 Nov 04 j 17:00	19° Ω 42'29	1°50'59	direct	-2955 Sep 18 j 01:29	20° Υ 48'44	
minimum elong	-2961 Nov 04 j 17:03	19° Ω 42'30	1°50'57	evening set	-2955 Dec 26 j 19:19	28° Υ 14'40	
max. Earth dist.	-2961 Nov 04 j 03:26	19° Ω 38'31	11.15021 AU		-2954 Jan 09 j 22:17	0° Ξ	
morning rise	-2961 Nov 21 j 03:23	21° Ω 36'57					
retrograde	-2960 Mar 01 j 06:25	28° Ω 35'03		conjunction	-2954 Jan 12 j 20:42	0° Ξ 22'05	-0°49'29
opposition	-2960 May 11 j 06:27	25° Ω 17'19	2°03'46	minimum elong	-2954 Jan 12 j 20:40	0° Ξ 22'05	0°49'35
min. Earth dist.	-2960 May 11 j 18:47	25° Ω 15'03	9.11975 AU	max. Earth dist.	-2954 Jan 12 j 11:48	0° Ξ 19'18	10.46059 AU
direct	-2960 Jul 21 j 02:42	21° Ω 59'25		morning rise	-2954 Jan 30 j 02:54	2° Ξ 31'04	
evening set	-2960 Oct 29 j 08:59	28° Ω 55'42		retrograde	-2954 May 16 j 10:09	10° Ξ 26'15	
	-2960 Nov 07 j 14:09	0° \mathbb{M}		opposition	-2954 Jul 25 j 07:58	6° Ξ 59'00	-1°19'55
				min. Earth dist.	-2954 Jul 25 j 14:07	6° Ξ 57'47	8.38734 AU
conjunction	-2960 Nov 14 j 20:18	0° \mathbb{M} 51'13	1°31'06	direct	-2954 Sep 30 j 20:16	3° Ξ 36'35	
minimum elong	-2960 Nov 14 j 20:21	0° \mathbb{M} 51'14	1°31'04	evening set	-2953 Jan 08 j 23:58	11° Ξ 12'41	
max. Earth dist.	-2960 Nov 14 j 06:01	0° \mathbb{M} 47'00	11.08130 AU				
morning rise	-2960 Dec 01 j 08:53	2° \mathbb{M} 47'08		conjunction	-2953 Jan 26 j 05:01	13° Ξ 23'10	-1°18'17
retrograde	-2959 Mar 13 j 05:27	9° \mathbb{M} 51'25		minimum elong	-2953 Jan 26 j 04:58	13° Ξ 23'09	1°18'23
opposition	-2959 May 23 j 08:17	6° \mathbb{M} 32'23	1°37'13	max. Earth dist.	-2953 Jan 25 j 23:12	13° Ξ 21'19	10.31655 AU
min. Earth dist.	-2959 May 23 j 20:43	6° \mathbb{M} 30'05	9.03808 AU	morning rise	-2953 Feb 12 j 15:00	15° Ξ 35'17	
direct	-2959 Aug 01 j 18:06	3° \mathbb{M} 14'16		retrograde	-2953 May 30 j 15:50	23° Ξ 42'27	
evening set	-2959 Nov 09 j 14:56	10° \mathbb{M} 13'17		opposition	-2953 Aug 08 j 01:10	20° Ξ 13'41	-1°54'06
				min. Earth dist.	-2953 Aug 08 j 04:19	20° Ξ 13'03	8.24755 AU
conjunction	-2959 Nov 26 j 04:18	12° \mathbb{M} 10'26	1°07'25	direct	-2953 Oct 14 j 00:17	16° Ξ 50'00	
minimum elong	-2959 Nov 26 j 04:20	12° \mathbb{M} 10'27	1°07'22	evening set	-2952 Jan 22 j 17:49	24° Ξ 36'56	
max. Earth dist.	-2959 Nov 25 j 14:51	12° \mathbb{M} 06'26	10.98876 AU				
morning rise	-2959 Dec 12 j 19:35	14° \mathbb{M} 08'16		conjunction	-2952 Feb 09 j 02:34	26° Ξ 50'28	-1°43'42
	-2959 Dec 20 j 07:38	15° \mathbb{M}		minimum elong	-2952 Feb 09 j 02:30	26° Ξ 50'27	1°43'47
retrograde	-2958 Mar 25 j 13:10	21° \mathbb{M} 20'17		max. Earth dist.	-2952 Feb 08 j 23:47	26° Ξ 49'35	10.18184 AU
opposition	-2958 Jun 04 j 14:29	17° \mathbb{M} 59'44	1°06'17	morning rise	-2952 Feb 26 j 16:20	29° Ξ 05'40	
min. Earth dist.	-2958 Jun 05 j 01:59	17° \mathbb{M} 57'35	8.93436 AU		-2952 Mar 04 j 22:07	0° \approx	
	-2958 Jul 24 j 23:13	15° $\mathbb{R}\mathbb{M}$		retrograde	-2952 Jun 13 j 06:41	7° \approx 23'51	
direct	-2958 Aug 13 j 12:52	14° \mathbb{M} 41'10		opposition	-2952 Aug 21 j 01:59	3° \approx 53'50	-2°23'02
	-2958 Sep 01 j 19:26	15° \mathbb{M}		min. Earth dist.	-2952 Aug 21 j 02:11	3° \approx 53'48	8.12121 AU
evening set	-2958 Nov 21 j 02:43	21° \mathbb{M} 44'31		direct	-2952 Oct 26 j 13:15	0° \approx 28'51	
				evening set	-2951 Feb 05 j 00:42	8° \approx 26'37	
conjunction	-2958 Dec 07 j 18:34	23° \mathbb{M} 43'46	0°40'34				
minimum elong	-2958 Dec 07 j 18:35	23° \mathbb{M} 43'46	0°40'30	conjunction	-2951 Feb 22 j 13:13	10° \approx 43'02	-2°03'51
max. Earth dist.	-2958 Dec 07 j 05:26	23° \mathbb{M} 39'49	10.87581 AU	minimum elong	-2951 Feb 22 j 13:10	10° \approx 43'01	2°03'55
morning rise	-2958 Dec 24 j 13:09	25° \mathbb{M} 43'56		max. Earth dist.	-2951 Feb 22 j 13:28	10° \approx 43'07	10.06446 AU
	-2957 Feb 02 j 16:00	0° Υ		morning rise	-2951 Mar 12 j 06:42	13° \approx 01'04	
retrograde	-2957 Apr 07 j 05:04	3° Υ 05'06			-2951 Mar 28 j 04:22	15° \approx	
	-2957 Jun 13 j 07:34	30° $\mathbb{R}\mathbb{M}$		retrograde	-2951 Jun 28 j 04:37	21° \approx 28'19	
opposition	-2957 Jun 17 j 02:21	29° \mathbb{M} 42'56	0°31'51	opposition	-2951 Sep 04 j 09:24	17° \approx 57'25	-2°44'21
min. Earth dist.	-2957 Jun 17 j 13:07	29° \mathbb{M} 40'55	8.81226 AU	min. Earth dist.	-2951 Sep 04 j 07:09	17° \approx 57'53	8.01603 AU
direct	-2957 Aug 25 j 09:47	26° \mathbb{M} 23'41			-2951 Oct 17 j 21:06	15° $\mathbb{R}\mathbb{M}$	
	-2957 Oct 31 j 17:30	0° Υ		direct	-2951 Nov 09 j 11:26	14° \approx 31'08	
evening set	-2957 Dec 02 j 22:12	3° Υ 33'02			-2951 Dec 01 j 23:29	15° \approx	
				evening set	-2950 Feb 19 j 19:47	22° \approx 38'57	
conjunction	-2957 Dec 19 j 16:47	5° Υ 34'42	0°11'25				
minimum elong	-2957 Dec 19 j 16:48	5° Υ 34'43	0°11'19	conjunction	-2950 Mar 09 j 12:08	24° \approx 57'56	-2°17'00
behind sun begin	-2957 Dec 19 j 11:36	5° Υ 33'09		minimum elong	-2950 Mar 09 j 12:06	24° \approx 57'55	2°17'03
behind sun end	-2957 Dec 19 j 22:00	5° Υ 36'16		max. Earth dist.	-2950 Mar 09 j 15:46	24° \approx 59'08	9.97194 AU
max. Earth dist.	-2957 Dec 19 j 03:46	5° Υ 30'45	10.74658 AU	morning rise	-2950 Mar 27 j 09:00	27° \approx 18'21	
morning rise	-2956 Jan 05 j 15:08	7° Υ 37'35			-2950 Apr 18 j 01:05	0° \mathbb{H}	
retrograde	-2956 Apr 19 j 04:11	15° Υ 09'14		retrograde	-2950 Jul 13 j 07:00	5° \mathbb{H} 51'43	
desc. node	-2956 May 09 j 11:41	14° Υ 49'07		opposition	-2950 Sep 18 j 21:44	2° \mathbb{H} 20'22	-2°55'57
opposition	-2956 Jun 28 j 20:50	11° Υ 45'22	-0°05'01	min. Earth dist.	-2950 Sep 18 j 17:08	2° \mathbb{H} 21'19	7.93900 AU
min. Earth dist.	-2956 Jun 29 j 06:55	11° Υ 43'26	8.67649 AU		-2950 Oct 19 j 22:38	30° $\mathbb{R}\mathbb{M}$	
direct	-2956 Sep 05 j 13:46	8° Υ 25'13		direct	-2950 Nov 23 j 18:56	28° \approx 52'53	
evening set	-2956 Dec 14 j 03:12	15° Υ 42'09			-2950 Dec 28 j 06:30	0° \mathbb{H}	
				evening set	-2949 Mar 07 j 00:40	7° \mathbb{H} 09'04	
conjunction	-2956 Dec 31 j 01:01	17° Υ 46'34	-0°19'06				
minimum elong	-2956 Dec 31 j 01:00	17° Υ 46'34	0°19'12	conjunction	-2949 Mar 24 j 20:49	9° \mathbb{H} 30'05	-2°21'47

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Attention, astronomical year style is used: The year -2949 in astronomical counting style is the year 2950 BCE in historical counting style.

minimum elong	-2949 Mar 24 j 20:49	9° X 30'05	2°21'49	direct	-2943 Feb 18 j 09:07	25° B 24'32	
max. Earth dist.	-2949 Mar 25 j 04:06	9° X 32'30	9.91083 AU		-2943 May 05 j 17:10	0° II	
morning rise	-2949 Apr 11 j 20:40	11° X 52'16		evening set	-2943 Jun 04 j 19:07	3° II 31'04	
retrograde	-2949 Jul 28 j 10:15	20° X 28'04					
opposition	-2949 Oct 03 j 13:09	16° X 56'42	-2°56'23	conjunction	-2943 Jun 22 j 19:49	5° II 47'26	-0°11'02
min. Earth dist.	-2949 Oct 03 j 06:10	16° X 58'09	7.89566 AU	minimum elong	-2943 Jun 22 j 19:50	5° II 47'26	0°10'57
direct	-2949 Dec 08 j 10:46	13° X 28'14		behind sun begin	-2943 Jun 22 j 14:23	5° II 45'43	
evening set	-2948 Mar 21 j 12:13	21° X 50'09		behind sun end	-2943 Jun 23 j 01:17	5° II 49'09	
				max. Earth dist.	-2943 Jun 23 j 08:13	5° II 51'21	10.25995 AU
conjunction	-2948 Apr 08 j 11:55	24° X 12'33	-2°17'28	morning rise	-2943 Jul 10 j 16:30	8° II 02'29	
minimum elong	-2948 Apr 08 j 11:57	24° X 12'34	2°17'28	retrograde	-2943 Oct 20 j 02:23	15° II 46'27	
max. Earth dist.	-2948 Apr 08 j 22:42	24° X 16'08	9.88570 AU	asc. node	-2943 Oct 25 j 17:03	15° II 44'43	
morning rise	-2948 Apr 26 j 14:09	26° X 35'44		opposition	-2943 Dec 25 j 20:12	12° II 22'31	0°06'38
	-2948 May 24 j 03:52	0° Y		min. Earth dist.	-2943 Dec 25 j 11:43	12° II 24'14	8.32621 AU
retrograde	-2948 Aug 11 j 10:49	5° Y 09'52		direct	-2942 Mar 04 j 15:42	8° II 54'03	
opposition	-2948 Oct 17 j 05:09	1° Y 38'55	-2°45'17	evening set	-2942 Jun 18 j 23:37	16° II 51'55	
min. Earth dist.	-2948 Oct 16 j 19:56	1° Y 40'51	7.88918 AU				
	-2948 Nov 06 j 17:52	30° X		conjunction	-2942 Jul 06 j 20:15	19° II 05'03	0°22'00
direct	-2948 Dec 22 j 07:08	28° X 09'43		minimum elong	-2942 Jul 06 j 20:14	19° II 05'03	0°22'06
	-2947 Feb 05 j 02:02	0° Y		max. Earth dist.	-2942 Jul 07 j 05:54	19° II 08'04	10.39628 AU
evening set	-2947 Apr 06 j 03:02	6° Y 34'16		morning rise	-2942 Jul 24 j 12:16	21° II 16'44	
				retrograde	-2942 Nov 02 j 00:08	28° II 49'03	
conjunction	-2947 Apr 24 j 05:38	8° Y 57'13	-2°04'13	opposition	-2941 Jan 08 j 02:20	25° II 26'50	0°46'20
minimum elong	-2947 Apr 24 j 05:41	8° Y 57'14	2°04'11	min. Earth dist.	-2941 Jan 07 j 19:04	25° II 28'16	8.46597 AU
max. Earth dist.	-2947 Apr 24 j 19:17	9° Y 01'44	9.89833 AU	direct	-2941 Mar 18 j 13:57	21° II 59'19	
morning rise	-2947 May 12 j 09:19	11° Y 20'29		evening set	-2941 Jul 02 j 16:22	29° II 47'56	
retrograde	-2947 Aug 26 j 06:47	19° Y 48'56			-2941 Jul 04 j 08:16	0° B	
opposition	-2947 Oct 31 j 19:09	16° Y 18'50	-2°23'24				
min. Earth dist.	-2947 Oct 31 j 08:03	16° Y 21'09	7.91988 AU	conjunction	-2941 Jul 20 j 08:07	1° B 57'41	0°52'56
direct	-2946 Jan 06 j 05:16	12° Y 49'10		minimum elong	-2941 Jul 20 j 08:05	1° B 57'40	0°53'02
evening set	-2946 Apr 21 j 16:55	21° Y 13'03		max. Earth dist.	-2941 Jul 20 j 15:28	1° B 59'57	10.53765 AU
				morning rise	-2941 Aug 06 j 18:51	4° B 05'51	
conjunction	-2946 May 09 j 21:18	23° Y 35'37	-1°43'02	retrograde	-2941 Nov 14 j 13:42	11° B 27'29	
minimum elong	-2946 May 09 j 21:22	23° Y 35'38	1°42'59	opposition	-2940 Jan 21 j 00:53	8° B 06'50	1°22'26
max. Earth dist.	-2946 May 10 j 12:50	23° Y 40'43	9.94746 AU	min. Earth dist.	-2940 Jan 20 j 18:57	8° B 07'59	8.60756 AU
morning rise	-2946 May 28 j 01:13	25° Y 58'00		direct	-2940 Mar 31 j 02:54	4° B 40'26	
	-2946 Jun 30 j 15:26	0° B		evening set	-2940 Jul 14 j 21:18	12° B 19'45	
retrograde	-2946 Sep 09 j 19:52	4° B 17'30					
opposition	-2946 Nov 15 j 05:12	0° B 48'36	-1°52'35	conjunction	-2940 Aug 01 j 07:45	14° B 26'05	1°20'29
min. Earth dist.	-2946 Nov 14 j 17:11	0° B 51'05	7.98508 AU	minimum elong	-2940 Aug 01 j 07:42	14° B 26'05	1°20'35
	-2946 Nov 25 j 01:11	30° X		max. Earth dist.	-2940 Aug 01 j 13:06	14° B 27'43	10.67720 AU
direct	-2945 Jan 21 j 02:04	27° Y 18'45		morning rise	-2940 Aug 18 j 12:55	16° B 30'51	
	-2945 Mar 17 j 19:36	0° B		retrograde	-2940 Nov 25 j 18:47	23° B 43'08	
evening set	-2945 May 07 j 01:53	5° B 38'54		opposition	-2939 Feb 01 j 16:43	20° B 23'52	1°53'33
				min. Earth dist.	-2939 Feb 01 j 12:39	20° B 24'39	8.74425 AU
conjunction	-2945 May 25 j 06:37	8° B 00'09	-1°15'40	direct	-2939 Apr 13 j 07:50	16° B 58'39	
minimum elong	-2945 May 25 j 06:40	8° B 00'10	1°15'36	evening set	-2939 Jul 27 j 14:47	24° B 28'58	
max. Earth dist.	-2945 May 25 j 22:32	8° B 05'20	10.02874 AU				
morning rise	-2945 Jun 12 j 09:27	10° B 20'45		conjunction	-2939 Aug 13 j 19:48	26° B 32'06	1°43'41
	-2945 Jul 22 j 10:35	15° B		minimum elong	-2939 Aug 13 j 19:44	26° B 32'05	1°43'46
retrograde	-2945 Sep 24 j 00:59	18° B 29'07		max. Earth dist.	-2939 Aug 13 j 23:03	26° B 33'05	10.80860 AU
opposition	-2945 Nov 29 j 09:21	15° B 01'41	-1°15'25	morning rise	-2939 Aug 30 j 19:32	28° B 33'42	
min. Earth dist.	-2945 Nov 28 j 21:44	15° B 04'04	8.07922 AU		-2939 Sep 12 j 07:42	0° B	
	-2945 Nov 29 j 17:28	15° X		retrograde	-2939 Dec 07 j 18:01	5° B 38'11	
direct	-2944 Feb 04 j 19:45	11° B 31'58		opposition	-2938 Feb 14 j 02:31	2° B 20'04	2°18'46
	-2944 Apr 09 j 11:53	15° B		min. Earth dist.	-2938 Feb 14 j 01:13	2° B 20'19	8.87013 AU
evening set	-2944 May 21 j 03:20	19° B 46'05			-2938 Mar 20 j 02:01	30° X	
				direct	-2938 Apr 26 j 03:37	28° B 56'04	
conjunction	-2944 Jun 08 j 06:51	22° B 05'13	-0°44'15		-2938 Jun 01 j 19:41	0° B	
minimum elong	-2944 Jun 08 j 06:53	22° B 05'13	0°44'10	evening set	-2938 Aug 08 j 21:53	6° B 18'02	
max. Earth dist.	-2944 Jun 08 j 21:31	22° B 09'55	10.13530 AU				
morning rise	-2944 Jun 26 j 07:13	24° B 23'19		conjunction	-2938 Aug 25 j 21:38	8° B 18'18	2°01'54
	-2944 Aug 16 j 11:41	0° II		minimum elong	-2938 Aug 25 j 21:35	8° B 18'17	2°01'58
retrograde	-2944 Oct 06 j 19:14	2° II 19'29		max. Earth dist.	-2938 Aug 25 j 21:40	8° B 18'18	10.92649 AU
	-2944 Nov 28 j 11:27	30° X		morning rise	-2938 Sep 11 j 16:39	10° B 17'11	
opposition	-2944 Dec 12 j 06:24	28° B 53'46	-0°34'45		-2938 Oct 27 j 21:03	15° B	
min. Earth dist.	-2944 Dec 11 j 20:17	28° B 55'50	8.19513 AU	retrograde	-2938 Dec 19 j 09:56	17° B 15'26	

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Attention, astronomical year style is used: The year -2937 in astronomical counting style is the year 2938 BCE in historical counting style.

	-2937 Feb 12 j 08:02	15° κ ♏		min. Earth dist.	-2931 May 06 j 20:49	20° $\underline{\mathfrak{a}}$ 39'31	9.14308 AU
opposition	-2937 Feb 26 j 06:58	13° Ω 58'12	2°37'35	direct	-2931 Jul 16 j 12:38	17° $\underline{\mathfrak{a}}$ 23'16	
min. Earth dist.	-2937 Feb 26 j 08:12	13° Ω 57'58	8.98021 AU	evening set	-2931 Oct 24 j 22:32	24° $\underline{\mathfrak{a}}$ 18'54	
direct	-2937 May 08 j 15:25	10° Ω 35'21					
	-2937 Jul 25 j 20:56	15° Ω		conjunction	-2931 Nov 10 j 09:23	26° $\underline{\mathfrak{a}}$ 13'51	1°40'18
evening set	-2937 Aug 20 j 19:38	17° Ω 49'54		minimum elong	-2931 Nov 10 j 09:26	26° $\underline{\mathfrak{a}}$ 13'52	1°40'16
				max. Earth dist.	-2931 Nov 09 j 21:54	26° $\underline{\mathfrak{a}}$ 10'29	11.11311 AU
conjunction	-2937 Sep 06 j 14:47	19° Ω 47'44	2°14'46	morning rise	-2931 Nov 26 j 20:47	28° $\underline{\mathfrak{a}}$ 09'05	
minimum elong	-2937 Sep 06 j 14:45	19° Ω 47'43	2°14'50		-2931 Dec 13 j 11:20	0° \mathfrak{m}	
max. Earth dist.	-2937 Sep 06 j 11:43	19° Ω 46'50	11.02644 AU	retrograde	-2930 Mar 08 j 09:46	5° \mathfrak{m} 10'22	
morning rise	-2937 Sep 23 j 05:54	21° Ω 44'23		opposition	-2930 May 18 j 11:13	1° \mathfrak{m} 51'55	1°49'23
retrograde	-2937 Dec 30 j 22:47	28° Ω 38'07		min. Earth dist.	-2930 May 18 j 21:30	1° \mathfrak{m} 50'01	9.07875 AU
opposition	-2936 Mar 09 j 07:12	25° Ω 21'29	2°49'44		-2930 Jun 14 j 10:51	30° \mathfrak{R} $\underline{\mathfrak{a}}$	
min. Earth dist.	-2936 Mar 09 j 10:07	25° Ω 20'57	9.07024 AU	direct	-2930 Jul 28 j 01:00	28° $\underline{\mathfrak{a}}$ 34'01	
direct	-2936 May 19 j 22:45	21° Ω 59'45			-2930 Sep 08 j 07:57	0° \mathfrak{m}	
evening set	-2936 Aug 31 j 09:35	29° Ω 07'54		evening set	-2930 Nov 05 j 02:42	5° \mathfrak{m} 31'33	
	-2936 Sep 07 j 22:15	0° \mathfrak{m}					
				conjunction	-2930 Nov 21 j 15:01	7° \mathfrak{m} 27'52	1°18'11
conjunction	-2936 Sep 17 j 01:02	1° \mathfrak{m} 03'51	2°22'09	minimum elong	-2930 Nov 21 j 15:04	7° \mathfrak{m} 27'53	1°18'08
minimum elong	-2936 Sep 17 j 01:01	1° \mathfrak{m} 03'51	2°22'12	max. Earth dist.	-2930 Nov 21 j 02:14	7° \mathfrak{m} 24'06	11.03737 AU
max. Earth dist.	-2936 Sep 16 j 20:14	1° \mathfrak{m} 02'27	11.10484 AU	morning rise	-2930 Dec 08 j 05:02	9° \mathfrak{m} 24'45	
morning rise	-2936 Oct 03 j 12:56	2° \mathfrak{m} 58'49			-2929 Feb 04 j 04:20	15° \mathfrak{m}	
retrograde	-2935 Jan 10 j 10:19	9° \mathfrak{m} 49'41		retrograde	-2929 Mar 20 j 13:16	16° \mathfrak{m} 32'54	
opposition	-2935 Mar 21 j 04:27	6° \mathfrak{m} 33'24	2°55'13		-2929 May 05 j 05:32	15° \mathfrak{R} \mathfrak{m}	
min. Earth dist.	-2935 Mar 21 j 08:44	6° \mathfrak{m} 32'36	9.13712 AU	opposition	-2929 May 30 j 15:13	13° \mathfrak{m} 13'18	1°20'14
direct	-2935 May 31 j 22:10	3° \mathfrak{m} 12'44		min. Earth dist.	-2929 May 31 j 02:21	13° \mathfrak{m} 11'14	8.99108 AU
evening set	-2935 Sep 11 j 17:25	10° \mathfrak{m} 15'39		direct	-2929 Aug 08 j 17:57	9° \mathfrak{m} 55'15	
					-2929 Oct 30 j 08:02	15° \mathfrak{m}	
conjunction	-2935 Sep 28 j 06:06	12° \mathfrak{m} 10'16	2°24'03	evening set	-2929 Nov 16 j 11:41	16° \mathfrak{m} 56'16	
minimum elong	-2935 Sep 28 j 06:06	12° \mathfrak{m} 10'16	2°24'05				
max. Earth dist.	-2935 Sep 27 j 23:50	12° \mathfrak{m} 08'27	11.15912 AU	conjunction	-2929 Dec 03 j 02:10	18° \mathfrak{m} 54'26	0°52'36
morning rise	-2935 Oct 14 j 15:49	14° \mathfrak{m} 04'08		minimum elong	-2929 Dec 03 j 02:12	18° \mathfrak{m} 54'26	0°52'33
retrograde	-2934 Jan 21 j 20:27	20° \mathfrak{m} 53'48		max. Earth dist.	-2929 Dec 02 j 13:28	18° \mathfrak{m} 50'38	10.93969 AU
opposition	-2934 Apr 01 j 23:55	17° \mathfrak{m} 37'36	2°54'08	morning rise	-2929 Dec 19 j 19:18	20° \mathfrak{m} 53'25	
min. Earth dist.	-2934 Apr 02 j 06:21	17° \mathfrak{m} 36'26	9.17880 AU	retrograde	-2928 Apr 01 j 00:27	28° \mathfrak{m} 09'54	
direct	-2934 Jun 12 j 16:28	14° \mathfrak{m} 17'52		opposition	-2928 Jun 11 j 00:28	24° \mathfrak{m} 48'57	0°47'12
evening set	-2934 Sep 22 j 20:48	21° \mathfrak{m} 16'51		min. Earth dist.	-2928 Jun 11 j 11:07	24° \mathfrak{m} 46'57	8.88313 AU
				direct	-2928 Aug 19 j 14:02	21° \mathfrak{m} 30'31	
conjunction	-2934 Oct 09 j 07:33	23° \mathfrak{m} 10'43	2°20'34	evening set	-2928 Nov 27 j 03:15	28° \mathfrak{m} 36'34	
minimum elong	-2934 Oct 09 j 07:34	23° \mathfrak{m} 10'44	2°20'35		-2928 Dec 08 j 18:15	0° \mathfrak{J}	
max. Earth dist.	-2934 Oct 08 j 22:48	23° \mathfrak{m} 08'11	11.18765 AU				
morning rise	-2934 Oct 25 j 16:20	25° \mathfrak{m} 04'04		conjunction	-2928 Dec 13 j 20:32	0° \mathfrak{J} 36'56	0°24'20
	-2934 Dec 15 j 03:02	0° $\underline{\mathfrak{a}}$		minimum elong	-2928 Dec 13 j 20:33	0° \mathfrak{J} 36'57	0°24'16
retrograde	-2933 Feb 02 j 06:39	1° $\underline{\mathfrak{a}}$ 54'11		max. Earth dist.	-2928 Dec 13 j 09:13	0° \mathfrak{J} 33'32	10.82339 AU
	-2933 Mar 25 j 10:30	30° \mathfrak{R} \mathfrak{m}		morning rise	-2928 Dec 30 j 17:03	2° \mathfrak{J} 38'23	
opposition	-2933 Apr 13 j 18:44	28° \mathfrak{m} 37'50	2°46'41	retrograde	-2927 Apr 13 j 19:49	10° \mathfrak{J} 04'37	
min. Earth dist.	-2933 Apr 14 j 03:19	28° \mathfrak{m} 36'16	9.19391 AU	opposition	-2927 Jun 23 j 15:41	6° \mathfrak{J} 42'06	0°11'17
direct	-2933 Jun 24 j 08:04	25° \mathfrak{m} 18'51		min. Earth dist.	-2927 Jun 24 j 00:55	6° \mathfrak{J} 40'22	8.75873 AU
	-2933 Sep 13 j 05:29	0° $\underline{\mathfrak{a}}$		direct	-2927 Aug 31 j 15:56	3° \mathfrak{J} 23'03	
evening set	-2933 Oct 03 j 21:38	2° $\underline{\mathfrak{a}}$ 15'17		desc. node	-2927 Oct 16 j 10:16	5° \mathfrak{J} 08'47	
				evening set	-2927 Dec 09 j 03:38	10° \mathfrak{J} 35'42	
conjunction	-2933 Oct 20 j 07:25	4° $\underline{\mathfrak{a}}$ 08'58	2°11'55				
minimum elong	-2933 Oct 20 j 07:27	4° $\underline{\mathfrak{a}}$ 08'59	2°11'54	conjunction	-2927 Dec 25 j 24:00	12° \mathfrak{J} 38'38	-0°05'45
max. Earth dist.	-2933 Oct 19 j 20:39	4° $\underline{\mathfrak{a}}$ 05'50	11.18944 AU	minimum elong	-2927 Dec 25 j 23:59	12° \mathfrak{J} 38'38	0°05'50
morning rise	-2933 Nov 05 j 16:15	6° $\underline{\mathfrak{a}}$ 02'24		behind sun begin	-2927 Dec 25 j 17:15	12° \mathfrak{J} 36'35	
retrograde	-2932 Feb 13 j 18:27	12° $\underline{\mathfrak{a}}$ 54'37		behind sun end	-2927 Dec 26 j 06:44	12° \mathfrak{J} 40'41	
opposition	-2932 Apr 24 j 13:57	9° $\underline{\mathfrak{a}}$ 37'49	2°33'08	max. Earth dist.	-2927 Dec 25 j 13:54	12° \mathfrak{J} 35'34	10.69263 AU
min. Earth dist.	-2932 Apr 24 j 23:30	9° $\underline{\mathfrak{a}}$ 36'04	9.18189 AU	morning rise	-2926 Jan 12 j 00:13	14° \mathfrak{J} 42'51	
direct	-2932 Jul 04 j 22:27	6° $\underline{\mathfrak{a}}$ 19'24		retrograde	-2926 Apr 27 j 01:56	22° \mathfrak{J} 19'51	
evening set	-2932 Oct 13 j 21:34	13° $\underline{\mathfrak{a}}$ 14'44		opposition	-2926 Jul 06 j 13:30	18° \mathfrak{J} 55'43	-0°26'14
				min. Earth dist.	-2926 Jul 06 j 21:14	18° \mathfrak{J} 54'14	8.62247 AU
conjunction	-2932 Oct 30 j 07:31	15° $\underline{\mathfrak{a}}$ 08'47	1°58'22	direct	-2926 Sep 12 j 22:56	15° \mathfrak{J} 35'45	
minimum elong	-2932 Oct 30 j 07:33	15° $\underline{\mathfrak{a}}$ 08'48	1°58'20	evening set	-2926 Dec 21 j 14:20	22° \mathfrak{J} 56'31	
max. Earth dist.	-2932 Oct 29 j 20:29	15° $\underline{\mathfrak{a}}$ 05'34	11.16436 AU				
morning rise	-2932 Nov 15 j 17:10	17° $\underline{\mathfrak{a}}$ 02'50		conjunction	-2925 Jan 07 j 13:54	25° \mathfrak{J} 02'15	-0°36'14
retrograde	-2931 Feb 24 j 12:49	23° $\underline{\mathfrak{a}}$ 58'48		minimum elong	-2925 Jan 07 j 13:52	25° \mathfrak{J} 02'14	0°36'20
opposition	-2931 May 06 j 11:06	20° $\underline{\mathfrak{a}}$ 41'17	2°13'53	max. Earth dist.	-2925 Jan 07 j 04:18	24° \mathfrak{J} 59'16	10.55231 AU

Attention, astronomical year style is used: The year -2925 in astronomical counting style is the year 2926 BCE in historical counting style.

morning rise	-2925 Jan 24 j 18:05	27°𐌶09'28	conjunction	-2919 Apr 01 j 18:06	17°𐌶45'00	-2°20'39	
	-2925 Feb 18 j 06:20	0°𐌶	minimum elong	-2919 Apr 01 j 18:08	17°𐌶45'00	2°20'40	
retrograde	-2925 May 10 j 17:35	4°𐌶58'02	max. Earth dist.	-2919 Apr 02 j 02:45	17°𐌶47'52	9.90115 AU	
opposition	-2925 Jul 19 j 18:52	1°𐌶32'16	-1°03'46	morning rise	-2919 Apr 19 j 19:05	20°𐌶07'35	
min. Earth dist.	-2925 Jul 20 j 01:35	1°𐌶30'57	8.47951 AU	retrograde	-2919 Aug 04 j 23:41	28°𐌶42'08	
	-2925 Aug 09 j 08:03	30°𐌶𐌶		opposition	-2919 Oct 10 j 22:06	25°𐌶10'46	-2°51'52
direct	-2925 Sep 25 j 12:23	28°𐌶11'09		min. Earth dist.	-2919 Oct 10 j 14:25	25°𐌶12'22	7.89312 AU
	-2925 Nov 10 j 03:16	0°𐌶		direct	-2919 Dec 15 j 21:40	21°𐌶41'40	
evening set	-2924 Jan 03 j 12:31	5°𐌶41'24			-2918 Mar 29 j 18:47	0°𐌶	
			evening set	-2918 Mar 30 j 08:53	0°𐌶04'34		
conjunction	-2924 Jan 20 j 15:32	7°𐌶50'06	-1°05'51				
minimum elong	-2924 Jan 20 j 15:29	7°𐌶50'06	1°05'57	conjunction	-2918 Apr 17 j 10:06	2°𐌶27'14	-2°11'28
max. Earth dist.	-2924 Jan 20 j 07:16	7°𐌶47'30	10.40801 AU	minimum elong	-2918 Apr 17 j 10:09	2°𐌶27'15	2°11'28
morning rise	-2924 Feb 06 j 23:43	10°𐌶00'27		max. Earth dist.	-2918 Apr 17 j 21:07	2°𐌶30'53	9.89040 AU
retrograde	-2924 May 23 j 17:06	18°𐌶00'59		morning rise	-2918 May 05 j 13:05	4°𐌶50'25	
opposition	-2924 Aug 01 j 08:01	14°𐌶33'38	-1°39'22	retrograde	-2918 Aug 19 j 21:45	13°𐌶21'22	
min. Earth dist.	-2924 Aug 01 j 13:19	14°𐌶32'35	8.33624 AU	opposition	-2918 Oct 25 j 12:35	9°𐌶50'29	-2°34'52
direct	-2924 Oct 07 j 12:29	11°𐌶11'13		min. Earth dist.	-2918 Oct 25 j 03:40	9°𐌶52'21	7.90071 AU
evening set	-2923 Jan 15 j 23:34	18°𐌶52'01		direct	-2918 Dec 30 j 18:20	6°𐌶20'35	
			evening set	-2917 Apr 14 j 22:43	14°𐌶44'39		
conjunction	-2923 Feb 02 j 06:20	21°𐌶03'48	-1°32'55				
minimum elong	-2923 Feb 02 j 06:16	21°𐌶03'46	1°33'00	conjunction	-2917 May 03 j 02:14	17°𐌶07'27	-1°53'49
max. Earth dist.	-2923 Feb 02 j 00:40	21°𐌶01'59	10.26704 AU	minimum elong	-2917 May 03 j 02:18	17°𐌶07'28	1°53'47
morning rise	-2923 Feb 19 j 18:21	23°𐌶17'15		max. Earth dist.	-2917 May 03 j 14:52	17°𐌶11'37	9.91690 AU
	-2923 Apr 26 j 02:44	0°𐌶		morning rise	-2917 May 21 j 06:15	19°𐌶30'19	
retrograde	-2923 Jun 07 j 02:11	1°𐌶29'19		retrograde	-2917 Sep 03 j 13:49	27°𐌶54'05	
	-2923 Jul 19 j 16:16	30°𐌶𐌶		opposition	-2917 Nov 09 j 00:09	24°𐌶24'07	-2°07'58
opposition	-2923 Aug 15 j 04:41	28°𐌶00'32	-2°10'50	min. Earth dist.	-2917 Nov 08 j 14:20	24°𐌶26'10	7.94457 AU
min. Earth dist.	-2923 Aug 15 j 07:47	27°𐌶59'54	8.20080 AU	direct	-2916 Jan 14 j 15:58	20°𐌶53'45	
direct	-2923 Oct 20 j 21:47	24°𐌶36'42		evening set	-2916 Apr 29 j 09:45	29°𐌶15'51	
	-2922 Jan 09 j 18:20	0°𐌶			-2916 May 05 j 02:40	0°𐌶	
evening set	-2922 Jan 29 j 23:46	2°𐌶28'25					
			conjunction	-2916 May 17 j 14:25	1°𐌶37'52	-1°29'06	
conjunction	-2922 Feb 16 j 10:26	4°𐌶43'12	-1°55'35	minimum elong	-2916 May 17 j 14:29	1°𐌶37'53	1°29'02
minimum elong	-2922 Feb 16 j 10:23	4°𐌶43'11	1°55'40	max. Earth dist.	-2916 May 18 j 03:58	1°𐌶42'18	9.97849 AU
max. Earth dist.	-2922 Feb 16 j 08:30	4°𐌶42'34	10.13802 AU	morning rise	-2916 Jun 04 j 18:10	3°𐌶59'30	
morning rise	-2922 Mar 06 j 02:06	6°𐌶59'38		retrograde	-2916 Sep 16 j 21:47	12°𐌶13'19	
	-2922 Jun 01 j 14:58	15°𐌶		opposition	-2916 Nov 22 j 06:52	8°𐌶44'38	-1°33'25
retrograde	-2922 Jun 21 j 19:53	15°𐌶21'47		min. Earth dist.	-2916 Nov 21 j 20:20	8°𐌶46'49	8.02131 AU
	-2922 Jul 12 j 03:17	15°𐌶𐌶		direct	-2915 Jan 28 j 12:18	5°𐌶14'12	
opposition	-2922 Aug 29 j 08:20	11°𐌶51'47	-2°35'47	evening set	-2915 May 14 j 14:50	13°𐌶31'35	
min. Earth dist.	-2922 Aug 29 j 08:23	11°𐌶51'46	8.08170 AU		-2915 May 26 j 02:47	15°𐌶	
direct	-2922 Nov 03 j 15:28	8°𐌶26'30					
	-2921 Feb 01 j 18:54	15°𐌶		conjunction	-2915 Jun 01 j 19:06	15°𐌶51'54	-0°59'17
evening set	-2921 Feb 13 j 12:26	16°𐌶28'42		minimum elong	-2915 Jun 01 j 19:09	15°𐌶51'55	0°59'12
			max. Earth dist.	-2915 Jun 02 j 08:53	15°𐌶56'22	10.07048 AU	
conjunction	-2921 Mar 03 j 02:58	18°𐌶46'14	-2°12'03	morning rise	-2915 Jun 19 j 21:02	18°𐌶11'24	
minimum elong	-2921 Mar 03 j 02:56	18°𐌶46'13	2°12'07	retrograde	-2915 Sep 30 j 19:48	26°𐌶13'36	
max. Earth dist.	-2921 Mar 03 j 04:55	18°𐌶46'52	10.02935 AU	opposition	-2915 Dec 06 j 07:11	22°𐌶46'28	-0°54'01
morning rise	-2921 Mar 20 j 22:01	21°𐌶05'17		min. Earth dist.	-2915 Dec 05 j 20:20	22°𐌶48'42	8.12561 AU
retrograde	-2921 Jul 06 j 19:29	29°𐌶35'07		direct	-2914 Feb 12 j 04:22	19°𐌶16'23	
opposition	-2921 Sep 12 j 17:42	26°𐌶04'13	-2°51'59	evening set	-2914 May 29 j 11:07	27°𐌶26'53	
min. Earth dist.	-2921 Sep 12 j 14:33	26°𐌶04'52	7.98675 AU				
direct	-2921 Nov 17 j 17:50	22°𐌶37'31		conjunction	-2914 Jun 16 j 13:27	29°𐌶44'43	-0°26'37
	-2920 Feb 22 j 03:22	0°𐌶		minimum elong	-2914 Jun 16 j 13:28	29°𐌶44'44	0°26'32
evening set	-2920 Feb 28 j 12:05	0°𐌶48'58		max. Earth dist.	-2914 Jun 17 j 02:53	29°𐌶49'01	10.18669 AU
					-2914 Jun 18 j 13:13	0°𐌶	
conjunction	-2920 Mar 17 j 06:29	3°𐌶08'51	-2°20'45	morning rise	-2914 Jul 04 j 12:09	2°𐌶01'24	
minimum elong	-2920 Mar 17 j 06:28	3°𐌶08'50	2°20'48	retrograde	-2914 Oct 14 j 08:16	9°𐌶51'21	
max. Earth dist.	-2920 Mar 17 j 12:02	3°𐌶10'40	9.94853 AU	opposition	-2914 Dec 20 j 00:19	6°𐌶25'57	-0°12'37
morning rise	-2920 Apr 04 j 04:42	5°𐌶30'00		min. Earth dist.	-2914 Dec 19 j 13:47	6°𐌶28'05	8.25082 AU
retrograde	-2920 Jul 20 j 22:04	14°𐌶04'09		direct	-2913 Feb 26 j 13:06	2°𐌶56'32	
opposition	-2920 Sep 26 j 06:59	10°𐌶32'46	-2°57'38	asc. node	-2913 Apr 14 j 15:02	4°𐌶48'21	
min. Earth dist.	-2920 Sep 26 j 01:14	10°𐌶33'58	7.92244 AU	evening set	-2913 Jun 12 j 20:42	10°𐌶58'40	
direct	-2920 Dec 01 j 04:42	7°𐌶04'46					
evening set	-2919 Mar 14 j 20:02	15°𐌶23'21		conjunction	-2913 Jun 30 j 19:38	13°𐌶13'29	0°06'47
			minimum elong	-2913 Jun 30 j 19:39	13°𐌶13'29	0°06'53	

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Attention, astronomical year style is used: The year -2913 in astronomical counting style is the year 2914 BCE in historical counting style.

behind sun begin	-2913 Jun 30 j 12:54	13°II11'23		conjunction	-2907 Sep 12 j 05:05	26°Q08'22	2°19'19
behind sun end	-2913 Jul 01 j 02:23	13°II15'35		minimum elong	-2907 Sep 12 j 05:04	26°Q08'22	2°19'22
max. Earth dist.	-2913 Jul 01 j 08:09	13°II17'25	10.31987 AU	max. Earth dist.	-2907 Sep 12 j 02:06	26°Q07'30	11.07887 AU
morning rise	-2913 Jul 18 j 14:00	15°II26'52		morning rise	-2907 Sep 28 j 18:17	28°Q04'01	
retrograde	-2913 Oct 27 j 11:49	23°II04'44			-2907 Oct 16 j 04:11	0°M	
opposition	-2912 Jan 02 j 09:50	19°II41'09	0°28'09	retrograde	-2906 Jan 05 j 14:20	4°M56'05	
min. Earth dist.	-2912 Jan 02 j 00:48	19°II42'58	8.38948 AU	opposition	-2906 Mar 16 j 03:10	1°M40'11	2°53'21
direct	-2912 Mar 11 j 13:37	16°II12'42		min. Earth dist.	-2906 Mar 16 j 07:11	1°M39'26	9.11790 AU
evening set	-2912 Jun 25 j 18:58	24°II05'44			-2906 Apr 08 j 19:51	30°RQ	
				direct	-2906 May 26 j 17:48	28°Q19'33	
conjunction	-2912 Jul 13 j 13:19	26°II17'11	0°38'50		-2906 Jul 12 j 11:32	0°M	
minimum elong	-2912 Jul 13 j 13:17	26°II17'11	0°38'55	evening set	-2906 Sep 06 j 22:58	5°M24'50	
max. Earth dist.	-2912 Jul 13 j 23:38	26°II20'23	10.46236 AU				
morning rise	-2912 Jul 31 j 02:32	28°II27'04		conjunction	-2906 Sep 23 j 12:42	7°M19'58	2°23'44
	-2912 Aug 13 j 03:25	0°S		minimum elong	-2906 Sep 23 j 12:41	7°M19'58	2°23'46
retrograde	-2912 Nov 08 j 05:33	5°S53'38		max. Earth dist.	-2906 Sep 23 j 06:28	7°M18'09	11.14679 AU
opposition	-2911 Jan 14 j 11:45	2°S31'52	1°06'08	morning rise	-2906 Oct 09 j 23:26	9°M14'15	
min. Earth dist.	-2911 Jan 14 j 04:51	2°S33'14	8.53404 AU	retrograde	-2905 Jan 16 j 23:48	16°M04'17	
	-2911 Feb 19 j 17:27	30°RII		opposition	-2905 Mar 27 j 23:26	12°M48'37	2°55'15
direct	-2911 Mar 25 j 06:05	29°II04'36		min. Earth dist.	-2905 Mar 28 j 05:21	12°M47'32	9.17296 AU
	-2911 Apr 27 j 16:47	0°S		direct	-2905 Jun 07 j 16:13	9°M28'58	
evening set	-2911 Jul 09 j 05:23	6°S48'19		evening set	-2905 Sep 18 j 04:35	16°M29'42	
conjunction	-2911 Jul 26 j 18:22	8°S56'17	1°08'06	conjunction	-2905 Oct 04 j 16:06	18°M23'48	2°22'42
minimum elong	-2911 Jul 26 j 18:19	8°S56'16	1°08'12	minimum elong	-2905 Oct 04 j 16:07	18°M23'49	2°22'43
max. Earth dist.	-2911 Jul 27 j 01:36	8°S58'30	10.60679 AU	max. Earth dist.	-2905 Oct 04 j 08:02	18°M21'28	11.18791 AU
morning rise	-2911 Aug 13 j 02:11	11°S02'40		morning rise	-2905 Oct 21 j 01:14	20°M17'16	
retrograde	-2911 Nov 20 j 12:54	18°S19'13		retrograde	-2904 Jan 28 j 11:54	27°M06'59	
opposition	-2910 Jan 27 j 06:40	14°S59'08	1°39'42	opposition	-2904 Apr 07 j 18:36	23°M51'15	2°50'42
min. Earth dist.	-2910 Jan 27 j 01:44	15°S00'05	8.67730 AU	min. Earth dist.	-2904 Apr 08 j 02:04	23°M49'53	9.19983 AU
direct	-2910 Apr 07 j 15:51	11°S33'12		direct	-2904 Jun 18 j 10:21	20°M32'25	
evening set	-2910 Jul 22 j 04:00	19°S07'45		evening set	-2904 Sep 28 j 06:41	27°M29'57	
conjunction	-2910 Aug 08 j 11:27	21°S12'22	1°33'26	conjunction	-2904 Oct 14 j 16:55	29°M23'38	2°16'23
minimum elong	-2910 Aug 08 j 11:24	21°S12'21	1°33'30	minimum elong	-2904 Oct 14 j 16:57	29°M23'39	2°16'23
max. Earth dist.	-2910 Aug 08 j 15:43	21°S13'39	10.74632 AU	max. Earth dist.	-2904 Oct 14 j 07:15	29°M20'50	11.20035 AU
morning rise	-2910 Aug 25 j 13:53	23°S15'27			-2904 Oct 19 j 22:07	0°S	
	-2910 Nov 11 j 12:05	0°Q		morning rise	-2904 Oct 31 j 01:27	1°S16'55	
retrograde	-2910 Dec 02 j 14:58	0°Q23'29		retrograde	-2903 Feb 07 j 23:24	8°S08'02	
	-2910 Dec 23 j 23:33	30°RS		opposition	-2903 Apr 19 j 14:00	4°S51'55	2°39'55
opposition	-2909 Feb 08 j 19:03	27°S04'51	2°07'44	min. Earth dist.	-2903 Apr 19 j 23:21	4°S50'13	9.19760 AU
min. Earth dist.	-2909 Feb 08 j 15:36	27°S05'31	8.81260 AU	direct	-2903 Jun 30 j 00:10	1°S33'41	
direct	-2909 Apr 20 j 15:52	23°S40'21		evening set	-2903 Oct 09 j 07:19	8°S29'29	
	-2909 Jul 25 j 01:31	0°Q					
evening set	-2909 Aug 03 j 15:54	1°Q06'15		conjunction	-2903 Oct 25 j 17:04	10°S23'18	2°05'03
				minimum elong	-2903 Oct 25 j 17:06	10°S23'19	2°05'02
conjunction	-2909 Aug 20 j 18:06	3°Q07'49	1°54'01	max. Earth dist.	-2903 Oct 25 j 04:56	10°S19'46	11.18414 AU
minimum elong	-2909 Aug 20 j 18:03	3°Q07'48	1°54'05	morning rise	-2903 Nov 11 j 02:12	12°S17'00	
max. Earth dist.	-2909 Aug 20 j 20:13	3°Q08'27	10.87484 AU	retrograde	-2902 Feb 19 j 14:34	19°S11'11	
morning rise	-2909 Sep 06 j 15:24	5°Q07'56		opposition	-2902 May 01 j 10:34	15°S54'22	2°23'15
retrograde	-2909 Dec 14 j 10:53	12°Q09'00		min. Earth dist.	-2902 May 01 j 21:56	15°S52'17	9.16703 AU
opposition	-2908 Feb 21 j 01:47	8°Q51'35	2°29'33	direct	-2902 Jul 11 j 14:25	12°S36'25	
min. Earth dist.	-2908 Feb 21 j 00:17	8°Q51'52	8.93415 AU	evening set	-2902 Oct 20 j 08:02	19°S31'58	
direct	-2908 May 02 j 07:00	5°Q28'29					
evening set	-2908 Aug 14 j 18:11	12°Q46'31		conjunction	-2902 Nov 05 j 18:17	21°S26'28	1°49'00
				minimum elong	-2902 Nov 05 j 18:20	21°S26'29	1°48'58
conjunction	-2908 Aug 31 j 15:34	14°Q45'26	2°09'23	max. Earth dist.	-2902 Nov 05 j 04:43	21°S22'30	11.14040 AU
minimum elong	-2908 Aug 31 j 15:32	14°Q45'25	2°09'27	morning rise	-2902 Nov 22 j 04:56	23°S21'08	
max. Earth dist.	-2908 Aug 31 j 15:37	14°Q45'27	10.98709 AU		-2901 Feb 11 j 01:50	0°M	
	-2908 Sep 02 j 16:50	15°Q		retrograde	-2901 Mar 03 j 08:31	0°M19'58	
morning rise	-2908 Sep 17 j 08:18	16°Q43'04			-2901 Mar 23 j 22:28	30°RS	
retrograde	-2908 Dec 25 j 02:55	23°Q38'48		opposition	-2901 May 13 j 09:28	27°S02'07	2°01'06
opposition	-2907 Mar 04 j 04:13	20°Q22'18	2°44'48	min. Earth dist.	-2901 May 13 j 21:29	26°S59'56	9.10951 AU
min. Earth dist.	-2907 Mar 04 j 05:25	20°Q22'05	9.03721 AU	direct	-2901 Jul 23 j 04:28	23°S44'13	
direct	-2907 May 14 j 15:56	17°Q00'31			-2901 Oct 25 j 11:01	0°M	
evening set	-2907 Aug 26 j 11:59	24°Q11'37		evening set	-2901 Oct 31 j 10:43	0°M41'00	

Attention, astronomical year style is used: The year -2901 in astronomical counting style is the year 2902 BCE in historical counting style.

conjunction	-2901 Nov 16 j 22:21	2° ℳ 36'42	1°28'40
minimum elong	-2901 Nov 16 j 22:24	2° ℳ 36'43	1°28'37
max. Earth dist.	-2901 Nov 16 j 09:00	2° ℳ 32'46	11.07073 AU
morning rise	-2901 Dec 03 j 11:05	4° ℳ 32'49	
retrograde	-2900 Mar 14 j 10:08	11° ℳ 37'55	
opposition	-2900 May 24 j 11:51	8° ℳ 18'46	1°34'00
min. Earth dist.	-2900 May 24 j 23:23	8° ℳ 16'38	9.02717 AU
direct	-2900 Aug 02 j 21:29	5° ℳ 00'39	
evening set	-2900 Nov 10 j 17:25	12° ℳ 00'12	

conjunction	-2900 Nov 27 j 07:01	13° ℳ 57'34	1°04'35
minimum elong	-2900 Nov 27 j 07:04	13° ℳ 57'35	1°04'32
max. Earth dist.	-2900 Nov 26 j 17:51	13° ℳ 53'39	10.97766 AU
	-2900 Dec 06 j 01:11	15° ℳ	
morning rise	-2900 Dec 13 j 22:32	15° ℳ 55'38	
retrograde	-2899 Mar 26 j 18:50	23° ℳ 08'29	
opposition	-2899 Jun 05 j 18:53	19° ℳ 47'50	1°02'38
min. Earth dist.	-2899 Jun 06 j 06:04	19° ℳ 45'45	8.92311 AU
direct	-2899 Aug 14 j 15:03	16° ℳ 29'15	
evening set	-2899 Nov 22 j 05:59	23° ℳ 33'11	

conjunction	-2899 Dec 08 j 21:58	25° ℳ 32'38	0°37'27
minimum elong	-2899 Dec 08 j 21:59	25° ℳ 32'38	0°37'22
max. Earth dist.	-2899 Dec 08 j 08:28	25° ℳ 28'35	10.86464 AU
morning rise	-2899 Dec 25 j 16:57	27° ℳ 33'03	