

Planetary Phenomena of Saturn from -3400 through -2900 (UT), Astrodienst AG 14-Nov-2015 16:04, 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 18:21	14°♄49'58		minimum elong	-3394 Feb 06 j 01:53	21°♄13'13	1°40'45
opposition	-3400 May 31 j 17:33	11°♄29'29	1°14'08	max. Earth dist.	-3394 Feb 06 j 00:05	21°♄12'38	10.12468 AU
min. Earth dist.	-3400 Jun 01 j 06:43	11°♄27'02	8.90633 AU	morning rise	-3394 Feb 23 j 16:53	23°♄29'44	
direct	-3400 Aug 09 j 13:08	8°♄11'03			-3394 Apr 25 j 12:49	0°♄	
	-3400 Nov 14 j 20:19	15°♄		retrograde	-3394 Jun 11 j 11:57	1°♄52'33	
evening set	-3400 Nov 17 j 05:06	15°♄16'42			-3394 Jul 29 j 05:44	30°♄	
				opposition	-3394 Aug 19 j 03:28	28°♄22'04	-2°-20'-9
conjunction	-3400 Dec 03 j 21:01	17°♄16'30	0°47'03	min. Earth dist.	-3394 Aug 19 j 02:50	28°♄22'11	8.06592 AU
minimum elong	-3400 Dec 03 j 21:03	17°♄16'31	0°46'58	direct	-3394 Oct 24 j 11:24	24°♄56'35	
max. Earth dist.	-3400 Dec 03 j 05:51	17°♄11'56	10.84280 AU		-3393 Jan 09 j 21:56	0°♄	
morning rise	-3400 Dec 20 j 15:46	19°♄17'16		evening set	-3393 Feb 03 j 03:42	2°♄58'38	
retrograde	-3399 Apr 03 j 13:24	26°♄41'37					
opposition	-3399 Jun 13 j 08:07	23°♄19'31	0°39'49	conjunction	-3393 Feb 20 j 17:21	5°♄16'16	-2°-1'-56
min. Earth dist.	-3399 Jun 13 j 20:26	23°♄17'12	8.77428 AU	minimum elong	-3393 Feb 20 j 17:18	5°♄16'15	2°02'04
direct	-3399 Aug 21 j 11:51	20°♄00'23		max. Earth dist.	-3393 Feb 20 j 19:10	5°♄16'52	10.01186 AU
evening set	-3399 Nov 29 j 03:32	27°♄12'44		morning rise	-3393 Mar 10 j 11:55	7°♄35'30	
					-3393 May 22 j 00:56	15°♄	
conjunction	-3399 Dec 15 j 22:29	29°♄15'12	0°17'47	retrograde	-3393 Jun 26 j 12:46	16°♄06'44	
minimum elong	-3399 Dec 15 j 22:30	29°♄15'12	0°17'42		-3393 Aug 01 j 05:30	15°♄	
max. Earth dist.	-3399 Dec 15 j 07:39	29°♄10'40	10.70409 AU	opposition	-3393 Sep 02 j 14:08	12°♄35'17	-2°-42'-54
	-3399 Dec 22 j 00:56	0°♄		min. Earth dist.	-3393 Sep 02 j 10:37	12°♄36'01	7.96698 AU
morning rise	-3398 Jan 01 j 21:17	1°♄18'54		direct	-3393 Nov 07 j 13:41	9°♄08'24	
retrograde	-3398 Apr 16 j 16:53	8°♄54'28			-3392 Jan 30 j 13:10	15°♄	
opposition	-3398 Jun 26 j 06:06	5°♄30'34	0°02'37	evening set	-3392 Feb 18 j 02:57	17°♄20'03	
min. Earth dist.	-3398 Jun 26 j 17:25	5°♄28'25	8.62962 AU				
desc. node	-3398 Jul 22 j 02:08	3°♄38'54		conjunction	-3392 Mar 06 j 20:21	19°♄40'04	-2°-16'-13
direct	-3398 Sep 02 j 19:00	2°♄10'27		minimum elong	-3392 Mar 06 j 20:19	19°♄40'04	2°16'19
evening set	-3398 Dec 11 j 11:59	9°♄30'59		max. Earth dist.	-3392 Mar 07 j 01:57	19°♄41'56	9.92701 AU
				morning rise	-3392 Mar 24 j 18:09	22°♄01'30	
conjunction	-3398 Dec 28 j 10:26	11°♄36'25	0°-13'-9		-3392 Jun 14 j 08:02	0°♄	
minimum elong	-3398 Dec 28 j 10:25	11°♄36'24	0°13'16	retrograde	-3392 Jul 10 j 17:14	0°♄37'55	
behind sun begin	-3398 Dec 28 j 06:15	11°♄35'07			-3392 Aug 06 j 02:08	30°♄	
behind sun end	-3398 Dec 28 j 14:36	11°♄37'41		opposition	-3392 Sep 16 j 05:12	27°♄05'58	-2°-55'-49
max. Earth dist.	-3398 Dec 27 j 21:34	11°♄32'25	10.55575 AU	min. Earth dist.	-3392 Sep 15 j 23:03	27°♄07'15	7.89894 AU
morning rise	-3397 Jan 14 j 13:27	13°♄43'17		direct	-3392 Nov 21 j 00:40	23°♄37'49	
retrograde	-3397 Apr 30 j 06:57	21°♄30'56			-3391 Feb 17 j 02:57	0°♄	
opposition	-3397 Jul 09 j 11:49	18°♄05'12	0°-35'-59	evening set	-3391 Mar 04 j 11:04	1°♄57'02	
min. Earth dist.	-3397 Jul 09 j 21:15	18°♄03'22	8.47900 AU				
direct	-3397 Sep 15 j 10:18	14°♄43'54		conjunction	-3391 Mar 22 j 08:03	4°♄18'51	-2°-22'-1
evening set	-3397 Dec 24 j 08:20	22°♄13'54		minimum elong	-3391 Mar 22 j 08:03	4°♄18'51	2°22'06
				max. Earth dist.	-3391 Mar 22 j 17:29	4°♄22'00	9.87594 AU
conjunction	-3396 Jan 10 j 10:34	24°♄22'28	0°-44'-17	morning rise	-3391 Apr 09 j 08:34	6°♄41'46	
minimum elong	-3396 Jan 10 j 10:32	24°♄22'28	0°44'25	retrograde	-3391 Jul 25 j 21:38	15°♄19'27	
max. Earth dist.	-3396 Jan 10 j 00:59	24°♄19'27	10.40462 AU	opposition	-3391 Sep 30 j 22:19	11°♄47'29	-2°-57'-25
morning rise	-3396 Jan 27 j 17:43	26°♄32'39		min. Earth dist.	-3391 Sep 30 j 13:42	11°♄49'17	7.86655 AU
	-3396 Feb 26 j 11:09	0°♄		direct	-3391 Dec 05 j 19:19	8°♄18'18	
retrograde	-3396 May 13 j 07:39	4°♄32'40		evening set	-3390 Mar 20 j 00:57	16°♄42'19	
opposition	-3396 Jul 22 j 01:15	1°♄05'09	-1°-14'-11				
min. Earth dist.	-3396 Jul 22 j 07:44	1°♄03'52	8.32965 AU	conjunction	-3390 Apr 07 j 01:12	19°♄05'12	-2°-18'-36
	-3396 Aug 05 j 01:32	30°♄		minimum elong	-3390 Apr 07 j 01:14	19°♄05'13	2°18'40
direct	-3396 Sep 27 j 09:05	27°♄42'31		max. Earth dist.	-3390 Apr 07 j 14:02	19°♄09'29	9.86246 AU
	-3396 Nov 17 j 10:12	0°♄		morning rise	-3390 Apr 25 j 03:48	21°♄28'48	
evening set	-3395 Jan 05 j 17:33	5°♄23'00			-3390 Aug 02 j 00:41	0°♄	
				retrograde	-3390 Aug 09 j 22:04	0°♄03'31	
conjunction	-3395 Jan 22 j 23:38	7°♄34'44	-1°-14'-4		-3390 Aug 17 j 19:03	30°♄	
minimum elong	-3395 Jan 22 j 23:35	7°♄34'43	1°14'12	opposition	-3390 Oct 15 j 14:54	26°♄32'01	-2°-47'-19
max. Earth dist.	-3395 Jan 22 j 17:54	7°♄32'54	10.25826 AU	min. Earth dist.	-3390 Oct 15 j 04:08	26°♄34'17	7.87221 AU
morning rise	-3395 Feb 09 j 10:45	9°♄48'10		direct	-3390 Dec 20 j 17:38	23°♄02'07	
retrograde	-3395 May 27 j 17:30	18°♄00'13			-3389 Mar 24 j 05:46	0°♄	
opposition	-3395 Aug 04 j 22:42	14°♄31'05	-1°-49'-44	evening set	-3389 Apr 04 j 16:40	1°♄27'43	
min. Earth dist.	-3395 Aug 05 j 01:36	14°♄30'30	8.18931 AU				
direct	-3395 Oct 10 j 17:47	11°♄07'03		conjunction	-3389 Apr 22 j 19:31	3°♄50'49	-2°-6'-8
evening set	-3394 Jan 19 j 16:03	18°♄58'25		minimum elong	-3389 Apr 22 j 19:34	3°♄50'51	2°06'10
				max. Earth dist.	-3389 Apr 23 j 11:06	3°♄55'59	9.88760 AU
conjunction	-3394 Feb 06 j 01:56	21°♄13'14	-1°-40'-36	morning rise	-3389 May 10 j 23:15	6°♄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 16:45	14°♃42'02		retrograde	-3383 Nov 11 j 02:58	5°♄35'08	
opposition	-3389 Oct 30 j 04:43	11°♃11'30	-2°-26'-19	opposition	-3382 Jan 17 j 18:07	2°♄15'03	1°16'43
min. Earth dist.	-3389 Oct 29 j 16:04	11°♃14'09	7.91555 AU	min. Earth dist.	-3382 Jan 17 j 11:13	2°♄16'24	8.67754 AU
direct	-3388 Jan 04 j 16:47	7°♃41'14			-3382 Feb 18 j 11:39	30°♃	
evening set	-3388 Apr 19 j 06:07	16°♃05'06		direct	-3382 Mar 29 j 00:41	28°♃49'15	
					-3382 May 06 j 05:43	0°♄	
conjunction	-3388 May 07 j 10:27	18°♃27'30	-1°-45'-40	evening set	-3382 Jul 12 j 13:48	6°♄23'35	
minimum elong	-3388 May 07 j 10:31	18°♃27'31	1°45'39				
max. Earth dist.	-3388 May 08 j 03:59	18°♃33'15	9.94954 AU	conjunction	-3382 Jul 29 j 23:30	8°♄28'41	1°16'04
morning rise	-3388 May 25 j 14:07	20°♃49'38		minimum elong	-3382 Jul 29 j 23:27	8°♄28'40	1°16'11
retrograde	-3388 Sep 07 j 03:32	29°♃07'33		max. Earth dist.	-3382 Jul 30 j 05:34	8°♄30'30	10.74975 AU
opposition	-3388 Nov 12 j 13:35	25°♃38'23	-1°-56'-16	morning rise	-3382 Aug 16 j 03:54	10°♄32'12	
min. Earth dist.	-3388 Nov 11 j 23:51	25°♃41'15	7.99363 AU	retrograde	-3382 Nov 23 j 04:01	17°♄39'38	
direct	-3387 Jan 18 j 13:32	22°♃08'09		opposition	-3381 Jan 30 j 05:44	14°♄21'02	1°48'10
	-3387 Apr 30 j 23:35	0°♃		min. Earth dist.	-3381 Jan 30 j 01:29	14°♄21'51	8.81801 AU
evening set	-3387 May 04 j 13:47	0°♃27'18		direct	-3381 Apr 11 j 01:10	10°♄56'31	
				evening set	-3381 Jul 25 j 02:41	18°♄21'56	
conjunction	-3387 May 22 j 18:13	2°♃48'07	-1°-18'-54	conjunction	-3381 Aug 11 j 07:01	20°♄23'52	1°39'43
minimum elong	-3387 May 22 j 18:17	2°♃48'08	1°18'52	minimum elong	-3381 Aug 11 j 06:58	20°♄23'51	1°39'50
max. Earth dist.	-3387 May 23 j 12:27	2°♃54'02	10.04401 AU	max. Earth dist.	-3381 Aug 11 j 09:53	20°♄24'43	10.88243 AU
morning rise	-3387 Jun 09 j 20:33	5°♃08'12		morning rise	-3381 Aug 28 j 06:06	22°♄24'18	
retrograde	-3387 Sep 21 j 05:51	13°♃14'06		retrograde	-3381 Dec 04 j 23:49	29°♄24'16	
opposition	-3387 Nov 26 j 15:49	9°♃46'36	-1°-19'-47	opposition	-3380 Feb 11 j 11:36	26°♄06'55	2°14'06
min. Earth dist.	-3387 Nov 26 j 02:12	9°♃49'25	8.10130 AU	min. Earth dist.	-3380 Feb 11 j 11:01	26°♄07'01	8.94270 AU
direct	-3386 Feb 02 j 05:35	6°♃16'44		direct	-3380 Apr 22 j 16:12	22°♄43'41	
evening set	-3386 May 19 j 12:49	14°♃28'51		evening set	-3380 Aug 05 j 05:30	0°♄01'10	
	-3386 May 23 j 15:40	15°♃			-3380 Aug 05 j 01:26	0°♄	
conjunction	-3386 Jun 06 j 15:51	16°♃47'16	0°-48'-1	conjunction	-3380 Aug 22 j 04:40	2°♄00'22	1°58'40
minimum elong	-3386 Jun 06 j 15:53	16°♃47'17	0°47'57	minimum elong	-3380 Aug 22 j 04:37	2°♄00'21	1°58'46
max. Earth dist.	-3386 Jun 07 j 09:20	16°♃52'52	10.16462 AU	max. Earth dist.	-3380 Aug 22 j 03:13	1°♄59'57	10.99661 AU
morning rise	-3386 Jun 24 j 15:31	19°♃04'36		morning rise	-3380 Sep 07 j 23:07	3°♄58'13	
retrograde	-3386 Oct 04 j 21:14	26°♃57'29		retrograde	-3380 Dec 15 j 12:32	10°♄52'34	
opposition	-3386 Dec 10 j 10:31	23°♃31'53	0°-39'-43	opposition	-3379 Feb 22 j 12:39	7°♄36'10	2°33'59
min. Earth dist.	-3386 Dec 09 j 22:08	23°♃34'24	8.23152 AU	min. Earth dist.	-3379 Feb 22 j 15:26	7°♄35'39	9.04683 AU
direct	-3385 Feb 16 j 16:48	20°♃02'43		direct	-3379 May 05 j 00:01	4°♄14'08	
evening set	-3385 Jun 03 j 01:14	28°♃06'10		evening set	-3379 Aug 16 j 23:54	11°♄24'54	
	-3385 Jun 18 j 04:54	0°♃					
conjunction	-3385 Jun 21 j 01:17	0°♃21'35	0°-15'-14	conjunction	-3379 Sep 02 j 18:30	13°♄21'50	2°12'32
minimum elong	-3385 Jun 21 j 01:17	0°♃21'35	0°15'08	minimum elong	-3379 Sep 02 j 18:28	13°♄21'50	2°12'36
behind sun begin	-3385 Jun 20 j 23:07	0°♃20'54		max. Earth dist.	-3379 Sep 02 j 13:05	13°♄20'15	11.08864 AU
behind sun end	-3385 Jun 21 j 03:28	0°♃22'16			-3379 Sep 16 j 19:45	15°♄	
max. Earth dist.	-3385 Jun 21 j 16:39	0°♃26'25	10.30360 AU	morning rise	-3379 Sep 19 j 09:06	15°♄17'37	
morning rise	-3385 Jul 08 j 21:07	2°♃35'38		retrograde	-3379 Dec 26 j 23:34	22°♄08'11	
retrograde	-3385 Oct 18 j 00:33	10°♃15'32		opposition	-3378 Mar 06 j 09:58	18°♄52'23	2°47'31
asc. node	-3385 Dec 12 j 19:30	7°♃44'29		min. Earth dist.	-3378 Mar 06 j 15:05	18°♄51'26	9.12728 AU
opposition	-3385 Dec 23 j 21:06	6°♃51'54	0°01'11	direct	-3378 May 17 j 03:47	15°♄31'26	
min. Earth dist.	-3385 Dec 23 j 10:35	6°♃54'00	8.37641 AU	evening set	-3378 Aug 28 j 11:14	22°♄36'36	
direct	-3384 Mar 01 j 20:37	3°♃23'41					
evening set	-3384 Jun 16 j 01:42	11°♃17'33		conjunction	-3378 Sep 14 j 02:13	24°♄31'50	2°21'06
				minimum elong	-3378 Sep 14 j 02:12	24°♄31'50	2°21'10
conjunction	-3384 Jul 03 j 21:34	13°♃29'34	0°17'29	max. Earth dist.	-3378 Sep 13 j 18:31	24°♄29'36	11.15600 AU
minimum elong	-3384 Jul 03 j 21:33	13°♃29'34	0°17'37	morning rise	-3378 Sep 30 j 13:41	26°♄26'06	
max. Earth dist.	-3384 Jul 04 j 09:43	13°♃33'20	10.45283 AU		-3378 Nov 03 j 13:44	0°♃	
morning rise	-3384 Jul 21 j 12:44	15°♃40'05		retrograde	-3377 Jan 07 j 09:27	3°♃14'37	
retrograde	-3384 Oct 29 j 17:58	23°♃07'47			-3377 Mar 17 j 23:57	30°♃	
opposition	-3383 Jan 04 j 23:30	19°♃46'00	0°40'37	opposition	-3377 Mar 18 j 05:09	29°♄59'03	2°54'35
min. Earth dist.	-3383 Jan 04 j 14:41	19°♃47'45	8.52780 AU	min. Earth dist.	-3377 Mar 18 j 12:08	29°♄57'46	9.18186 AU
direct	-3383 Mar 15 j 15:27	16°♃18'57		direct	-3377 May 29 j 00:15	26°♄39'03	
evening set	-3383 Jun 29 j 13:42	24°♃02'55			-3377 Aug 04 j 13:38	0°♃	
				evening set	-3377 Sep 08 j 17:01	3°♃39'46	
conjunction	-3383 Jul 17 j 04:41	26°♃11'26	0°48'20	conjunction	-3377 Sep 25 j 05:16	5°♃33'52	2°24'20
minimum elong	-3383 Jul 17 j 04:39	26°♃11'25	0°48'28	minimum elong	-3377 Sep 25 j 05:16	5°♃33'52	2°24'23
max. Earth dist.	-3383 Jul 17 j 13:42	26°♃14'11	10.60419 AU	max. Earth dist.	-3377 Sep 24 j 19:39	5°♃31'04	11.19686 AU
morning rise	-3383 Aug 03 j 14:38	28°♃18'22		morning rise	-3377 Oct 11 j 14:35	7°♃27'13	
	-3383 Aug 18 j 02:58	0°♄					

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

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

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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 11:45	17°♄34'33		morning rise	-3346 Oct 28 j 02:35	24°♃46'33	
retrograde	-3352 Nov 29 j 06:17	24°♄37'49			-3346 Dec 21 j 19:19	0°♄	
opposition	-3351 Feb 05 j 14:51	21°♄19'27	2°03'39	retrograde	-3345 Feb 05 j 00:10	1°♄36'32	
min. Earth dist.	-3351 Feb 05 j 12:23	21°♄19'55	8.87804 AU		-3345 Mar 23 j 18:24	30°♃♂	
direct	-3351 Apr 17 j 16:56	17°♄55'08		opposition	-3345 Apr 16 j 16:23	28°♃20'27	2°43'25
evening set	-3351 Jul 31 j 10:23	25°♄16'11		min. Earth dist.	-3345 Apr 17 j 03:07	28°♃18'30	9.21568 AU
				direct	-3345 Jun 27 j 03:37	25°♃02'17	
conjunction	-3351 Aug 17 j 11:51	27°♄16'37	1°51'04		-3345 Sep 18 j 14:07	0°♄	
minimum elong	-3351 Aug 17 j 11:48	27°♄16'36	1°51'11	evening set	-3345 Oct 06 j 07:59	1°♄56'56	
max. Earth dist.	-3351 Aug 17 j 12:34	27°♄16'50	10.93798 AU				
morning rise	-3351 Sep 03 j 08:27	29°♄15'38		conjunction	-3345 Oct 22 j 17:16	3°♄50'27	2°08'34
	-3351 Sep 09 j 19:07	0°♄		minimum elong	-3345 Oct 22 j 17:19	3°♄50'28	2°08'33
retrograde	-3351 Dec 10 j 22:06	6°♄12'17		max. Earth dist.	-3345 Oct 22 j 03:42	3°♄46'30	11.19823 AU
opposition	-3350 Feb 17 j 17:29	2°♄55'00	2°26'11	morning rise	-3345 Nov 08 j 02:03	5°♄43'52	
min. Earth dist.	-3350 Feb 17 j 17:13	2°♄55'04	8.99447 AU	retrograde	-3344 Feb 16 j 15:07	12°♄37'32	
	-3350 Apr 05 j 18:53	30°♃♄		opposition	-3344 Apr 27 j 12:15	9°♄20'46	2°28'11
direct	-3350 Apr 30 j 03:36	29°♄32'00		min. Earth dist.	-3344 Apr 28 j 00:56	9°♄18'28	9.17726 AU
	-3350 May 24 j 08:47	0°♄		direct	-3344 Jul 07 j 16:09	6°♄02'56	
evening set	-3350 Aug 12 j 08:00	6°♄45'33		evening set	-3344 Oct 16 j 08:09	12°♄57'57	
conjunction	-3350 Aug 29 j 04:43	8°♄43'28	2°07'10	conjunction	-3344 Nov 01 j 17:58	14°♄52'17	1°53'37
minimum elong	-3350 Aug 29 j 04:41	8°♄43'27	2°07'15	minimum elong	-3344 Nov 01 j 18:01	14°♄52'18	1°53'34
max. Earth dist.	-3350 Aug 29 j 03:03	8°♄42'59	11.04398 AU	max. Earth dist.	-3344 Nov 01 j 02:59	14°♄47'54	11.14659 AU
morning rise	-3350 Sep 14 j 20:50	10°♄40'06		morning rise	-3344 Nov 18 j 04:16	16°♄46'48	
	-3350 Oct 27 j 03:26	15°♄		retrograde	-3343 Feb 27 j 09:31	23°♄45'46	
retrograde	-3350 Dec 22 j 10:25	17°♄31'58		opposition	-3343 May 09 j 10:53	20°♄28'01	2°07'17
	-3349 Feb 19 j 14:47	15°♃♄		min. Earth dist.	-3343 May 10 j 00:19	20°♄25'33	9.11170 AU
opposition	-3349 Mar 01 j 16:01	14°♄15'32	2°42'27	direct	-3343 Jul 19 j 05:24	17°♄10'15	
min. Earth dist.	-3349 Mar 01 j 18:40	14°♄15'03	9.09031 AU	evening set	-3343 Oct 27 j 10:56	24°♄07'10	
direct	-3349 May 12 j 07:58	10°♄53'47					
	-3349 Jul 26 j 18:59	15°♄		conjunction	-3343 Nov 12 j 22:14	26°♄02'51	1°34'10
evening set	-3349 Aug 23 j 21:51	18°♄01'00		minimum elong	-3343 Nov 12 j 22:17	26°♄02'51	1°34'07
				max. Earth dist.	-3343 Nov 12 j 07:17	25°♄58'26	11.06859 AU
conjunction	-3349 Sep 09 j 14:23	19°♄56'53	2°18'02	morning rise	-3343 Nov 29 j 10:43	27°♄58'58	
minimum elong	-3349 Sep 09 j 14:22	19°♄56'53	2°18'06		-3343 Dec 17 j 12:35	0°♃	
max. Earth dist.	-3349 Sep 09 j 09:25	19°♄55'27	11.12776 AU	retrograde	-3342 Mar 11 j 12:45	5°♃04'54	
morning rise	-3349 Sep 26 j 03:04	21°♄51'43		opposition	-3342 May 21 j 13:51	1°♃45'53	1°41'09
retrograde	-3348 Jan 02 j 19:03	28°♄40'32		min. Earth dist.	-3342 May 22 j 02:58	1°♃43'27	9.02055 AU
opposition	-3348 Mar 12 j 11:35	25°♄24'39	2°52'17		-3342 Jun 15 j 19:36	30°♃♄	
min. Earth dist.	-3348 Mar 12 j 17:17	25°♄23'36	9.16237 AU	direct	-3342 Jul 30 j 22:03	28°♄27'56	
direct	-3348 May 23 j 05:42	22°♄04'03			-3342 Sep 12 j 10:07	0°♃	
evening set	-3348 Sep 03 j 05:23	29°♄06'09		evening set	-3342 Nov 07 j 18:15	5°♃28'17	
	-3348 Sep 11 j 01:29	0°♃					
conjunction	-3348 Sep 19 j 18:37	1°♃00'34	2°23'34	conjunction	-3342 Nov 24 j 07:40	7°♃25'50	1°10'43
minimum elong	-3348 Sep 19 j 18:36	1°♃00'34	2°23'38	minimum elong	-3342 Nov 24 j 07:42	7°♃25'50	1°10'39
max. Earth dist.	-3348 Sep 19 j 10:21	0°♃58'10	11.18661 AU	max. Earth dist.	-3342 Nov 23 j 16:29	7°♃21'18	10.96611 AU
morning rise	-3348 Oct 06 j 04:55	2°♃54'10		morning rise	-3342 Dec 10 j 23:05	9°♃24'05	
retrograde	-3347 Jan 13 j 02:40	9°♃41'42		retrograde	-3341 Feb 06 j 06:32	15°♃	
opposition	-3347 Mar 24 j 05:16	6°♃26'04	2°55'40		-3341 Mar 23 j 23:26	16°♃38'34	
min. Earth dist.	-3347 Mar 24 j 12:50	6°♃24'40	9.20814 AU	opposition	-3341 May 09 j 23:01	15°♃♄	
direct	-3347 Jun 04 j 00:35	3°♃06'27		min. Earth dist.	-3341 Jun 02 j 22:12	13°♃18'05	1°10'24
evening set	-3347 Sep 14 j 08:24	10°♃04'44		min. Earth dist.	-3341 Jun 03 j 11:14	13°♃15'40	8.90633 AU
				direct	-3341 Aug 11 j 15:48	9°♃59'43	
					-3341 Nov 01 j 00:14	15°♃	
conjunction	-3347 Sep 30 j 19:26	11°♃58'17	2°23'45	evening set	-3341 Nov 19 j 08:23	17°♃05'15	
minimum elong	-3347 Sep 30 j 19:27	11°♃58'17	2°23'48	max. Earth dist.	-3341 Dec 05 j 08:37	19°♃00'20	10.84242 AU
max. Earth dist.	-3347 Sep 30 j 09:33	11°♃55'25	11.21848 AU				
morning rise	-3347 Oct 17 j 04:08	13°♃51'13		conjunction	-3341 Dec 06 j 00:23	19°♃05'05	0°43'53
retrograde	-3346 Jan 24 j 13:02	20°♃39'08		minimum elong	-3341 Dec 06 j 00:25	19°♃05'06	0°43'48
opposition	-3346 Apr 04 j 22:21	17°♃23'26	2°52'39	morning rise	-3341 Dec 22 j 19:30	21°♃05'56	
min. Earth dist.	-3346 Apr 05 j 07:19	17°♃21'48	9.22607 AU	retrograde	-3340 Apr 04 j 17:15	28°♃30'29	
direct	-3346 Jun 15 j 15:40	14°♃04'39		opposition	-3340 Jun 14 j 12:48	25°♃08'23	0°35'49
evening set	-3346 Sep 25 j 08:42	21°♃00'25		min. Earth dist.	-3340 Jun 15 j 01:41	25°♃05'57	8.77333 AU
				direct	-3340 Aug 22 j 16:00	21°♃49'16	
				evening set	-3340 Nov 30 j 07:01	29°♃01'40	
conjunction	-3346 Oct 11 j 18:28	22°♃53'41	2°18'42		-3340 Dec 08 j 08:08	0°♃	
minimum elong	-3346 Oct 11 j 18:29	22°♃53'41	2°18'44	max. Earth dist.	-3340 Dec 16 j 11:08	0°♃59'37	10.70261 AU
max. Earth dist.	-3346 Oct 11 j 07:14	22°♃50'25	11.22239 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 02:10	1°♂04'13	0°14'29	direct	-3334 Nov 08 j 19:38	11°♁03'45	
minimum elong	-3340 Dec 17 j 02:11	1°♂04'13	0°14'24		-3333 Jan 14 j 21:37	15°♁	
behind sun begin	-3340 Dec 16 j 22:50	1°♂03'13		evening set	-3333 Feb 19 j 10:06	19°♁16'00	
behind sun end	-3340 Dec 17 j 05:31	1°♂05'14					
morning rise	-3339 Jan 03 j 01:17	3°♂08'01		conjunction	-3333 Mar 09 j 03:45	21°♁36'08	-2°-17'-5
retrograde	-3339 Apr 17 j 21:48	10°♂43'53		minimum elong	-3333 Mar 09 j 03:43	21°♁36'08	2°17'11
desc. node	-3339 Jun 12 j 20:13	8°♂25'42		max. Earth dist.	-3333 Mar 09 j 09:08	21°♁37'55	9.92270 AU
opposition	-3339 Jun 27 j 10:46	7°♂20'00	0°-1'-28	morning rise	-3333 Mar 27 j 01:47	23°♁57'42	
min. Earth dist.	-3339 Jun 27 j 22:32	7°♂17'46	8.62751 AU		-3333 May 19 j 10:15	0°♁	
direct	-3339 Sep 03 j 23:28	3°♂59'55		retrograde	-3333 Jul 13 j 00:19	2°♁34'23	
evening set	-3339 Dec 12 j 15:49	11°♂20'39			-3333 Sep 06 j 19:38	30°♁	
				opposition	-3333 Sep 18 j 11:41	29°♁02'26	-2°-56'-21
conjunction	-3339 Dec 29 j 14:33	13°♂26'10	0°-16'-26	min. Earth dist.	-3333 Sep 18 j 05:52	29°♁03'39	7.89512 AU
minimum elong	-3339 Dec 29 j 14:32	13°♂26'10	0°16'34	direct	-3333 Nov 23 j 08:31	25°♁34'13	
max. Earth dist.	-3339 Dec 29 j 02:14	13°♂22'21	10.55300 AU		-3332 Feb 02 j 20:53	0°♁	
morning rise	-3338 Jan 15 j 17:43	15°♂33'09		evening set	-3332 Mar 05 j 18:52	3°♁53'57	
retrograde	-3338 May 01 j 12:28	23°♂21'14					
opposition	-3338 Jul 10 j 16:35	19°♂55'30	0°-40'00	conjunction	-3332 Mar 23 j 16:10	6°♁15'54	-2°-21'-59
min. Earth dist.	-3338 Jul 11 j 01:46	19°♂53'44	8.47570 AU	minimum elong	-3332 Mar 23 j 16:10	6°♁15'54	2°22'04
direct	-3338 Sep 16 j 14:10	16°♂34'15		max. Earth dist.	-3332 Mar 24 j 01:49	6°♁19'06	9.87263 AU
evening set	-3338 Dec 25 j 12:42	24°♂04'36		morning rise	-3332 Apr 10 j 16:50	8°♁38'54	
				retrograde	-3332 Jul 27 j 03:34	17°♁16'39	
conjunction	-3337 Jan 11 j 15:11	26°♂13'17	0°-47'-26	opposition	-3332 Oct 02 j 04:50	13°♁44'41	-2°-56'-49
minimum elong	-3337 Jan 11 j 15:09	26°♂13'16	0°47'34	min. Earth dist.	-3332 Oct 01 j 20:06	13°♁46'31	7.86385 AU
max. Earth dist.	-3337 Jan 11 j 05:58	26°♂10'22	10.40074 AU	direct	-3332 Dec 07 j 02:50	10°♁15'26	
morning rise	-3337 Jan 28 j 22:27	28°♂23'34		evening set	-3331 Mar 21 j 09:05	18°♁39'49	
	-3337 Feb 11 j 05:14	0°♁					
retrograde	-3337 May 15 j 13:14	6°♁24'07		conjunction	-3331 Apr 08 j 09:39	21°♁02'49	-2°-17'-40
opposition	-3337 Jul 24 j 06:22	2°♁56'36	-1°-17'-55	minimum elong	-3331 Apr 08 j 09:41	21°♁02'49	2°17'43
min. Earth dist.	-3337 Jul 24 j 12:21	2°♁55'25	8.32539 AU	max. Earth dist.	-3331 Apr 08 j 23:04	21°♁07'17	9.86043 AU
	-3337 Sep 07 j 14:19	30°♁		morning rise	-3331 Apr 26 j 12:18	23°♁26'27	
direct	-3337 Sep 29 j 13:46	29°♂34'00			-3331 Jun 24 j 18:53	0°♁	
	-3337 Oct 21 j 06:15	0°♁		retrograde	-3331 Aug 11 j 04:18	2°♁01'03	
evening set	-3336 Jan 07 j 22:39	7°♁14'56			-3331 Sep 28 j 08:12	30°♁	
				opposition	-3331 Oct 16 j 21:31	28°♁29'33	-2°-45'-35
conjunction	-3336 Jan 25 j 04:54	9°♁26'49	-1°-16'-53	min. Earth dist.	-3331 Oct 16 j 10:14	28°♁31'55	7.87086 AU
minimum elong	-3336 Jan 25 j 04:51	9°♁26'48	1°17'02	direct	-3331 Dec 22 j 00:14	24°♁59'34	
max. Earth dist.	-3336 Jan 24 j 22:46	9°♁24'51	10.25360 AU		-3330 Mar 09 j 05:58	0°♁	
morning rise	-3336 Feb 11 j 16:14	11°♁40'23		evening set	-3330 Apr 06 j 00:52	3°♁25'20	
retrograde	-3336 May 29 j 00:27	19°♁52'58					
opposition	-3336 Aug 06 j 04:10	16°♁23'50	-1°-52'-58	conjunction	-3330 Apr 24 j 03:59	5°♁48'31	-2°-4'-21
min. Earth dist.	-3336 Aug 06 j 07:02	16°♁23'16	8.18444 AU	minimum elong	-3330 Apr 24 j 04:02	5°♁48'32	2°04'22
direct	-3336 Oct 11 j 21:46	12°♁59'48		max. Earth dist.	-3330 Apr 24 j 20:17	5°♁53'56	9.88703 AU
evening set	-3335 Jan 20 j 21:58	20°♁51'45		morning rise	-3330 May 12 j 07:43	8°♁11'52	
				retrograde	-3330 Aug 25 j 23:55	16°♁39'27	
conjunction	-3335 Feb 07 j 07:56	23°♁06'42	-1°-42'-56	opposition	-3330 Oct 31 j 11:19	13°♁08'54	-2°-23'-35
minimum elong	-3335 Feb 07 j 07:53	23°♁06'41	1°43'04	min. Earth dist.	-3330 Oct 30 j 22:20	13°♁11'37	7.91564 AU
max. Earth dist.	-3335 Feb 07 j 05:06	23°♁05'46	10.11963 AU	direct	-3329 Jan 05 j 22:50	9°♁38'33	
morning rise	-3335 Feb 24 j 23:09	25°♁23'21		evening set	-3329 Apr 21 j 14:23	18°♁02'25	
	-3335 Apr 05 j 13:07	0°♁					
retrograde	-3335 Jun 12 j 19:42	3°♁46'39		conjunction	-3329 May 09 j 18:52	20°♁24'51	-1°-43'-9
opposition	-3335 Aug 20 j 09:17	0°♁16'12	-2°-22'-40	minimum elong	-3329 May 09 j 18:56	20°♁24'52	1°43'08
min. Earth dist.	-3335 Aug 20 j 09:12	0°♁16'13	8.06087 AU	max. Earth dist.	-3329 May 10 j 12:45	20°♁30'44	9.95040 AU
	-3335 Aug 23 j 16:51	30°♁		morning rise	-3329 May 27 j 22:29	22°♁46'59	
direct	-3335 Oct 25 j 15:41	26°♁50'40			-3329 Aug 06 j 09:34	0°♁	
	-3335 Dec 24 j 08:09	0°♁		retrograde	-3329 Sep 09 j 11:22	1°♁04'25	
evening set	-3334 Feb 04 j 10:17	4°♁53'21			-3329 Oct 13 j 18:00	30°♁	
				opposition	-3329 Nov 14 j 20:02	27°♁35'15	-1°-52'-46
conjunction	-3334 Feb 22 j 00:04	7°♁11'06	-2°-3'-36	min. Earth dist.	-3329 Nov 14 j 06:35	27°♁38'03	7.99510 AU
minimum elong	-3334 Feb 22 j 00:01	7°♁11'05	2°03'44	direct	-3328 Jan 20 j 19:52	24°♁04'55	
max. Earth dist.	-3334 Feb 22 j 01:06	7°♁11'26	10.00693 AU		-3328 Apr 16 j 09:49	0°♁	
morning rise	-3334 Mar 11 j 18:54	9°♁30'29		evening set	-3328 May 05 j 21:54	2°♁23'59	
	-3334 Apr 28 j 17:32	15°♁					
retrograde	-3334 Jun 27 j 20:31	18°♁02'07		conjunction	-3328 May 24 j 02:19	4°♁44'45	-1°-15'-51
	-3334 Aug 28 j 21:50	15°♁		minimum elong	-3328 May 24 j 02:22	4°♁44'46	1°15'49
opposition	-3334 Sep 03 j 20:22	14°♁30'42	-2°-44'-30	max. Earth dist.	-3328 May 24 j 20:18	4°♁50'35	10.04618 AU
min. Earth dist.	-3334 Sep 03 j 17:32	14°♁31'17	7.96232 AU	morning rise	-3328 Jun 11 j 04:33	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 03:40	15°♄		morning rise	-3322 Aug 29 j 10:22	24°♄14'48	
retrograde	-3328 Sep 22 j 12:45	15°♄10'06			-3322 Oct 28 j 19:19	0°♄	
	-3328 Oct 05 j 20:37	15°♄		retrograde	-3322 Dec 06 j 02:48	1°♄14'23	
opposition	-3328 Nov 27 j 22:13	11°♄42'39	-1°-15'-44		-3321 Jan 14 j 09:01	30°♄	
min. Earth dist.	-3328 Nov 27 j 09:13	11°♄45'20	8.10401 AU	opposition	-3321 Feb 12 j 16:30	27°♄57'08	2°16'37
direct	-3327 Feb 03 j 13:21	8°♄12'42		min. Earth dist.	-3321 Feb 12 j 16:02	27°♄57'13	8.95069 AU
	-3327 May 09 j 09:48	15°♄		direct	-3321 Apr 24 j 21:13	24°♄34'00	
evening set	-3327 May 20 j 20:27	16°♄24'36			-3321 Jul 21 j 21:04	0°♄	
				evening set	-3321 Aug 07 j 10:00	1°♄51'01	
conjunction	-3327 Jun 07 j 23:17	18°♄42'55	0°-44'-38				
minimum elong	-3327 Jun 07 j 23:19	18°♄42'56	0°44'34	conjunction	-3321 Aug 24 j 08:41	3°♄50'00	2°00'27
max. Earth dist.	-3327 Jun 08 j 16:04	18°♄48'18	10.16793 AU	minimum elong	-3321 Aug 24 j 08:38	3°♄50'00	2°00'32
morning rise	-3327 Jun 25 j 22:51	21°♄00'09		max. Earth dist.	-3321 Aug 24 j 07:00	3°♄49'31	11.00500 AU
retrograde	-3327 Oct 06 j 02:13	28°♄52'29		morning rise	-3321 Sep 10 j 02:52	5°♄47'41	
opposition	-3327 Dec 11 j 16:40	25°♄26'56	0°-35'-24	retrograde	-3321 Dec 17 j 16:20	12°♄41'41	
min. Earth dist.	-3327 Dec 11 j 04:45	25°♄29'21	8.23532 AU	opposition	-3320 Feb 24 j 17:13	9°♄25'22	2°35'46
direct	-3326 Feb 18 j 00:35	21°♄57'42		min. Earth dist.	-3320 Feb 24 j 19:20	9°♄24'58	9.05557 AU
evening set	-3326 Jun 04 j 08:24	0°♄00'53		direct	-3320 May 06 j 06:42	6°♄03'28	
	-3326 Jun 04 j 05:33	0°♄		evening set	-3320 Aug 18 j 03:41	13°♄13'40	
					-3320 Sep 02 j 10:22	15°♄	
conjunction	-3326 Jun 22 j 08:11	2°♄16'09	0°-11'-44				
minimum elong	-3326 Jun 22 j 08:11	2°♄16'09	0°11'38	conjunction	-3320 Sep 03 j 22:01	15°♄10'26	2°13'42
behind sun begin	-3326 Jun 22 j 03:05	2°♄14'33		minimum elong	-3320 Sep 03 j 21:59	15°♄10'25	2°13'46
behind sun end	-3326 Jun 22 j 13:18	2°♄17'45		max. Earth dist.	-3320 Sep 03 j 17:23	15°♄09'04	11.09750 AU
max. Earth dist.	-3326 Jun 22 j 22:42	2°♄20'43	10.30787 AU	morning rise	-3320 Sep 20 j 12:17	17°♄06'02	
morning rise	-3326 Jul 10 j 03:53	4°♄30'04		retrograde	-3320 Dec 28 j 03:25	23°♄56'16	
retrograde	-3326 Oct 19 j 05:33	12°♄09'27		opposition	-3319 Mar 07 j 14:11	20°♄40'32	2°48'32
asc. node	-3326 Nov 03 j 17:31	11°♄56'17		min. Earth dist.	-3319 Mar 07 j 18:33	20°♄39'44	9.13616 AU
opposition	-3326 Dec 25 j 02:52	8°♄45'51	0°05'31	direct	-3319 May 18 j 07:28	17°♄19'46	
min. Earth dist.	-3326 Dec 24 j 16:12	8°♄47'59	8.38107 AU	evening set	-3319 Aug 29 j 14:26	24°♄24'21	
direct	-3325 Mar 04 j 03:38	5°♄17'38					
evening set	-3325 Jun 18 j 08:21	13°♄11'11		conjunction	-3319 Sep 15 j 05:14	26°♄19'26	2°21'39
				minimum elong	-3319 Sep 15 j 05:13	26°♄19'26	2°21'43
conjunction	-3325 Jul 06 j 03:58	15°♄23'04	0°20'55	max. Earth dist.	-3319 Sep 14 j 22:19	26°♄17'25	11.16475 AU
minimum elong	-3325 Jul 06 j 03:57	15°♄23'03	0°21'03	morning rise	-3319 Oct 01 j 16:24	28°♄13'33	
max. Earth dist.	-3325 Jul 06 j 15:55	15°♄26'46	10.45786 AU		-3319 Oct 17 j 17:54	0°♄	
morning rise	-3325 Jul 23 j 18:51	17°♄33'25		retrograde	-3318 Jan 08 j 12:40	5°♄01'45	
retrograde	-3325 Oct 31 j 23:11	25°♄00'40		opposition	-3318 Mar 19 j 09:04	1°♄46'18	2°54'50
opposition	-3324 Jan 07 j 05:03	21°♄38'56	0°44'44	min. Earth dist.	-3318 Mar 19 j 16:13	1°♄44'59	9.19042 AU
min. Earth dist.	-3324 Jan 06 j 19:36	21°♄40'48	8.53309 AU		-3318 Apr 13 j 20:53	30°♄	
direct	-3324 Mar 16 j 21:50	18°♄11'56		direct	-3318 May 30 j 03:56	28°♄26'27	
evening set	-3324 Jun 30 j 19:46	25°♄55'33			-3318 Jul 14 j 06:32	0°♄	
				evening set	-3318 Sep 09 j 19:50	5°♄26'39	
conjunction	-3324 Jul 18 j 10:28	28°♄03'54	0°51'32				
minimum elong	-3324 Jul 18 j 10:26	28°♄03'53	0°51'40	conjunction	-3318 Sep 26 j 07:48	7°♄20'36	2°24'14
max. Earth dist.	-3324 Jul 18 j 20:14	28°♄06'53	10.60981 AU	minimum elong	-3318 Sep 26 j 07:48	7°♄20'36	2°24'18
	-3324 Aug 03 j 08:21	0°♄		max. Earth dist.	-3318 Sep 25 j 21:48	7°♄17'42	11.20511 AU
morning rise	-3324 Aug 04 j 19:56	0°♄10'40		morning rise	-3318 Oct 12 j 17:02	9°♄13'49	
retrograde	-3324 Nov 12 j 07:50	7°♄27'05		retrograde	-3317 Jan 19 j 21:38	16°♄01'40	
opposition	-3323 Jan 18 j 23:30	4°♄07'04	1°20'26	opposition	-3317 Mar 31 j 02:52	12°♄46'08	2°54'42
min. Earth dist.	-3323 Jan 18 j 16:16	4°♄08'29	8.68349 AU	min. Earth dist.	-3317 Mar 31 j 12:49	12°♄44'19	9.21709 AU
direct	-3323 Mar 30 j 06:58	0°♄41'21		direct	-3317 Jun 10 j 20:19	9°♄27'00	
evening set	-3323 Jul 13 j 19:21	8°♄15'20		evening set	-3317 Sep 20 j 21:32	16°♄24'06	
conjunction	-3323 Jul 31 j 04:42	10°♄20'14	1°18'53	conjunction	-3317 Oct 07 j 07:40	18°♄17'30	2°21'32
minimum elong	-3323 Jul 31 j 04:39	10°♄20'14	1°19'00	minimum elong	-3317 Oct 07 j 07:41	18°♄17'30	2°21'35
max. Earth dist.	-3323 Jul 31 j 11:33	10°♄22'18	10.75611 AU	max. Earth dist.	-3317 Oct 06 j 19:00	18°♄13'49	11.21775 AU
morning rise	-3323 Aug 17 j 08:37	12°♄23'34		morning rise	-3317 Oct 23 j 16:06	20°♄10'26	
retrograde	-3323 Nov 24 j 09:31	19°♄30'41		retrograde	-3316 Jan 31 j 06:14	26°♄59'36	
opposition	-3322 Jan 31 j 10:54	16°♄12'12	1°51'20	opposition	-3316 Apr 10 j 20:28	23°♄43'36	2°48'15
min. Earth dist.	-3322 Jan 31 j 06:57	16°♄12'57	8.82489 AU	min. Earth dist.	-3316 Apr 11 j 08:05	23°♄41'29	9.21558 AU
direct	-3322 Apr 12 j 05:40	12°♄47'47		direct	-3316 Jun 21 j 10:42	20°♄24'56	
evening set	-3322 Jul 26 j 07:47	20°♄12'47		evening set	-3316 Sep 30 j 21:07	27°♄20'20	
conjunction	-3322 Aug 12 j 11:38	22°♄14'32	1°42'03	conjunction	-3316 Oct 17 j 06:37	29°♄13'46	2°13'40
minimum elong	-3322 Aug 12 j 11:35	22°♄14'31	1°42'10	minimum elong	-3316 Oct 17 j 06:38	29°♄13'46	2°13'40
max. Earth dist.	-3322 Aug 12 j 14:25	22°♄15'22	10.88981 AU	max. Earth dist.	-3316 Oct 16 j 16:58	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 21:53	0°♁		minimum elong	-3310 Dec 24 j 09:09	8°♁08'16	0°02'42
morning rise	-3316 Nov 02 j 15:05	1°♁06'59		behind sun begin	-3310 Dec 24 j 02:06	8°♁06'07	
retrograde	-3315 Feb 10 j 20:31	7°♁59'07		behind sun end	-3310 Dec 24 j 16:12	8°♁10'25	
opposition	-3315 Apr 22 j 15:17	4°♁42'22	2°35'42	max. Earth dist.	-3310 Dec 23 j 20:30	8°♁04'22	10.61022 AU
min. Earth dist.	-3315 Apr 23 j 03:27	4°♁40'08	9.18590 AU	morning rise	-3309 Jan 10 j 10:27	10°♁13'53	
direct	-3315 Jul 03 j 00:38	1°♁24'00		retrograde	-3309 Apr 25 j 19:38	17°♁56'34	
evening set	-3315 Oct 11 j 20:37	8°♁19'04		opposition	-3309 Jul 05 j 03:44	14°♁31'17	0°-22'-45
				min. Earth dist.	-3309 Jul 05 j 12:49	14°♁29'32	8.53548 AU
conjunction	-3315 Oct 28 j 06:17	10°♁13'06	2°00'50	direct	-3309 Sep 11 j 07:26	11°♁10'15	
minimum elong	-3315 Oct 28 j 06:20	10°♁13'07	2°00'48	evening set	-3309 Dec 20 j 03:27	18°♁36'20	
max. Earth dist.	-3315 Oct 27 j 15:55	10°♁08'54	11.15932 AU				
morning rise	-3315 Nov 13 j 15:42	12°♁07'11		conjunction	-3308 Jan 06 j 04:05	20°♁43'37	0°-33'-40
retrograde	-3314 Feb 22 j 13:24	19°♁03'54		minimum elong	-3308 Jan 06 j 04:04	20°♁43'37	0°33'48
opposition	-3314 May 04 j 12:36	15°♁46'09	2°17'19	max. Earth dist.	-3308 Jan 05 j 17:19	20°♁40'15	10.46231 AU
min. Earth dist.	-3314 May 05 j 01:44	15°♁43'45	9.12909 AU	morning rise	-3308 Jan 23 j 09:37	22°♁52'29	
direct	-3314 Jul 14 j 11:45	12°♁27'53			-3308 Apr 07 j 21:47	0°♁	
evening set	-3314 Oct 22 j 22:00	19°♁24'10		retrograde	-3308 May 08 j 15:24	0°♁47'30	
					-3308 Jun 08 j 16:06	30°♁	
conjunction	-3314 Nov 08 j 08:34	21°♁19'19	1°43'22	opposition	-3308 Jul 17 j 13:57	27°♁20'36	-1°-1'-11
minimum elong	-3314 Nov 08 j 08:37	21°♁19'19	1°43'19	min. Earth dist.	-3308 Jul 17 j 21:10	27°♁19'11	8.38765 AU
max. Earth dist.	-3314 Nov 07 j 16:47	21°♁14'40	11.09023 AU	direct	-3308 Sep 23 j 03:13	23°♁58'28	
morning rise	-3314 Nov 24 j 20:01	23°♁14'48			-3308 Dec 19 j 08:37	0°♁	
	-3313 Feb 15 j 08:23	0°♁		evening set	-3307 Jan 01 j 07:25	1°♁34'44	
retrograde	-3313 Mar 06 j 12:15	0°♁17'47					
	-3313 Mar 25 j 20:08	30°♁		conjunction	-3307 Jan 18 j 11:50	3°♁45'12	-1°-4'-1
opposition	-3313 May 16 j 13:39	26°♁58'48	1°53'28	minimum elong	-3307 Jan 18 j 11:47	3°♁45'11	1°04'10
min. Earth dist.	-3313 May 17 j 03:40	26°♁56'13	9.04715 AU	max. Earth dist.	-3307 Jan 18 j 04:33	3°♁42'52	10.31606 AU
direct	-3313 Jul 26 j 02:44	23°♁40'22		morning rise	-3307 Feb 04 j 21:26	5°♁57'20	
	-3313 Oct 28 j 09:47	0°♁		retrograde	-3307 May 22 j 21:50	14°♁04'40	
evening set	-3313 Nov 03 j 02:58	0°♁39'26		opposition	-3307 Jul 31 j 08:27	10°♁36'17	-1°-37'-48
				min. Earth dist.	-3307 Jul 31 j 12:41	10°♁35'26	8.24569 AU
conjunction	-3313 Nov 19 j 15:19	2°♁36'14	1°21'39	direct	-3307 Oct 06 j 08:06	7°♁12'57	
minimum elong	-3313 Nov 19 j 15:22	2°♁36'14	1°21'35	evening set	-3306 Jan 15 j 00:41	15°♁00'02	
max. Earth dist.	-3313 Nov 18 j 23:04	2°♁31'24	10.99730 AU				
morning rise	-3313 Dec 06 j 05:35	4°♁33'38		conjunction	-3306 Feb 01 j 09:00	17°♁13'37	-1°-31'-49
retrograde	-3312 Mar 17 j 17:47	11°♁44'28		minimum elong	-3306 Feb 01 j 08:57	17°♁13'36	1°31'57
opposition	-3312 May 27 j 19:23	8°♁24'04	1°24'41	max. Earth dist.	-3306 Feb 01 j 06:04	17°♁12'40	10.17936 AU
min. Earth dist.	-3312 May 28 j 09:20	8°♁21'29	8.94270 AU	morning rise	-3306 Feb 18 j 22:27	19°♁28'54	
direct	-3312 Aug 05 j 20:09	5°♁05'17		retrograde	-3306 Jun 06 j 13:58	27°♁47'40	
evening set	-3312 Nov 13 j 13:40	12°♁08'45		opposition	-3306 Aug 14 j 10:40	24°♁18'00	-2°-10'-10
				min. Earth dist.	-3306 Aug 14 j 11:17	24°♁17'52	8.11755 AU
conjunction	-3312 Nov 30 j 04:33	14°♁07'39	0°56'14	direct	-3306 Oct 19 j 22:04	20°♁53'25	
minimum elong	-3312 Nov 30 j 04:35	14°♁07'39	0°56'09	evening set	-3305 Jan 29 j 07:37	28°♁51'22	
max. Earth dist.	-3312 Nov 29 j 13:32	14°♁03'08	10.88340 AU		-3305 Feb 07 j 04:02	0°♁	
	-3312 Dec 07 j 10:56	15°♁					
morning rise	-3312 Dec 16 j 22:00	16°♁07'25		conjunction	-3305 Feb 15 j 19:48	1°♁07'52	-1°-55'-6
retrograde	-3311 Mar 30 j 07:58	23°♁27'38		minimum elong	-3305 Feb 15 j 19:44	1°♁07'51	1°55'14
opposition	-3311 Jun 09 j 06:53	20°♁05'40	0°51'41	max. Earth dist.	-3305 Feb 15 j 21:20	1°♁08'22	10.06027 AU
min. Earth dist.	-3311 Jun 09 j 19:21	20°♁03'19	8.81927 AU	morning rise	-3305 Mar 05 j 12:52	3°♁26'00	
direct	-3311 Aug 17 j 18:23	16°♁46'20		retrograde	-3305 Jun 21 j 12:58	11°♁54'13	
evening set	-3311 Nov 25 j 08:05	23°♁55'48		opposition	-3305 Aug 28 j 19:23	8°♁23'34	-2°-35'-45
				min. Earth dist.	-3305 Aug 28 j 16:20	8°♁24'11	8.01096 AU
conjunction	-3311 Dec 12 j 01:57	25°♁57'14	0°27'52	direct	-3305 Nov 02 j 21:39	4°♁57'43	
minimum elong	-3311 Dec 12 j 01:58	25°♁57'14	0°27'47	evening set	-3304 Feb 13 j 02:54	13°♁05'44	
max. Earth dist.	-3311 Dec 11 j 12:13	25°♁53'03	10.75264 AU		-3304 Feb 27 j 15:48	15°♁	
morning rise	-3311 Dec 28 j 23:05	27°♁59'46					
	-3310 Jan 15 j 07:30	0°♁		conjunction	-3304 Mar 01 j 18:51	15°♁24'47	-2°-11'-57
retrograde	-3310 Apr 12 j 09:35	5°♁30'41		minimum elong	-3304 Mar 01 j 18:49	15°♁24'46	2°12'04
opposition	-3310 Jun 22 j 01:28	2°♁07'04	0°15'26	max. Earth dist.	-3304 Mar 02 j 00:25	15°♁26'37	9.96635 AU
min. Earth dist.	-3310 Jun 22 j 12:10	2°♁05'02	8.68161 AU	morning rise	-3304 Mar 19 j 15:15	17°♁45'18	
	-3310 Jul 22 j 04:57	30°♁		retrograde	-3304 Jul 05 j 16:31	26°♁20'00	
direct	-3310 Aug 29 j 21:30	28°♁47'00		opposition	-3304 Sep 11 j 09:17	22°♁48'44	-2°-52'-12
	-3310 Oct 06 j 12:48	0°♁		min. Earth dist.	-3304 Sep 11 j 03:09	22°♁50'00	7.93266 AU
desc. node	-3310 Nov 23 j 11:58	4°♁25'03		direct	-3304 Nov 16 j 05:55	19°♁21'40	
evening set	-3310 Dec 07 j 12:03	6°♁04'01		evening set	-3303 Feb 27 j 08:08	27°♁37'59	
conjunction	-3310 Dec 24 j 09:10	8°♁08'16	0°-2'-35	conjunction	-3303 Mar 17 j 03:42	29°♁59'03	-2°-20'-46

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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 03:41	29°♁59'03	2°20'51			-3297 Jul 13 j 11:04	0°♁	
	-3303 Mar 17 j 06:33	0°♁		retrograde		-3297 Oct 13 j 23:50	6°♁38'56	
max. Earth dist.	-3303 Mar 17 j 12:49	0°♁02'05	9.90368 AU	opposition		-3297 Dec 19 j 16:29	3°♁14'28	0°-12'-13
morning rise	-3303 Apr 04 j 03:02	2°♁21'20		min. Earth dist.		-3297 Dec 19 j 05:16	3°♁16'44	8.30979 AU
retrograde	-3303 Jul 20 j 21:20	10°♁58'46				-3296 Feb 09 j 21:46	30°♁	
opposition	-3303 Sep 26 j 02:07	7°♁27'18	-2°-57'-47	direct		-3296 Feb 26 j 08:36	29°♁45'45	
min. Earth dist.	-3303 Sep 25 j 17:46	7°♁29'03	7.88748 AU			-3296 Mar 13 j 21:21	0°♁	
direct	-3303 Nov 30 j 21:09	3°♁59'07		asc. node		-3296 Apr 11 j 02:27	1°♁26'10	
evening set	-3302 Mar 14 j 20:27	12°♁21'16		evening set		-3296 Jun 11 j 16:24	7°♁44'02	
conjunction	-3302 Apr 01 j 19:25	14°♁43'42	-2°-20'-34	conjunction		-3296 Jun 29 j 14:10	9°♁57'35	0°06'55
minimum elong	-3302 Apr 01 j 19:26	14°♁43'42	2°20'37	minimum elong		-3296 Jun 29 j 14:10	9°♁57'35	0°07'01
max. Earth dist.	-3302 Apr 02 j 07:13	14°♁47'38	9.87588 AU	behind sun begin		-3296 Jun 29 j 07:28	9°♁55'30	
morning rise	-3302 Apr 19 j 21:10	17°♁06'59		behind sun end		-3296 Jun 29 j 20:52	9°♁59'39	
retrograde	-3302 Aug 05 j 00:23	25°♁43'02		max. Earth dist.		-3296 Jun 30 j 03:35	10°♁01'46	10.38336 AU
opposition	-3302 Oct 10 j 19:17	22°♁11'52	-2°-51'-42	morning rise		-3296 Jul 17 j 07:12	12°♁09'39	
min. Earth dist.	-3302 Oct 10 j 09:34	22°♁13'55	7.87749 AU	retrograde		-3296 Oct 25 j 21:51	19°♁42'37	
direct	-3302 Dec 15 j 17:32	18°♁42'46		opposition		-3296 Dec 31 j 22:30	16°♁19'53	0°28'00
evening set	-3301 Mar 30 j 12:07	27°♁07'54		min. Earth dist.		-3296 Dec 31 j 13:30	16°♁21'40	8.45644 AU
conjunction	-3301 Apr 17 j 13:58	29°♁30'57	-2°-11'-8	direct		-3295 Mar 11 j 07:12	12°♁52'04	
minimum elong	-3301 Apr 17 j 14:01	29°♁30'58	2°11'10	evening set		-3295 Jun 25 j 09:41	20°♁40'31	
max. Earth dist.	-3301 Apr 18 j 03:35	29°♁35'28	9.88395 AU	conjunction		-3295 Jul 13 j 02:43	22°♁50'34	0°38'33
	-3301 Apr 21 j 05:32	0°♁		minimum elong		-3295 Jul 13 j 02:42	22°♁50'33	0°38'41
morning rise	-3301 May 05 j 17:22	1°♁54'25		max. Earth dist.		-3295 Jul 13 j 12:52	22°♁53'41	10.53208 AU
retrograde	-3301 Aug 19 j 22:59	10°♁25'16		morning rise		-3295 Jul 30 j 14:43	24°♁59'03	
opposition	-3301 Oct 25 j 10:48	6°♁54'53	-2°-34'-18			-3295 Sep 16 j 00:04	0°♁	
min. Earth dist.	-3301 Oct 25 j 00:01	6°♁57'08	7.90308 AU	retrograde		-3295 Nov 07 j 09:02	2°♁20'29	
direct	-3301 Dec 30 j 17:06	3°♁25'13				-3295 Dec 31 j 17:58	30°♁	
evening set	-3300 Apr 14 j 03:09	11°♁50'10		opposition		-3294 Jan 13 j 20:28	28°♁59'25	1°05'27
conjunction	-3300 May 02 j 06:57	14°♁12'57	-1°-53'-14	min. Earth dist.		-3294 Jan 13 j 13:38	29°♁00'45	8.60554 AU
minimum elong	-3300 May 02 j 07:01	14°♁12'58	1°53'14	direct		-3294 Mar 24 j 21:34	25°♁32'40	
max. Earth dist.	-3300 May 02 j 22:00	14°♁17'55	9.92781 AU			-3294 Jun 10 j 03:55	0°♁	
morning rise	-3300 May 20 j 10:53	16°♁35'41		evening set		-3294 Jul 08 j 14:41	3°♁11'19	
retrograde	-3300 Sep 02 j 13:38	24°♁57'59		conjunction		-3294 Jul 26 j 02:23	5°♁17'52	1°07'28
opposition	-3300 Nov 07 j 22:17	21°♁28'44	-2°-7'-5	minimum elong		-3294 Jul 26 j 02:21	5°♁17'51	1°07'36
min. Earth dist.	-3300 Nov 07 j 10:26	21°♁31'12	7.96357 AU	max. Earth dist.		-3294 Jul 26 j 09:01	5°♁19'52	10.67919 AU
direct	-3299 Jan 13 j 16:27	17°♁58'51		morning rise		-3294 Aug 12 j 08:59	7°♁22'50	
evening set	-3299 Apr 29 j 13:59	26°♁20'29		retrograde		-3294 Nov 19 j 13:04	14°♁34'14	
conjunction	-3299 May 17 j 18:32	28°♁42'04	-1°-28'-22	opposition		-3293 Jan 26 j 10:58	11°♁14'38	1°38'36
minimum elong	-3299 May 17 j 18:36	28°♁42'06	1°28'20	min. Earth dist.		-3293 Jan 26 j 05:59	11°♁15'36	8.74975 AU
max. Earth dist.	-3299 May 18 j 10:32	28°♁47'18	10.00550 AU	direct		-3293 Apr 07 j 02:02	7°♁49'07	
	-3299 May 27 j 17:38	0°♁		evening set		-3293 Jul 21 j 07:52	15°♁18'24	
morning rise	-3299 Jun 04 j 21:43	1°♁03'10		conjunction		-3293 Aug 07 j 14:11	17°♁21'38	1°32'33
retrograde	-3299 Sep 16 j 18:51	9°♁14'20		minimum elong		-3293 Aug 07 j 14:08	17°♁21'38	1°32'40
opposition	-3299 Nov 22 j 03:48	5°♁46'30	-1°-32'-27	max. Earth dist.		-3293 Aug 07 j 18:07	17°♁22'49	10.81802 AU
min. Earth dist.	-3299 Nov 21 j 15:12	5°♁49'07	8.05571 AU	morning rise		-3293 Aug 24 j 15:23	19°♁23'21	
direct	-3298 Jan 28 j 12:38	2°♁16'43		retrograde		-3293 Dec 01 j 09:56	26°♁26'24	
evening set	-3298 May 14 j 17:22	10°♁32'20		opposition		-3292 Feb 07 j 18:59	23°♁08'04	2°06'25
conjunction	-3298 Jun 01 j 21:11	12°♁51'53	0°-58'-35	min. Earth dist.		-3292 Feb 07 j 15:56	23°♁08'39	8.88283 AU
minimum elong	-3298 Jun 01 j 21:14	12°♁51'54	0°58'32	direct		-3292 Apr 18 j 21:04	19°♁43'51	
max. Earth dist.	-3298 Jun 02 j 13:22	12°♁57'06	10.11213 AU	evening set		-3292 Aug 01 j 14:13	27°♁04'32	
	-3298 Jun 18 j 12:57	15°♁		conjunction		-3292 Aug 18 j 15:23	29°♁04'49	1°53'05
morning rise	-3298 Jun 19 j 22:13	15°♁10'30		minimum elong		-3292 Aug 18 j 15:20	29°♁04'48	1°53'11
retrograde	-3298 Sep 30 j 13:55	23°♁09'05		max. Earth dist.		-3292 Aug 18 j 17:02	29°♁05'18	10.94284 AU
opposition	-3298 Dec 06 j 02:10	19°♁42'52	0°-53'-13			-3292 Aug 26 j 09:54	0°♁	
min. Earth dist.	-3298 Dec 05 j 13:44	19°♁45'25	8.17357 AU	morning rise		-3292 Sep 04 j 11:32	1°♁03'41	
direct	-3297 Feb 12 j 02:33	16°♁13'29		retrograde		-3292 Dec 12 j 01:49	8°♁00'08	
evening set	-3297 May 29 j 10:42	24°♁21'03		opposition		-3291 Feb 18 j 21:34	4°♁42'52	2°28'17
conjunction	-3297 Jun 16 j 12:11	26°♁37'51	0°-26'-8	min. Earth dist.		-3291 Feb 18 j 21:28	4°♁42'54	8.99945 AU
minimum elong	-3297 Jun 16 j 12:12	26°♁37'52	0°26'03	direct		-3291 May 01 j 08:04	1°♁19'55	
max. Earth dist.	-3297 Jun 17 j 03:32	26°♁42'43	10.24069 AU	evening set		-3291 Aug 13 j 11:27	8°♁33'04	
morning rise	-3297 Jul 04 j 09:41	28°♁53'22		conjunction		-3291 Aug 30 j 07:47	10°♁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 07:44	10°♁30'49	2°08'41	conjunction	-3285 Nov 03 j 18:59	16°♁34'56	1°51'37
max. Earth dist.	-3291 Aug 30 j 06:00	10°♁30'19	11.04895 AU	minimum elong	-3285 Nov 03 j 19:02	16°♁34'57	1°51'35
morning rise	-3291 Sep 15 j 23:39	12°♁27'20		max. Earth dist.	-3285 Nov 03 j 04:59	16°♁30'51	11.15008 AU
	-3291 Oct 09 j 05:49	15°♁		morning rise	-3285 Nov 20 j 05:21	18°♁29'26	
retrograde	-3291 Dec 23 j 12:54	19°♁18'57		retrograde	-3284 Feb 29 j 12:39	25°♁28'19	
opposition	-3290 Mar 02 j 19:50	16°♁02'32	2°43'50	opposition	-3284 May 10 j 13:03	22°♁10'33	2°04'35
min. Earth dist.	-3290 Mar 02 j 22:50	16°♁01'58	9.09537 AU	min. Earth dist.	-3284 May 11 j 01:35	22°♁08'15	9.11500 AU
	-3290 Mar 17 j 02:01	15°♁♂		direct	-3284 Jul 20 j 08:30	18°♁52'52	
direct	-3290 May 13 j 11:08	12°♁40'49		evening set	-3284 Oct 28 j 11:35	25°♁49'24	
	-3290 Jul 07 j 23:09	15°♁					
evening set	-3290 Aug 25 j 00:51	19°♁47'36		conjunction	-3284 Nov 13 j 23:03	27°♁45'05	1°31'47
				minimum elong	-3284 Nov 13 j 23:06	27°♁45'06	1°31'43
conjunction	-3290 Sep 10 j 17:01	21°♁43'21	2°18'52	max. Earth dist.	-3284 Nov 13 j 08:39	27°♁40'50	11.07181 AU
minimum elong	-3290 Sep 10 j 17:00	21°♁43'21	2°18'56	morning rise	-3284 Nov 30 j 11:39	29°♁41'12	
max. Earth dist.	-3290 Sep 10 j 11:40	21°♁41'47	11.13276 AU		-3284 Dec 03 j 05:05	0°♁	
morning rise	-3290 Sep 27 j 05:34	23°♁38'04		retrograde	-3283 Mar 12 j 14:42	6°♁47'01	
	-3290 Dec 11 j 18:44	0°♁		opposition	-3283 May 22 j 15:45	3°♁28'01	1°38'01
retrograde	-3289 Jan 03 j 20:57	0°♁♂		min. Earth dist.	-3283 May 23 j 04:31	3°♁25'40	9.02371 AU
	-3289 Jan 27 j 08:18	30°♁♂		direct	-3283 Jul 31 j 22:07	0°♁10'10	
opposition	-3289 Mar 14 j 15:09	27°♁10'46	2°52'55	evening set	-3283 Nov 08 j 18:49	7°♁10'12	
min. Earth dist.	-3289 Mar 14 j 20:22	27°♁09'48	9.16733 AU				
direct	-3289 May 25 j 10:33	23°♁50'11		conjunction	-3283 Nov 25 j 08:16	9°♁07'42	1°08'01
	-3289 Aug 28 j 14:45	0°♁		minimum elong	-3283 Nov 25 j 08:18	9°♁07'43	1°07'57
evening set	-3289 Sep 05 j 07:47	0°♁♂		max. Earth dist.	-3283 Nov 24 j 16:40	9°♁03'04	10.96936 AU
				morning rise	-3283 Dec 11 j 23:57	11°♁05'58	
conjunction	-3289 Sep 21 j 20:52	2°♁46'08	2°23'47		-3282 Jan 17 j 12:50	15°♁	
minimum elong	-3289 Sep 21 j 20:52	2°♁46'08	2°23'50	retrograde	-3282 Mar 24 j 23:45	18°♁20'21	
max. Earth dist.	-3289 Sep 21 j 13:20	2°♁43'57	11.19147 AU	opposition	-3282 Jun 03 j 23:52	14°♁59'53	1°06'56
morning rise	-3289 Oct 08 j 06:58	4°♁39'37			-3282 Jun 03 j 23:13	15°♁♂	
retrograde	-3288 Jan 15 j 06:16	11°♁26'57		min. Earth dist.	-3282 Jun 04 j 13:17	14°♁57'23	8.90958 AU
opposition	-3288 Mar 25 j 08:36	8°♁11'16	2°55'33	direct	-3282 Aug 12 j 17:06	11°♁41'33	
min. Earth dist.	-3288 Mar 25 j 15:17	8°♁10'03	9.21285 AU		-3282 Oct 16 j 09:58	15°♁	
direct	-3288 Jun 05 j 04:35	4°♁51'43		evening set	-3282 Nov 20 j 08:46	18°♁46'47	
evening set	-3288 Sep 15 j 10:23	11°♁49'30		max. Earth dist.	-3282 Dec 06 j 09:07	20°♁41'52	10.84571 AU
conjunction	-3288 Oct 01 j 21:22	13°♁42'58	2°23'22	conjunction	-3282 Dec 07 j 00:52	20°♁46'37	0°40'58
minimum elong	-3288 Oct 01 j 21:22	13°♁42'58	2°23'25	minimum elong	-3282 Dec 07 j 00:54	20°♁46'37	0°40'54
max. Earth dist.	-3288 Oct 01 j 12:17	13°♁40'20	11.22308 AU	morning rise	-3282 Dec 23 j 20:12	22°♁47'28	
morning rise	-3288 Oct 18 j 05:54	15°♁35'49			-3281 Mar 22 j 04:52	0°♁♂	
retrograde	-3287 Jan 25 j 15:05	22°♁23'32		retrograde	-3281 Apr 06 j 18:43	0°♁♂11'55	
opposition	-3287 Apr 06 j 01:23	19°♁07'48	2°51'49		-3281 Apr 22 j 10:43	30°♁♂	
min. Earth dist.	-3287 Apr 06 j 10:17	19°♁06'11	9.23048 AU	opposition	-3281 Jun 16 j 14:16	26°♁49'49	0°32'10
direct	-3287 Jun 16 j 17:34	15°♁49'04		min. Earth dist.	-3281 Jun 17 j 03:21	26°♁47'21	8.77646 AU
evening set	-3287 Sep 26 j 10:21	22°♁44'23		direct	-3281 Aug 24 j 17:33	23°♁30'46	
					-3281 Nov 26 j 06:26	0°♁♂	
conjunction	-3287 Oct 12 j 19:59	24°♁37'34	2°17'44	evening set	-3281 Dec 02 j 07:16	0°♁♂42'54	
minimum elong	-3287 Oct 12 j 20:00	24°♁37'34	2°17'45				
max. Earth dist.	-3287 Oct 12 j 08:25	24°♁34'13	11.22665 AU	conjunction	-3281 Dec 19 j 02:40	2°♁45'27	0°11'30
morning rise	-3287 Oct 29 j 04:11	26°♁30'24		minimum elong	-3281 Dec 19 j 02:40	2°♁45'27	0°11'25
	-3287 Dec 01 j 13:29	0°♁		behind sun begin	-3281 Dec 18 j 21:31	2°♁43'53	
retrograde	-3286 Feb 06 j 02:09	3°♁20'11		behind sun end	-3281 Dec 19 j 07:50	2°♁47'01	
opposition	-3286 Apr 17 j 19:08	0°♁04'05	2°41'53	max. Earth dist.	-3281 Dec 18 j 12:24	2°♁41'05	10.70547 AU
min. Earth dist.	-3286 Apr 18 j 06:20	0°♁02'03	9.21972 AU	morning rise	-3280 Jan 05 j 01:53	4°♁49'15	
	-3286 Apr 18 j 17:34	30°♁♂		retrograde	-3280 Apr 18 j 22:33	12°♁25'04	
direct	-3286 Jun 28 j 06:15	26°♁45'57		desc. node	-3280 May 08 j 08:17	12°♁06'40	
	-3286 Sep 02 j 03:16	0°♁		opposition	-3280 Jun 28 j 11:55	9°♁01'13	0°-5'-9
evening set	-3286 Oct 07 j 09:14	3°♁40'12		min. Earth dist.	-3280 Jun 28 j 23:16	8°♁59'03	8.63000 AU
				direct	-3280 Sep 05 j 00:17	5°♁41'12	
conjunction	-3286 Oct 23 j 18:29	5°♁33'39	2°07'04	evening set	-3280 Dec 13 j 16:16	13°♁01'47	
minimum elong	-3286 Oct 23 j 18:31	5°♁33'40	2°07'03				
max. Earth dist.	-3286 Oct 23 j 04:49	5°♁29'41	11.20213 AU	conjunction	-3280 Dec 30 j 15:11	15°♁07'19	0°-19'-23
morning rise	-3286 Nov 09 j 03:24	7°♁27'03		minimum elong	-3280 Dec 30 j 15:10	15°♁07'19	0°19'31
retrograde	-3285 Feb 17 j 15:37	14°♁20'35		max. Earth dist.	-3280 Dec 30 j 03:11	15°♁03'36	10.55496 AU
opposition	-3285 Apr 29 j 14:42	11°♁03'47	2°26'02	morning rise	-3279 Jan 16 j 18:23	17°♁14'18	
min. Earth dist.	-3285 Apr 30 j 03:03	11°♁01'32	9.18090 AU	retrograde	-3279 May 02 j 13:34	25°♁02'24	
direct	-3285 Jul 09 j 18:23	7°♁46'00		opposition	-3279 Jul 11 j 17:31	21°♁36'42	0°-43'-33
evening set	-3285 Oct 18 j 09:00	14°♁40'38		min. Earth dist.	-3279 Jul 12 j 02:11	21°♁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 15:08	18°♁15'31		retrograde	-3273 Jul 29 j 05:36	19°♁00'37	
evening set	-3279 Dec 26 j 13:22	25°♁45'50		opposition	-3273 Oct 04 j 06:13	15°♁28'38	-2°-56'-12
				min. Earth dist.	-3273 Oct 03 j 21:11	15°♁30'32	7.86166 AU
conjunction	-3278 Jan 12 j 15:53	27°♁54'32	0°-50'-12	direct	-3273 Dec 09 j 03:16	11°♁59'20	
minimum elong	-3278 Jan 12 j 15:51	27°♁54'31	0°50'20	evening set	-3272 Mar 22 j 11:56	20°♁24'02	
max. Earth dist.	-3278 Jan 12 j 06:01	27°♁51'25	10.40167 AU				
morning rise	-3278 Jan 29 j 23:17	0°♁04'50		conjunction	-3272 Apr 09 j 12:44	22°♁47'08	-2°-16'-48
	-3278 Jan 29 j 07:39	0°♁		minimum elong	-3272 Apr 09 j 12:46	22°♁47'08	2°16'50
retrograde	-3278 May 16 j 15:38	8°♁05'28		max. Earth dist.	-3272 Apr 10 j 02:20	22°♁51'39	9.85835 AU
opposition	-3278 Jul 25 j 07:22	4°♁38'00	-1°-21'-10	morning rise	-3272 Apr 27 j 15:25	25°♁10'50	
min. Earth dist.	-3278 Jul 25 j 13:30	4°♁36'47	8.32580 AU		-3272 Jun 07 j 02:05	0°♁	
direct	-3278 Sep 30 j 13:23	1°♁15'27		retrograde	-3272 Aug 12 j 07:46	3°♁45'23	
evening set	-3277 Jan 08 j 23:33	8°♁56'28		opposition	-3272 Oct 17 j 23:07	0°♁13'53	-2°-44'-2
				min. Earth dist.	-3272 Oct 17 j 11:50	0°♁16'15	7.86888 AU
conjunction	-3277 Jan 26 j 05:48	11°♁08'22	-1°-19'-20		-3272 Oct 20 j 17:15	30°♁	
minimum elong	-3277 Jan 26 j 05:45	11°♁08'21	1°19'29	direct	-3272 Dec 23 j 01:25	26°♁43'50	
max. Earth dist.	-3277 Jan 25 j 22:39	11°♁06'04	10.25352 AU		-3271 Feb 22 j 01:28	0°♁	
morning rise	-3277 Feb 12 j 17:21	13°♁21'59		evening set	-3271 Apr 07 j 03:52	5°♁09'52	
retrograde	-3277 May 31 j 03:00	21°♁34'41					
opposition	-3277 Aug 08 j 05:15	18°♁05'37	-1°-55'-44	conjunction	-3271 Apr 25 j 07:06	7°♁33'07	-2°-2'-45
min. Earth dist.	-3277 Aug 08 j 08:51	18°♁04'54	8.18388 AU	minimum elong	-3271 Apr 25 j 07:09	7°♁33'08	2°02'45
direct	-3277 Oct 13 j 21:48	14°♁41'34		max. Earth dist.	-3271 Apr 25 j 23:14	7°♁38'28	9.88528 AU
evening set	-3276 Jan 22 j 23:17	22°♁33'45		morning rise	-3271 May 13 j 10:54	9°♁56'32	
				retrograde	-3271 Aug 27 j 03:05	18°♁23'58	
conjunction	-3276 Feb 09 j 09:22	24°♁48'44	-1°-44'-55	opposition	-3271 Nov 01 j 13:05	14°♁53'26	-2°-21'-11
minimum elong	-3276 Feb 09 j 09:19	24°♁48'43	1°45'03	min. Earth dist.	-3271 Nov 01 j 00:36	14°♁56'03	7.91409 AU
max. Earth dist.	-3276 Feb 09 j 05:47	24°♁47'34	10.11866 AU	direct	-3270 Jan 07 j 00:58	11°♁23'00	
morning rise	-3276 Feb 27 j 00:46	27°♁05'26		evening set	-3270 Apr 22 j 17:28	19°♁47'05	
	-3276 Mar 21 j 21:44	0°♁					
retrograde	-3276 Jun 13 j 20:49	5°♁28'52		conjunction	-3270 May 10 j 22:00	22°♁09'33	-1°-40'-55
opposition	-3276 Aug 21 j 10:19	1°♁58'28	-2°-24'-47	minimum elong	-3270 May 10 j 22:04	22°♁09'34	1°40'54
min. Earth dist.	-3276 Aug 21 j 11:05	1°♁58'18	8.05952 AU	max. Earth dist.	-3270 May 11 j 15:12	22°♁15'12	9.94918 AU
	-3276 Sep 16 j 06:40	30°♁		morning rise	-3270 May 29 j 01:45	24°♁31'43	
direct	-3276 Oct 26 j 17:33	28°♁32'54			-3270 Jul 16 j 00:55	0°♁	
	-3276 Dec 05 j 07:01	0°♁		retrograde	-3270 Sep 10 j 13:26	2°♁48'57	
evening set	-3275 Feb 05 j 11:59	6°♁35'55			-3270 Nov 07 j 19:34	30°♁	
				opposition	-3270 Nov 15 j 21:52	29°♁19'49	-1°-49'-40
conjunction	-3275 Feb 23 j 01:58	8°♁53'44	-2°-4'-59	min. Earth dist.	-3270 Nov 15 j 09:13	29°♁22'27	7.99411 AU
minimum elong	-3275 Feb 23 j 01:55	8°♁53'43	2°05'06	direct	-3269 Jan 21 j 22:44	25°♁49'23	
max. Earth dist.	-3275 Feb 23 j 02:54	8°♁54'02	10.00524 AU		-3269 Apr 02 j 23:49	0°♁	
morning rise	-3275 Mar 12 j 20:52	11°♁13'09		evening set	-3269 May 08 j 01:02	4°♁08'35	
	-3275 Apr 13 j 02:37	15°♁					
retrograde	-3275 Jun 28 j 21:01	19°♁44'57		conjunction	-3269 May 26 j 05:24	6°♁29'22	-1°-13'-9
opposition	-3275 Sep 04 j 21:32	16°♁13'34	-2°-45'-48	minimum elong	-3269 May 26 j 05:27	6°♁29'23	1°13'07
min. Earth dist.	-3275 Sep 04 j 19:00	16°♁14'05	7.96041 AU	max. Earth dist.	-3269 May 26 j 22:19	6°♁34'51	10.04550 AU
	-3275 Sep 20 j 01:58	15°♁		morning rise	-3269 Jun 13 j 07:43	8°♁49'25	
direct	-3275 Nov 09 j 21:54	12°♁46'35			-3269 Aug 09 j 12:34	15°♁	
	-3275 Dec 29 j 03:35	15°♁		retrograde	-3269 Sep 24 j 13:50	16°♁54'30	
evening set	-3274 Feb 20 j 12:05	20°♁59'09			-3269 Nov 10 j 11:51	15°♁	
				min. Earth dist.	-3269 Nov 29 j 11:35	13°♁29'39	8.10357 AU
conjunction	-3274 Mar 10 j 05:59	23°♁19'24	-2°-17'-45	opposition	-3269 Nov 30 j 00:06	13°♁27'04	-1°-12'-11
minimum elong	-3274 Mar 10 j 05:58	23°♁19'23	2°17'51	direct	-3268 Feb 05 j 16:04	9°♁57'03	
max. Earth dist.	-3274 Mar 10 j 11:46	23°♁21'19	9.92058 AU		-3268 Apr 25 j 13:46	15°♁	
morning rise	-3274 Mar 28 j 04:03	25°♁41'00		evening set	-3268 May 21 j 23:25	18°♁09'01	
	-3274 May 02 j 23:57	0°♁					
retrograde	-3274 Jul 14 j 01:02	4°♁17'49		conjunction	-3268 Jun 09 j 02:08	20°♁27'19	0°-41'-38
opposition	-3274 Sep 19 j 12:57	0°♁45'53	-2°-56'-43	minimum elong	-3268 Jun 09 j 02:10	20°♁27'20	0°41'35
min. Earth dist.	-3274 Sep 19 j 06:55	0°♁47'09	7.89292 AU	max. Earth dist.	-3268 Jun 09 j 18:06	20°♁32'26	10.16777 AU
	-3274 Sep 28 j 19:01	30°♁		morning rise	-3268 Jun 27 j 01:40	22°♁44'31	
direct	-3274 Nov 24 j 09:44	27°♁17'38			-3268 Sep 11 j 11:15	0°♁	
	-3273 Jan 18 j 00:48	0°♁		retrograde	-3268 Oct 07 j 03:55	0°♁36'39	
evening set	-3273 Mar 07 j 21:19	5°♁37'41			-3268 Nov 02 j 00:23	30°♁	
				opposition	-3268 Dec 12 j 18:30	27°♁11'06	0°-31'-35
conjunction	-3273 Mar 25 j 18:54	7°♁59'45	-2°-21'-54	min. Earth dist.	-3268 Dec 12 j 06:23	27°♁13'33	8.23542 AU
minimum elong	-3273 Mar 25 j 18:54	7°♁59'45	2°21'57	direct	-3267 Feb 19 j 03:04	23°♁41'50	
max. Earth dist.	-3273 Mar 26 j 04:58	8°♁03'06	9.87042 AU		-3267 May 21 j 22:52	0°♁	
morning rise	-3273 Apr 12 j 19:36	10°♁22'49		evening set	-3267 Jun 05 j 11:03	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 10:45	4°II00'14	0°-8'-38	conjunction	-3261 Sep 05 j 22:48	16°Ω52'16	2°14'44
minimum elong	-3267 Jun 23 j 10:45	4°II00'14	0°08'33	minimum elong	-3261 Sep 05 j 22:47	16°Ω52'15	2°14'48
behind sun begin	-3267 Jun 23 j 04:25	3°II58'16		max. Earth dist.	-3261 Sep 05 j 19:14	16°Ω51'13	11.10272 AU
behind sun end	-3267 Jun 23 j 17:04	4°II02'13		morning rise	-3261 Sep 22 j 12:43	18°Ω47'45	
max. Earth dist.	-3267 Jun 24 j 01:11	4°II04'47	10.30827 AU	retrograde	-3261 Dec 30 j 04:32	25°Ω37'48	
morning rise	-3267 Jul 11 j 06:17	6°II14'07		opposition	-3260 Mar 08 j 15:43	22°Ω22'07	2°49'26
asc. node	-3267 Sep 30 j 02:59	13°II30'50		min. Earth dist.	-3260 Mar 08 j 19:58	22°Ω21'20	9.14168 AU
retrograde	-3267 Oct 20 j 06:51	13°II53'19		direct	-3260 May 19 j 08:53	19°Ω01'26	
opposition	-3267 Dec 26 j 04:35	10°II29'43	0°09'21	evening set	-3260 Aug 30 j 14:58	26°Ω05'37	
min. Earth dist.	-3267 Dec 25 j 17:17	10°II31'59	8.38169 AU	conjunction	-3260 Sep 16 j 05:31	28°Ω00'35	2°22'06
direct	-3266 Mar 05 j 06:25	7°II01'30		minimum elong	-3260 Sep 16 j 05:30	28°Ω00'35	2°22'10
evening set	-3266 Jun 19 j 10:47	14°II55'01		max. Earth dist.	-3260 Sep 15 j 22:37	27°Ω58'35	11.17041 AU
conjunction	-3266 Jul 07 j 06:17	17°II06'50	0°23'58	morning rise	-3260 Oct 02 j 16:33	29°Ω54'36	
minimum elong	-3266 Jul 07 j 06:16	17°II06'49	0°24'05	-3260 Oct 03 j 11:35	0°♄		
max. Earth dist.	-3266 Jul 07 j 18:57	17°II10'45	10.45876 AU	retrograde	-3259 Jan 09 j 13:23	6°♄42'36	
morning rise	-3266 Jul 24 j 20:50	19°II17'06		opposition	-3259 Mar 20 j 10:24	3°♄27'12	2°55'01
retrograde	-3266 Nov 02 j 00:42	26°II44'14		min. Earth dist.	-3259 Mar 20 j 17:57	3°♄25'49	9.19619 AU
opposition	-3265 Jan 08 j 06:45	23°II22'32	0°48'23	direct	-3259 May 31 j 04:45	0°♄07'28	
min. Earth dist.	-3265 Jan 07 j 21:10	23°II24'25	8.53420 AU	evening set	-3259 Sep 10 j 20:02	7°♄07'15	
direct	-3265 Mar 19 j 00:11	19°II55'32		conjunction	-3259 Sep 27 j 07:47	9°♄01'06	2°24'07
evening set	-3265 Jul 02 j 22:04	27°II39'07		minimum elong	-3259 Sep 27 j 07:47	9°♄01'06	2°24'10
conjunction	-3265 Jul 20 j 12:31	29°II47'23	0°54'23	max. Earth dist.	-3259 Sep 26 j 21:24	8°♄58'05	11.21083 AU
minimum elong	-3265 Jul 20 j 12:29	29°II47'22	0°54'30	morning rise	-3259 Oct 13 j 17:02	10°♄54'15	
max. Earth dist.	-3265 Jul 20 j 22:54	29°II50'33	10.61118 AU	retrograde	-3258 Jan 20 j 20:29	17°♄41'56	
-3265 Jul 22 j 05:48	0°♄			opposition	-3258 Apr 01 j 03:52	14°♄26'25	2°54'11
morning rise	-3265 Aug 06 j 21:35	1°♄54'02		min. Earth dist.	-3258 Apr 01 j 13:30	14°♄24'40	9.22269 AU
retrograde	-3265 Nov 14 j 10:29	9°♄10'21		direct	-3258 Jun 11 j 21:19	11°♄07'24	
opposition	-3264 Jan 21 j 01:18	5°♄50'24	1°23'45	evening set	-3258 Sep 21 j 21:20	18°♄04'07	
min. Earth dist.	-3264 Jan 20 j 18:28	5°♄51'43	8.68519 AU	conjunction	-3258 Oct 08 j 07:29	19°♄57'26	2°20'51
direct	-3264 Mar 31 j 07:42	2°♄24'43		minimum elong	-3258 Oct 08 j 07:30	19°♄57'26	2°20'53
evening set	-3264 Jul 14 j 21:26	9°♄58'37		max. Earth dist.	-3258 Oct 07 j 19:30	19°♄53'58	11.22317 AU
conjunction	-3264 Aug 01 j 06:21	12°♄03'26	1°21'24	morning rise	-3258 Oct 24 j 15:51	21°♄50'18	
minimum elong	-3264 Aug 01 j 06:18	12°♄03'25	1°21'31	retrograde	-3257 Feb 01 j 08:04	28°♄39'20	
max. Earth dist.	-3264 Aug 01 j 13:04	12°♄05'28	10.75815 AU	opposition	-3257 Apr 12 j 21:24	25°♄23'22	2°47'05
morning rise	-3264 Aug 18 j 09:59	14°♄06'40		min. Earth dist.	-3257 Apr 13 j 08:08	25°♄21'24	9.22068 AU
retrograde	-3264 Nov 25 j 09:46	21°♄13'42		direct	-3257 Jun 23 j 12:38	22°♄04'51	
opposition	-3263 Feb 01 j 12:43	17°♄55'16	1°54'10	evening set	-3257 Oct 02 j 20:37	28°♄59'47	
min. Earth dist.	-3263 Feb 01 j 08:57	17°♄55'59	8.82748 AU	-3257 Oct 11 j 14:41	0°♄		
direct	-3263 Apr 13 j 07:46	14°♄30'54		conjunction	-3257 Oct 19 j 06:10	0°♄53'11	2°12'27
evening set	-3263 Jul 27 j 09:31	21°♄55'48		minimum elong	-3257 Oct 19 j 06:12	0°♄53'12	2°12'27
conjunction	-3263 Aug 13 j 12:57	23°♄57'26	1°44'08	max. Earth dist.	-3257 Oct 18 j 17:13	0°♄49'25	11.20718 AU
minimum elong	-3263 Aug 13 j 12:54	23°♄57'25	1°44'15	morning rise	-3257 Nov 04 j 14:37	2°♄46'21	
max. Earth dist.	-3263 Aug 13 j 15:25	23°♄58'10	10.89289 AU	retrograde	-3256 Feb 12 j 20:35	9°♄38'21	
morning rise	-3263 Aug 30 j 11:31	25°♄57'35		opposition	-3256 Apr 23 j 16:08	6°♄21'38	2°33'55
-3263 Oct 07 j 16:24	0°Ω			min. Earth dist.	-3256 Apr 24 j 04:09	6°♄19'27	9.19034 AU
retrograde	-3263 Dec 07 j 03:40	2°Ω57'06		direct	-3256 Jul 03 j 23:48	3°♄03'24	
-3262 Feb 09 j 07:10	30°R♄			evening set	-3256 Oct 12 j 20:03	9°♄58'04	
opposition	-3262 Feb 13 j 18:09	29°♄39'53	2°18'52	conjunction	-3256 Oct 29 j 05:42	11°♄52'03	1°59'09
min. Earth dist.	-3262 Feb 13 j 16:59	29°♄40'06	8.95442 AU	minimum elong	-3256 Oct 29 j 05:44	11°♄52'04	1°59'07
direct	-3262 Apr 26 j 00:37	26°♄16'50		max. Earth dist.	-3256 Oct 28 j 14:48	11°♄47'42	11.16347 AU
-3262 Jul 06 j 03:41	0°Ω			morning rise	-3256 Nov 14 j 15:18	13°♄46'06	
evening set	-3262 Aug 08 j 11:24	3°Ω33'37		retrograde	-3255 Feb 23 j 13:32	20°♄42'42	
conjunction	-3262 Aug 25 j 09:49	5°Ω32'29	2°02'01	opposition	-3255 May 05 j 13:14	17°♄24'59	2°14'59
minimum elong	-3262 Aug 25 j 09:46	5°Ω32'28	2°02'07	min. Earth dist.	-3255 May 06 j 02:54	17°♄22'29	9.13278 AU
max. Earth dist.	-3262 Aug 25 j 08:51	5°Ω32'12	11.00931 AU	direct	-3255 Jul 15 j 12:32	14°♄06'46	
morning rise	-3262 Sep 11 j 03:42	7°Ω30'01		evening set	-3255 Oct 23 j 21:15	21°♄02'42	
retrograde	-3262 Dec 18 j 17:57	14°Ω23'52		conjunction	-3255 Nov 09 j 07:52	22°♄57'50	1°41'16
opposition	-3261 Feb 25 j 18:44	11°Ω07'34	2°37'21	minimum elong	-3255 Nov 09 j 07:55	22°♄57'51	1°41'12
min. Earth dist.	-3261 Feb 25 j 19:56	11°Ω07'21	9.06039 AU	max. Earth dist.	-3255 Nov 08 j 15:51	22°♄53'08	11.09358 AU
direct	-3261 May 08 j 08:00	7°Ω45'47		morning rise	-3255 Nov 25 j 19:33	24°♄53'19	
evening set	-3261 Aug 20 j 04:40	14°Ω55'37		-3254 Jan 16 j 15:25	0°♄		
-3261 Aug 20 j 19:59	15°Ω						

Planetary Phenomena of Saturn from -3400 through -2900 (UT), AstroDienst AG 14-Nov-2015 16:04, page 13

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 11:26	1°♄56'11		minimum elong	-3248 Jan 20 j 11:25	5°♄22'52	1°06'39
	-3254 Apr 28 j 06:09	30°♄R♄		max. Earth dist.	-3248 Jan 20 j 04:42	5°♄20'43	10.31391 AU
opposition	-3254 May 17 j 14:05	28°♄37'13	1°50'40	morning rise	-3248 Feb 06 j 21:05	7°♄35'03	
min. Earth dist.	-3254 May 18 j 04:10	28°♄34'37	9.04998 AU	retrograde	-3248 May 23 j 22:16	15°♄42'35	
direct	-3254 Jul 27 j 02:43	25°♄18'50		opposition	-3248 Aug 01 j 08:00	12°♄14'07	-1°-40'-40
	-3254 Oct 14 j 11:27	0°♄		min. Earth dist.	-3248 Aug 01 j 11:50	12°♄13'21	8.24319 AU
evening set	-3254 Nov 04 j 02:02	2°♄17'34		direct	-3248 Oct 07 j 07:11	8°♄50'44	
				evening set	-3247 Jan 16 j 00:25	16°♄38'02	
conjunction	-3254 Nov 20 j 14:35	4°♄14'21	1°19'13	conjunction	-3247 Feb 02 j 08:50	18°♄51'41	-1°-33'-56
minimum elong	-3254 Nov 20 j 14:38	4°♄14'22	1°19'09	minimum elong	-3247 Feb 02 j 08:47	18°♄51'40	1°34'04
max. Earth dist.	-3254 Nov 19 j 23:08	4°♄09'46	10.99970 AU	max. Earth dist.	-3247 Feb 02 j 05:56	18°♄50'44	10.17640 AU
morning rise	-3254 Dec 07 j 04:55	6°♄11'46		morning rise	-3247 Feb 19 j 22:19	21°♄07'01	
retrograde	-3253 Mar 19 j 17:38	13°♄22'33		retrograde	-3247 Jun 07 j 14:05	29°♄26'01	
opposition	-3253 May 29 j 19:38	10°♄02'06	1°21'32	opposition	-3247 Aug 15 j 10:14	25°♄56'16	-2°-12'-29
min. Earth dist.	-3253 May 30 j 08:52	9°♄59'39	8.94459 AU	min. Earth dist.	-3247 Aug 15 j 10:33	25°♄56'13	8.11434 AU
direct	-3253 Aug 07 j 20:54	6°♄43'21		direct	-3247 Oct 20 j 21:26	22°♄31'38	
evening set	-3253 Nov 15 j 12:43	13°♄46'32			-3246 Jan 26 j 09:49	0°♄	
	-3253 Nov 25 j 20:15	15°♄		evening set	-3246 Jan 30 j 07:39	0°♄29'54	
conjunction	-3253 Dec 02 j 03:47	15°♄45'28	0°53'33	conjunction	-3246 Feb 16 j 19:51	2°♄46'29	-1°-56'-42
minimum elong	-3253 Dec 02 j 03:49	15°♄45'28	0°53'29	minimum elong	-3246 Feb 16 j 19:48	2°♄46'28	1°56'49
max. Earth dist.	-3253 Dec 01 j 13:06	15°♄41'03	10.88485 AU	max. Earth dist.	-3246 Feb 16 j 20:45	2°♄46'46	10.05679 AU
morning rise	-3253 Dec 18 j 21:22	17°♄45'15		morning rise	-3246 Mar 06 j 13:03	5°♄04'41	
retrograde	-3252 Mar 31 j 09:21	25°♄05'25		retrograde	-3246 Jun 22 j 13:31	13°♄33'10	
opposition	-3252 Jun 10 j 06:55	21°♄43'24	0°48'17	opposition	-3246 Aug 29 j 19:08	10°♄02'29	-2°-37'-22
min. Earth dist.	-3252 Jun 10 j 19:04	21°♄41'07	8.82022 AU	min. Earth dist.	-3246 Aug 29 j 16:17	10°♄03'04	8.00737 AU
direct	-3252 Aug 18 j 17:48	18°♄24'05		direct	-3246 Nov 03 j 20:32	6°♄36'33	
evening set	-3252 Nov 26 j 07:14	25°♄33'21		evening set	-3245 Feb 14 j 03:18	14°♄44'58	
max. Earth dist.	-3252 Dec 12 j 10:43	27°♄30'24	10.75316 AU		-3245 Feb 16 j 01:40	15°♄	
conjunction	-3252 Dec 13 j 01:08	27°♄34'47	0°25'03	conjunction	-3245 Mar 03 j 19:17	17°♄04'06	-2°-12'-55
minimum elong	-3252 Dec 13 j 01:09	27°♄34'48	0°24'58	minimum elong	-3245 Mar 03 j 19:15	17°♄04'06	2°13'01
morning rise	-3252 Dec 29 j 22:32	29°♄37'22		max. Earth dist.	-3245 Mar 03 j 23:51	17°♄05'37	9.96275 AU
	-3251 Jan 02 j 02:50	0°♄		morning rise	-3245 Mar 21 j 15:54	19°♄24'44	
retrograde	-3251 Apr 13 j 08:55	7°♄08'16		retrograde	-3245 Jul 07 j 17:27	27°♄59'40	
opposition	-3251 Jun 23 j 01:22	3°♄44'36	0°11'56	opposition	-3245 Sep 13 j 09:13	24°♄28'25	-2°-52'-59
min. Earth dist.	-3251 Jun 23 j 12:35	3°♄42'28	8.68162 AU	min. Earth dist.	-3245 Sep 13 j 03:46	24°♄29'32	7.92918 AU
direct	-3251 Aug 30 j 20:04	0°♄24'30		direct	-3245 Nov 18 j 04:57	21°♄01'16	
desc. node	-3251 Oct 20 j 13:43	2°♄34'06		evening set	-3244 Feb 29 j 09:01	29°♄18'02	
evening set	-3251 Dec 08 j 11:11	7°♄41'27			-3244 Mar 05 j 17:13	0°♄	
conjunction	-3251 Dec 25 j 08:22	9°♄45'43	0°-5'-25	conjunction	-3244 Mar 18 j 04:40	1°♄39'12	-2°-21'-2
minimum elong	-3251 Dec 25 j 08:21	9°♄45'43	0°05'32	minimum elong	-3244 Mar 18 j 04:39	1°♄39'12	2°21'06
behind sun begin	-3251 Dec 25 j 01:33	9°♄43'39		max. Earth dist.	-3244 Mar 18 j 12:58	1°♄41'57	9.90050 AU
behind sun end	-3251 Dec 25 j 15:09	9°♄47'48		morning rise	-3244 Apr 05 j 04:13	4°♄01'35	
max. Earth dist.	-3251 Dec 24 j 19:08	9°♄41'39	10.60983 AU	retrograde	-3244 Jul 21 j 22:26	12°♄39'09	
morning rise	-3250 Jan 11 j 09:53	11°♄51'22		opposition	-3244 Sep 27 j 02:09	9°♄07'45	-2°-57'-38
retrograde	-3250 Apr 26 j 18:27	19°♄34'07		min. Earth dist.	-3244 Sep 26 j 18:23	9°♄09'22	7.88482 AU
opposition	-3250 Jul 06 j 03:31	16°♄08'46	0°-26'-12	direct	-3244 Dec 01 j 21:10	5°♄39'30	
min. Earth dist.	-3250 Jul 06 j 13:17	16°♄06'53	8.53462 AU	evening set	-3243 Mar 15 j 21:36	14°♄02'03	
direct	-3250 Sep 12 j 07:49	12°♄47'41		conjunction	-3243 Apr 02 j 20:43	16°♄24'33	-2°-20'-4
evening set	-3250 Dec 21 j 02:37	20°♄13'46		minimum elong	-3243 Apr 02 j 20:44	16°♄24'34	2°20'07
conjunction	-3249 Jan 07 j 03:27	22°♄21'06	0°-36'-24	max. Earth dist.	-3243 Apr 03 j 08:20	16°♄28'25	9.87403 AU
minimum elong	-3249 Jan 07 j 03:25	22°♄21'06	0°36'31	morning rise	-3243 Apr 20 j 22:38	18°♄47'55	
max. Earth dist.	-3249 Jan 06 j 17:03	22°♄17'51	10.46103 AU	retrograde	-3243 Aug 06 j 01:14	27°♄23'56	
morning rise	-3249 Jan 24 j 09:05	24°♄30'00		opposition	-3243 Oct 11 j 19:27	23°♄52'49	-2°-50'-37
	-3249 Mar 16 j 20:07	0°♄		min. Earth dist.	-3243 Oct 11 j 09:46	23°♄54'51	7.87660 AU
retrograde	-3249 May 10 j 15:09	2°♄25'10		direct	-3243 Dec 16 j 19:11	20°♄23'41	
	-3249 Jul 06 j 05:05	30°♄R♄		evening set	-3242 Mar 31 j 13:18	28°♄48'58	
opposition	-3249 Jul 19 j 13:37	28°♄58'12	-1°-4'-27		-3242 Apr 09 j 13:59	0°♄	
min. Earth dist.	-3249 Jul 19 j 20:55	28°♄56'46	8.38597 AU	conjunction	-3242 Apr 18 j 15:22	1°♄12'03	-2°-9'-56
direct	-3249 Sep 25 j 03:00	25°♄36'00		minimum elong	-3242 Apr 18 j 15:25	1°♄12'04	2°09'57
evening set	-3248 Jan 03 j 06:48	3°♄12'22		max. Earth dist.	-3242 Apr 19 j 05:16	1°♄16'40	9.88407 AU
conjunction	-3248 Jan 20 j 11:27	5°♄22'52	-1°-6'-31	morning rise	-3242 May 06 j 18:52	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 22:25	12°♃06'08		retrograde	-3236 Nov 08 j 09:07	3°♄59'50	
opposition	-3242 Oct 26 j 10:50	8°♃35'46	-2°-32'-22	opposition	-3235 Jan 14 j 20:36	0°♄38'49	1°08'45
min. Earth dist.	-3242 Oct 25 j 23:42	8°♃38'06	7.90396 AU	min. Earth dist.	-3235 Jan 14 j 13:18	0°♄40'15	8.60723 AU
direct	-3242 Dec 31 j 18:40	5°♃06'05			-3235 Jan 23 j 04:16	30°♃	
evening set	-3241 Apr 16 j 04:25	13°♃31'02		direct	-3235 Mar 25 j 22:18	27°♃12'09	
					-3235 May 24 j 19:41	0°♄	
conjunction	-3241 May 04 j 08:26	15°♃53'50	-1°-51'-23	evening set	-3235 Jul 09 j 15:10	4°♄50'45	
minimum elong	-3241 May 04 j 08:29	15°♃53'51	1°51'23				
max. Earth dist.	-3241 May 04 j 23:55	15°♃58'56	9.92931 AU	conjunction	-3235 Jul 27 j 02:41	6°♄57'14	1°10'00
morning rise	-3241 May 22 j 12:20	18°♃16'32		minimum elong	-3235 Jul 27 j 02:38	6°♄57'13	1°10'07
retrograde	-3241 Sep 04 j 12:47	26°♃38'29		max. Earth dist.	-3235 Jul 27 j 09:36	6°♄59'20	10.68078 AU
opposition	-3241 Nov 09 j 22:10	23°♃09'17	-2°-4'-27	morning rise	-3235 Aug 13 j 08:59	9°♄02'07	
min. Earth dist.	-3241 Nov 09 j 09:51	23°♃11'51	7.96536 AU	retrograde	-3235 Nov 20 j 13:03	16°♄13'30	
direct	-3240 Jan 15 j 16:57	19°♃39'24		opposition	-3234 Jan 27 j 11:07	12°♄53'57	1°41'31
evening set	-3240 Apr 30 j 15:09	28°♃00'59		min. Earth dist.	-3234 Jan 27 j 05:44	12°♄55'00	8.75121 AU
	-3240 May 15 j 22:42	0°♃		direct	-3234 Apr 08 j 02:16	9°♄28'30	
				evening set	-3234 Jul 22 j 08:16	16°♄57'45	
conjunction	-3240 May 18 j 19:50	0°♃22'35	-1°-26'-1				
minimum elong	-3240 May 18 j 19:54	0°♃22'36	1°25'59	conjunction	-3234 Aug 08 j 14:23	19°♄00'55	1°34'44
max. Earth dist.	-3240 May 19 j 12:23	0°♃27'59	10.00755 AU	minimum elong	-3234 Aug 08 j 14:20	19°♄00'54	1°34'51
morning rise	-3240 Jun 05 j 22:53	2°♃43'36		max. Earth dist.	-3234 Aug 08 j 19:00	19°♄02'18	10.81934 AU
retrograde	-3240 Sep 17 j 18:57	10°♃54'28		morning rise	-3234 Aug 25 j 15:12	21°♄02'33	
opposition	-3240 Nov 23 j 03:42	7°♃26'42	-1°-29'-17	retrograde	-3234 Dec 02 j 10:45	28°♄05'36	
min. Earth dist.	-3240 Nov 22 j 15:02	7°♃29'19	8.05780 AU	opposition	-3233 Feb 08 j 19:22	24°♄47'20	2°08'50
direct	-3239 Jan 29 j 11:49	3°♃56'56		min. Earth dist.	-3233 Feb 08 j 16:38	24°♄47'51	8.88402 AU
evening set	-3239 May 15 j 18:19	12°♃12'29		direct	-3233 Apr 20 j 21:24	21°♄23'09	
				evening set	-3233 Aug 03 j 14:33	28°♄43'47	
					-3233 Aug 14 j 10:42	0°♄	
conjunction	-3239 Jun 02 j 22:09	14°♃32'01	0°-55'-53	conjunction	-3233 Aug 20 j 15:22	0°♄43'59	1°54'49
minimum elong	-3239 Jun 02 j 22:11	14°♃32'02	0°55'49	minimum elong	-3233 Aug 20 j 15:18	0°♄43'59	1°54'55
max. Earth dist.	-3239 Jun 03 j 14:36	14°♃37'19	10.11430 AU	max. Earth dist.	-3233 Aug 20 j 16:56	0°♄44'27	10.94388 AU
	-3239 Jun 06 j 12:58	15°♃		morning rise	-3233 Sep 06 j 11:14	2°♄42'47	
morning rise	-3239 Jun 20 j 23:00	16°♃50'35		retrograde	-3233 Dec 14 j 01:46	9°♄39'16	
retrograde	-3239 Oct 01 j 15:22	24°♃48'53		opposition	-3232 Feb 20 j 22:07	6°♄22'02	2°30'07
opposition	-3239 Dec 07 j 02:06	21°♃22'45	0°-49'-43	min. Earth dist.	-3232 Feb 20 j 22:32	6°♄21'57	9.00047 AU
min. Earth dist.	-3239 Dec 06 j 14:12	21°♃25'11	8.17570 AU	direct	-3232 May 02 j 07:48	2°♄59'07	
direct	-3238 Feb 13 j 01:31	17°♃53'23		evening set	-3232 Aug 14 j 11:34	10°♄12'11	
evening set	-3238 May 30 j 11:38	26°♃00'56					
conjunction	-3238 Jun 17 j 12:58	28°♃17'41	0°-23'-15	conjunction	-3232 Aug 31 j 07:33	12°♄09'52	2°09'51
minimum elong	-3238 Jun 17 j 12:59	28°♃17'42	0°23'10	minimum elong	-3232 Aug 31 j 07:31	12°♄09'52	2°09'55
max. Earth dist.	-3238 Jun 18 j 03:53	28°♃22'25	10.24279 AU	max. Earth dist.	-3232 Aug 31 j 05:12	12°♄09'11	11.04984 AU
	-3238 Jul 01 j 00:10	0°♃		morning rise	-3232 Sep 16 j 23:19	14°♄06'20	
morning rise	-3238 Jul 05 j 10:20	0°♃33'10		retrograde	-3232 Sep 24 j 20:39	15°♄	
retrograde	-3238 Oct 14 j 23:47	8°♃18'29		retrograde	-3232 Dec 24 j 11:53	20°♄58'01	
opposition	-3238 Dec 20 j 16:25	4°♃54'07	0°-8'-36	opposition	-3231 Mar 03 j 20:18	17°♄41'34	2°45'01
min. Earth dist.	-3238 Dec 20 j 06:02	4°♃56'13	8.31184 AU	min. Earth dist.	-3231 Mar 03 j 23:02	17°♄41'04	9.09624 AU
direct	-3237 Feb 27 j 09:28	1°♃25'25			-3231 Apr 15 j 01:09	15°♄	
asc. node	-3237 Mar 10 j 10:31	1°♃31'51		direct	-3231 May 14 j 12:40	14°♄19'52	
evening set	-3237 Jun 13 j 17:17	9°♃23'44			-3231 Jun 12 j 16:52	15°♄	
				evening set	-3231 Aug 26 j 00:42	21°♄26'33	
conjunction	-3237 Jul 01 j 14:47	11°♃37'12	0°09'49				
minimum elong	-3237 Jul 01 j 14:46	11°♃37'12	0°09'55	conjunction	-3231 Sep 11 j 16:44	23°♄22'15	2°19'34
behind sun begin	-3237 Jul 01 j 08:55	11°♃35'23		minimum elong	-3231 Sep 11 j 16:43	23°♄22'15	2°19'38
behind sun end	-3237 Jul 01 j 20:37	11°♃39'01		max. Earth dist.	-3231 Sep 11 j 11:46	23°♄20'48	11.13352 AU
max. Earth dist.	-3237 Jul 02 j 03:10	11°♃41'04	10.38530 AU	morning rise	-3231 Sep 28 j 05:08	25°♄16'55	
morning rise	-3237 Jul 19 j 07:41	13°♃49'13			-3231 Nov 14 j 16:52	0°♃	
retrograde	-3237 Oct 27 j 20:45	21°♃22'01		retrograde	-3230 Jan 04 j 21:52	2°♃05'34	
opposition	-3236 Jan 02 j 22:36	17°♃59'24	0°31'33		-3230 Feb 27 j 08:42	30°♄	
min. Earth dist.	-3236 Jan 02 j 13:52	18°♃01'08	8.45834 AU	opposition	-3230 Mar 15 j 15:34	28°♄49'38	2°53'26
direct	-3236 Mar 12 j 08:47	14°♃31'37		min. Earth dist.	-3230 Mar 15 j 19:59	28°♄48'49	9.16800 AU
evening set	-3236 Jun 26 j 10:20	22°♃20'04		direct	-3230 May 26 j 11:15	25°♄29'06	
					-3230 Aug 14 j 02:37	0°♃	
conjunction	-3236 Jul 14 j 03:05	24°♃30'02	0°41'20	evening set	-3230 Sep 06 j 07:28	2°♃30'35	
minimum elong	-3236 Jul 14 j 03:03	24°♃30'02	0°41'28				
max. Earth dist.	-3236 Jul 14 j 12:30	24°♃32'56	10.53385 AU	conjunction	-3230 Sep 22 j 20:30	4°♃24'52	2°23'56
morning rise	-3236 Jul 31 j 14:54	26°♃38'27		minimum elong	-3230 Sep 22 j 20:29	4°♃24'52	2°23'59
	-3236 Aug 30 j 08:24	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 13:54	4°♄22'57	11.19206 AU	retrograde	-3223 Mar 25 j 23:22	19°♄57'58	
morning rise	-3230 Oct 09 j 06:22	6°♄18'19		opposition	-3223 Jun 04 j 23:44	16°♄37'30	1°03'40
retrograde	-3229 Jan 16 j 06:05	13°♄05'42		min. Earth dist.	-3223 Jun 05 j 13:03	16°♄35'01	8.91230 AU
opposition	-3229 Mar 27 j 09:08	9°♄49'59	2°55'23		-3223 Jun 27 j 19:02	15°♄	
min. Earth dist.	-3229 Mar 27 j 15:40	9°♄48'47	9.21339 AU	direct	-3223 Aug 13 j 17:08	13°♄19'12	
direct	-3229 Jun 07 j 04:04	6°♄30'29			-3223 Sep 27 j 21:54	15°♄	
evening set	-3229 Sep 17 j 09:54	13°♄28'05		evening set	-3223 Nov 21 j 07:25	20°♄24'09	
conjunction	-3229 Oct 03 j 20:44	15°♄21'31	2°22'58	conjunction	-3223 Dec 07 j 23:44	22°♄23'57	0°38'14
minimum elong	-3229 Oct 03 j 20:45	15°♄21'31	2°23'00	minimum elong	-3223 Dec 07 j 23:46	22°♄23'58	0°38'09
max. Earth dist.	-3229 Oct 03 j 11:37	15°♄18'52	11.22364 AU	max. Earth dist.	-3223 Dec 07 j 09:06	22°♄19'33	10.84895 AU
morning rise	-3229 Oct 20 j 05:17	17°♄14'21		morning rise	-3223 Dec 24 j 19:10	24°♄24'48	
retrograde	-3228 Jan 27 j 15:35	24°♄02'07			-3222 Feb 18 j 18:23	0°♄	
opposition	-3228 Apr 07 j 01:59	20°♄46'21	2°50'59	retrograde	-3222 Apr 07 j 17:16	1°♄49'06	
min. Earth dist.	-3228 Apr 07 j 11:12	20°♄44'41	9.23110 AU		-3222 May 27 j 04:05	30°♄	
direct	-3228 Jun 17 j 18:09	17°♄27'39		opposition	-3222 Jun 17 j 13:51	28°♄26'59	0°28'44
evening set	-3228 Sep 27 j 09:37	24°♄22'46		min. Earth dist.	-3222 Jun 18 j 02:06	28°♄24'41	8.78014 AU
				direct	-3222 Aug 25 j 16:58	25°♄08'00	
conjunction	-3228 Oct 13 j 19:11	26°♄15'56	2°16'47		-3222 Nov 12 j 23:00	0°♄	
minimum elong	-3228 Oct 13 j 19:12	26°♄15'56	2°16'49	evening set	-3222 Dec 03 j 05:50	2°♄19'48	
max. Earth dist.	-3228 Oct 13 j 07:23	26°♄12'31	11.22735 AU	max. Earth dist.	-3222 Dec 19 j 11:56	4°♄18'12	10.70942 AU
morning rise	-3228 Oct 30 j 03:33	28°♄08'47					
	-3228 Nov 16 j 00:36	0°♄		conjunction	-3222 Dec 20 j 01:24	4°♄22'19	0°08'42
retrograde	-3227 Feb 07 j 00:46	4°♄58'36		minimum elong	-3222 Dec 20 j 01:24	4°♄22'19	0°08'36
opposition	-3227 Apr 18 j 19:31	1°♄42'27	2°40'26	behind sun begin	-3222 Dec 19 j 19:15	4°♄20'27	
min. Earth dist.	-3227 Apr 19 j 06:28	1°♄40'28	9.22046 AU	behind sun end	-3222 Dec 20 j 07:33	4°♄24'10	
	-3227 May 13 j 11:19	30°♄		morning rise	-3221 Jan 06 j 00:39	6°♄26'03	
direct	-3227 Jun 29 j 06:06	28°♄24'21		desc. node	-3221 Apr 05 j 20:41	13°♄50'24	
	-3227 Aug 13 j 14:25	0°♄		retrograde	-3221 Apr 20 j 22:32	14°♄01'43	
evening set	-3227 Oct 08 j 08:16	5°♄18'24		opposition	-3221 Jun 30 j 11:14	10°♄37'51	0°-8'-36
				min. Earth dist.	-3221 Jun 30 j 21:47	10°♄35'50	8.63416 AU
conjunction	-3227 Oct 24 j 17:39	7°♄11'51	2°05'37	direct	-3221 Sep 06 j 23:46	7°♄17'55	
minimum elong	-3227 Oct 24 j 17:41	7°♄11'52	2°05'36	evening set	-3221 Dec 15 j 14:56	14°♄38'10	
max. Earth dist.	-3227 Oct 24 j 04:54	7°♄08'08	11.20294 AU				
morning rise	-3227 Nov 10 j 02:37	9°♄05'15		conjunction	-3220 Jan 01 j 13:51	16°♄43'40	0°-22'-8
retrograde	-3226 Feb 18 j 16:26	15°♄58'50		minimum elong	-3220 Jan 01 j 13:51	16°♄43'40	0°22'16
opposition	-3226 Apr 30 j 14:55	12°♄41'59	2°24'00	max. Earth dist.	-3220 Jan 01 j 01:28	16°♄39'50	10.55919 AU
min. Earth dist.	-3226 May 01 j 02:15	12°♄39'55	9.18174 AU	morning rise	-3220 Jan 18 j 17:13	18°♄50'37	
direct	-3226 Jul 10 j 19:36	9°♄24'16		retrograde	-3220 May 03 j 13:51	26°♄38'28	
evening set	-3226 Oct 19 j 07:55	16°♄18'39		opposition	-3220 Jul 12 j 16:26	23°♄12'50	0°-46'-51
				min. Earth dist.	-3220 Jul 13 j 01:10	23°♄11'08	8.48141 AU
conjunction	-3226 Nov 04 j 18:02	18°♄12'58	1°49'44	direct	-3220 Sep 18 j 12:36	19°♄51'41	
minimum elong	-3226 Nov 04 j 18:05	18°♄12'59	1°49'42	evening set	-3220 Dec 27 j 12:01	27°♄21'46	
max. Earth dist.	-3226 Nov 04 j 04:51	18°♄09'07	11.15107 AU				
morning rise	-3226 Nov 21 j 04:27	20°♄07'29		conjunction	-3219 Jan 13 j 14:31	29°♄30'24	0°-52'-46
retrograde	-3225 Mar 02 j 12:43	27°♄06'23		minimum elong	-3219 Jan 13 j 14:28	29°♄30'23	0°52'54
opposition	-3225 May 12 j 13:20	23°♄48'35	2°02'02	max. Earth dist.	-3219 Jan 13 j 03:50	29°♄27'02	10.40583 AU
min. Earth dist.	-3225 May 13 j 01:18	23°♄46'23	9.11612 AU		-3219 Jan 17 j 12:18	0°♄	
direct	-3225 Jul 22 j 06:55	20°♄30'59		morning rise	-3219 Jan 30 j 22:05	1°♄40'40	
evening set	-3225 Oct 30 j 10:24	27°♄27'15		retrograde	-3219 May 17 j 14:27	9°♄41'03	
				opposition	-3219 Jul 26 j 06:05	6°♄13'40	-1°-24'-9
conjunction	-3225 Nov 15 j 21:54	29°♄22'56	1°29'31	min. Earth dist.	-3219 Jul 26 j 12:53	6°♄12'19	8.32982 AU
minimum elong	-3225 Nov 15 j 21:57	29°♄22'57	1°29'27	direct	-3219 Oct 01 j 11:41	2°♄51'08	
max. Earth dist.	-3225 Nov 15 j 07:21	29°♄18'39	11.07326 AU	evening set	-3218 Jan 09 j 22:03	10°♄31'59	
	-3225 Nov 21 j 03:45	0°♄					
morning rise	-3225 Dec 02 j 10:46	1°♄19'06		conjunction	-3218 Jan 27 j 04:21	12°♄43'50	-1°-21'-34
retrograde	-3224 Mar 13 j 13:59	8°♄24'55		minimum elong	-3218 Jan 27 j 04:18	12°♄43'49	1°21'42
opposition	-3224 May 23 j 15:56	5°♄05'53	1°35'03	max. Earth dist.	-3218 Jan 26 j 21:00	12°♄41'28	10.25737 AU
min. Earth dist.	-3224 May 24 j 04:53	5°♄03'30	9.02546 AU	morning rise	-3218 Feb 13 j 16:00	14°♄57'23	
direct	-3224 Aug 01 j 21:57	1°♄48'05		retrograde	-3218 May 31 j 23:56	23°♄09'53	
evening set	-3224 Nov 09 j 17:38	8°♄47'52		opposition	-3218 Aug 09 j 03:42	19°♄40'53	-1°-58'-14
				min. Earth dist.	-3218 Aug 09 j 07:50	19°♄40'03	8.18753 AU
conjunction	-3224 Nov 26 j 07:09	10°♄45'23	1°05'27	direct	-3218 Oct 14 j 21:36	16°♄16'52	
minimum elong	-3224 Nov 26 j 07:11	10°♄45'24	1°05'23	evening set	-3217 Jan 23 j 21:46	24°♄08'54	
max. Earth dist.	-3224 Nov 25 j 15:42	10°♄40'47	10.97160 AU				
morning rise	-3224 Dec 12 j 23:06	12°♄43'40		conjunction	-3217 Feb 10 j 08:01	26°♄23'51	-1°-46'-42
	-3223 Jan 02 j 05:32	15°♄		minimum elong	-3217 Feb 10 j 07:58	26°♄23'50	1°46'49

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

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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 06:41	26°♄38'38		minimum elong	-3187 Feb 17 j 16:38	4°≈17'24	1°58'13
opposition	-3193 Jun 12 j 05:13	23°♄16'37	0°45'05	max. Earth dist.	-3187 Feb 17 j 16:26	4°≈17'20	10.05706 AU
min. Earth dist.	-3193 Jun 12 j 17:41	23°♄14'17	8.82343 AU	morning rise	-3187 Mar 07 j 10:01	6°≈35'39	
direct	-3193 Aug 20 j 14:51	19°♄57'20			-3187 Jun 14 j 19:04	15°≈	
evening set	-3193 Nov 28 j 04:25	27°♄06'19		retrograde	-3187 Jun 23 j 11:04	15°≈04'02	
					-3187 Jul 02 j 01:24	15°≈	
conjunction	-3193 Dec 14 j 22:24	29°♄07'43	0°22'24	opposition	-3187 Aug 30 j 15:35	11°≈33'20	-2°-38'-45
minimum elong	-3193 Dec 14 j 22:25	29°♄07'43	0°22'19	min. Earth dist.	-3187 Aug 30 j 13:38	11°≈33'44	8.00723 AU
max. Earth dist.	-3193 Dec 14 j 07:40	29°♄03'15	10.75637 AU	direct	-3187 Nov 04 j 16:54	8°≈07'19	
	-3193 Dec 22 j 02:26	0°≈			-3186 Feb 05 j 02:03	15°≈	
morning rise	-3193 Dec 31 j 20:03	1°≈10'17		evening set	-3186 Feb 15 j 00:03	16°≈15'49	
retrograde	-3192 Apr 14 j 06:11	8°≈41'02					
opposition	-3192 Jun 23 j 23:19	5°≈17'22	0°08'39	conjunction	-3186 Mar 04 j 16:06	18°≈34'58	-2°-13'-45
min. Earth dist.	-3192 Jun 24 j 11:00	5°≈15'09	8.68470 AU	minimum elong	-3186 Mar 04 j 16:04	18°≈34'57	2°13'51
direct	-3192 Aug 31 j 18:49	1°≈57'15		max. Earth dist.	-3186 Mar 04 j 19:59	18°≈36'15	9.96224 AU
desc. node	-3192 Sep 18 j 20:20	2°≈14'25		morning rise	-3186 Mar 22 j 12:51	20°≈55'37	
evening set	-3192 Dec 09 j 08:16	9°≈13'57		retrograde	-3186 Jul 08 j 13:57	29°≈30'30	
				opposition	-3186 Sep 14 j 05:33	25°≈59'15	-2°-53'-37
conjunction	-3192 Dec 26 j 05:36	11°≈18'12	0°-8'-3	min. Earth dist.	-3186 Sep 14 j 00:46	26°≈00'15	7.92833 AU
minimum elong	-3192 Dec 26 j 05:35	11°≈18'11	0°08'10	direct	-3186 Nov 19 j 02:28	22°≈32'02	
behind sun begin	-3192 Dec 25 j 23:18	11°≈16'16			-3185 Feb 23 j 22:00	0°≈	
behind sun end	-3192 Dec 26 j 11:52	11°≈20'07		evening set	-3185 Mar 02 j 05:55	0°≈49'00	
max. Earth dist.	-3192 Dec 25 j 16:55	11°≈14'17	10.61273 AU				
morning rise	-3191 Jan 12 j 07:11	13°≈23'49		conjunction	-3185 Mar 20 j 01:46	3°≈10'12	-2°-21'-13
retrograde	-3191 Apr 27 j 15:56	21°≈06'24		minimum elong	-3185 Mar 20 j 01:46	3°≈10'12	2°21'17
opposition	-3191 Jul 07 j 01:02	17°≈41'02	0°-29'-24	max. Earth dist.	-3185 Mar 20 j 09:58	3°≈12'56	9.89943 AU
min. Earth dist.	-3191 Jul 07 j 10:39	17°≈39'11	8.53735 AU	morning rise	-3185 Apr 07 j 01:24	5°≈32'37	
direct	-3191 Sep 13 j 05:08	14°≈19'57		retrograde	-3185 Jul 23 j 18:06	14°≈10'10	
evening set	-3191 Dec 21 j 23:33	21°≈45'48		opposition	-3185 Sep 28 j 22:22	10°≈38'47	-2°-57'-28
				min. Earth dist.	-3185 Sep 28 j 14:41	10°≈40'23	7.88362 AU
conjunction	-3190 Jan 08 j 00:32	23°≈53'06	0°-38'-54	direct	-3185 Dec 03 j 18:57	7°≈10'31	
minimum elong	-3190 Jan 08 j 00:30	23°≈53'06	0°39'02	evening set	-3184 Mar 16 j 18:42	15°≈33'16	
max. Earth dist.	-3190 Jan 07 j 14:51	23°≈50'05	10.46345 AU				
morning rise	-3190 Jan 25 j 06:08	26°≈01'58		conjunction	-3184 Apr 03 j 18:03	17°≈55'51	-2°-19'-36
	-3190 Mar 01 j 04:06	0°≈		minimum elong	-3184 Apr 03 j 18:04	17°≈55'51	2°19'39
retrograde	-3190 May 11 j 12:12	3°≈57'00		max. Earth dist.	-3184 Apr 04 j 06:08	17°≈59'52	9.87290 AU
opposition	-3190 Jul 20 j 10:49	0°≈29'59	-1°-7'-25	morning rise	-3184 Apr 21 j 19:58	20°≈19'14	
min. Earth dist.	-3190 Jul 20 j 17:28	0°≈28'40	8.38819 AU	retrograde	-3184 Aug 06 j 20:30	28°≈55'14	
	-3190 Jul 26 j 20:22	30°≈		opposition	-3184 Oct 12 j 15:45	25°≈24'08	-2°-49'-38
direct	-3190 Sep 26 j 00:17	27°≈07'47		min. Earth dist.	-3184 Oct 12 j 05:33	25°≈26'16	7.87576 AU
	-3190 Nov 22 j 18:05	0°≈		direct	-3184 Dec 17 j 15:40	21°≈55'00	
evening set	-3189 Jan 04 j 03:41	4°≈43'57			-3183 Mar 29 j 19:31	0°≈	
				evening set	-3183 Apr 01 j 10:27	0°≈20'23	
conjunction	-3189 Jan 21 j 08:22	6°≈54'27	-1°-8'-46				
minimum elong	-3189 Jan 21 j 08:19	6°≈54'26	1°08'54	conjunction	-3183 Apr 19 j 12:43	2°≈43'32	-2°-8'-51
max. Earth dist.	-3189 Jan 21 j 01:28	6°≈52'15	10.31574 AU	minimum elong	-3183 Apr 19 j 12:46	2°≈43'33	2°08'51
morning rise	-3189 Feb 07 j 18:02	9°≈06'35		max. Earth dist.	-3183 Apr 20 j 03:28	2°≈48'26	9.88375 AU
retrograde	-3189 May 25 j 19:13	17°≈14'00		morning rise	-3183 May 07 j 16:10	5°≈07'01	
opposition	-3189 Aug 03 j 04:54	13°≈45'29	-1°-43'-15	retrograde	-3183 Aug 21 j 18:36	13°≈37'29	
min. Earth dist.	-3189 Aug 03 j 08:32	13°≈44'46	8.24471 AU	opposition	-3183 Oct 27 j 07:09	10°≈07'06	-2°-30'-39
direct	-3189 Oct 09 j 04:05	10°≈22'04		min. Earth dist.	-3183 Oct 26 j 19:29	10°≈09'33	7.90412 AU
evening set	-3188 Jan 17 j 21:22	18°≈09'16		direct	-3182 Jan 01 j 14:02	6°≈37'24	
				evening set	-3182 Apr 17 j 01:36	15°≈02'19	
conjunction	-3188 Feb 04 j 05:44	20°≈22'53	-1°-35'-49				
minimum elong	-3188 Feb 04 j 05:41	20°≈22'52	1°35'57	conjunction	-3182 May 05 j 05:46	17°≈25'08	-1°-49'-46
max. Earth dist.	-3188 Feb 04 j 01:51	20°≈21'38	10.17750 AU	minimum elong	-3182 May 05 j 05:50	17°≈25'10	1°49'45
morning rise	-3188 Feb 21 j 19:20	22°≈38'12		max. Earth dist.	-3182 May 05 j 21:49	17°≈30'26	9.92990 AU
	-3188 May 06 j 07:04	0°≈		morning rise	-3182 May 23 j 09:38	19°≈47'50	
retrograde	-3188 Jun 08 j 11:43	0°≈57'05		retrograde	-3182 Sep 05 j 10:28	28°≈09'32	
	-3188 Jul 11 j 20:31	30°≈		opposition	-3182 Nov 10 j 18:25	24°≈40'20	-2°-2'-7
opposition	-3188 Aug 16 j 06:48	27°≈27'19	-2°-14'-32	min. Earth dist.	-3182 Nov 10 j 06:12	24°≈42'53	7.96607 AU
min. Earth dist.	-3188 Aug 16 j 07:39	27°≈27'08	8.11502 AU	direct	-3181 Jan 16 j 12:28	21°≈10'25	
direct	-3188 Oct 21 j 16:44	24°≈02'36		evening set	-3181 May 02 j 12:23	29°≈31'59	
	-3187 Jan 15 j 00:29	0°≈			-3181 May 06 j 03:40	0°≈	
evening set	-3187 Jan 31 j 04:32	2°≈00'52					
				conjunction	-3181 May 20 j 17:06	1°≈53'35	-1°-23'-57
conjunction	-3187 Feb 17 j 16:42	4°≈17'25	-1°-58'-6	minimum elong	-3181 May 20 j 17:09	1°≈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 09:30	1°♄58'56	10.00828 AU	minimum elong	-3175 Aug 09 j 11:46	20°♄33'24	1°36'48
morning rise	-3181 Jun 07 j 20:06	4°♄14'36		max. Earth dist.	-3175 Aug 09 j 16:19	20°♄34'46	10.81733 AU
retrograde	-3181 Sep 19 j 16:33	12°♄25'14		morning rise	-3175 Aug 26 j 12:24	22°♄35'02	
opposition	-3181 Nov 25 j 00:05	8°♄57'31	-1°-26'-30	retrograde	-3175 Dec 03 j 08:10	29°♄38'19	
min. Earth dist.	-3181 Nov 24 j 12:09	8°♄59'59	8.05833 AU	opposition	-3174 Feb 09 j 17:03	26°♄20'05	2°11'01
direct	-3180 Jan 31 j 08:20	5°♄27'43		min. Earth dist.	-3174 Feb 09 j 14:58	26°♄20'29	8.88199 AU
evening set	-3180 May 16 j 15:28	13°♄43'19		direct	-3174 Apr 21 j 17:55	22°♄55'56	
	-3180 May 26 j 16:01	15°♄		evening set	-3174 Aug 02 j 02:11	0°♄	
					-3174 Aug 04 j 12:23	0°♄16'48	
conjunction	-3180 Jun 03 j 19:10	16°♄02'50	0°-53'-31	conjunction	-3174 Aug 21 j 12:51	2°♄16'59	1°56'23
minimum elong	-3180 Jun 03 j 19:13	16°♄02'51	0°53'27	minimum elong	-3174 Aug 21 j 12:48	2°♄16'58	1°56'29
max. Earth dist.	-3180 Jun 04 j 10:49	16°♄07'53	10.11462 AU	max. Earth dist.	-3174 Aug 21 j 13:40	2°♄17'14	10.94171 AU
morning rise	-3180 Jun 21 j 20:00	18°♄21'24		morning rise	-3174 Sep 07 j 08:37	4°♄15'47	
retrograde	-3180 Oct 02 j 11:33	26°♄19'35		retrograde	-3174 Dec 14 j 22:28	11°♄12'31	
opposition	-3180 Dec 07 j 22:36	22°♄53'32	0°-46'-39	opposition	-3173 Feb 21 j 20:02	7°♄55'17	2°31'46
min. Earth dist.	-3180 Dec 07 j 11:30	22°♄55'48	8.17577 AU	min. Earth dist.	-3173 Feb 21 j 20:17	7°♄55'15	8.99830 AU
direct	-3179 Feb 13 j 23:16	19°♄24'10		direct	-3173 May 04 j 06:48	4°♄32'23	
evening set	-3179 May 31 j 08:48	27°♄31'50		evening set	-3173 Aug 16 j 09:21	11°♄45'39	
conjunction	-3179 Jun 18 j 09:58	29°♄48'33	0°-20'-43	conjunction	-3173 Sep 02 j 05:08	13°♄43'19	2°10'57
minimum elong	-3179 Jun 18 j 09:59	29°♄48'34	0°20'38	minimum elong	-3173 Sep 02 j 05:05	13°♄43'18	2°11'01
max. Earth dist.	-3179 Jun 18 j 23:45	29°♄52'55	10.24257 AU	max. Earth dist.	-3173 Sep 02 j 02:57	13°♄42'41	11.04760 AU
	-3179 Jun 19 j 22:00	0°♄			-3173 Sep 13 j 03:09	15°♄	
morning rise	-3179 Jul 06 j 07:20	2°♄04'02		morning rise	-3173 Sep 18 j 20:43	15°♄39'46	
retrograde	-3179 Oct 15 j 19:29	9°♄49'20		retrograde	-3173 Dec 26 j 10:57	22°♄31'42	
opposition	-3179 Dec 21 j 13:00	6°♄25'03	0°-5'-24	opposition	-3172 Mar 04 j 18:29	19°♄15'14	2°46'06
min. Earth dist.	-3179 Dec 21 j 02:54	6°♄27'05	8.31135 AU	min. Earth dist.	-3172 Mar 04 j 20:25	19°♄14'52	9.09400 AU
asc. node	-3178 Feb 09 j 15:21	3°♄14'32		direct	-3172 May 15 j 11:20	15°♄53'34	
direct	-3178 Feb 28 j 06:44	2°♄56'22		evening set	-3172 Aug 26 j 22:20	23°♄00'19	
evening set	-3178 Jun 14 j 14:33	10°♄54'51					
conjunction	-3178 Jul 02 j 11:54	13°♄08'19	0°12'23	conjunction	-3172 Sep 12 j 14:20	24°♄56'02	2°20'11
minimum elong	-3178 Jul 02 j 11:53	13°♄08'19	0°12'29	minimum elong	-3172 Sep 12 j 14:19	24°♄56'02	2°20'15
behind sun begin	-3178 Jul 02 j 07:16	13°♄06'53		max. Earth dist.	-3172 Sep 12 j 10:19	24°♄54'52	11.13125 AU
behind sun end	-3178 Jul 02 j 16:31	13°♄09'45		morning rise	-3172 Sep 29 j 02:31	26°♄50'42	
max. Earth dist.	-3178 Jul 02 j 23:33	13°♄11'57	10.38451 AU		-3172 Oct 28 j 16:54	0°♄	
morning rise	-3178 Jul 20 j 04:43	15°♄20'19		retrograde	-3171 Jan 05 j 19:56	3°♄39'35	
retrograde	-3178 Oct 28 j 17:43	22°♄53'13		opposition	-3171 Mar 16 j 13:54	0°♄23'36	2°53'54
opposition	-3177 Jan 03 j 19:21	19°♄30'38	0°34'42	min. Earth dist.	-3171 Mar 16 j 18:06	0°♄22'50	9.16574 AU
min. Earth dist.	-3177 Jan 03 j 10:15	19°♄32'27	8.45726 AU		-3171 Mar 21 j 22:22	30°♄	
direct	-3177 Mar 14 j 05:45	16°♄02'55		direct	-3171 May 27 j 08:28	27°♄03'05	
evening set	-3177 Jun 28 j 07:45	23°♄51'34		evening set	-3171 Jul 29 j 10:48	0°♄	
					-3171 Sep 07 j 05:11	4°♄04'37	
conjunction	-3177 Jul 16 j 00:22	26°♄01'32	0°43'49	conjunction	-3171 Sep 23 j 18:05	5°♄58'54	2°24'02
minimum elong	-3177 Jul 16 j 00:20	26°♄01'32	0°43'56	minimum elong	-3171 Sep 23 j 18:04	5°♄58'54	2°24'05
max. Earth dist.	-3177 Jul 16 j 10:01	26°♄04'31	10.53252 AU	max. Earth dist.	-3171 Sep 23 j 11:36	5°♄57'01	11.18981 AU
morning rise	-3177 Aug 02 j 11:54	28°♄09'55		morning rise	-3171 Oct 10 j 03:53	7°♄52'22	
	-3177 Aug 18 j 03:11	0°♄		retrograde	-3170 Jan 17 j 04:35	14°♄39'56	
retrograde	-3177 Nov 10 j 06:14	5°♄31'30		opposition	-3170 Mar 28 j 07:36	11°♄24'11	2°55'13
opposition	-3176 Jan 16 j 17:42	2°♄10'31	1°11'42	min. Earth dist.	-3170 Mar 28 j 14:37	11°♄22'54	9.21123 AU
min. Earth dist.	-3176 Jan 16 j 10:02	2°♄12'01	8.60567 AU	direct	-3170 Jun 08 j 02:15	8°♄04'40	
	-3176 Feb 15 j 22:35	30°♄		evening set	-3170 Sep 18 j 07:34	15°♄02'16	
direct	-3176 Mar 26 j 19:35	28°♄43'55					
	-3176 May 05 j 07:31	0°♄		conjunction	-3170 Oct 04 j 18:15	16°♄55'43	2°22'33
evening set	-3176 Jul 10 j 12:41	6°♄22'45		minimum elong	-3170 Oct 04 j 18:16	16°♄55'43	2°22'36
conjunction	-3176 Jul 28 j 00:03	8°♄29'12	1°12'16	max. Earth dist.	-3170 Oct 04 j 08:39	16°♄52'56	11.22158 AU
minimum elong	-3176 Jul 28 j 00:00	8°♄29'12	1°12'23	morning rise	-3170 Oct 21 j 02:54	18°♄48'36	
max. Earth dist.	-3176 Jul 28 j 07:43	8°♄31'32	10.67905 AU	retrograde	-3169 Jan 28 j 12:05	25°♄36'32	
morning rise	-3176 Aug 14 j 06:00	10°♄34'05		opposition	-3169 Apr 09 j 00:36	22°♄20'41	2°50'12
retrograde	-3176 Nov 21 j 11:14	17°♄45'41		min. Earth dist.	-3169 Apr 09 j 09:36	22°♄19'03	9.22913 AU
opposition	-3175 Jan 28 j 08:32	14°♄26'11	1°44'08	direct	-3169 Jun 19 j 15:59	19°♄01'59	
min. Earth dist.	-3175 Jan 28 j 03:30	14°♄27'10	8.74936 AU	evening set	-3169 Sep 29 j 07:02	25°♄57'03	
direct	-3175 Apr 08 j 23:21	11°♄00'47					
evening set	-3175 Jul 23 j 05:58	18°♄30'15		conjunction	-3169 Oct 15 j 16:40	27°♄50'14	2°15'53
conjunction	-3175 Aug 09 j 11:49	20°♄33'25	1°36'41	minimum elong	-3169 Oct 15 j 16:42	27°♄50'14	2°15'54
				max. Earth dist.	-3169 Oct 15 j 05:34	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 01:05	29°♄43'07		conjunction	-3163 Dec 20 j 22:57	5°♂56'13	0°06'02
	-3169 Nov 03 j 12:51	0°♄		minimum elong	-3163 Dec 20 j 22:58	5°♂56'14	0°05'57
retrograde	-3168 Feb 09 j 00:11	6°♄33'07		behind sun begin	-3163 Dec 20 j 16:14	5°♂54'12	
opposition	-3168 Apr 19 j 18:06	3°♄16'52	2°39'03	behind sun end	-3163 Dec 21 j 05:41	5°♂58'16	
min. Earth dist.	-3168 Apr 20 j 04:03	3°♄15'04	9.21869 AU	max. Earth dist.	-3163 Dec 20 j 09:27	5°♂52'07	10.71173 AU
	-3168 Jun 25 j 03:52	30°♄		morning rise	-3162 Jan 06 j 22:23	7°♂59'59	
direct	-3168 Jun 30 j 06:03	29°♄58'46		desc. node	-3162 Mar 04 j 20:09	13°♂45'12	
	-3168 Jul 05 j 06:50	0°♄		retrograde	-3162 Apr 21 j 21:28	15°♂35'29	
evening set	-3168 Oct 09 j 05:41	6°♄52'42		opposition	-3162 Jul 01 j 09:25	12°♂11'37	0°-11'-53
				min. Earth dist.	-3162 Jul 01 j 19:51	12°♂09'38	8.63695 AU
conjunction	-3168 Oct 25 j 15:14	8°♄46'13	2°04'15	direct	-3162 Sep 07 j 20:03	8°♂51'42	
minimum elong	-3168 Oct 25 j 15:16	8°♄46'14	2°04'13	evening set	-3162 Dec 16 j 12:28	16°♂11'44	
max. Earth dist.	-3168 Oct 25 j 03:25	8°♄42'47	11.20130 AU				
morning rise	-3168 Nov 11 j 00:12	10°♄39'39		conjunction	-3161 Jan 02 j 11:24	18°♂17'10	0°-24'-46
retrograde	-3167 Feb 19 j 15:05	17°♄33'20		minimum elong	-3161 Jan 02 j 11:23	18°♂17'10	0°24'53
opposition	-3167 May 01 j 13:25	14°♄16'25	2°22'04	max. Earth dist.	-3161 Jan 01 j 22:37	18°♂13'13	10.56239 AU
min. Earth dist.	-3167 May 02 j 00:14	14°♄14'27	9.18019 AU	morning rise	-3161 Jan 19 j 15:00	20°♂24'06	
direct	-3167 Jul 11 j 16:38	10°♄58'42		retrograde	-3161 May 05 j 10:45	28°♂11'46	
evening set	-3167 Oct 20 j 05:22	17°♄52'59		opposition	-3161 Jul 14 j 14:26	24°♂46'09	0°-50'00
				min. Earth dist.	-3161 Jul 14 j 23:40	24°♂44'22	8.48488 AU
conjunction	-3167 Nov 05 j 15:32	19°♄47'20	1°47'57	direct	-3161 Sep 20 j 10:44	21°♂25'01	
minimum elong	-3167 Nov 05 j 15:35	19°♄47'21	1°47'54	evening set	-3161 Dec 29 j 09:31	28°♂54'55	
max. Earth dist.	-3167 Nov 05 j 02:10	19°♄43'26	11.14975 AU		-3160 Jan 07 j 02:32	0°♂	
morning rise	-3167 Nov 22 j 02:08	21°♄41'54					
retrograde	-3166 Mar 03 j 10:20	28°♄40'54		conjunction	-3160 Jan 15 j 12:08	1°♂03'31	0°-55'-12
opposition	-3166 May 13 j 11:58	25°♄23'02	1°59'37	minimum elong	-3160 Jan 15 j 12:06	1°♂03'31	0°55'19
min. Earth dist.	-3166 May 14 j 00:10	25°♄20'48	9.11497 AU	max. Earth dist.	-3160 Jan 15 j 01:42	1°♂00'14	10.40947 AU
direct	-3166 Jul 23 j 04:55	22°♄05'25		morning rise	-3160 Feb 01 j 19:49	3°♂13'44	
evening set	-3166 Oct 31 j 07:48	29°♄01'35		retrograde	-3160 May 18 j 11:01	11°♂13'56	
	-3166 Nov 08 j 16:38	0°♄		opposition	-3160 Jul 27 j 03:45	7°♂46'35	-1°-26'-59
				min. Earth dist.	-3160 Jul 27 j 10:49	7°♂45'12	8.33358 AU
conjunction	-3166 Nov 16 j 19:21	0°♄57'18	1°27'22	direct	-3160 Oct 02 j 10:23	4°♂24'06	
minimum elong	-3166 Nov 16 j 19:24	0°♄57'19	1°27'18	evening set	-3159 Jan 10 j 19:31	12°♂04'46	
max. Earth dist.	-3166 Nov 16 j 04:45	0°♄53'00	11.07247 AU				
morning rise	-3166 Dec 03 j 08:29	2°♄53'31		conjunction	-3159 Jan 28 j 01:58	14°♂16'34	-1°-23'-42
retrograde	-3165 Mar 15 j 12:11	9°♄59'25		minimum elong	-3159 Jan 28 j 01:55	14°♂16'33	1°23'49
opposition	-3165 May 25 j 14:35	6°♄40'20	1°32'14	max. Earth dist.	-3159 Jan 27 j 19:21	14°♂14'27	10.26110 AU
min. Earth dist.	-3165 May 26 j 03:27	6°♄37'58	9.02497 AU	morning rise	-3159 Feb 14 j 13:34	16°♂30'04	
direct	-3165 Aug 03 j 20:24	3°♄22'32		retrograde	-3159 Jun 01 j 21:32	24°♂42'23	
evening set	-3165 Nov 11 j 15:02	10°♄22'11		opposition	-3159 Aug 10 j 01:05	21°♂13'26	-2°00'-36
				min. Earth dist.	-3159 Aug 10 j 04:51	21°♂12'40	8.19135 AU
conjunction	-3165 Nov 28 j 04:49	12°♄19'44	1°03'02	direct	-3159 Oct 15 j 18:43	17°♂49'28	
minimum elong	-3165 Nov 28 j 04:51	12°♄19'44	1°02'57	evening set	-3158 Jan 24 j 19:13	25°♂41'20	
max. Earth dist.	-3165 Nov 27 j 14:26	12°♄15'27	10.97161 AU				
morning rise	-3165 Dec 14 j 20:55	14°♄18'03		conjunction	-3158 Feb 11 j 05:34	27°♂56'14	-1°-48'-23
	-3165 Dec 20 j 22:12	15°♄		minimum elong	-3158 Feb 11 j 05:31	27°♂56'13	1°48'30
retrograde	-3164 Mar 26 j 20:55	21°♄32'23		max. Earth dist.	-3158 Feb 11 j 02:58	27°♂55'24	10.12578 AU
opposition	-3164 Jun 05 j 22:08	18°♄11'51	1°00'33		-3158 Feb 27 j 04:40	0°♄	
min. Earth dist.	-3164 Jun 06 j 10:32	18°♄09'33	8.91282 AU	morning rise	-3158 Feb 28 j 20:55	0°♄12'49	
	-3164 Aug 03 j 08:26	15°♄		retrograde	-3158 Jun 16 j 16:35	8°♄35'51	
direct	-3164 Aug 14 j 15:30	14°♄53'35		opposition	-3158 Aug 24 j 05:38	5°♄05'33	-2°-28'-24
	-3164 Aug 25 j 20:28	15°♄		min. Earth dist.	-3158 Aug 24 j 05:55	5°♄05'30	8.06644 AU
evening set	-3164 Nov 22 j 04:56	21°♄58'22		direct	-3158 Oct 29 j 12:42	1°♄40'06	
				evening set	-3157 Feb 08 j 08:03	9°♄42'51	
conjunction	-3164 Dec 08 j 21:28	23°♄58'12	0°35'37				
minimum elong	-3164 Dec 08 j 21:29	23°♄58'12	0°35'32	conjunction	-3157 Feb 25 j 22:16	12°♄00'37	-2°-7'-21
max. Earth dist.	-3164 Dec 08 j 07:50	23°♄54'06	10.85005 AU	minimum elong	-3157 Feb 25 j 22:13	12°♄00'36	2°07'27
morning rise	-3164 Dec 25 j 16:58	25°♄59'02		max. Earth dist.	-3157 Feb 25 j 23:37	12°♄01'03	10.01169 AU
	-3163 Jan 31 j 22:00	0°♄		morning rise	-3157 Mar 15 j 17:08	14°♄19'55	
retrograde	-3163 Apr 08 j 16:22	3°♄23'18			-3157 Mar 20 j 22:37	15°♄	
opposition	-3163 Jun 18 j 12:08	0°♄01'09	0°25'27	retrograde	-3157 Jul 01 j 17:15	22°♄51'16	
	-3163 Jun 18 j 18:12	30°♄		opposition	-3157 Sep 07 j 16:22	19°♄20'00	-2°-47'-56
min. Earth dist.	-3163 Jun 18 j 23:25	29°♄59'01	8.78187 AU	min. Earth dist.	-3157 Sep 07 j 13:22	19°♄20'37	7.96653 AU
direct	-3163 Aug 26 j 15:32	26°♄42'11		direct	-3157 Nov 12 j 16:07	15°♄53'05	
	-3163 Oct 29 j 13:15	0°♄		evening set	-3156 Feb 23 j 08:12	24°♄05'30	
evening set	-3163 Dec 04 j 03:23	3°♄53'44					
				conjunction	-3156 Mar 12 j 02:10	26°♄25'41	-2°-18'-51

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

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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 12:50	30°R☉		opposition	-3138 Apr 26 j 12:44	9°♃28'01	2°30'33
direct	-3144 Apr 27 j 19:11	29°♃22'26		min. Earth dist.	-3138 Apr 27 j 01:05	9°♃25'46	9.19320 AU
	-3144 May 25 j 20:17	0°♃		direct	-3138 Jul 06 j 19:24	6°♃09'57	
evening set	-3144 Aug 10 j 06:16	6°♃39'27		evening set	-3138 Oct 15 j 14:23	13°♃04'18	
				max. Earth dist.	-3138 Oct 31 j 09:54	14°♃54'08	11.16675 AU
conjunction	-3144 Aug 27 j 04:22	8°♃38'17	2°04'40				
minimum elong	-3144 Aug 27 j 04:20	8°♃38'16	2°04'44	conjunction	-3138 Nov 01 j 00:10	14°♃58'18	1°55'58
max. Earth dist.	-3144 Aug 27 j 04:58	8°♃38'27	11.00537 AU	minimum elong	-3138 Nov 01 j 00:13	14°♃58'19	1°55'56
morning rise	-3144 Sep 12 j 21:45	10°♃35'47		morning rise	-3138 Nov 17 j 10:05	16°♃52'24	
	-3144 Oct 25 j 19:06	15°♃		retrograde	-3137 Feb 26 j 08:51	23°♃49'05	
retrograde	-3144 Dec 20 j 13:24	17°♃30'00		opposition	-3137 May 08 j 09:47	20°♃31'23	2°10'35
	-3143 Feb 17 j 03:18	15°R♃		min. Earth dist.	-3137 May 08 j 22:23	20°♃29'05	9.13625 AU
opposition	-3143 Feb 27 j 14:22	14°♃13'40	2°40'03	direct	-3137 Jul 18 j 09:17	17°♃13'21	
min. Earth dist.	-3143 Feb 27 j 15:47	14°♃13'24	9.05743 AU	evening set	-3137 Oct 26 j 15:24	24°♃08'53	
direct	-3143 May 10 j 02:39	10°♃51'54					
	-3143 Jul 24 j 19:57	15°♃		conjunction	-3137 Nov 12 j 02:27	26°♃04'04	1°37'18
evening set	-3143 Aug 21 j 23:39	18°♃01'50		minimum elong	-3137 Nov 12 j 02:30	26°♃04'04	1°37'16
				max. Earth dist.	-3137 Nov 11 j 12:12	25°♃59'53	11.09733 AU
conjunction	-3143 Sep 07 j 17:17	19°♃58'24	2°16'26	morning rise	-3137 Nov 28 j 14:18	27°♃59'35	
minimum elong	-3143 Sep 07 j 17:15	19°♃58'24	2°16'29		-3137 Dec 16 j 15:44	0°♃	
max. Earth dist.	-3143 Sep 07 j 13:35	19°♃57'19	11.10074 AU	retrograde	-3136 Mar 09 j 09:02	5°♃02'28	
morning rise	-3143 Sep 24 j 07:00	21°♃53'51		opposition	-3136 May 19 j 10:24	1°♃43'31	1°45'25
retrograde	-3143 Dec 31 j 22:26	28°♃44'08		min. Earth dist.	-3136 May 19 j 23:00	1°♃41'11	9.05383 AU
opposition	-3142 Mar 11 j 11:44	25°♃28'24	2°50'55		-3136 Jun 13 j 01:40	30°R♃	
min. Earth dist.	-3142 Mar 11 j 15:58	25°♃27'37	9.14071 AU	direct	-3136 Jul 28 j 22:56	28°♃25'18	
direct	-3142 May 22 j 04:12	22°♃07'46			-3136 Sep 11 j 06:07	0°♃	
evening set	-3142 Sep 02 j 09:43	29°♃11'52		evening set	-3136 Nov 05 j 20:16	5°♃23'37	
	-3142 Sep 09 j 09:44	0°♃					
conjunction	-3142 Sep 18 j 23:52	1°♃06'45	2°22'48	conjunction	-3136 Nov 22 j 09:03	7°♃20'25	1°14'38
minimum elong	-3142 Sep 18 j 23:51	1°♃06'45	2°22'51	minimum elong	-3136 Nov 22 j 09:06	7°♃20'26	1°14'34
max. Earth dist.	-3142 Sep 18 j 17:08	1°♃04'47	11.17023 AU	max. Earth dist.	-3136 Nov 21 j 18:06	7°♃15'59	11.00378 AU
morning rise	-3142 Oct 05 j 10:48	3°♃00'44		morning rise	-3136 Dec 08 j 23:40	9°♃17'52	
retrograde	-3141 Jan 12 j 08:19	9°♃48'57			-3135 Feb 06 j 07:53	15°♃	
opposition	-3141 Mar 23 j 06:34	6°♃33'30	2°55'15	retrograde	-3135 Mar 21 j 13:54	16°♃28'34	
min. Earth dist.	-3141 Mar 23 j 12:44	6°♃32'22	9.19670 AU		-3135 May 04 j 23:59	15°R♃	
direct	-3141 Jun 03 j 02:01	3°♃13'51		opposition	-3135 May 31 j 15:47	13°♃08'10	1°15'37
evening set	-3141 Sep 13 j 14:30	10°♃13'26		min. Earth dist.	-3135 Jun 01 j 04:39	13°♃05'46	8.94879 AU
				direct	-3135 Aug 09 j 14:53	9°♃49'32	
conjunction	-3141 Sep 30 j 02:15	12°♃07'15	2°23'48		-3135 Oct 31 j 19:51	15°♃	
minimum elong	-3141 Sep 30 j 02:15	12°♃07'15	2°23'50	evening set	-3135 Nov 17 j 06:55	16°♃52'17	
max. Earth dist.	-3141 Sep 29 j 17:43	12°♃04'47	11.21191 AU				
morning rise	-3141 Oct 16 j 11:18	14°♃00'22		conjunction	-3135 Dec 03 j 22:04	18°♃51'12	0°48'32
retrograde	-3140 Jan 23 j 17:23	20°♃48'13		minimum elong	-3135 Dec 03 j 22:05	18°♃51'12	0°48'28
opposition	-3140 Apr 03 j 00:04	17°♃32'42	2°53'11	max. Earth dist.	-3135 Dec 03 j 06:44	18°♃46'36	10.88940 AU
min. Earth dist.	-3140 Apr 03 j 08:16	17°♃31'12	9.22418 AU	morning rise	-3135 Dec 20 j 16:07	20°♃51'01	
direct	-3140 Jun 13 j 17:18	14°♃13'50		retrograde	-3134 Apr 03 j 04:01	28°♃11'02	
evening set	-3140 Sep 23 j 15:47	21°♃10'16		opposition	-3134 Jun 13 j 02:58	24°♃49'03	0°41'57
				min. Earth dist.	-3134 Jun 13 j 15:41	24°♃46'39	8.82493 AU
conjunction	-3140 Oct 10 j 01:57	23°♃03'35	2°19'31	direct	-3134 Aug 21 j 13:01	21°♃29'47	
minimum elong	-3140 Oct 10 j 01:58	23°♃03'35	2°19'32	evening set	-3134 Nov 29 j 01:09	28°♃38'36	
max. Earth dist.	-3140 Oct 09 j 15:00	23°♃00'25	11.22507 AU		-3134 Dec 10 j 07:44	0°♃♂	
morning rise	-3140 Oct 26 j 10:15	24°♃56'27		conjunction	-3134 Dec 15 j 19:20	0°♃♂40'01	0°19'48
	-3140 Dec 17 j 19:56	0°♃		minimum elong	-3134 Dec 15 j 19:20	0°♃♂40'01	0°19'43
retrograde	-3139 Feb 03 j 03:54	1°♃45'35		max. Earth dist.	-3134 Dec 15 j 05:25	0°♃♂35'47	10.75816 AU
	-3139 Mar 24 j 05:49	30°R♃		morning rise	-3133 Jan 01 j 17:06	2°♃♂42'36	
opposition	-3139 Apr 14 j 17:48	28°♃29'41	2°44'51	retrograde	-3133 Apr 16 j 03:29	10°♃♂13'18	
min. Earth dist.	-3139 Apr 15 j 04:30	28°♃27'44	9.22288 AU	opposition	-3133 Jun 25 j 20:50	6°♃♂49'37	0°05'26
direct	-3139 Jun 25 j 06:59	25°♃11'20		min. Earth dist.	-3133 Jun 26 j 08:01	6°♃♂47'29	8.68674 AU
	-3139 Sep 15 j 09:51	0°♃		desc. node	-3133 Aug 19 j 11:19	3°♃♂39'59	
evening set	-3139 Oct 04 j 15:08	2°♃06'00		direct	-3133 Sep 02 j 16:00	3°♃♂29'32	
max. Earth dist.	-3139 Oct 20 j 11:08	3°♃55'29	11.20978 AU	evening set	-3133 Dec 11 j 05:06	10°♃♂46'02	
conjunction	-3139 Oct 21 j 00:33	3°♃59'23	2°10'09	conjunction	-3133 Dec 28 j 02:38	12°♃♂50'16	0°-10'-38
minimum elong	-3139 Oct 21 j 00:35	3°♃59'23	2°10'09	minimum elong	-3133 Dec 28 j 02:37	12°♃♂50'16	0°10'45
morning rise	-3139 Nov 06 j 09:15	5°♃52'35		behind sun begin	-3133 Dec 27 j 21:10	12°♃♂48'36	
retrograde	-3138 Feb 14 j 15:28	12°♃44'40		behind sun end	-3133 Dec 28 j 08:04	12°♃♂51'56	

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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 14:48	12° ♁ 46'38	10.61496 AU		-3126 Feb 12 j 22:34	0° ♁	
morning rise	-3132 Jan 14 j 04:14	14° ♁ 55'52		evening set	-3126 Mar 03 j 01:39	2° ♁ 17'16	
retrograde	-3132 Apr 28 j 12:49	22° ♁ 38'20					
opposition	-3132 Jul 07 j 22:09	19° ♁ 12'56	0°-32'-33	conjunction	-3126 Mar 20 j 21:41	4° ♁ 38'27	-2°-21'-24
min. Earth dist.	-3132 Jul 08 j 06:59	19° ♁ 11'14	8.53983 AU	minimum elong	-3126 Mar 20 j 21:41	4° ♁ 38'27	2°21'27
direct	-3132 Sep 14 j 02:47	15° ♁ 51'52		max. Earth dist.	-3126 Mar 21 j 06:30	4° ♁ 41'23	9.90151 AU
evening set	-3132 Dec 22 j 20:24	23° ♁ 17'31		morning rise	-3126 Apr 07 j 21:17	7° ♁ 00'49	
				retrograde	-3126 Jul 24 j 13:02	15° ♁ 38'05	
conjunction	-3131 Jan 08 j 21:25	25° ♁ 24'48	0°-41'-23	opposition	-3126 Sep 29 j 17:24	12° ♁ 06'41	-2°-57'-17
minimum elong	-3131 Jan 08 j 21:23	25° ♁ 24'47	0°41'30	min. Earth dist.	-3126 Sep 29 j 09:17	12° ♁ 08'22	7.88550 AU
max. Earth dist.	-3131 Jan 08 j 11:41	25° ♁ 21'45	10.46606 AU	direct	-3126 Dec 04 j 13:22	8° ♁ 38'23	
morning rise	-3131 Jan 26 j 03:05	27° ♁ 33'36		evening set	-3125 Mar 18 j 14:24	17° ♁ 01'00	
	-3131 Feb 15 j 18:34	0° ♁					
retrograde	-3131 May 12 j 10:05	5° ♁ 28'27		conjunction	-3125 Apr 05 j 13:54	19° ♁ 23'35	-2°-19'-10
opposition	-3131 Jul 21 j 07:43	2° ♁ 01'24	-1°-10'-20	minimum elong	-3125 Apr 05 j 13:56	19° ♁ 23'35	2°19'12
min. Earth dist.	-3131 Jul 21 j 14:02	2° ♁ 00'10	8.39097 AU	max. Earth dist.	-3125 Apr 06 j 02:20	19° ♁ 27'43	9.87466 AU
	-3131 Aug 17 j 23:37	30° ♁		morning rise	-3125 Apr 23 j 15:48	21° ♁ 46'57	
direct	-3131 Sep 26 j 20:32	28° ♁ 39'12			-3125 Jul 19 j 14:26	0° ♁	
	-3131 Nov 04 j 16:46	0° ♁		retrograde	-3125 Aug 08 j 16:26	0° ♁ 22'40	
evening set	-3130 Jan 05 j 00:21	6° ♁ 15'07			-3125 Aug 28 j 18:49	30° ♁	
				opposition	-3125 Oct 14 j 10:39	26° ♁ 51'34	-2°-48'-42
conjunction	-3130 Jan 22 j 04:58	8° ♁ 25'33	-1°-10'-59	min. Earth dist.	-3125 Oct 14 j 00:15	26° ♁ 53'45	7.87747 AU
minimum elong	-3130 Jan 22 j 04:56	8° ♁ 25'32	1°11'07	direct	-3125 Dec 19 j 09:44	23° ♁ 22'26	
max. Earth dist.	-3130 Jan 21 j 21:20	8° ♁ 23'07	10.31864 AU		-3124 Mar 19 j 03:11	0° ♁	
morning rise	-3130 Feb 08 j 14:47	10° ♁ 37'40		evening set	-3124 Apr 02 j 06:03	1° ♁ 47'43	
retrograde	-3130 May 26 j 16:53	18° ♁ 44'49					
opposition	-3130 Aug 04 j 01:32	15° ♁ 16'16	-1°-45'-47	conjunction	-3124 Apr 20 j 08:22	4° ♁ 10'50	-2°-7'-50
min. Earth dist.	-3130 Aug 04 j 05:36	15° ♁ 15'28	8.24769 AU	minimum elong	-3124 Apr 20 j 08:25	4° ♁ 10'51	2°07'50
direct	-3130 Oct 09 j 23:37	11° ♁ 52'48		max. Earth dist.	-3124 Apr 20 j 23:13	4° ♁ 15'46	9.88565 AU
evening set	-3129 Jan 18 j 17:54	19° ♁ 39'47		morning rise	-3124 May 08 j 11:48	6° ♁ 34'18	
				retrograde	-3124 Aug 22 j 14:53	15° ♁ 04'27	
conjunction	-3129 Feb 05 j 02:17	21° ♁ 53'19	-1°-37'-39	opposition	-3124 Oct 28 j 01:58	11° ♁ 34'05	-2°-29'-3
minimum elong	-3129 Feb 05 j 02:14	21° ♁ 53'18	1°37'46	min. Earth dist.	-3124 Oct 27 j 14:30	11° ♁ 36'29	7.90630 AU
max. Earth dist.	-3129 Feb 04 j 21:47	21° ♁ 51'52	10.18053 AU	direct	-3123 Jan 02 j 09:10	8° ♁ 04'22	
morning rise	-3129 Feb 22 j 16:01	24° ♁ 08'36		evening set	-3123 Apr 17 j 21:01	16° ♁ 29'07	
	-3129 Apr 17 j 00:09	0° ♁					
retrograde	-3129 Jun 10 j 07:52	2° ♁ 27'07		conjunction	-3123 May 06 j 01:09	18° ♁ 51'53	-1°-48'-15
	-3129 Aug 04 j 23:55	30° ♁		minimum elong	-3123 May 06 j 01:13	18° ♁ 51'54	1°48'14
opposition	-3129 Aug 18 j 02:58	28° ♁ 57'20	-2°-16'-32	max. Earth dist.	-3123 May 06 j 16:49	18° ♁ 57'02	9.93246 AU
min. Earth dist.	-3129 Aug 18 j 04:32	28° ♁ 57'01	8.11802 AU	morning rise	-3123 May 24 j 05:04	21° ♁ 14'32	
direct	-3129 Oct 23 j 13:48	25° ♁ 32'33		retrograde	-3123 Sep 06 j 05:09	29° ♁ 35'50	
	-3128 Jan 03 j 21:53	0° ♁		opposition	-3123 Nov 11 j 13:02	26° ♁ 06'40	-1°-59'-58
evening set	-3128 Feb 02 j 00:49	3° ♁ 30'37		min. Earth dist.	-3123 Nov 11 j 01:34	26° ♁ 09'03	7.96877 AU
				direct	-3122 Jan 17 j 07:57	22° ♁ 36'42	
conjunction	-3128 Feb 19 j 13:05	5° ♁ 47'07	-1°-59'-27		-3122 Apr 25 j 15:48	0° ♁	
minimum elong	-3128 Feb 19 j 13:02	5° ♁ 47'06	1°59'34	evening set	-3122 May 03 j 07:35	0° ♁ 58'05	
max. Earth dist.	-3128 Feb 19 j 12:44	5° ♁ 47'00	10.05994 AU				
morning rise	-3128 Mar 08 j 06:28	8° ♁ 05'16		conjunction	-3122 May 21 j 12:12	3° ♁ 19'37	-1°-22'-4
	-3128 May 12 j 20:58	15° ♁		minimum elong	-3122 May 21 j 12:16	3° ♁ 19'38	1°22'01
retrograde	-3128 Jun 24 j 05:13	16° ♁ 33'18		max. Earth dist.	-3122 May 22 j 03:29	3° ♁ 24'36	10.01092 AU
	-3128 Aug 06 j 01:48	15° ♁		morning rise	-3122 Jun 08 j 15:18	5° ♁ 40'36	
opposition	-3128 Aug 31 j 11:21	13° ♁ 02'34	-2°-40'-5	retrograde	-3122 Sep 20 j 10:13	13° ♁ 50'52	
min. Earth dist.	-3128 Aug 31 j 09:46	13° ♁ 02'54	8.00996 AU	opposition	-3122 Nov 25 j 18:29	10° ♁ 23'13	-1°-23'-57
direct	-3128 Nov 05 j 14:13	9° ♁ 36'31		min. Earth dist.	-3122 Nov 25 j 07:24	10° ♁ 25'30	8.06065 AU
	-3127 Jan 24 j 17:15	15° ♁		direct	-3121 Feb 01 j 03:39	6° ♁ 53'24	
evening set	-3127 Feb 15 j 20:00	17° ♁ 44'47			-3121 May 17 j 06:16	15° ♁	
				evening set	-3121 May 18 j 10:31	15° ♁ 08'54	
conjunction	-3127 Mar 05 j 12:13	20° ♁ 03'54	-2°-14'-32				
minimum elong	-3127 Mar 05 j 12:11	20° ♁ 03'53	2°14'37	conjunction	-3121 Jun 05 j 14:06	17° ♁ 28'22	0°-51'-21
max. Earth dist.	-3127 Mar 05 j 16:33	20° ♁ 05'20	9.96474 AU	minimum elong	-3121 Jun 05 j 14:08	17° ♁ 28'23	0°51'18
morning rise	-3127 Mar 23 j 08:54	22° ♁ 24'28		max. Earth dist.	-3121 Jun 06 j 04:26	17° ♁ 32'59	10.11643 AU
	-3127 Jun 06 j 05:05	0° ♁		morning rise	-3121 Jun 23 j 14:57	19° ♁ 46'53	
retrograde	-3127 Jul 09 j 08:06	0° ♁ 59'03		retrograde	-3121 Oct 04 j 05:20	27° ♁ 44'53	
	-3127 Aug 11 j 16:14	30° ♁		opposition	-3121 Dec 09 j 16:54	24° ♁ 18'54	0°-43'-51
opposition	-3127 Sep 15 j 00:55	27° ♁ 27'46	-2°-54'-13	min. Earth dist.	-3121 Dec 09 j 06:03	24° ♁ 21'07	8.17700 AU
min. Earth dist.	-3127 Sep 14 j 19:57	27° ♁ 28'48	7.93065 AU	direct	-3120 Feb 15 j 18:07	20° ♁ 49'33	
direct	-3127 Nov 19 j 22:14	24° ♁ 00'31		evening set	-3120 Jun 01 j 03:39	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 11:46	0°♄		evening set	-3114 Aug 17 j 05:28	13°♄15'25	
					-3114 Sep 01 j 04:28	15°♄	
conjunction	-3120 Jun 19 j 04:45	1°♄13'57	0°-18'-25				
minimum elong	-3120 Jun 19 j 04:46	1°♄13'57	0°18'21	conjunction	-3114 Sep 03 j 01:12	15°♄13'09	2°11'58
max. Earth dist.	-3120 Jun 19 j 17:54	1°♄18'07	10.24314 AU	minimum elong	-3114 Sep 03 j 01:10	15°♄13'08	2°12'02
morning rise	-3120 Jul 07 j 02:03	3°♄29'24		max. Earth dist.	-3114 Sep 02 j 23:52	15°♄12'45	11.04205 AU
retrograde	-3120 Oct 16 j 13:59	11°♄14'42		morning rise	-3114 Sep 19 j 16:33	17°♄09'39	
opposition	-3120 Dec 22 j 07:21	7°♄50'28	0°-2'-32	retrograde	-3114 Dec 27 j 07:28	24°♄02'03	
min. Earth dist.	-3120 Dec 21 j 21:01	7°♄52'33	8.31125 AU	opposition	-3113 Mar 06 j 15:16	20°♄45'32	2°47'05
asc. node	-3119 Jan 14 j 18:00	6°♄02'51		min. Earth dist.	-3113 Mar 06 j 17:02	20°♄45'13	9.08823 AU
direct	-3119 Mar 01 j 01:36	4°♄21'50		direct	-3113 May 17 j 06:54	17°♄23'54	
evening set	-3119 Jun 15 j 09:24	12°♄20'27		evening set	-3113 Aug 28 j 18:40	24°♄30'58	
conjunction	-3119 Jul 03 j 06:45	14°♄33'56	0°14'42	conjunction	-3113 Sep 14 j 10:32	26°♄26'43	2°20'45
minimum elong	-3119 Jul 03 j 06:44	14°♄33'56	0°14'48	minimum elong	-3113 Sep 14 j 10:31	26°♄26'43	2°20'48
behind sun begin	-3119 Jul 03 j 04:02	14°♄33'06		max. Earth dist.	-3113 Sep 14 j 06:46	26°♄25'37	11.12533 AU
behind sun end	-3119 Jul 03 j 09:25	14°♄34'46		morning rise	-3113 Sep 30 j 22:35	28°♄21'27	
max. Earth dist.	-3119 Jul 03 j 18:30	14°♄37'36	10.38372 AU		-3113 Oct 15 j 17:25	0°♄	
morning rise	-3119 Jul 20 j 23:22	16°♄45'56		retrograde	-3112 Jan 07 j 17:50	5°♄10'47	
retrograde	-3119 Oct 29 j 12:18	24°♄19'00		opposition	-3112 Mar 17 j 11:08	1°♄54'45	2°54'18
opposition	-3118 Jan 04 j 13:54	20°♄56'28	0°37'32	min. Earth dist.	-3112 Mar 17 j 15:46	1°♄53'54	9.15980 AU
min. Earth dist.	-3118 Jan 04 j 04:43	20°♄58'18	8.45577 AU		-3112 Apr 14 j 03:24	30°♄	
direct	-3118 Mar 15 j 00:37	17°♄28'48		direct	-3112 May 28 j 05:26	28°♄34'13	
evening set	-3118 Jun 29 j 02:53	25°♄17'44			-3112 Jul 10 j 07:57	0°♄	
				evening set	-3112 Sep 08 j 01:46	5°♄36'00	
conjunction	-3118 Jul 16 j 19:25	27°♄27'43	0°46'03	conjunction	-3112 Sep 24 j 14:29	7°♄30'21	2°24'07
minimum elong	-3118 Jul 16 j 19:23	27°♄27'42	0°46'10	minimum elong	-3112 Sep 24 j 14:29	7°♄30'21	2°24'09
max. Earth dist.	-3118 Jul 17 j 05:25	27°♄30'48	10.53035 AU	max. Earth dist.	-3112 Sep 24 j 07:27	7°♄28'19	11.18385 AU
morning rise	-3118 Aug 03 j 06:40	29°♄36'06		morning rise	-3112 Oct 11 j 00:21	9°♄23'54	
	-3118 Aug 06 j 14:17	0°♄		retrograde	-3111 Jan 18 j 00:23	16°♄11'51	
retrograde	-3118 Nov 11 j 02:24	6°♄57'57		opposition	-3111 Mar 29 j 04:58	12°♄56'01	2°55'02
opposition	-3117 Jan 17 j 12:40	3°♄37'03	1°14'22	min. Earth dist.	-3111 Mar 29 j 12:00	12°♄54'44	9.20536 AU
min. Earth dist.	-3117 Jan 17 j 05:38	3°♄38'26	8.60291 AU	direct	-3111 Jun 08 j 22:46	9°♄36'27	
direct	-3117 Mar 28 j 13:31	0°♄10'30		evening set	-3111 Sep 19 j 04:15	16°♄34'18	
evening set	-3117 Jul 12 j 08:07	7°♄49'41					
conjunction	-3117 Jul 29 j 19:15	9°♄56'11	1°14'19	conjunction	-3111 Oct 05 j 14:56	18°♄27'48	2°22'08
minimum elong	-3117 Jul 29 j 19:12	9°♄56'10	1°14'26	minimum elong	-3111 Oct 05 j 14:57	18°♄27'48	2°22'10
max. Earth dist.	-3117 Jul 30 j 02:33	9°♄58'24	10.67569 AU	max. Earth dist.	-3111 Oct 05 j 05:42	18°♄25'07	11.21581 AU
morning rise	-3117 Aug 16 j 01:00	12°♄01'04		morning rise	-3111 Oct 21 j 23:37	20°♄20'45	
retrograde	-3117 Nov 23 j 06:51	19°♄13'02		retrograde	-3110 Jan 29 j 10:09	27°♄09'05	
opposition	-3116 Jan 30 j 04:02	15°♄53'36	1°46'30	opposition	-3110 Apr 09 j 22:14	23°♄53'07	2°49'24
min. Earth dist.	-3116 Jan 29 j 23:45	15°♄54'26	8.74562 AU	min. Earth dist.	-3110 Apr 10 j 06:19	23°♄51'39	9.22346 AU
direct	-3116 Apr 09 j 17:35	12°♄28'14		direct	-3110 Jun 20 j 14:50	20°♄34'22	
evening set	-3116 Jul 24 j 01:35	19°♄58'07		evening set	-3110 Sep 30 j 03:48	27°♄29'35	
conjunction	-3116 Aug 10 j 07:08	22°♄01'18	1°38'28	conjunction	-3110 Oct 16 j 13:33	29°♄22'51	2°14'59
minimum elong	-3116 Aug 10 j 07:05	22°♄01'17	1°38'34	minimum elong	-3110 Oct 16 j 13:35	29°♄22'52	2°14'59
max. Earth dist.	-3116 Aug 10 j 10:42	22°♄02'22	10.81308 AU	max. Earth dist.	-3110 Oct 16 j 03:33	29°♄19'57	11.22006 AU
morning rise	-3116 Aug 27 j 07:39	24°♄02'59			-3110 Oct 21 j 21:46	0°♄	
	-3116 Oct 29 j 02:04	0°♄		morning rise	-3110 Nov 01 j 21:55	1°♄15'48	
retrograde	-3116 Dec 04 j 03:03	1°♄06'42		retrograde	-3109 Feb 09 j 22:14	8°♄06'08	
	-3115 Jan 09 j 23:52	30°♄		opposition	-3109 Apr 21 j 16:03	4°♄49'46	2°37'41
opposition	-3115 Feb 10 j 12:53	27°♄48'29	2°13'00	min. Earth dist.	-3109 Apr 22 j 01:20	4°♄48'05	9.21345 AU
min. Earth dist.	-3115 Feb 10 j 10:49	27°♄48'53	8.87743 AU	direct	-3109 Jul 02 j 02:34	1°♄31'39	
direct	-3115 Apr 22 j 14:59	24°♄24'21		evening set	-3109 Oct 11 j 02:39	8°♄25'40	
	-3115 Jul 20 j 17:52	0°♄					
evening set	-3115 Aug 05 j 08:17	1°♄45'39		conjunction	-3109 Oct 27 j 12:15	10°♄19'15	2°02'53
				minimum elong	-3109 Oct 27 j 12:18	10°♄19'15	2°02'52
conjunction	-3115 Aug 22 j 08:35	3°♄45'52	1°57'48	max. Earth dist.	-3109 Oct 27 j 00:35	10°♄15'51	11.19643 AU
minimum elong	-3115 Aug 22 j 08:32	3°♄45'51	1°57'53	morning rise	-3109 Nov 12 j 21:23	12°♄12'47	
max. Earth dist.	-3115 Aug 22 j 09:09	3°♄46'02	10.93674 AU	retrograde	-3108 Feb 21 j 12:33	19°♄06'43	
morning rise	-3115 Sep 08 j 04:13	5°♄44'42		opposition	-3108 May 02 j 11:33	15°♄49'42	2°20'09
retrograde	-3115 Dec 15 j 19:33	12°♄41'54		min. Earth dist.	-3108 May 02 j 22:34	15°♄47'41	9.17566 AU
opposition	-3114 Feb 22 j 16:13	9°♄24'40	2°33'17	direct	-3108 Jul 12 j 13:59	12°♄31'55	
min. Earth dist.	-3114 Feb 22 j 15:49	9°♄24'44	8.99302 AU	evening set	-3108 Oct 21 j 02:30	19°♄26'17	
direct	-3114 May 05 j 02:51	6°♄01'48					

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

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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 04:37	27° κ 20'37	-2°-14'-29	min. Earth dist.	-3090 Dec 29 j 07:02	15° π 01'03	8.37658 AU
minimum elong	-3095 Apr 13 j 04:40	27° κ 20'38	2°14'30	direct	-3089 Mar 08 j 19:10	11° π 30'41	
max. Earth dist.	-3095 Apr 13 j 15:58	27° κ 24'23	9.86733 AU	evening set	-3089 Jun 23 j 00:26	19° π 24'37	
morning rise	-3095 May 01 j 07:38	29° κ 44'14					
	-3095 May 03 j 08:11	0° γ		conjunction	-3089 Jul 10 j 19:19	21° π 36'23	0°31'17
retrograde	-3095 Aug 15 j 20:42	8° γ 17'44		minimum elong	-3089 Jul 10 j 19:17	21° π 36'23	0°31'24
opposition	-3095 Oct 21 j 12:00	4° γ 46'29	-2°-39'-59	max. Earth dist.	-3089 Jul 11 j 06:25	21° π 39'50	10.45233 AU
min. Earth dist.	-3095 Oct 21 j 02:23	4° γ 48'30	7.87681 AU	morning rise	-3089 Jul 28 j 09:26	23° π 46'38	
direct	-3095 Dec 26 j 16:46	1° γ 16'28			-3089 Sep 29 j 05:26	0° ε	
evening set	-3094 Apr 10 j 19:11	9° γ 42'13		retrograde	-3089 Nov 05 j 12:53	1° ε 14'02	
					-3089 Dec 13 j 12:52	30° ρ π	
conjunction	-3094 Apr 28 j 22:41	12° γ 05'26	-1°-58'-42	opposition	-3088 Jan 11 j 19:20	27° π 52'15	0°57'11
minimum elong	-3094 Apr 28 j 22:45	12° γ 05'27	1°58'42	min. Earth dist.	-3088 Jan 11 j 10:50	27° π 53'55	8.52681 AU
max. Earth dist.	-3094 Apr 29 j 12:45	12° γ 10'05	9.89226 AU	direct	-3088 Mar 21 j 13:17	24° π 25'03	
morning rise	-3094 May 17 j 02:42	14° γ 28'46			-3088 Jun 16 j 22:05	0° ε	
retrograde	-3094 Aug 30 j 14:21	22° γ 55'13		evening set	-3088 Jul 05 j 11:47	2° ε 09'12	
opposition	-3094 Nov 05 j 01:17	19° γ 24'54	-2°-15'-9				
min. Earth dist.	-3094 Nov 04 j 13:54	19° γ 27'16	7.91981 AU	conjunction	-3088 Jul 23 j 01:34	4° ε 17'27	1°01'13
direct	-3093 Jan 10 j 15:18	15° γ 54'27		minimum elong	-3088 Jul 23 j 01:31	4° ε 17'26	1°01'20
evening set	-3093 Apr 26 j 08:15	24° γ 18'20		max. Earth dist.	-3088 Jul 23 j 10:14	4° ε 20'06	10.60269 AU
				morning rise	-3088 Aug 09 j 10:13	6° ε 24'05	
conjunction	-3093 May 14 j 13:01	26° γ 40'48	-1°-35'-27	retrograde	-3088 Nov 16 j 21:51	13° ε 40'54	
minimum elong	-3093 May 14 j 13:05	26° γ 40'49	1°35'25	opposition	-3087 Jan 23 j 14:12	10° ε 20'50	1°31'45
max. Earth dist.	-3093 May 15 j 04:50	26° γ 46'00	9.95377 AU	min. Earth dist.	-3087 Jan 23 j 07:10	10° ε 22'12	8.67596 AU
morning rise	-3093 Jun 01 j 16:46	29° γ 02'54		direct	-3087 Apr 03 j 22:18	6° ε 55'00	
	-3093 Jun 09 j 04:25	0° ε		evening set	-3087 Jul 18 j 11:17	14° ε 29'35	
retrograde	-3093 Sep 14 j 00:57	7° ε 19'22					
opposition	-3093 Nov 19 j 09:47	3° ε 50'20	-1°-42'-6	conjunction	-3087 Aug 04 j 19:39	16° ε 34'23	1°27'28
min. Earth dist.	-3093 Nov 18 j 21:24	3° ε 52'55	7.99732 AU	minimum elong	-3087 Aug 04 j 19:36	16° ε 34'22	1°27'34
direct	-3092 Jan 25 j 11:46	0° ε 19'52		max. Earth dist.	-3087 Aug 05 j 02:19	16° ε 36'24	10.74818 AU
evening set	-3092 May 10 j 15:07	8° ε 38'57		morning rise	-3087 Aug 21 j 22:41	18° ε 37'37	
				retrograde	-3087 Nov 28 j 23:38	25° ε 45'23	
conjunction	-3092 May 28 j 19:41	10° ε 59'44	-1°-6'-37	opposition	-3086 Feb 05 j 02:32	22° ε 26'49	2°01'04
minimum elong	-3092 May 28 j 19:44	10° ε 59'45	1°06'33	min. Earth dist.	-3086 Feb 04 j 21:58	22° ε 27'42	8.81712 AU
max. Earth dist.	-3092 May 29 j 12:10	11° ε 05'05	10.04744 AU	direct	-3086 Apr 16 j 22:32	19° ε 02'24	
morning rise	-3092 Jun 15 j 21:49	13° ε 19'43		evening set	-3086 Jul 30 j 23:30	26° ε 27'57	
	-3092 Jun 29 j 08:25	15° ε					
retrograde	-3092 Sep 27 j 02:20	21° ε 24'18		conjunction	-3086 Aug 17 j 02:25	28° ε 29'35	1°49'11
opposition	-3092 Dec 02 j 11:47	17° ε 56'53	-1°-3'-33	minimum elong	-3086 Aug 17 j 02:22	28° ε 29'34	1°49'16
min. Earth dist.	-3092 Dec 01 j 23:35	17° ε 59'24	8.10400 AU	max. Earth dist.	-3086 Aug 17 j 06:15	28° ε 30'43	10.88237 AU
	-3091 Jan 14 j 08:27	15° ρ ε			-3086 Aug 29 j 18:47	0° ρ	
direct	-3091 Feb 08 j 04:30	14° ε 26'46		morning rise	-3086 Sep 03 j 00:13	0° ρ 29'44	
	-3091 Mar 05 j 02:19	15° ε		retrograde	-3086 Dec 10 j 19:18	7° ρ 30'05	
evening set	-3091 May 25 j 13:25	22° ε 38'48		opposition	-3085 Feb 17 j 09:01	4° ρ 12'46	2°24'22
				min. Earth dist.	-3085 Feb 17 j 07:28	4° ρ 13'04	8.94425 AU
conjunction	-3091 Jun 12 j 16:08	24° ε 57'06	0°-34'-26	direct	-3085 Apr 29 j 13:29	0° ρ 49'43	
minimum elong	-3091 Jun 12 j 16:10	24° ε 57'06	0°34'22	evening set	-3085 Aug 12 j 01:46	8° ρ 07'04	
max. Earth dist.	-3091 Jun 13 j 07:49	25° ε 02'07	10.16682 AU				
morning rise	-3091 Jun 30 j 15:17	27° ε 14'15		conjunction	-3085 Aug 28 j 23:35	10° ρ 05'56	2°05'51
	-3091 Jul 23 j 15:43	0° π		minimum elong	-3085 Aug 28 j 23:32	10° ρ 05'56	2°05'55
retrograde	-3091 Oct 10 j 16:29	5° π 06'04		max. Earth dist.	-3085 Aug 28 j 23:36	10° ρ 05'57	10.99979 AU
opposition	-3091 Dec 16 j 06:12	1° π 40'30	0°-22'-26	morning rise	-3085 Sep 14 j 16:55	12° ρ 03'30	
min. Earth dist.	-3091 Dec 15 j 19:10	1° π 42'45	8.23299 AU		-3085 Oct 11 j 17:43	15° ρ	
	-3090 Jan 06 j 19:12	30° ρ ε		retrograde	-3085 Dec 22 j 07:54	18° ρ 58'07	
direct	-3090 Feb 22 j 15:23	28° ε 11'04		opposition	-3084 Feb 29 j 10:20	15° ρ 41'44	2°41'15
	-3090 Apr 10 j 01:19	0° π		min. Earth dist.	-3084 Feb 29 j 11:38	15° ρ 41'30	9.05208 AU
evening set	-3090 Jun 09 j 00:59	6° π 14'31			-3084 Mar 09 j 19:54	15° ρ ρ	
				direct	-3084 May 10 j 22:37	12° ρ 19'56	
conjunction	-3090 Jun 27 j 00:21	8° π 29'44	0°-1'-10		-3084 Jul 09 j 14:15	15° ρ	
minimum elong	-3090 Jun 27 j 00:20	8° π 29'43	0°01'05	evening set	-3084 Aug 22 j 19:16	19° ρ 30'10	
behind sun begin	-3090 Jun 26 j 17:03	8° π 27'27					
behind sun end	-3090 Jun 27 j 07:37	8° π 32'00		conjunction	-3084 Sep 08 j 12:46	21° ρ 26'47	2°17'11
max. Earth dist.	-3090 Jun 27 j 13:55	8° π 34'00	10.30442 AU	minimum elong	-3084 Sep 08 j 12:45	21° ρ 26'46	2°17'14
asc. node	-3090 Jul 10 j 03:30	10° π 08'49		max. Earth dist.	-3084 Sep 08 j 09:17	21° ρ 25'46	11.09564 AU
morning rise	-3090 Jul 14 j 19:22	10° π 43'33		morning rise	-3084 Sep 25 j 02:26	23° ρ 22'17	
retrograde	-3090 Oct 23 j 19:04	18° π 22'45			-3084 Dec 16 j 18:40	0° π ρ	
opposition	-3090 Dec 29 j 16:47	14° π 59'06	0°18'33	retrograde	-3083 Jan 01 j 19:26	0° π ρ 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 23:50	30°R♄		min. Earth dist.	-3077 May 21 j 21:00	3°M♃37	9.05189 AU
opposition	-3083 Mar 12 j 07:57	26°♄57'10	2°51'34		-3077 Jul 24 j 04:17	30°R♄	
min. Earth dist.	-3083 Mar 12 j 11:17	26°♄56'33	9.13597 AU	direct	-3077 Jul 30 j 19:03	29°♄57'50	
direct	-3083 May 23 j 01:38	23°♄36'32			-3077 Aug 06 j 10:07	0°M♃	
	-3083 Aug 28 j 04:34	0°M♃		evening set	-3077 Nov 07 j 17:08	6°M♃56'12	
evening set	-3083 Sep 03 j 05:32	0°M♃40'51					
				conjunction	-3077 Nov 24 j 05:58	8°M♃53'04	1°12'23
conjunction	-3083 Sep 19 j 19:41	2°M♃35'47	2°23'06	minimum elong	-3077 Nov 24 j 06:01	8°M♃53'05	1°12'19
minimum elong	-3083 Sep 19 j 19:40	2°M♃35'47	2°23'09	max. Earth dist.	-3077 Nov 23 j 14:43	8°M♃48'33	11.00215 AU
max. Earth dist.	-3083 Sep 19 j 14:03	2°M♃34'09	11.16585 AU	morning rise	-3077 Dec 10 j 20:53	10°M♃50'36	
morning rise	-3083 Oct 06 j 06:26	4°M♃29'48			-3076 Jan 19 j 10:16	15°M♃	
retrograde	-3082 Jan 13 j 04:53	11°M♃18'21		retrograde	-3076 Mar 22 j 11:59	18°M♃01'29	
opposition	-3082 Mar 24 j 03:09	8°M♃02'51	2°55'20		-3076 May 28 j 07:43	15°R♃	
min. Earth dist.	-3082 Mar 24 j 08:47	8°M♃01'49	9.19262 AU	opposition	-3076 Jun 01 j 13:39	14°M♃41'06	1°12'42
direct	-3082 Jun 03 j 21:05	4°M♃43'15		min. Earth dist.	-3076 Jun 02 j 02:46	14°M♃38'39	8.94735 AU
evening set	-3082 Sep 14 j 10:31	11°M♃43'00		direct	-3076 Aug 10 j 12:59	11°M♃22'30	
					-3076 Oct 17 j 17:58	15°M♃	
conjunction	-3082 Sep 30 j 22:11	13°M♃36'51	2°23'36	evening set	-3076 Nov 18 j 03:54	18°M♃25'16	
minimum elong	-3082 Sep 30 j 22:11	13°M♃36'51	2°23'39				
max. Earth dist.	-3082 Sep 30 j 14:03	13°M♃34'29	11.20813 AU	conjunction	-3076 Dec 04 j 19:14	20°M♃24'14	0°46'03
morning rise	-3082 Oct 17 j 07:10	15°M♃30'01		minimum elong	-3076 Dec 04 j 19:16	20°M♃24'15	0°45'59
retrograde	-3081 Jan 24 j 14:25	22°M♃18'12		max. Earth dist.	-3076 Dec 04 j 04:37	20°M♃19'51	10.88823 AU
opposition	-3081 Apr 04 j 21:07	19°M♃02'40	2°52'40	morning rise	-3076 Dec 21 j 13:26	22°M♃24'08	
min. Earth dist.	-3081 Apr 05 j 05:36	19°M♃01'07	9.22070 AU	retrograde	-3075 Apr 04 j 01:22	29°M♃44'18	
direct	-3081 Jun 15 j 13:43	15°M♃43'50		opposition	-3075 Jun 14 j 00:51	26°M♃22'17	0°38'48
evening set	-3081 Sep 25 j 11:54	22°M♃40'25		min. Earth dist.	-3075 Jun 14 j 13:02	26°M♃20'00	8.82399 AU
				direct	-3075 Aug 22 j 10:26	23°M♃03'03	
conjunction	-3081 Oct 11 j 21:57	24°M♃33'47	2°18'51		-3075 Nov 28 j 06:15	0°♂	
minimum elong	-3081 Oct 11 j 21:58	24°M♃33'47	2°18'52	evening set	-3075 Nov 29 j 22:15	0°♂11'52	
max. Earth dist.	-3081 Oct 11 j 10:37	24°M♃30'30	11.22184 AU				
morning rise	-3081 Oct 28 j 06:25	26°M♃26'43		conjunction	-3075 Dec 16 j 16:37	2°♂13'19	0°17'12
	-3081 Dec 01 j 07:22	0°♄		minimum elong	-3075 Dec 16 j 16:38	2°♂13'19	0°17'06
retrograde	-3080 Feb 04 j 23:53	3°♄16'10		max. Earth dist.	-3075 Dec 16 j 03:44	2°♂09'24	10.75746 AU
opposition	-3080 Apr 15 j 15:01	0°♄00'15	2°43'46	morning rise	-3074 Jan 02 j 14:26	4°♂15'55	
	-3080 Apr 15 j 16:26	30°R♃		retrograde	-3074 Apr 17 j 01:14	11°♂46'45	
min. Earth dist.	-3080 Apr 16 j 01:41	29°M♃58'19	9.21988 AU	opposition	-3074 Jun 26 j 18:42	8°♂23'01	0°02'12
direct	-3080 Jun 26 j 03:18	26°M♃41'58		min. Earth dist.	-3074 Jun 27 j 04:56	8°♂21'04	8.68636 AU
	-3080 Aug 31 j 19:58	0°♄		desc. node	-3074 Jul 18 j 21:23	6°♂46'12	
evening set	-3080 Oct 05 j 11:22	3°♄36'47		direct	-3074 Sep 03 j 14:12	5°♂02'57	
				evening set	-3074 Dec 12 j 02:26	12°♂19'23	
conjunction	-3080 Oct 21 j 20:52	5°♄30'13	2°09'01				
minimum elong	-3080 Oct 21 j 20:54	5°♄30'13	2°09'00	conjunction	-3074 Dec 29 j 00:02	14°♂23'39	0°-13'-15
max. Earth dist.	-3080 Oct 21 j 07:59	5°♄26'28	11.20698 AU	minimum elong	-3074 Dec 29 j 00:02	14°♂23'39	0°13'22
morning rise	-3080 Nov 07 j 05:39	7°♄23'30		behind sun begin	-3074 Dec 28 j 19:55	14°♂22'24	
retrograde	-3079 Feb 15 j 13:09	14°♄15'55		behind sun end	-3074 Dec 29 j 04:09	14°♂24'54	
opposition	-3079 Apr 27 j 10:00	10°♄59'15	2°28'54	max. Earth dist.	-3074 Dec 28 j 12:17	14°♂20'02	10.61487 AU
min. Earth dist.	-3079 Apr 27 j 21:30	10°♄57'09	9.19054 AU	morning rise	-3073 Jan 15 j 01:48	16°♂29'17	
direct	-3079 Jul 07 j 17:26	7°♄41'16		retrograde	-3073 Apr 30 j 12:19	24°♂11'45	
evening set	-3079 Oct 16 j 10:46	14°♄35'43		opposition	-3073 Jul 09 j 19:53	20°♂46'19	0°-35'-44
				min. Earth dist.	-3073 Jul 10 j 04:27	20°♂44'40	8.54007 AU
conjunction	-3079 Nov 01 j 20:45	16°♄29'48	1°54'24	direct	-3073 Sep 15 j 23:11	17°♂25'13	
minimum elong	-3079 Nov 01 j 20:47	16°♄29'49	1°54'22	evening set	-3073 Dec 24 j 17:53	24°♂50'47	
max. Earth dist.	-3079 Nov 01 j 07:30	16°♄25'56	11.16427 AU				
morning rise	-3079 Nov 18 j 06:40	18°♄23'58		conjunction	-3072 Jan 10 j 18:53	26°♂58'04	0°-43'-53
retrograde	-3078 Feb 27 j 07:35	25°♄20'57		minimum elong	-3072 Jan 10 j 18:51	26°♂58'03	0°44'00
opposition	-3078 May 09 j 07:23	22°♄03'16	2°08'27	max. Earth dist.	-3072 Jan 10 j 08:31	26°♂54'49	10.46660 AU
min. Earth dist.	-3078 May 09 j 19:13	22°♄01'06	9.13390 AU	morning rise	-3072 Jan 28 j 00:45	29°♂06'54	
direct	-3078 Jul 19 j 05:48	18°♄45'20			-3072 Feb 04 j 07:44	0°♂	
evening set	-3078 Oct 27 j 11:59	25°♄40'55		retrograde	-3072 May 13 j 07:53	7°♂01'38	
				opposition	-3072 Jul 22 j 05:19	3°♂34'34	-1°-13'-17
conjunction	-3078 Nov 12 j 23:06	27°♄36'09	1°35'22	min. Earth dist.	-3072 Jul 22 j 12:04	3°♂33'14	8.39181 AU
minimum elong	-3078 Nov 12 j 23:09	27°♄36'10	1°35'19	direct	-3072 Sep 27 j 17:21	0°♂12'17	
max. Earth dist.	-3078 Nov 12 j 08:51	27°♄31'58	11.09522 AU	evening set	-3071 Jan 05 j 21:45	7°♂48'09	
morning rise	-3078 Nov 29 j 11:09	29°♄31'46					
	-3078 Dec 03 j 13:54	0°M♃		conjunction	-3071 Jan 23 j 02:25	9°♂58'32	-1°-13'-14
retrograde	-3077 Mar 11 j 05:56	6°M♃34'55		minimum elong	-3071 Jan 23 j 02:22	9°♂58'31	1°13'21
opposition	-3077 May 21 j 08:16	3°M♃15'58	1°42'51	max. Earth dist.	-3071 Jan 22 j 18:37	9°♂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 12:21	12°☾10'37		evening set	-3065 Apr 04 j 02:47	3°♃17'06	
retrograde	-3071 May 27 j 12:55	20°☾17'37					
opposition	-3071 Aug 04 j 22:53	16°☾49'02	-1°-48'-20	conjunction	-3065 Apr 22 j 05:04	5°♃40'11	-2°-6'-45
min. Earth dist.	-3071 Aug 05 j 03:26	16°☾48'07	8.24909 AU	minimum elong	-3065 Apr 22 j 05:07	5°♃40'12	2°06'45
direct	-3071 Oct 10 j 22:11	13°☾25'28		max. Earth dist.	-3065 Apr 22 j 19:00	5°♃44'49	9.88818 AU
evening set	-3070 Jan 19 j 15:11	21°☾12'20		morning rise	-3065 May 10 j 08:38	8°♃03'37	
				retrograde	-3065 Aug 24 j 10:13	16°♃33'22	
conjunction	-3070 Feb 05 j 23:43	23°☾25'51	-1°-39'-31	opposition	-3065 Oct 29 j 21:38	13°♃03'05	-2°-27'-21
minimum elong	-3070 Feb 05 j 23:40	23°☾25'50	1°39'37	min. Earth dist.	-3065 Oct 29 j 10:49	13°♃05'21	7.90920 AU
max. Earth dist.	-3070 Feb 05 j 19:47	23°☾24'35	10.18213 AU	direct	-3064 Jan 04 j 05:12	9°♃33'22	
morning rise	-3070 Feb 23 j 13:29	25°☾41'05		evening set	-3064 Apr 18 j 17:26	17°♃57'56	
	-3070 Apr 01 j 13:50	0°♁					
retrograde	-3070 Jun 11 j 03:27	3°♁59'24		conjunction	-3064 May 06 j 21:32	20°♃20'39	-1°-46'-40
opposition	-3070 Aug 19 j 00:00	0°♁29'33	-2°-18'-32	minimum elong	-3064 May 06 j 21:36	20°♃20'40	1°46'39
min. Earth dist.	-3070 Aug 19 j 01:30	0°♁29'15	8.11987 AU	max. Earth dist.	-3064 May 07 j 12:26	20°♃25'34	9.93590 AU
	-3070 Aug 25 j 02:33	30°♁☾		morning rise	-3064 May 25 j 01:34	22°♃43'15	
direct	-3070 Oct 24 j 11:59	27°☾04'41			-3064 Aug 04 j 00:29	0°♁	
	-3070 Dec 20 j 21:03	0°♁		retrograde	-3064 Sep 07 j 00:12	1°♁04'04	
evening set	-3069 Feb 02 j 22:04	5°♁02'35			-3064 Oct 11 j 04:42	30°♁♃	
				opposition	-3064 Nov 12 j 08:28	27°♃34'58	-1°-57'-44
conjunction	-3069 Feb 20 j 10:31	7°♁19'03	-2°00'-49	min. Earth dist.	-3064 Nov 11 j 21:18	27°♃37'18	7.97273 AU
minimum elong	-3069 Feb 20 j 10:28	7°♁19'02	2°00'55	direct	-3063 Jan 18 j 03:54	24°♃05'00	
max. Earth dist.	-3069 Feb 20 j 10:52	7°♁19'10	10.06185 AU		-3063 Apr 14 j 10:35	0°♁	
morning rise	-3069 Mar 10 j 03:50	9°♁37'09		evening set	-3063 May 04 j 03:31	2°♁26'04	
	-3069 Apr 26 j 06:56	15°♁					
retrograde	-3069 Jun 26 j 02:00	18°♁04'54		conjunction	-3063 May 22 j 08:09	4°♁47'32	-1°-20'-6
	-3069 Aug 28 j 01:14	15°♁♁		minimum elong	-3063 May 22 j 08:13	4°♁47'33	1°20'04
opposition	-3069 Sep 02 j 08:00	14°♁34'06	-2°-41'-25	max. Earth dist.	-3063 May 22 j 22:52	4°♁52'20	10.01526 AU
min. Earth dist.	-3069 Sep 02 j 05:59	14°♁34'31	8.01201 AU	morning rise	-3063 Jun 09 j 11:18	7°♁08'26	
direct	-3069 Nov 07 j 10:27	11°♁07'58			-3063 Sep 03 j 06:39	15°♁	
	-3068 Jan 12 j 23:32	15°♁		retrograde	-3063 Sep 21 j 04:59	15°♁18'12	
evening set	-3068 Feb 17 j 17:10	19°♁16'04			-3063 Oct 09 j 04:33	15°♁♁	
				opposition	-3063 Nov 26 j 13:30	11°♁50'36	-1°-21'-20
conjunction	-3068 Mar 06 j 09:28	21°♁35'08	-2°-15'-19	min. Earth dist.	-3063 Nov 26 j 02:18	11°♁52'55	8.06504 AU
minimum elong	-3068 Mar 06 j 09:27	21°♁35'07	2°15'24	direct	-3062 Feb 01 j 23:50	8°♁20'48	
max. Earth dist.	-3068 Mar 06 j 14:14	21°♁36'42	9.96676 AU		-3062 May 06 j 07:34	15°♁	
morning rise	-3068 Mar 24 j 06:05	23°♁55'39		evening set	-3062 May 19 j 06:07	16°♁36'01	
	-3068 May 17 j 07:36	0°♁♁					
retrograde	-3068 Jul 10 j 05:36	2°♁29'54		conjunction	-3062 Jun 06 j 09:44	18°♁55'25	0°-49'-10
	-3068 Sep 03 j 08:18	30°♁♁		minimum elong	-3062 Jun 06 j 09:46	18°♁55'25	0°49'06
opposition	-3068 Sep 15 j 21:15	28°♁58'34	-2°-54'-47	max. Earth dist.	-3062 Jun 06 j 23:51	18°♁59'58	10.12064 AU
min. Earth dist.	-3068 Sep 15 j 15:52	28°♁59'41	7.93272 AU	morning rise	-3062 Jun 24 j 10:30	21°♁13'51	
direct	-3068 Nov 20 j 18:18	25°♁31'15		retrograde	-3062 Oct 04 j 23:32	29°♁11'26	
	-3067 Jan 31 j 20:05	0°♁♁		opposition	-3062 Dec 10 j 11:35	25°♁45'32	0°-41'-2
evening set	-3067 Mar 03 j 22:37	3°♁47'50		min. Earth dist.	-3062 Dec 10 j 00:24	25°♁47'48	8.18076 AU
				direct	-3061 Feb 16 j 14:02	22°♁16'14	
conjunction	-3067 Mar 21 j 18:42	6°♁08'59	-2°-21'-33		-3061 May 30 j 18:19	0°♁♁	
minimum elong	-3067 Mar 21 j 18:42	6°♁08'59	2°21'37	evening set	-3061 Jun 02 j 22:58	0°♁♁23'44	
max. Earth dist.	-3067 Mar 22 j 03:26	6°♁11'53	9.90359 AU				
morning rise	-3067 Apr 08 j 18:17	8°♁31'18		conjunction	-3061 Jun 21 j 00:04	2°♁40'23	0°-16'-6
retrograde	-3067 Jul 25 j 10:13	17°♁08'13		minimum elong	-3061 Jun 21 j 00:04	2°♁40'23	0°16'02
opposition	-3067 Sep 30 j 13:31	13°♁36'47	-2°-57'-4	max. Earth dist.	-3061 Jun 21 j 13:30	2°♁44'38	10.24636 AU
min. Earth dist.	-3067 Sep 30 j 05:27	13°♁38'28	7.88761 AU	morning rise	-3061 Jul 08 j 21:07	4°♁55'45	
direct	-3067 Dec 05 j 09:37	10°♁08'26		retrograde	-3061 Oct 18 j 08:26	12°♁40'52	
evening set	-3066 Mar 19 j 11:11	18°♁30'55		asc. node	-3061 Dec 20 j 23:52	9°♁31'37	
				opposition	-3061 Dec 24 j 02:02	9°♁16'42	0°00'20
conjunction	-3066 Apr 06 j 10:43	20°♁53'28	-2°-18'-41	min. Earth dist.	-3061 Dec 23 j 15:45	9°♁18'46	8.31379 AU
minimum elong	-3066 Apr 06 j 10:44	20°♁53'28	2°18'43	direct	-3060 Mar 01 j 20:26	5°♁48'09	
max. Earth dist.	-3066 Apr 06 j 22:31	20°♁57'23	9.87686 AU	evening set	-3060 Jun 16 j 04:27	13°♁46'41	
morning rise	-3066 Apr 24 j 12:44	23°♁16'48					
	-3066 Jun 24 j 20:36	0°♁♁		conjunction	-3060 Jul 04 j 01:42	16°♁00'07	0°17'00
retrograde	-3066 Aug 09 j 12:52	1°♁52'09		minimum elong	-3060 Jul 04 j 01:41	16°♁00'07	0°17'06
	-3066 Sep 24 j 18:15	30°♁♁		max. Earth dist.	-3060 Jul 04 j 13:40	16°♁03'51	10.38553 AU
opposition	-3066 Oct 15 j 06:33	28°♁21'05	-2°-47'-43	morning rise	-3060 Jul 21 j 18:05	18°♁12'03	
min. Earth dist.	-3066 Oct 14 j 20:45	28°♁23'08	7.87975 AU	retrograde	-3060 Oct 30 j 08:32	25°♁45'05	
direct	-3066 Dec 20 j 06:13	24°♁51'55		opposition	-3059 Jan 05 j 08:38	22°♁22'39	0°40'19
	-3065 Mar 08 j 13:09	0°♁♁		min. Earth dist.	-3059 Jan 05 j 00:13	22°♁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 17:42	18°II55'03		evening set	-3053 Sep 09 j 21:56	7°♃06'31	
evening set	-3059 Jun 29 j 22:01	26°II44'03					
conjunction	-3059 Jul 17 j 14:20	28°II54'01	0°48'15	conjunction	-3053 Sep 26 j 10:35	9°♃00'55	2°24'08
minimum elong	-3059 Jul 17 j 14:18	28°II54'00	0°48'22	minimum elong	-3053 Sep 26 j 10:35	9°♃00'55	2°24'11
max. Earth dist.	-3059 Jul 17 j 23:42	28°II56'54	10.53060 AU	max. Earth dist.	-3053 Sep 26 j 03:29	8°♃58'52	11.17652 AU
	-3059 Jul 26 j 12:37	0°♄		morning rise	-3053 Oct 12 j 20:30	10°♃54'34	
morning rise	-3059 Aug 04 j 01:24	1°♄02'23		retrograde	-3052 Jan 19 j 21:58	17°♃43'02	
retrograde	-3059 Nov 11 j 20:54	8°♄24'18		opposition	-3052 Mar 30 j 02:04	14°♃27'04	2°54'48
opposition	-3058 Jan 18 j 07:31	5°♄03'30	1°16'57	min. Earth dist.	-3052 Mar 30 j 08:26	14°♃25'54	9.19770 AU
min. Earth dist.	-3058 Jan 18 j 01:27	5°♄04'41	8.60246 AU	direct	-3052 Jun 09 j 21:06	11°♃07'26	
direct	-3058 Mar 29 j 08:14	1°♄36'59		evening set	-3052 Sep 20 j 00:38	18°♃05'35	
evening set	-3058 Jul 13 j 03:22	9°♄16'24		conjunction	-3052 Oct 06 j 11:26	19°♃59'12	2°21'41
conjunction	-3058 Jul 30 j 14:12	11°♄22'52	1°16'18	minimum elong	-3052 Oct 06 j 11:27	19°♃59'12	2°21'43
minimum elong	-3058 Jul 30 j 14:09	11°♄22'51	1°16'25	max. Earth dist.	-3052 Oct 06 j 03:08	19°♃56'48	11.20786 AU
max. Earth dist.	-3058 Jul 30 j 20:13	11°♄24'42	10.67438 AU	morning rise	-3052 Oct 22 j 20:03	21°♃52'15	
morning rise	-3058 Aug 16 j 19:51	13°♄27'46		retrograde	-3051 Jan 30 j 08:19	28°♃41'04	
retrograde	-3058 Nov 24 j 00:49	20°♄39'59		opposition	-3051 Apr 10 j 19:45	25°♃24'58	2°48'35
opposition	-3057 Jan 30 j 23:12	17°♄20'36	1°48'47	min. Earth dist.	-3051 Apr 11 j 03:22	25°♃23'35	9.21525 AU
min. Earth dist.	-3057 Jan 30 j 19:03	17°♄21'24	8.74363 AU	direct	-3051 Jun 21 j 11:19	22°♃06'10	
direct	-3057 Apr 11 j 14:12	13°♄55'17		evening set	-3051 Oct 01 j 00:34	29°♃01'39	
evening set	-3057 Jul 25 j 20:49	21°♄25'26			-3051 Oct 09 j 12:16	0°♄	
conjunction	-3057 Aug 12 j 02:10	23°♄28'37	1°40'10	conjunction	-3051 Oct 17 j 10:21	0°♄55'02	2°14'03
minimum elong	-3057 Aug 12 j 02:07	23°♄28'36	1°40'15	minimum elong	-3051 Oct 17 j 10:23	0°♄55'02	2°14'03
max. Earth dist.	-3057 Aug 12 j 05:17	23°♄29'33	10.81031 AU	max. Earth dist.	-3051 Oct 17 j 00:28	0°♄52'10	11.21173 AU
morning rise	-3057 Aug 29 j 02:33	25°♄30'18		morning rise	-3051 Nov 02 j 18:46	2°♄48'06	
	-3057 Oct 11 j 00:56	0°♄		retrograde	-3050 Feb 10 j 19:46	9°♄38'55	
retrograde	-3057 Dec 05 j 23:30	2°♄34'23		opposition	-3050 Apr 22 j 14:06	6°♄22'26	2°36'17
	-3056 Feb 02 j 15:57	30°♃		min. Earth dist.	-3050 Apr 22 j 23:39	6°♄20'41	9.20505 AU
opposition	-3056 Feb 12 j 08:21	29°♄16'11	2°14'53	direct	-3050 Jul 02 j 23:26	3°♄04'13	
min. Earth dist.	-3056 Feb 12 j 05:50	29°♄16'40	8.87396 AU	evening set	-3050 Oct 11 j 23:45	9°♄58'31	
direct	-3056 Apr 23 j 10:12	25°♄52'07		conjunction	-3050 Oct 28 j 09:19	11°♄52'13	2°01'30
	-3056 Jul 07 j 12:28	0°♄		minimum elong	-3050 Oct 28 j 09:22	11°♄52'14	2°01'28
evening set	-3056 Aug 06 j 03:39	3°♄13'41		max. Earth dist.	-3050 Oct 27 j 21:16	11°♄48'43	11.18813 AU
conjunction	-3056 Aug 23 j 03:54	5°♄13'57	1°59'09	morning rise	-3050 Nov 13 j 18:42	13°♄45'53	
minimum elong	-3056 Aug 23 j 03:52	5°♄13'56	1°59'14	retrograde	-3049 Feb 22 j 10:30	20°♄40'19	
max. Earth dist.	-3056 Aug 23 j 04:58	5°♄14'16	10.93257 AU	opposition	-3049 May 04 j 10:00	17°♄23'09	2°18'13
morning rise	-3056 Sep 08 j 23:19	7°♄12'49		min. Earth dist.	-3049 May 04 j 21:09	17°♄21'07	9.16746 AU
retrograde	-3056 Dec 16 j 15:25	14°♄10'25		direct	-3049 Jul 14 j 11:55	14°♄05'17	
opposition	-3055 Feb 23 j 12:01	10°♄53'10	2°34'43	evening set	-3049 Oct 22 j 23:48	20°♄59'55	
min. Earth dist.	-3055 Feb 23 j 11:38	10°♄53'14	8.98818 AU	conjunction	-3049 Nov 08 j 10:11	22°♄54'28	1°44'21
direct	-3055 May 05 j 21:55	7°♄30'19		minimum elong	-3049 Nov 08 j 10:14	22°♄54'28	1°44'18
evening set	-3055 Aug 18 j 01:09	14°♄44'17		max. Earth dist.	-3049 Nov 07 j 21:14	22°♄50'40	11.13772 AU
	-3055 Aug 20 j 07:41	15°♄		morning rise	-3049 Nov 24 j 21:16	24°♄49'16	
conjunction	-3055 Sep 03 j 20:46	16°♄42'03	2°12'55		-3048 Jan 17 j 00:17	0°♃	
minimum elong	-3055 Sep 03 j 20:44	16°♄42'03	2°12'58	retrograde	-3048 Mar 05 j 06:03	1°♃48'57	
max. Earth dist.	-3055 Sep 03 j 19:33	16°♄41'42	11.03656 AU		-3048 Apr 24 j 07:55	30°♃	
morning rise	-3055 Sep 20 j 11:57	18°♄38'36		opposition	-3048 May 15 j 08:49	28°♄30'50	1°54'47
retrograde	-3055 Dec 28 j 04:26	25°♄31'27		min. Earth dist.	-3048 May 15 j 20:12	28°♄28'45	9.10356 AU
opposition	-3054 Mar 07 j 11:36	22°♄14'55	2°47'59	direct	-3048 Jul 25 j 01:38	25°♄13'06	
min. Earth dist.	-3054 Mar 07 j 14:06	22°♄14'27	9.08220 AU		-3048 Oct 13 j 15:24	0°♃	
direct	-3054 May 18 j 02:51	18°♄53'15		evening set	-3048 Nov 02 j 02:35	2°♃09'33	
evening set	-3054 Aug 29 j 14:38	26°♄00'40		conjunction	-3048 Nov 18 j 14:36	4°♃05'28	1°23'02
conjunction	-3054 Sep 15 j 06:16	27°♄56'28	2°21'15	minimum elong	-3048 Nov 18 j 14:38	4°♃05'29	1°22'59
minimum elong	-3054 Sep 15 j 06:15	27°♄56'28	2°21'17	max. Earth dist.	-3048 Nov 18 j 02:03	4°♃01'46	11.06193 AU
max. Earth dist.	-3054 Sep 15 j 01:43	27°♄55'09	11.11877 AU	morning rise	-3048 Dec 05 j 03:58	6°♃01'53	
morning rise	-3054 Oct 01 j 18:19	29°♄51'17		retrograde	-3047 Mar 17 j 10:07	13°♃08'27	
	-3054 Oct 03 j 00:55	0°♃		opposition	-3047 May 27 j 11:46	9°♃49'08	1°26'34
retrograde	-3053 Jan 08 j 12:53	6°♃41'05		min. Earth dist.	-3047 May 27 j 22:43	9°♃47'07	9.01539 AU
opposition	-3053 Mar 19 j 07:56	3°♃24'58	2°54'39	direct	-3047 Aug 05 j 17:30	6°♃31'17	
min. Earth dist.	-3053 Mar 19 j 12:50	3°♃24'04	9.15285 AU	evening set	-3047 Nov 13 j 10:21	13°♃31'08	
direct	-3053 May 30 j 01:06	0°♃04'23			-3047 Nov 25 j 23:32	15°♃	
				max. Earth dist.	-3047 Nov 29 j 11:35	15°♃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 00:28	15°♄28'52	0°58'07		-3040 Feb 05 j 18:45	0°☿	
minimum elong	-3047 Nov 30 j 00:30	15°♄28'53	0°58'04				
morning rise	-3047 Dec 16 j 16:53	17°♄27'23		conjunction	-3040 Feb 14 j 02:06	1°☿04'34	-1°-51'-44
retrograde	-3046 Mar 29 j 19:46	24°♄42'16		minimum elong	-3040 Feb 14 j 02:02	1°☿04'33	1°51'50
opposition	-3046 Jun 08 j 19:51	21°♄21'35	0°54'16	max. Earth dist.	-3040 Feb 13 j 22:30	1°☿03'24	10.13645 AU
min. Earth dist.	-3046 Jun 09 j 06:48	21°♄19'33	8.90595 AU	morning rise	-3040 Mar 02 j 17:34	3°☿21'00	
direct	-3046 Aug 17 j 10:45	18°♄03'19		retrograde	-3040 Jun 18 j 13:23	11°☿43'17	
evening set	-3046 Nov 25 j 00:47	25°♄08'12		opposition	-3040 Aug 26 j 01:07	8°☿13'12	-2°-31'-50
				min. Earth dist.	-3040 Aug 26 j 01:51	8°☿13'03	8.07788 AU
conjunction	-3046 Dec 11 j 17:29	27°♄08'10	0°30'19	direct	-3040 Oct 31 j 07:07	4°☿47'53	
minimum elong	-3046 Dec 11 j 17:30	27°♄08'11	0°30'14	evening set	-3039 Feb 10 j 04:06	12°☿50'06	
max. Earth dist.	-3046 Dec 11 j 04:03	27°♄04'08	10.84501 AU		-3039 Feb 26 j 18:55	15°☿	
morning rise	-3046 Dec 28 j 13:32	29°♄09'11					
	-3045 Jan 04 j 19:35	0°♂		conjunction	-3039 Feb 27 j 18:15	15°☿07'40	-2°-9'-34
retrograde	-3045 Apr 11 j 13:43	6°♂33'48		minimum elong	-3039 Feb 27 j 18:13	15°☿07'39	2°09'39
opposition	-3045 Jun 21 j 10:01	3°♂11'33	0°18'49	max. Earth dist.	-3039 Feb 27 j 18:24	15°☿07'43	10.02370 AU
min. Earth dist.	-3045 Jun 21 j 21:02	3°♂09'29	8.77883 AU	morning rise	-3039 Mar 17 j 13:19	17°☿26'48	
	-3045 Aug 17 j 11:06	30°♄		retrograde	-3039 Jul 03 j 12:52	25°☿57'12	
direct	-3045 Aug 29 j 11:37	29°♄52'34		opposition	-3039 Sep 09 j 11:03	22°☿26'11	-2°-49'-52
	-3045 Sep 10 j 10:10	0°♂		min. Earth dist.	-3039 Sep 09 j 09:08	22°☿26'34	7.97899 AU
evening set	-3045 Dec 06 j 23:41	7°♂04'09		direct	-3039 Nov 14 j 11:27	18°☿59'24	
				evening set	-3038 Feb 25 j 03:48	27°☿11'12	
conjunction	-3045 Dec 23 j 19:27	9°♂06'42	0°00'32				
minimum elong	-3045 Dec 23 j 19:28	9°♂06'42	0°00'26	conjunction	-3038 Mar 14 j 21:54	29°☿31'10	-2°-19'-49
behind sun begin	-3045 Dec 23 j 12:26	9°♂04'35		minimum elong	-3038 Mar 14 j 21:53	29°☿31'10	2°19'53
behind sun end	-3045 Dec 24 j 02:29	9°♂08'49		max. Earth dist.	-3038 Mar 15 j 02:05	29°☿32'33	9.93901 AU
max. Earth dist.	-3045 Dec 23 j 06:57	9°♂02'53	10.71087 AU		-3038 Mar 18 j 13:03	0°♂	
desc. node	-3045 Dec 30 j 06:16	9°♂54'00		morning rise	-3038 Apr 01 j 20:09	1°♂52'29	
morning rise	-3044 Jan 09 j 19:18	11°♂10'32		retrograde	-3038 Jul 18 j 14:28	10°♂27'39	
retrograde	-3044 Apr 23 j 17:46	18°♂46'08		opposition	-3038 Sep 24 j 01:02	6°♂56'08	-2°-57'-32
opposition	-3044 Jul 03 j 07:03	15°♂22'13	0°-18'-34	min. Earth dist.	-3038 Sep 23 j 20:19	6°♂57'07	7.91107 AU
min. Earth dist.	-3044 Jul 03 j 17:06	15°♂20'18	8.63829 AU	direct	-3038 Nov 28 j 23:09	3°♂28'02	
direct	-3044 Sep 09 j 18:12	12°♂02'18		evening set	-3037 Mar 12 j 12:10	11°♂47'17	
evening set	-3044 Dec 18 j 08:53	19°♂22'09					
				conjunction	-3037 Mar 30 j 10:01	14°♂09'06	-2°-21'-19
conjunction	-3043 Jan 04 j 08:08	21°♂27'35	0°-30'-6	minimum elong	-3037 Mar 30 j 10:02	14°♂09'07	2°21'21
minimum elong	-3043 Jan 04 j 08:07	21°♂27'35	0°30'13	max. Earth dist.	-3037 Mar 30 j 18:18	14°♂11'52	9.88816 AU
max. Earth dist.	-3043 Jan 03 j 21:28	21°♂24'17	10.56563 AU	morning rise	-3037 Apr 17 j 10:56	16°♂31'54	
morning rise	-3043 Jan 21 j 11:51	23°♂34'30		retrograde	-3037 Aug 02 j 16:59	25°♂07'55	
	-3043 Mar 27 j 10:44	0°♂		opposition	-3037 Oct 08 j 17:06	21°♂36'21	-2°-53'-45
retrograde	-3043 May 07 j 07:50	1°♂22'03		min. Earth dist.	-3037 Oct 08 j 09:29	21°♂37'57	7.87871 AU
	-3043 Jun 17 j 22:20	30°♄		direct	-3037 Dec 13 j 16:21	18°♂07'11	
opposition	-3043 Jul 16 j 11:46	27°♂56'26	0°-56'-23	evening set	-3036 Mar 27 j 01:37	26°♂31'01	
min. Earth dist.	-3043 Jul 16 j 19:46	27°♂54'53	8.49000 AU				
direct	-3043 Sep 22 j 08:08	24°♂35'23		conjunction	-3036 Apr 14 j 02:46	28°♂53'55	-2°-13'-40
	-3043 Dec 13 j 19:20	0°♂		minimum elong	-3036 Apr 14 j 02:49	28°♂53'56	2°13'40
evening set	-3043 Dec 31 j 06:00	2°♂04'57		max. Earth dist.	-3036 Apr 14 j 14:40	28°♂57'52	9.87469 AU
					-3036 Apr 22 j 09:55	0°♂	
conjunction	-3042 Jan 17 j 08:53	4°♂13'29	-1°00'-8	morning rise	-3036 May 02 j 05:41	1°♂17'23	
minimum elong	-3042 Jan 17 j 08:50	4°♂13'29	1°00'16	retrograde	-3036 Aug 16 j 16:58	9°♂50'09	
max. Earth dist.	-3042 Jan 17 j 00:21	4°♂10'48	10.41592 AU	opposition	-3036 Oct 22 j 08:45	6°♂19'00	-2°-38'-33
morning rise	-3042 Feb 03 j 16:34	6°♂23'37		min. Earth dist.	-3036 Oct 21 j 22:49	6°♂21'05	7.88405 AU
retrograde	-3042 May 21 j 08:35	14°♂23'32		direct	-3036 Dec 27 j 12:59	2°♂49'02	
opposition	-3042 Jul 30 j 00:32	10°♂56'14	-1°-32'-43	evening set	-3035 Apr 11 j 16:40	11°♂14'15	
min. Earth dist.	-3042 Jul 30 j 06:02	10°♂55'09	8.34149 AU				
direct	-3042 Oct 05 j 06:41	7°♂33'53		conjunction	-3035 Apr 29 j 20:17	13°♂37'21	-1°-57'-19
evening set	-3041 Jan 13 j 16:17	15°♂14'11		minimum elong	-3035 Apr 29 j 20:21	13°♂37'23	1°57'18
				max. Earth dist.	-3035 Apr 30 j 10:35	13°♂42'05	9.89935 AU
conjunction	-3041 Jan 30 j 22:47	17°♂25'52	-1°-27'-58	morning rise	-3035 May 18 j 00:13	16°♂00'34	
minimum elong	-3041 Jan 30 j 22:44	17°♂25'51	1°28'05	retrograde	-3035 Aug 31 j 11:36	24°♂26'17	
max. Earth dist.	-3041 Jan 30 j 16:20	17°♂23'48	10.26996 AU	opposition	-3035 Nov 05 j 21:31	20°♂56'02	-2°-13'-6
morning rise	-3041 Feb 17 j 10:26	19°♂39'14		min. Earth dist.	-3035 Nov 05 j 10:22	20°♂58'22	7.92653 AU
retrograde	-3041 Jun 04 j 19:00	27°♂51'00		direct	-3034 Jan 11 j 10:52	17°♂25'36	
opposition	-3041 Aug 12 j 21:08	24°♂22'12	-2°-5'-20	evening set	-3034 Apr 27 j 05:18	25°♂49'00	
min. Earth dist.	-3041 Aug 13 j 00:14	24°♂21'35	8.20128 AU				
direct	-3041 Oct 18 j 13:49	20°♂58'24		conjunction	-3034 May 15 j 10:04	28°♂11'22	-1°-33'-37
evening set	-3040 Jan 27 j 15:51	28°♂49'50		minimum elong	-3034 May 15 j 10:08	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 01:32	28°♃16'26	9.96012 AU	evening set	-3028 Jul 19 j 06:36	15°♄56'29	
	-3034 May 29 j 06:25	0°♃					
morning rise	-3034 Jun 02 j 13:46	0°♃33'21		conjunction	-3028 Aug 05 j 14:47	18°♄01'17	1°29'19
retrograde	-3034 Sep 14 j 22:02	8°♃49'07		minimum elong	-3028 Aug 05 j 14:44	18°♄01'16	1°29'25
opposition	-3034 Nov 20 j 05:37	5°♃20'10	-1°-39'-35	max. Earth dist.	-3028 Aug 05 j 21:15	18°♄03'15	10.74452 AU
min. Earth dist.	-3034 Nov 19 j 18:08	5°♃22'33	8.00307 AU	morning rise	-3028 Aug 22 j 17:36	20°♄04'31	
direct	-3033 Jan 26 j 08:18	1°♃49'41		retrograde	-3028 Nov 29 j 19:38	27°♄12'32	
evening set	-3033 May 12 j 11:42	10°♃08'22		opposition	-3027 Feb 05 j 21:58	23°♄53'56	2°03'10
				min. Earth dist.	-3027 Feb 05 j 18:18	23°♄54'38	8.81277 AU
conjunction	-3033 May 30 j 16:07	12°♃29'02	-1°-4'-28	direct	-3027 Apr 17 j 16:52	20°♄29'27	
minimum elong	-3033 May 30 j 16:11	12°♃29'03	1°04'25	evening set	-3027 Jul 31 j 19:03	27°♄55'19	
max. Earth dist.	-3033 May 31 j 07:36	12°♃34'03	10.05256 AU				
morning rise	-3033 Jun 17 j 18:12	14°♃48'55		conjunction	-3027 Aug 17 j 21:41	29°♄56'58	1°50'42
	-3033 Jun 19 j 05:13	15°♃		minimum elong	-3027 Aug 17 j 21:38	29°♄56'57	1°50'47
retrograde	-3033 Sep 28 j 21:18	22°♃52'54		max. Earth dist.	-3027 Aug 18 j 00:30	29°♄57'48	10.87722 AU
opposition	-3033 Dec 04 j 07:17	19°♃25'34	-1°00'-45		-3027 Aug 18 j 07:51	0°♄	
min. Earth dist.	-3033 Dec 03 j 20:12	19°♃27'51	8.10844 AU	morning rise	-3027 Sep 03 j 19:25	1°♄57'10	
direct	-3032 Feb 10 j 01:28	15°♃55'24		retrograde	-3027 Dec 11 j 13:30	8°♄57'54	
evening set	-3032 May 26 j 09:28	24°♃07'07		opposition	-3026 Feb 18 j 04:44	5°♄40'32	2°26'02
				min. Earth dist.	-3026 Feb 18 j 03:30	5°♄40'46	8.93857 AU
conjunction	-3032 Jun 13 j 12:00	26°♃25'19	0°-32'-8	direct	-3026 Apr 30 j 09:40	2°♄17'26	
minimum elong	-3032 Jun 13 j 12:01	26°♃25'19	0°32'04	evening set	-3026 Aug 12 j 21:28	9°♄35'12	
max. Earth dist.	-3032 Jun 14 j 02:13	26°♃29'52	10.17045 AU				
morning rise	-3032 Jul 01 j 11:09	28°♃42'22		conjunction	-3026 Aug 29 j 19:06	11°♄34'07	2°06'59
	-3032 Jul 11 j 23:05	0°♄		minimum elong	-3026 Aug 29 j 19:04	11°♄34'06	2°07'03
retrograde	-3032 Oct 11 j 10:21	6°♄33'47		max. Earth dist.	-3026 Aug 29 j 18:41	11°♄33'59	10.99357 AU
opposition	-3032 Dec 17 j 01:24	3°♄08'15	0°-19'-31	morning rise	-3026 Sep 15 j 12:22	13°♄31'44	
min. Earth dist.	-3032 Dec 16 j 14:59	3°♄10'22	8.23584 AU		-3026 Sep 28 j 12:58	15°♄	
direct	-3031 Feb 03 j 10:41	30°♃		retrograde	-3026 Dec 23 j 04:44	20°♄26'52	
	-3031 Feb 23 j 12:03	29°♃38'46		opposition	-3025 Mar 02 j 06:34	17°♄10'25	2°42'25
	-3031 Mar 15 j 13:03	0°♄		min. Earth dist.	-3025 Mar 02 j 07:09	17°♄10'19	9.04552 AU
evening set	-3031 Jun 09 j 20:38	7°♄42'00			-3025 Apr 03 j 01:26	15°♃	
asc. node	-3031 Jun 14 j 01:25	8°♄13'16		direct	-3025 May 12 j 19:22	13°♄48'38	
					-3025 Jun 20 j 20:31	15°♄	
conjunction	-3031 Jun 27 j 19:50	9°♄57'08	0°01'15	evening set	-3025 Aug 24 j 15:04	20°♄59'15	
minimum elong	-3031 Jun 27 j 19:50	9°♄57'08	0°01'20				
behind sun begin	-3031 Jun 27 j 12:33	9°♄54'52		conjunction	-3025 Sep 10 j 08:34	22°♄55'57	2°17'54
behind sun end	-3031 Jun 28 j 03:08	9°♄59'24		minimum elong	-3025 Sep 10 j 08:32	22°♄55'56	2°17'57
max. Earth dist.	-3031 Jun 28 j 08:14	10°♄01'02	10.30633 AU	max. Earth dist.	-3025 Sep 10 j 05:59	22°♄55'11	11.08886 AU
morning rise	-3031 Jul 15 j 14:50	12°♄10'53		morning rise	-3025 Sep 26 j 22:04	24°♄51'31	
retrograde	-3031 Oct 24 j 13:51	19°♄49'51			-3025 Nov 18 j 17:23	0°♃	
opposition	-3031 Dec 30 j 11:43	16°♄26'11	0°21'26	retrograde	-3024 Jan 03 j 16:19	1°♃42'44	
min. Earth dist.	-3031 Dec 30 j 01:59	16°♄28'08	8.37758 AU		-3024 Feb 20 j 06:56	30°♃	
direct	-3030 Mar 09 j 14:35	12°♄57'42		opposition	-3024 Mar 13 j 04:39	28°♄26'53	2°52'11
evening set	-3030 Jun 23 j 19:53	20°♄51'33		min. Earth dist.	-3024 Mar 13 j 07:30	28°♄26'22	9.12913 AU
				direct	-3024 May 23 j 20:52	25°♄06'17	
conjunction	-3030 Jul 11 j 14:40	23°♄03'17	0°33'34		-3024 Aug 15 j 03:30	0°♃	
minimum elong	-3030 Jul 11 j 14:39	23°♄03'17	0°33'40	evening set	-3024 Sep 04 j 01:42	2°♃10'57	
max. Earth dist.	-3030 Jul 12 j 01:27	23°♄06'38	10.45233 AU				
morning rise	-3030 Jul 29 j 04:34	25°♄13'29		conjunction	-3024 Sep 20 j 15:48	4°♃05'58	2°23'21
	-3030 Sep 11 j 05:42	0°♄		minimum elong	-3024 Sep 20 j 15:48	4°♃05'58	2°23'23
retrograde	-3030 Nov 06 j 07:36	2°♄40'50		max. Earth dist.	-3024 Sep 20 j 10:39	4°♃04'28	11.15908 AU
	-3029 Jan 03 j 20:50	30°♃		morning rise	-3024 Oct 07 j 02:28	6°♃00'05	
opposition	-3029 Jan 12 j 14:17	29°♄18'59	0°59'55	retrograde	-3023 Jan 14 j 02:37	12°♃49'08	
min. Earth dist.	-3029 Jan 12 j 05:39	29°♄20'41	8.52585 AU	opposition	-3023 Mar 25 j 00:16	9°♃33'37	2°55'23
direct	-3029 Mar 23 j 08:52	25°♄51'45		min. Earth dist.	-3023 Mar 25 j 06:13	9°♃32'31	9.18600 AU
	-3029 Jun 05 j 03:15	0°♄		direct	-3023 Jun 04 j 17:45	6°♃13'59	
evening set	-3029 Jul 07 j 07:06	3°♄35'57		evening set	-3023 Sep 15 j 07:02	13°♃14'06	
conjunction	-3029 Jul 24 j 20:47	5°♄44'10	1°03'20	conjunction	-3023 Oct 01 j 18:32	15°♃08'02	2°23'22
minimum elong	-3029 Jul 24 j 20:44	5°♄44'09	1°03'26	minimum elong	-3023 Oct 01 j 18:33	15°♃08'02	2°23'24
max. Earth dist.	-3029 Jul 25 j 05:47	5°♄46'55	10.60078 AU	max. Earth dist.	-3023 Oct 01 j 09:57	15°♃05'32	11.20164 AU
morning rise	-3029 Aug 11 j 05:08	7°♄50'47		morning rise	-3023 Oct 18 j 03:38	17°♃01'19	
retrograde	-3029 Nov 18 j 17:22	15°♄07'44		retrograde	-3022 Jan 25 j 10:58	23°♃49'59	
opposition	-3028 Jan 25 j 09:23	11°♄47'36	1°34'13	opposition	-3022 Apr 05 j 18:44	20°♃34'25	2°52'07
min. Earth dist.	-3028 Jan 25 j 02:50	11°♄48'53	8.67320 AU	min. Earth dist.	-3022 Apr 06 j 03:20	20°♃32'51	9.21431 AU
direct	-3028 Apr 04 j 17:25	8°♄21'43		direct	-3022 Jun 16 j 10:03	17°♃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 08:34	24°♏12'31		min. Earth dist.	-3016 Jun 15 j 11:40	27°♍57'44	8.82036 AU
				direct	-3016 Aug 23 j 10:17	24°♍40'37	
conjunction	-3022 Oct 12 j 18:37	26°♏05'58	2°18'07		-3016 Nov 15 j 01:46	0°♌	
minimum elong	-3022 Oct 12 j 18:39	26°♏05'58	2°18'08	evening set	-3016 Nov 30 j 21:11	1°♌49'32	
max. Earth dist.	-3022 Oct 12 j 07:36	26°♏02'46	11.21557 AU				
morning rise	-3022 Oct 29 j 03:11	27°♏59'01		conjunction	-3016 Dec 17 j 15:40	3°♌51'05	0°14'25
	-3022 Nov 16 j 12:48	0°♌		minimum elong	-3016 Dec 17 j 15:41	3°♌51'05	0°14'20
retrograde	-3021 Feb 05 j 21:41	4°♌49'02		behind sun begin	-3016 Dec 17 j 12:17	3°♌50'04	
opposition	-3021 Apr 17 j 13:01	1°♌33'03	2°42'37	behind sun end	-3016 Dec 17 j 19:05	3°♌52'06	
min. Earth dist.	-3021 Apr 17 j 22:52	1°♌31'16	9.21365 AU	max. Earth dist.	-3016 Dec 17 j 03:02	3°♌47'15	10.75431 AU
	-3021 May 09 j 16:59	30°♌		morning rise	-3015 Jan 03 j 13:39	5°♌53'46	
direct	-3021 Jun 28 j 01:41	28°♌14'48		retrograde	-3015 Apr 18 j 02:34	13°♌24'51	
	-3021 Aug 14 j 16:58	0°♌		desc. node	-3015 Jun 15 j 03:59	10°♌57'54	
evening set	-3021 Oct 07 j 08:22	5°♌09'56		opposition	-3015 Jun 27 j 18:33	10°♌01'03	0°-1'-14
				min. Earth dist.	-3015 Jun 28 j 04:22	9°♌59'11	8.68377 AU
conjunction	-3021 Oct 23 j 18:04	7°♌03'29	2°07'49	direct	-3015 Sep 04 j 12:35	6°♌40'59	
minimum elong	-3021 Oct 23 j 18:06	7°♌03'29	2°07'48	evening set	-3015 Dec 13 j 01:39	13°♌57'29	
max. Earth dist.	-3021 Oct 23 j 06:14	7°♌00'02	11.20086 AU				
morning rise	-3021 Nov 09 j 02:52	8°♌56'52		conjunction	-3015 Dec 29 j 23:17	16°♌01'47	0°-16'-2
retrograde	-3020 Feb 17 j 12:49	15°♌49'48		minimum elong	-3015 Dec 29 j 23:16	16°♌01'47	0°16'09
opposition	-3020 Apr 28 j 08:21	12°♌33'07	2°27'11	behind sun begin	-3015 Dec 29 j 22:57	16°♌01'41	
min. Earth dist.	-3020 Apr 28 j 19:05	12°♌31'10	9.18448 AU	behind sun end	-3015 Dec 29 j 23:35	16°♌01'52	
direct	-3020 Jul 08 j 14:50	9°♌15'12		max. Earth dist.	-3015 Dec 29 j 11:16	15°♌58'05	10.61292 AU
evening set	-3020 Oct 17 j 08:14	16°♌09'56		morning rise	-3014 Jan 16 j 01:18	18°♌07'29	
				retrograde	-3014 May 01 j 11:41	25°♌50'05	
conjunction	-3020 Nov 02 j 18:18	18°♌04'08	1°52'45	opposition	-3014 Jul 10 j 19:52	22°♌24'35	0°-39'-7
minimum elong	-3020 Nov 02 j 18:21	18°♌04'09	1°52'43	min. Earth dist.	-3014 Jul 11 j 04:37	22°♌22'54	8.53877 AU
max. Earth dist.	-3020 Nov 02 j 05:16	18°♌00'20	11.15838 AU	direct	-3014 Sep 16 j 22:17	19°♌03'26	
morning rise	-3020 Nov 19 j 04:23	19°♌58'26		evening set	-3014 Dec 25 j 17:16	26°♌29'02	
retrograde	-3019 Feb 28 j 05:53	26°♌55'54					
opposition	-3019 May 10 j 06:15	23°♌38'13	2°06'12	conjunction	-3013 Jan 11 j 18:23	28°♌36'20	0°-46'-33
min. Earth dist.	-3019 May 10 j 18:10	23°♌36'02	9.12813 AU	minimum elong	-3013 Jan 11 j 18:21	28°♌36'19	0°46'40
direct	-3019 Jul 20 j 02:52	20°♌20'20		max. Earth dist.	-3013 Jan 11 j 08:17	28°♌33'10	10.46596 AU
evening set	-3019 Oct 28 j 09:52	27°♌16'13			-3013 Jan 22 j 22:08	0°♌	
				morning rise	-3013 Jan 29 j 00:28	0°♌45'11	
conjunction	-3019 Nov 13 j 21:00	29°♌11'33	1°33'19	retrograde	-3013 May 15 j 06:28	8°♌39'57	
minimum elong	-3019 Nov 13 j 21:03	29°♌11'34	1°33'16	opposition	-3013 Jul 24 j 05:07	5°♌12'48	-1°-16'-26
max. Earth dist.	-3019 Nov 13 j 06:24	29°♌07'16	11.08977 AU	min. Earth dist.	-3013 Jul 24 j 12:02	5°♌11'26	8.39185 AU
	-3019 Nov 20 j 17:57	0°♌		direct	-3013 Sep 29 j 18:10	1°♌50'27	
morning rise	-3019 Nov 30 j 09:20	1°♌07'17		evening set	-3012 Jan 07 j 21:17	9°♌26'15	
retrograde	-3018 Mar 12 j 05:23	8°♌10'55					
opposition	-3018 May 22 j 07:35	4°♌51'57	1°40'08	conjunction	-3012 Jan 25 j 02:07	11°♌36'39	-1°-15'-38
min. Earth dist.	-3018 May 22 j 20:30	4°♌49'35	9.04668 AU	minimum elong	-3012 Jan 25 j 02:04	11°♌36'39	1°15'45
direct	-3018 Jul 31 j 18:20	1°♌33'50		max. Earth dist.	-3012 Jan 24 j 19:18	11°♌34'29	10.32034 AU
evening set	-3018 Nov 08 j 15:18	8°♌32'25		morning rise	-3012 Feb 11 j 12:03	13°♌48'43	
				retrograde	-3012 May 28 j 12:21	21°♌55'37	
conjunction	-3018 Nov 25 j 04:22	10°♌29'25	1°09'59	opposition	-3012 Aug 05 j 22:23	18°♌26'57	-1°-51'-4
minimum elong	-3018 Nov 25 j 04:24	10°♌29'25	1°09'56	min. Earth dist.	-3012 Aug 06 j 02:30	18°♌26'08	8.25036 AU
max. Earth dist.	-3018 Nov 24 j 13:51	10°♌25'06	10.99734 AU	direct	-3012 Oct 11 j 21:52	15°♌03'20	
morning rise	-3018 Dec 11 j 19:30	12°♌27'05		evening set	-3011 Jan 20 j 14:44	22°♌50'03	
	-3017 Jan 03 j 18:57	15°♌					
retrograde	-3017 Mar 24 j 10:43	19°♌38'23		conjunction	-3011 Feb 06 j 23:23	25°♌03'32	-1°-41'-30
opposition	-3017 Jun 03 j 13:10	16°♌17'56	1°09'37	minimum elong	-3011 Feb 06 j 23:20	25°♌03'31	1°41'36
min. Earth dist.	-3017 Jun 04 j 01:39	16°♌15'37	8.94288 AU	max. Earth dist.	-3011 Feb 06 j 20:24	25°♌02'34	10.18386 AU
	-3017 Jun 21 j 11:53	15°♌		morning rise	-3011 Feb 24 j 13:05	27°♌18'42	
direct	-3017 Aug 12 j 11:33	12°♌59'22			-3011 Mar 18 j 16:22	0°♌	
	-3017 Oct 01 j 06:32	15°♌		retrograde	-3011 Jun 12 j 03:23	5°♌36'48	
evening set	-3017 Nov 20 j 02:27	20°♌02'20		opposition	-3011 Aug 19 j 23:12	2°♌06'52	-2°-20'-40
				min. Earth dist.	-3011 Aug 19 j 23:54	2°♌06'44	8.12222 AU
conjunction	-3017 Dec 06 j 18:05	22°♌01'24	0°43'25		-3011 Sep 17 j 03:34	30°♌	
minimum elong	-3017 Dec 06 j 18:06	22°♌01'25	0°43'21	direct	-3011 Oct 25 j 10:47	28°♌41'57	
max. Earth dist.	-3017 Dec 06 j 04:37	21°♌57'22	10.88415 AU		-3011 Dec 01 j 23:17	0°♌	
morning rise	-3017 Dec 23 j 12:23	24°♌01'23		evening set	-3010 Feb 03 j 21:31	6°♌39'38	
	-3016 Feb 23 j 16:23	0°♌					
retrograde	-3016 Apr 05 j 01:52	1°♌21'56		conjunction	-3010 Feb 21 j 10:01	8°♌56'02	-2°-2'-15
	-3016 May 17 j 10:10	30°♌		minimum elong	-3010 Feb 21 j 09:58	8°♌56'01	2°02'21
opposition	-3016 Jun 15 j 00:30	27°♌59'50	0°35'27	max. Earth dist.	-3010 Feb 21 j 10:39	8°♌56'14	10.06459 AU

Planetary Phenomena of Saturn from -3400 through -2900 (UT), Astrodienst AG 14-Nov-2015 16:04, page 33

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 03:20	11° \approx 14'04		evening set	-3004 May 05 j 00:50	3° U 57'34	
	-3010 Apr 11 j 11:30	15° \approx					
retrograde	-3010 Jun 27 j 01:33	19° \approx 41'27		conjunction	-3004 May 23 j 05:34	6° U 18'57	-1°-18'-3
opposition	-3010 Sep 03 j 06:48	16° \approx 10'35	-2°-42'-49	minimum elong	-3004 May 23 j 05:38	6° U 18'58	1°18'00
min. Earth dist.	-3010 Sep 03 j 04:23	16° \approx 11'05	8.01520 AU	max. Earth dist.	-3004 May 23 j 20:47	6° U 23'54	10.02078 AU
	-3010 Sep 17 j 22:17	15° R \approx		morning rise	-3004 Jun 10 j 08:37	8° U 39'44	
direct	-3010 Nov 08 j 09:28	12° \approx 44'23			-3004 Aug 08 j 05:16	15° U	
	-3010 Dec 28 j 05:21	15° \approx		retrograde	-3004 Sep 22 j 00:17	16° U 48'55	
evening set	-3009 Feb 18 j 16:32	20° \approx 52'15			-3004 Nov 06 j 15:24	15° R U	
				opposition	-3004 Nov 27 j 09:44	13° U 21'23	-1°-18'-35
conjunction	-3009 Mar 08 j 08:50	23° \approx 11'14	-2°-16'-8	min. Earth dist.	-3004 Nov 26 j 22:04	13° U 23'48	8.07071 AU
minimum elong	-3009 Mar 08 j 08:48	23° \approx 11'14	2°16'12	direct	-3003 Feb 02 j 20:45	9° U 51'38	
max. Earth dist.	-3009 Mar 08 j 13:03	23° \approx 12'38	9.97023 AU		-3003 Apr 24 j 06:16	15° U	
morning rise	-3009 Mar 26 j 05:30	25° \approx 31'40		evening set	-3003 May 20 j 03:01	18° U 06'26	
	-3009 May 02 j 17:57	0° H					
retrograde	-3009 Jul 12 j 04:00	4° H 05'25		conjunction	-3003 Jun 07 j 06:41	20° U 25'44	0°-46'-52
opposition	-3009 Sep 17 j 19:32	0° H 34'04	-2°-55'-21	minimum elong	-3003 Jun 07 j 06:43	20° U 25'45	0°46'48
min. Earth dist.	-3009 Sep 17 j 14:25	0° H 35'07	7.93645 AU	max. Earth dist.	-3003 Jun 07 j 21:17	20° U 30'26	10.12631 AU
	-3009 Sep 24 j 16:38	30° R \approx		morning rise	-3003 Jun 25 j 07:15	22° U 44'02	
direct	-3009 Nov 22 j 16:39	27° \approx 06'41			-3003 Sep 08 j 15:16	0° II	
	-3008 Jan 18 j 09:33	0° H		retrograde	-3003 Oct 05 j 19:48	0° II 41'06	
evening set	-3008 Mar 04 j 21:38	5° H 23'00			-3003 Nov 02 j 04:42	30° R U	
				opposition	-3003 Dec 11 j 07:25	27° U 15'16	0°-38'-5
conjunction	-3008 Mar 22 j 17:40	7° H 44'04	-2°-21'-41	min. Earth dist.	-3003 Dec 10 j 20:29	27° U 17'30	8.18605 AU
minimum elong	-3008 Mar 22 j 17:40	7° H 44'04	2°21'44	direct	-3002 Feb 17 j 09:20	23° U 46'01	
max. Earth dist.	-3008 Mar 23 j 01:21	7° H 46'37	9.90751 AU		-3002 May 19 j 05:58	0° II	
morning rise	-3008 Apr 09 j 17:22	10° H 06'18		evening set	-3002 Jun 03 j 19:31	1° II 53'12	
retrograde	-3008 Jul 26 j 08:08	18° H 42'40					
opposition	-3008 Oct 01 j 11:24	15° H 11'16	-2°-56'-47	conjunction	-3002 Jun 21 j 20:31	4° II 09'46	0°-13'-43
min. Earth dist.	-3008 Oct 01 j 04:05	15° H 12'47	7.89166 AU	minimum elong	-3002 Jun 21 j 20:32	4° II 09'46	0°13'38
direct	-3008 Dec 06 j 07:33	11° H 42'51		behind sun begin	-3002 Jun 21 j 16:42	4° II 08'34	
evening set	-3007 Mar 20 j 09:41	20° H 05'03		behind sun end	-3002 Jun 22 j 00:21	4° II 10'58	
				max. Earth dist.	-3002 Jun 22 j 09:53	4° II 14'00	10.25111 AU
conjunction	-3007 Apr 07 j 09:13	22° H 27'31	-2°-18'-8	morning rise	-3002 Jul 09 j 17:21	6° II 25'00	
minimum elong	-3007 Apr 07 j 09:15	22° H 27'32	2°18'10	retrograde	-3002 Oct 19 j 05:21	14° II 09'45	
max. Earth dist.	-3007 Apr 07 j 19:57	22° H 31'06	9.88104 AU	asc. node	-3002 Nov 24 j 11:02	13° II 00'12	
morning rise	-3007 Apr 25 j 11:23	24° H 50'47		opposition	-3002 Dec 24 j 21:47	10° II 45'41	0°03'18
	-3007 Jun 08 j 06:46	0° Y		min. Earth dist.	-3002 Dec 24 j 12:25	10° II 47'34	8.31785 AU
retrograde	-3007 Aug 10 j 10:18	3° Y 25'34		direct	-3001 Mar 03 j 15:16	7° II 17'11	
	-3007 Oct 15 j 02:05	30° R H		evening set	-3001 Jun 18 j 00:38	15° II 15'33	
opposition	-3007 Oct 16 j 03:58	29° H 54'35	-2°-46'-37				
min. Earth dist.	-3007 Oct 15 j 18:53	29° H 56'29	7.88398 AU	conjunction	-3001 Jul 05 j 21:37	17° II 28'54	0°19'22
direct	-3007 Dec 21 j 04:08	26° H 25'23		minimum elong	-3001 Jul 05 j 21:36	17° II 28'54	0°19'28
	-3006 Feb 23 j 04:26	0° Y		max. Earth dist.	-3001 Jul 06 j 08:42	17° II 32'21	10.38873 AU
evening set	-3006 Apr 05 j 00:59	4° Y 50'19		morning rise	-3001 Jul 23 j 13:50	19° II 40'45	
				retrograde	-3001 Nov 01 j 03:25	27° II 13'36	
conjunction	-3006 Apr 23 j 03:21	7° Y 13'21	-2°-5'-35	opposition	-3000 Jan 07 j 04:19	23° II 51'16	0°43'11
minimum elong	-3006 Apr 23 j 03:24	7° Y 13'22	2°05'35	min. Earth dist.	-3000 Jan 06 j 20:48	23° II 52'46	8.45927 AU
max. Earth dist.	-3006 Apr 23 j 16:33	7° Y 17'43	9.89254 AU	direct	-3000 Mar 16 j 14:23	20° II 23'42	
morning rise	-3006 May 11 j 07:02	9° Y 36'43		evening set	-3000 Jun 30 j 17:59	28° II 12'42	
retrograde	-3006 Aug 25 j 07:12	18° Y 05'54			-3000 Jul 15 j 08:46	0° U	
opposition	-3006 Oct 30 j 18:35	14° Y 35'43	-2°-25'-32				
min. Earth dist.	-3006 Oct 30 j 07:58	14° Y 37'56	7.91366 AU	conjunction	-3000 Jul 18 j 10:01	0° U 22'35	0°50'29
direct	-3005 Jan 05 j 03:29	11° Y 06'01		minimum elong	-3000 Jul 18 j 09:59	0° U 22'35	0°50'35
evening set	-3005 Apr 20 j 15:17	19° Y 30'21		max. Earth dist.	-3000 Jul 18 j 18:03	0° U 25'04	10.53204 AU
				morning rise	-3000 Aug 04 j 21:01	2° U 30'55	
conjunction	-3005 May 08 j 19:30	21° Y 53'00	-1°-45'00	retrograde	-3000 Nov 12 j 15:46	9° U 52'51	
minimum elong	-3005 May 08 j 19:34	21° Y 53'01	1°44'58	opposition	-2999 Jan 19 j 03:08	6° U 32'07	1°19'35
max. Earth dist.	-3005 May 09 j 10:19	21° Y 57'52	9.94067 AU	min. Earth dist.	-2999 Jan 18 j 21:20	6° U 33'15	8.60304 AU
morning rise	-3005 May 26 j 23:32	24° Y 15'32		direct	-2999 Mar 30 j 05:05	3° U 05'39	
	-3005 Jul 16 j 17:32	0° U		evening set	-2999 Jul 13 j 23:17	10° U 45'11	
retrograde	-3005 Sep 08 j 20:21	2° U 35'47					
	-3005 Nov 03 j 10:27	30° R Y		conjunction	-2999 Jul 31 j 09:55	12° U 51'37	1°18'20
opposition	-3005 Nov 14 j 05:06	29° Y 06'47	-1°-55'-21	minimum elong	-2999 Jul 31 j 09:52	12° U 51'36	1°18'25
min. Earth dist.	-3005 Nov 13 j 17:30	29° Y 09'11	7.97782 AU	max. Earth dist.	-2999 Jul 31 j 15:12	12° U 53'13	10.67394 AU
direct	-3004 Jan 20 j 02:19	25° Y 36'52		morning rise	-2999 Aug 17 j 15:25	14° U 56'28	
	-3004 Apr 01 j 20:19	0° U		retrograde	-2999 Nov 24 j 21:14	22° U 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 18:58	18° 5 49'31	1°51'06	retrograde	-2992 Feb 01 j 06:35	0° 5 15'10	
min. Earth dist.	-2998 Jan 31 j 14:31	18° 5 50'22	8.74223 AU		-2992 Feb 19 j 00:48	30° R 11	
direct	-2998 Apr 12 j 09:47	15° 5 24'16		opposition	-2992 Apr 11 j 18:20	26° 11 58'57	2°47'42
evening set	-2998 Jul 26 j 16:48	22° 5 54'36		min. Earth dist.	-2992 Apr 12 j 02:20	26° 11 57'29	9.20547 AU
				direct	-2992 Jun 22 j 08:42	23° 11 40'02	
conjunction	-2998 Aug 12 j 22:02	24° 5 57'48	1°41'53		-2992 Sep 26 j 14:39	0° 5	
minimum elong	-2998 Aug 12 j 21:59	24° 5 57'47	1°41'58	evening set	-2992 Oct 01 j 22:18	0° 5 35'57	
max. Earth dist.	-2998 Aug 13 j 01:28	24° 5 58'50	10.80794 AU				
morning rise	-2998 Aug 29 j 22:07	26° 5 59'28		conjunction	-2992 Oct 18 j 08:02	2° 5 29'27	2°13'03
	-2998 Sep 26 j 01:47	0° 5		minimum elong	-2992 Oct 18 j 08:04	2° 5 29'27	2°13'03
retrograde	-2998 Dec 06 j 19:25	4° 5 03'51		max. Earth dist.	-2992 Oct 17 j 21:30	2° 5 26'23	11.20167 AU
opposition	-2997 Feb 13 j 04:33	0° 5 45'41	2°16'48	morning rise	-2992 Nov 03 j 16:40	4° 5 22'41	
min. Earth dist.	-2997 Feb 13 j 02:11	0° 5 46'08	8.87068 AU	retrograde	-2991 Feb 11 j 18:30	11° 5 14'05	
	-2997 Feb 23 j 07:08	30° R 5		opposition	-2991 Apr 23 j 13:08	7° 5 57'27	2°34'48
direct	-2997 Apr 25 j 05:52	27° 5 21'38		min. Earth dist.	-2991 Apr 23 j 23:01	7° 5 55'39	9.19476 AU
	-2997 Jun 23 j 02:47	0° 5		direct	-2991 Jul 03 j 22:05	4° 5 39'08	
evening set	-2997 Aug 07 j 23:50	4° 5 43'29		evening set	-2991 Oct 12 j 21:46	11° 5 33'51	
conjunction	-2997 Aug 24 j 23:56	6° 5 43'46	2°00'30	conjunction	-2991 Oct 29 j 07:28	13° 5 27'42	2°00'01
minimum elong	-2997 Aug 24 j 23:53	6° 5 43'45	2°00'34	minimum elong	-2991 Oct 29 j 07:31	13° 5 27'42	2°00'00
max. Earth dist.	-2997 Aug 25 j 01:05	6° 5 44'07	10.92839 AU	max. Earth dist.	-2991 Oct 28 j 19:40	13° 5 24'15	11.17773 AU
morning rise	-2997 Sep 10 j 19:07	8° 5 42'40		morning rise	-2991 Nov 14 j 17:02	15° 5 21'32	
	-2997 Nov 20 j 06:43	15° 5		retrograde	-2990 Feb 23 j 09:25	22° 5 16'38	
retrograde	-2997 Dec 18 j 12:58	15° 5 40'39		opposition	-2990 May 05 j 09:34	18° 5 59'17	2°16'10
	-2996 Jan 16 j 04:16	15° R 4		min. Earth dist.	-2990 May 05 j 20:03	18° 5 57'22	9.15694 AU
opposition	-2996 Feb 25 j 08:38	12° 5 42'25	2°36'08	direct	-2990 Jul 15 j 11:11	15° 5 41'20	
min. Earth dist.	-2996 Feb 25 j 09:06	12° 5 42'20	8.98324 AU	evening set	-2990 Oct 23 j 22:07	22° 5 36'22	
direct	-2996 May 06 j 17:53	9° 5 00'33					
	-2996 Aug 07 j 20:36	15° 5		conjunction	-2990 Nov 09 j 08:47	24° 5 31'05	1°42'26
evening set	-2996 Aug 18 j 21:38	16° 5 41'51		minimum elong	-2990 Nov 09 j 08:50	24° 5 31'06	1°42'23
				max. Earth dist.	-2990 Nov 08 j 20:58	24° 5 27'37	11.12722 AU
conjunction	-2996 Sep 04 j 17:00	18° 5 41'24	2°13'50	morning rise	-2990 Nov 25 j 19:59	26° 5 26'04	
minimum elong	-2996 Sep 04 j 16:58	18° 5 41'24	2°13'54		-2990 Dec 29 j 12:48	0° 5 11	
max. Earth dist.	-2996 Sep 04 j 14:53	18° 5 41'20	11.03077 AU	retrograde	-2989 Mar 07 j 07:32	3° 5 16'26	
morning rise	-2996 Sep 21 j 08:09	20° 5 40'18		opposition	-2989 May 17 j 08:53	0° 5 10'08'09	1°52'14
retrograde	-2996 Dec 29 j 00:19	27° 5 40'23		min. Earth dist.	-2989 May 17 j 19:17	0° 5 10'06'14	9.09308 AU
opposition	-2995 Mar 08 j 08:36	23° 5 46'00	2°48'53		-2989 May 19 j 05:18	30° R 11	
min. Earth dist.	-2995 Mar 08 j 11:40	23° 5 45'26	9.07574 AU	direct	-2989 Jul 27 j 01:17	26° 5 50'21	
direct	-2995 May 18 j 23:00	20° 5 42'17			-2989 Sep 29 j 03:36	0° 5 11	
evening set	-2995 Aug 30 j 11:24	27° 5 43'06		evening set	-2989 Nov 04 j 01:32	3° 5 14'7'12	
conjunction	-2995 Sep 16 j 02:52	29° 5 42'7'58	2°21'43	conjunction	-2989 Nov 20 j 13:43	5° 5 14'3'18	1°20'44
minimum elong	-2995 Sep 16 j 02:51	29° 5 42'7'58	2°21'46	minimum elong	-2989 Nov 20 j 13:46	5° 5 14'3'18	1°20'41
max. Earth dist.	-2995 Sep 15 j 21:50	29° 5 42'6'30	11.11156 AU	max. Earth dist.	-2989 Nov 20 j 01:23	5° 5 13'39'39	11.05164 AU
	-2995 Sep 20 j 16:31	0° 5 11		morning rise	-2989 Dec 07 j 03:19	7° 5 13'39'55	
morning rise	-2995 Oct 02 j 14:55	1° 5 12'2'52		retrograde	-2988 Mar 18 j 10:26	14° 5 14'7'07	
retrograde	-2994 Jan 09 j 10:21	8° 5 13'12		opposition	-2988 May 28 j 12:15	11° 5 12'7'40	1°23'34
opposition	-2994 Mar 20 j 05:25	4° 5 15'6'59	2°54'58	min. Earth dist.	-2988 May 28 j 23:04	11° 5 12'5'41	9.00530 AU
min. Earth dist.	-2994 Mar 20 j 09:53	4° 5 15'6'10	9.14499 AU	direct	-2988 Aug 06 j 15:36	8° 5 10'9'45	
direct	-2994 May 30 j 23:50	1° 5 16'36'20			-2988 Nov 12 j 23:16	15° 5 11	
evening set	-2994 Sep 10 j 18:54	8° 5 17'38'51		evening set	-2988 Nov 14 j 09:50	15° 5 11'10'03	
				max. Earth dist.	-2988 Nov 30 j 10:55	17° 5 11'04'02	10.95362 AU
conjunction	-2994 Sep 27 j 07:36	10° 5 18'33'22	2°24'08	conjunction	-2988 Dec 01 j 00:03	17° 5 11'07'57	0°55'30
minimum elong	-2994 Sep 27 j 07:36	10° 5 18'33'22	2°24'10	minimum elong	-2988 Dec 01 j 00:05	17° 5 11'07'58	0°55'26
max. Earth dist.	-2994 Sep 27 j 01:11	10° 5 18'31'30	11.16807 AU	morning rise	-2988 Dec 17 j 16:49	19° 5 11'06'40	
morning rise	-2994 Oct 13 j 17:25	12° 5 19'27'06		retrograde	-2987 Mar 30 j 20:37	26° 5 11'22'13	
retrograde	-2993 Jan 20 j 20:42	19° 5 20'16'08		opposition	-2987 Jun 09 j 20:53	23° 5 11'01'25	0°50'55
opposition	-2993 Apr 01 j 00:09	16° 5 21'00'02	2°54'31	min. Earth dist.	-2987 Jun 10 j 07:57	22° 5 11'59'21	8.89673 AU
min. Earth dist.	-2993 Apr 01 j 06:03	15° 5 21'58'57	9.18872 AU	direct	-2987 Aug 18 j 11:37	19° 5 11'43'05	
direct	-2993 Jun 11 j 17:59	12° 5 22'40'21		evening set	-2987 Nov 26 j 00:41	26° 5 11'48'25	
evening set	-2993 Sep 21 j 21:56	19° 5 23'38'51					
conjunction	-2993 Oct 08 j 08:46	21° 5 24'32'36	2°21'11	conjunction	-2987 Dec 12 j 17:36	28° 5 11'48'33	0°27'29
minimum elong	-2993 Oct 08 j 08:47	21° 5 24'32'36	2°21'12	minimum elong	-2987 Dec 12 j 17:38	28° 5 11'48'33	0°27'24
max. Earth dist.	-2993 Oct 08 j 00:46	21° 5 24'30'16	11.19844 AU	max. Earth dist.	-2987 Dec 12 j 04:57	28° 5 11'44'44	10.83646 AU
morning rise	-2993 Oct 24 j 17:24	23° 5 25'25'47			-2987 Dec 22 j 14:50	0° 5 12	
	-2992 Jan 14 j 15:44	0° 5 13		morning rise	-2987 Dec 29 j 13:55	0° 5 12'49'45	

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

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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 19:07	21°♄04'01	8.11537 AU	opposition	-2967 Feb 19 j 02:11	7°♄12'59	2°27'45
direct	-2973 Feb 11 j 01:01	17°♄31'39		min. Earth dist.	-2967 Feb 19 j 00:39	7°♄13'16	8.93557 AU
evening set	-2973 May 28 j 08:46	25°♄42'52		direct	-2967 May 01 j 08:08	3°♄49'53	
				evening set	-2967 Aug 13 j 18:48	11°♄07'50	
conjunction	-2973 Jun 15 j 11:09	28°♄00'55	0°-29'-32	conjunction	-2967 Aug 30 j 16:21	13°♄06'47	2°08'10
minimum elong	-2973 Jun 15 j 11:10	28°♄00'56	0°29'28	minimum elong	-2967 Aug 30 j 16:19	13°♄06'46	2°08'14
max. Earth dist.	-2973 Jun 16 j 00:32	28°♄05'12	10.17690 AU	max. Earth dist.	-2967 Aug 30 j 16:16	13°♄06'45	10.98969 AU
	-2973 Jul 01 j 01:22	0°♄			-2967 Sep 15 j 18:07	15°♄	
morning rise	-2973 Jul 03 j 10:09	0°♄17'49		morning rise	-2967 Sep 16 j 09:23	15°♄04'25	
retrograde	-2973 Oct 13 j 07:59	8°♄08'37		retrograde	-2967 Dec 24 j 02:34	21°♄59'53	
opposition	-2973 Dec 18 j 23:26	4°♄43'06	0°-16'-15	opposition	-2966 Mar 03 j 04:23	18°♄43'25	2°43'36
min. Earth dist.	-2973 Dec 18 j 12:51	4°♄45'15	8.24170 AU	min. Earth dist.	-2966 Mar 03 j 04:47	18°♄43'20	9.04085 AU
direct	-2972 Feb 25 j 11:12	1°♄13'37		direct	-2966 May 13 j 16:05	15°♄21'38	
asc. node	-2972 May 15 j 23:59	6°♄14'28		evening set	-2966 Aug 25 j 12:29	22°♄32'32	
evening set	-2972 Jun 10 j 19:14	9°♄16'25					
conjunction	-2972 Jun 28 j 18:21	11°♄31'25	0°03'53	conjunction	-2966 Sep 11 j 05:52	24°♄29'16	2°18'36
minimum elong	-2972 Jun 28 j 18:21	11°♄31'25	0°03'59	minimum elong	-2966 Sep 11 j 05:51	24°♄29'16	2°18'39
behind sun begin	-2972 Jun 28 j 11:10	11°♄29'11		max. Earth dist.	-2966 Sep 11 j 03:40	24°♄28'37	11.08353 AU
behind sun end	-2972 Jun 29 j 01:32	11°♄33'40		morning rise	-2966 Sep 27 j 19:10	26°♄24'53	
max. Earth dist.	-2972 Jun 29 j 06:41	11°♄35'18	10.31151 AU		-2966 Oct 31 j 17:50	0°♄	
morning rise	-2972 Jul 16 j 13:06	13°♄45'02		retrograde	-2965 Jan 04 j 14:55	3°♄16'34	
retrograde	-2972 Oct 25 j 10:59	21°♄23'33		opposition	-2965 Mar 15 j 02:57	0°♄00'42	2°52'47
opposition	-2972 Dec 31 j 09:24	17°♄59'53	0°24'37	min. Earth dist.	-2965 Mar 15 j 06:19	0°♄00'05	9.12333 AU
min. Earth dist.	-2972 Dec 30 j 23:37	18°♄01'50	8.38195 AU		-2965 Mar 15 j 06:45	30°♄	
direct	-2971 Mar 10 j 13:30	14°♄31'23		direct	-2965 May 25 j 18:43	26°♄40'05	
evening set	-2971 Jun 24 j 18:07	22°♄24'56		evening set	-2965 Aug 01 j 01:45	0°♄	
					-2965 Sep 05 j 23:23	3°♄45'05	
conjunction	-2971 Jul 12 j 12:47	24°♄36'33	0°36'04	conjunction	-2965 Sep 22 j 13:18	5°♄40'10	2°23'34
minimum elong	-2971 Jul 12 j 12:45	24°♄36'33	0°36'11	minimum elong	-2965 Sep 22 j 13:17	5°♄40'10	2°23'36
max. Earth dist.	-2971 Jul 12 j 23:44	24°♄39'57	10.45583 AU	max. Earth dist.	-2965 Sep 22 j 07:34	5°♄38'30	11.15294 AU
morning rise	-2971 Jul 30 j 02:20	26°♄46'37		morning rise	-2965 Oct 09 j 00:01	7°♄34'22	
	-2971 Aug 27 j 05:37	0°♄		retrograde	-2964 Jan 16 j 00:13	14°♄23'53	
retrograde	-2971 Nov 07 j 05:36	4°♄13'40		opposition	-2964 Mar 25 j 22:52	11°♄08'19	2°55'21
opposition	-2970 Jan 13 j 11:45	0°♄51'50	1°02'53	min. Earth dist.	-2964 Mar 26 j 05:10	11°♄07'09	9.17965 AU
min. Earth dist.	-2970 Jan 13 j 03:45	0°♄53'25	8.52846 AU	direct	-2964 Jun 05 j 15:08	7°♄48'41	
	-2970 Jan 24 j 13:46	30°♄		evening set	-2964 Sep 16 j 04:54	14°♄49'07	
direct	-2970 Mar 24 j 06:06	27°♄24'34					
	-2970 May 20 j 11:34	0°♄		conjunction	-2964 Oct 02 j 16:21	16°♄43'08	2°23'05
evening set	-2970 Jul 08 j 05:03	5°♄08'37		minimum elong	-2964 Oct 02 j 16:22	16°♄43'08	2°23'06
conjunction	-2970 Jul 25 j 18:28	7°♄16'44	1°05'37	max. Earth dist.	-2964 Oct 02 j 07:36	16°♄40'35	11.19507 AU
minimum elong	-2970 Jul 25 j 18:25	7°♄16'43	1°05'43	morning rise	-2964 Oct 19 j 01:32	18°♄36'31	
max. Earth dist.	-2970 Jul 26 j 03:03	7°♄19'22	10.60239 AU	retrograde	-2963 Jan 26 j 09:42	25°♄25'41	
morning rise	-2970 Aug 12 j 02:30	9°♄23'15		opposition	-2963 Apr 06 j 17:40	22°♄10'03	2°51'28
retrograde	-2970 Nov 19 j 14:55	16°♄40'04		min. Earth dist.	-2963 Apr 07 j 01:45	22°♄08'34	9.20746 AU
opposition	-2969 Jan 26 j 06:54	13°♄19'57	1°36'51	direct	-2963 Jun 17 j 09:43	18°♄51'14	
min. Earth dist.	-2969 Jan 26 j 01:23	13°♄21'02	8.67396 AU	evening set	-2963 Sep 27 j 06:39	25°♄48'28	
direct	-2969 Apr 06 j 14:12	9°♄54'02					
evening set	-2969 Jul 21 j 04:10	17°♄28'46		conjunction	-2963 Oct 13 j 16:50	27°♄42'01	2°17'19
conjunction	-2969 Aug 07 j 12:00	19°♄33'30	1°31'18	minimum elong	-2963 Oct 13 j 16:51	27°♄42'02	2°17'19
minimum elong	-2969 Aug 07 j 11:56	19°♄33'30	1°31'23	max. Earth dist.	-2963 Oct 13 j 06:44	27°♄39'05	11.20844 AU
max. Earth dist.	-2969 Aug 07 j 17:16	19°♄35'06	10.74424 AU	morning rise	-2963 Oct 30 j 01:21	29°♄35'11	
morning rise	-2969 Aug 24 j 14:40	21°♄36'42			-2963 Nov 02 j 17:14	0°♄	
retrograde	-2969 Dec 01 j 15:22	28°♄44'46		retrograde	-2962 Feb 06 j 22:28	6°♄25'45	
opposition	-2968 Feb 07 j 19:25	25°♄26'09	2°05'23	opposition	-2962 Apr 18 j 12:30	3°♄09'42	2°41'21
min. Earth dist.	-2968 Feb 07 j 16:11	25°♄26'46	8.81165 AU	min. Earth dist.	-2962 Apr 18 j 21:39	3°♄08'02	9.20618 AU
direct	-2968 Apr 18 j 15:21	22°♄01'38			-2962 Jun 15 j 13:57	30°♄	
evening set	-2968 Aug 01 j 16:27	29°♄27'37		direct	-2962 Jun 29 j 00:35	29°♄51'30	
	-2968 Aug 06 j 06:49	0°♄		evening set	-2962 Jul 12 j 07:50	0°♄	
					-2962 Oct 08 j 06:52	6°♄46'55	
conjunction	-2968 Aug 18 j 18:50	1°♄29'14	1°52'19	conjunction	-2962 Oct 24 j 16:39	8°♄40'36	2°06'31
minimum elong	-2968 Aug 18 j 18:47	1°♄29'13	1°52'23	minimum elong	-2962 Oct 24 j 16:41	8°♄40'37	2°06'30
max. Earth dist.	-2968 Aug 18 j 20:50	1°♄29'50	10.87510 AU	max. Earth dist.	-2962 Oct 24 j 05:06	8°♄37'15	11.19314 AU
morning rise	-2968 Sep 04 j 16:26	3°♄29'25		morning rise	-2962 Nov 10 j 01:33	10°♄34'09	
retrograde	-2968 Dec 12 j 11:32	10°♄30'23		retrograde	-2961 Feb 18 j 12:12	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 08:23	14°♁10'56	2°25'19	max. Earth dist.	-2956 Dec 30 j 13:44	17°♁43'00	10.60621 AU
min. Earth dist.	-2961 Apr 30 j 19:18	14°♁08'56	9.17648 AU	morning rise	-2955 Jan 17 j 03:37	19°♁52'25	
direct	-2961 Jul 10 j 12:32	10°♁53'01		retrograde	-2955 May 02 j 14:03	27°♁35'34	
evening set	-2961 Oct 19 j 07:13	17°♁48'09		opposition	-2955 Jul 11 j 22:52	24°♁09'58	0°-42'-50
conjunction	-2961 Nov 04 j 17:19	19°♁42'29	1°50'59	min. Earth dist.	-2955 Jul 12 j 07:32	24°♁08'17	8.53273 AU
minimum elong	-2961 Nov 04 j 17:22	19°♁42'30	1°50'57	direct	-2955 Sep 18 j 01:48	20°♁48'44	
max. Earth dist.	-2961 Nov 04 j 03:45	19°♁38'31	11.15021 AU	evening set	-2955 Dec 26 j 19:38	28°♁14'40	
morning rise	-2961 Nov 21 j 03:42	21°♁36'57			-2954 Jan 09 j 22:36	0°♁	
retrograde	-2960 Mar 01 j 06:44	28°♁35'03		conjunction	-2954 Jan 12 j 21:02	0°♁22'05	0°-49'-28
opposition	-2960 May 11 j 06:46	25°♁17'19	2°03'46	minimum elong	-2954 Jan 12 j 21:00	0°♁22'05	0°49'35
min. Earth dist.	-2960 May 11 j 19:06	25°♁15'03	9.11975 AU	max. Earth dist.	-2954 Jan 12 j 12:07	0°♁19'18	10.46059 AU
direct	-2960 Jul 21 j 03:01	21°♁59'25		morning rise	-2954 Jan 30 j 03:13	2°♁31'04	
evening set	-2960 Oct 29 j 09:18	28°♁55'42		retrograde	-2954 May 16 j 10:28	10°♁26'15	
	-2960 Nov 07 j 14:28	0°♁		opposition	-2954 Jul 25 j 08:17	6°♁59'00	-1°-19'-54
conjunction	-2960 Nov 14 j 20:37	0°♁51'13	1°31'06	min. Earth dist.	-2954 Jul 25 j 14:26	6°♁57'47	8.38734 AU
minimum elong	-2960 Nov 14 j 20:40	0°♁51'14	1°31'04	direct	-2954 Sep 30 j 20:35	3°♁36'35	
max. Earth dist.	-2960 Nov 14 j 06:20	0°♁47'00	11.08130 AU	evening set	-2953 Jan 09 j 00:17	11°♁12'41	
morning rise	-2960 Dec 01 j 09:12	2°♁47'08		conjunction	-2953 Jan 26 j 05:20	13°♁23'10	-1°-18'-16
retrograde	-2959 Mar 13 j 05:47	9°♁51'25		minimum elong	-2953 Jan 26 j 05:17	13°♁23'09	1°18'23
opposition	-2959 May 23 j 08:36	6°♁32'23	1°37'13	max. Earth dist.	-2953 Jan 25 j 23:31	13°♁21'19	10.31655 AU
min. Earth dist.	-2959 May 23 j 21:02	6°♁30'05	9.03808 AU	morning rise	-2953 Feb 12 j 15:19	15°♁35'17	
direct	-2959 Aug 01 j 18:25	3°♁14'16		retrograde	-2953 May 30 j 16:10	23°♁42'27	
evening set	-2959 Nov 09 j 15:15	10°♁13'17		opposition	-2953 Aug 08 j 01:29	20°♁13'41	-1°-54'-5
conjunction	-2959 Nov 26 j 04:37	12°♁10'26	1°07'25	min. Earth dist.	-2953 Aug 08 j 04:39	20°♁13'03	8.24755 AU
minimum elong	-2959 Nov 26 j 04:40	12°♁10'27	1°07'22	direct	-2953 Oct 14 j 00:36	16°♁50'00	
max. Earth dist.	-2959 Nov 25 j 15:10	12°♁06'26	10.98876 AU	evening set	-2952 Jan 22 j 18:08	24°♁36'56	
morning rise	-2959 Dec 12 j 19:54	14°♁08'16		conjunction	-2952 Feb 09 j 02:53	26°♁50'28	-1°-43'-41
	-2959 Dec 20 j 07:57	15°♁		minimum elong	-2952 Feb 09 j 02:49	26°♁50'27	1°43'47
retrograde	-2958 Mar 25 j 13:29	21°♁20'17		max. Earth dist.	-2952 Feb 09 j 00:06	26°♁49'35	10.18184 AU
opposition	-2958 Jun 04 j 14:48	17°♁59'44	1°06'17	morning rise	-2952 Feb 26 j 16:39	29°♁05'40	
min. Earth dist.	-2958 Jun 05 j 02:19	17°♁57'35	8.93436 AU		-2952 Mar 04 j 22:26	0°♁	
	-2958 Jul 24 j 23:32	15°♁		retrograde	-2952 Jun 13 j 07:00	7°♁23'51	
direct	-2958 Aug 13 j 13:11	14°♁41'10		opposition	-2952 Aug 21 j 02:18	3°♁53'50	-2°-23'-1
	-2958 Sep 01 j 19:45	15°♁		min. Earth dist.	-2952 Aug 21 j 02:30	3°♁53'48	8.12121 AU
evening set	-2958 Nov 21 j 03:02	21°♁44'31		direct	-2952 Oct 26 j 13:35	0°♁28'51	
conjunction	-2958 Dec 07 j 18:53	23°♁43'46	0°40'34	evening set	-2951 Feb 05 j 01:01	8°♁26'37	
minimum elong	-2958 Dec 07 j 18:54	23°♁43'46	0°40'30	conjunction	-2951 Feb 22 j 13:32	10°♁43'02	-2°-3'-50
max. Earth dist.	-2958 Dec 07 j 05:45	23°♁39'49	10.87581 AU	minimum elong	-2951 Feb 22 j 13:29	10°♁43'01	2°03'55
morning rise	-2958 Dec 24 j 13:28	25°♁43'56		max. Earth dist.	-2951 Feb 22 j 13:47	10°♁43'07	10.06446 AU
	-2957 Feb 02 j 16:19	0°♁♁		morning rise	-2951 Mar 12 j 07:01	13°♁01'04	
retrograde	-2957 Apr 07 j 05:23	3°♁05'06			-2951 Mar 28 j 04:41	15°♁	
	-2957 Jun 13 j 07:54	30°♁		retrograde	-2951 Jun 28 j 04:56	21°♁28'19	
opposition	-2957 Jun 17 j 02:40	29°♁42'56	0°31'51	opposition	-2951 Sep 04 j 09:43	17°♁57'25	-2°-44'-20
min. Earth dist.	-2957 Jun 17 j 13:26	29°♁40'55	8.81226 AU	min. Earth dist.	-2951 Sep 04 j 07:28	17°♁57'53	8.01603 AU
direct	-2957 Aug 25 j 10:06	26°♁23'41			-2951 Oct 17 j 21:25	15°♁	
	-2957 Oct 31 j 17:49	0°♁♁		direct	-2951 Nov 09 j 11:45	14°♁31'08	
evening set	-2957 Dec 02 j 22:31	3°♁33'02			-2951 Dec 01 j 23:48	15°♁	
conjunction	-2957 Dec 19 j 17:06	5°♁34'42	0°11'25	evening set	-2950 Feb 19 j 20:06	22°♁38'57	
minimum elong	-2957 Dec 19 j 17:07	5°♁34'43	0°11'19	conjunction	-2950 Mar 09 j 12:27	24°♁57'56	-2°-16'-59
behind sun begin	-2957 Dec 19 j 11:55	5°♁33'09		minimum elong	-2950 Mar 09 j 12:25	24°♁57'55	2°17'03
behind sun end	-2957 Dec 19 j 22:19	5°♁36'16		max. Earth dist.	-2950 Mar 09 j 16:05	24°♁59'08	9.97194 AU
max. Earth dist.	-2957 Dec 19 j 04:05	5°♁30'45	10.74658 AU	morning rise	-2950 Mar 27 j 09:19	27°♁18'21	
morning rise	-2956 Jan 05 j 15:27	7°♁37'35			-2950 Apr 18 j 01:24	0°♁	
retrograde	-2956 Apr 19 j 04:30	15°♁09'14		retrograde	-2950 Jul 13 j 07:18	5°♁51'43	
desc. node	-2956 May 09 j 12:00	14°♁49'07		opposition	-2950 Sep 18 j 22:03	2°♁20'22	-2°-55'-56
opposition	-2956 Jun 28 j 21:09	11°♁45'22	0°-5'00	min. Earth dist.	-2950 Sep 18 j 17:27	2°♁21'19	7.93900 AU
min. Earth dist.	-2956 Jun 29 j 07:14	11°♁43'26	8.67649 AU		-2950 Oct 19 j 22:57	30°♁	
direct	-2956 Sep 05 j 14:05	8°♁25'13		direct	-2950 Nov 23 j 19:14	28°♁52'53	
evening set	-2956 Dec 14 j 03:31	15°♁42'09			-2950 Dec 28 j 06:49	0°♁	
conjunction	-2956 Dec 31 j 01:20	17°♁46'34	0°-19'-5	evening set	-2949 Mar 07 j 00:59	7°♁09'04	
minimum elong	-2956 Dec 31 j 01:19	17°♁46'34	0°19'12	conjunction	-2949 Mar 24 j 21:08	9°♁30'05	-2°-21'-46

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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 21:08	9° Υ 30'05	2°21'49	direct	-2943 Feb 18 j 09:26	25° Υ 24'32	
max. Earth dist.	-2949 Mar 25 j 04:25	9° Υ 32'30	9.91083 AU		-2943 May 05 j 17:29	0° Π	
morning rise	-2949 Apr 11 j 20:59	11° Υ 52'16		evening set	-2943 Jun 04 j 19:26	3° Π 31'04	
retrograde	-2949 Jul 28 j 10:34	20° Υ 28'04					
opposition	-2949 Oct 03 j 13:28	16° Υ 56'42	-2°-56'-22	conjunction	-2943 Jun 22 j 20:08	5° Π 47'26	0°-11'-1
min. Earth dist.	-2949 Oct 03 j 06:29	16° Υ 58'09	7.89566 AU	minimum elong	-2943 Jun 22 j 20:09	5° Π 47'26	0°10'57
direct	-2949 Dec 08 j 11:05	13° Υ 28'14		behind sun begin	-2943 Jun 22 j 14:42	5° Π 45'43	
evening set	-2948 Mar 21 j 12:32	21° Υ 50'09		behind sun end	-2943 Jun 23 j 01:36	5° Π 49'09	
				max. Earth dist.	-2943 Jun 23 j 08:32	5° Π 51'21	10.25995 AU
conjunction	-2948 Apr 08 j 12:14	24° Υ 12'33	-2°-17'-27	morning rise	-2943 Jul 10 j 16:49	8° Π 02'29	
minimum elong	-2948 Apr 08 j 12:16	24° Υ 12'34	2°17'28	retrograde	-2943 Oct 20 j 02:42	15° Π 46'27	
max. Earth dist.	-2948 Apr 08 j 23:01	24° Υ 16'08	9.88570 AU	asc. node	-2943 Oct 25 j 17:22	15° Π 44'43	
morning rise	-2948 Apr 26 j 14:28	26° Υ 35'44		opposition	-2943 Dec 25 j 20:31	12° Π 22'31	0°06'38
	-2948 May 24 j 04:11	0° Υ		min. Earth dist.	-2943 Dec 25 j 12:02	12° Π 24'14	8.32621 AU
retrograde	-2948 Aug 11 j 11:08	5° Υ 09'52		direct	-2942 Mar 04 j 16:01	8° Π 54'03	
opposition	-2948 Oct 17 j 05:28	1° Υ 38'55	-2°-45'-16	evening set	-2942 Jun 18 j 23:56	16° Π 51'55	
min. Earth dist.	-2948 Oct 16 j 20:15	1° Υ 40'51	7.88918 AU				
	-2948 Nov 06 j 18:11	30° Υ		conjunction	-2942 Jul 06 j 20:34	19° Π 05'03	0°22'00
direct	-2948 Dec 22 j 07:27	28° Υ 09'43		minimum elong	-2942 Jul 06 j 20:33	19° Π 05'03	0°22'06
	-2947 Feb 05 j 02:21	0° Υ		max. Earth dist.	-2942 Jul 07 j 06:13	19° Π 08'04	10.39628 AU
evening set	-2947 Apr 06 j 03:21	6° Υ 34'16		morning rise	-2942 Jul 24 j 12:35	21° Π 16'44	
				retrograde	-2942 Nov 02 j 00:27	28° Π 49'03	
conjunction	-2947 Apr 24 j 05:57	8° Υ 57'13	-2°-4'-12	opposition	-2941 Jan 08 j 02:39	25° Π 26'50	0°46'20
minimum elong	-2947 Apr 24 j 06:00	8° Υ 57'14	2°04'11	min. Earth dist.	-2941 Jan 07 j 19:23	25° Π 28'16	8.46597 AU
max. Earth dist.	-2947 Apr 24 j 19:36	9° Υ 01'44	9.89833 AU	direct	-2941 Mar 18 j 14:16	21° Π 59'19	
morning rise	-2947 May 12 j 09:38	11° Υ 20'29		evening set	-2941 Jul 02 j 16:41	29° Π 47'56	
retrograde	-2947 Aug 26 j 07:06	19° Υ 48'56			-2941 Jul 04 j 08:35	0° Υ	
opposition	-2947 Oct 31 j 19:28	16° Υ 18'50	-2°-23'-23				
min. Earth dist.	-2947 Oct 31 j 08:22	16° Υ 21'09	7.91988 AU	conjunction	-2941 Jul 20 j 08:26	1° Υ 57'41	0°52'56
direct	-2946 Jan 06 j 05:36	12° Υ 49'10		minimum elong	-2941 Jul 20 j 08:23	1° Υ 57'40	0°53'02
evening set	-2946 Apr 21 j 17:14	21° Υ 13'03		max. Earth dist.	-2941 Jul 20 j 15:47	1° Υ 59'57	10.53765 AU
				morning rise	-2941 Aug 06 j 19:10	4° Υ 05'51	
conjunction	-2946 May 09 j 21:37	23° Υ 35'37	-1°-43'-1	retrograde	-2941 Nov 14 j 14:01	11° Υ 27'29	
minimum elong	-2946 May 09 j 21:41	23° Υ 35'38	1°42'59	opposition	-2940 Jan 21 j 01:12	8° Υ 06'50	1°22'26
max. Earth dist.	-2946 May 10 j 13:09	23° Υ 40'43	9.94746 AU	min. Earth dist.	-2940 Jan 20 j 19:16	8° Υ 07'59	8.60756 AU
morning rise	-2946 May 28 j 01:32	25° Υ 58'00		direct	-2940 Mar 31 j 03:13	4° Υ 40'26	
	-2946 Jun 30 j 15:45	0° Υ		evening set	-2940 Jul 14 j 21:37	12° Υ 19'45	
retrograde	-2946 Sep 09 j 20:11	4° Υ 17'30					
opposition	-2946 Nov 15 j 05:31	0° Υ 48'36	-1°-52'-34	conjunction	-2940 Aug 01 j 08:04	14° Υ 26'05	1°20'29
min. Earth dist.	-2946 Nov 14 j 17:30	0° Υ 51'05	7.98508 AU	minimum elong	-2940 Aug 01 j 08:01	14° Υ 26'05	1°20'35
	-2946 Nov 25 j 01:29	30° Υ		max. Earth dist.	-2940 Aug 01 j 13:25	14° Υ 27'43	10.67720 AU
direct	-2945 Jan 21 j 02:24	27° Υ 18'45		morning rise	-2940 Aug 18 j 13:13	16° Υ 30'51	
	-2945 Mar 17 j 19:55	0° Υ		retrograde	-2940 Nov 25 j 19:06	23° Υ 43'08	
evening set	-2945 May 07 j 02:12	5° Υ 38'54		opposition	-2939 Feb 01 j 17:02	20° Υ 23'52	1°53'33
				min. Earth dist.	-2939 Feb 01 j 12:58	20° Υ 24'39	8.74425 AU
conjunction	-2945 May 25 j 06:56	8° Υ 00'09	-1°-15'-39	direct	-2939 Apr 13 j 08:08	16° Υ 58'39	
minimum elong	-2945 May 25 j 06:59	8° Υ 00'10	1°15'36	evening set	-2939 Jul 27 j 15:06	24° Υ 28'58	
max. Earth dist.	-2945 May 25 j 22:51	8° Υ 05'20	10.02874 AU				
morning rise	-2945 Jun 12 j 09:46	10° Υ 20'45		conjunction	-2939 Aug 13 j 20:07	26° Υ 32'06	1°43'41
	-2945 Jul 22 j 10:54	15° Υ		minimum elong	-2939 Aug 13 j 20:03	26° Υ 32'05	1°43'46
retrograde	-2945 Sep 24 j 01:17	18° Υ 29'07		max. Earth dist.	-2939 Aug 13 j 23:22	26° Υ 33'05	10.80860 AU
opposition	-2945 Nov 29 j 09:40	15° Υ 01'41	-1°-15'-24	morning rise	-2939 Aug 30 j 19:50	28° Υ 33'42	
min. Earth dist.	-2945 Nov 28 j 22:03	15° Υ 04'04	8.07922 AU		-2939 Sep 12 j 08:01	0° Ω	
	-2945 Nov 29 j 17:47	15° Υ		retrograde	-2939 Dec 07 j 18:20	5° Ω 38'11	
direct	-2944 Feb 04 j 20:04	11° Υ 31'58		opposition	-2938 Feb 14 j 02:50	2° Ω 20'04	2°18'46
	-2944 Apr 09 j 12:12	15° Υ		min. Earth dist.	-2938 Feb 14 j 01:32	2° Ω 20'19	8.87013 AU
evening set	-2944 May 21 j 03:39	19° Υ 46'05			-2938 Mar 20 j 02:20	30° Υ	
				direct	-2938 Apr 26 j 03:56	28° Υ 56'04	
conjunction	-2944 Jun 08 j 07:10	22° Υ 05'13	0°-44'-14		-2938 Jun 01 j 20:00	0° Ω	
minimum elong	-2944 Jun 08 j 07:12	22° Υ 05'13	0°44'10	evening set	-2938 Aug 08 j 22:12	6° Ω 18'02	
max. Earth dist.	-2944 Jun 08 j 21:50	22° Υ 09'55	10.13530 AU				
morning rise	-2944 Jun 26 j 07:32	24° Υ 23'19		conjunction	-2938 Aug 25 j 21:57	8° Ω 18'18	2°01'54
	-2944 Aug 16 j 12:00	0° Π		minimum elong	-2938 Aug 25 j 21:54	8° Ω 18'17	2°01'58
retrograde	-2944 Oct 06 j 19:33	2° Π 19'29		max. Earth dist.	-2938 Aug 25 j 21:59	8° Ω 18'18	10.92649 AU
	-2944 Nov 28 j 11:46	30° Υ		morning rise	-2938 Sep 11 j 16:58	10° Ω 17'11	
opposition	-2944 Dec 12 j 06:43	28° Υ 53'46	0°-34'-44		-2938 Oct 27 j 21:22	15° Ω	
min. Earth dist.	-2944 Dec 11 j 20:36	28° Υ 55'50	8.19513 AU	retrograde	-2938 Dec 19 j 10:15	17° Ω 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 08:21	15°R♄		min. Earth dist.	-2931 May 06 j 21:08	20°♁39'31	9.14308 AU
opposition	-2937 Feb 26 j 07:17	13°♁58'12	2°37'35	direct	-2931 Jul 16 j 12:57	17°♁23'16	
min. Earth dist.	-2937 Feb 26 j 08:31	13°♁57'58	8.98021 AU	evening set	-2931 Oct 24 j 22:51	24°♁18'54	
direct	-2937 May 08 j 15:43	10°♁35'21					
	-2937 Jul 25 j 21:15	15°♁		conjunction	-2931 Nov 10 j 09:42	26°♁13'51	1°40'18
evening set	-2937 Aug 20 j 19:57	17°♁49'54		minimum elong	-2931 Nov 10 j 09:45	26°♁13'52	1°40'16
				max. Earth dist.	-2931 Nov 09 j 22:13	26°♁10'29	11.11311 AU
conjunction	-2937 Sep 06 j 15:06	19°♁47'44	2°14'46	morning rise	-2931 Nov 26 j 21:06	28°♁09'05	
minimum elong	-2937 Sep 06 j 15:04	19°♁47'43	2°14'50		-2931 Dec 13 j 11:38	0°♁	
max. Earth dist.	-2937 Sep 06 j 12:02	19°♁46'50	11.02644 AU	retrograde	-2930 Mar 08 j 10:04	5°♁10'22	
morning rise	-2937 Sep 23 j 06:13	21°♁44'23		opposition	-2930 May 18 j 11:32	1°♁51'55	1°49'23
retrograde	-2937 Dec 30 j 23:06	28°♁38'07		min. Earth dist.	-2930 May 18 j 21:48	1°♁50'01	9.07875 AU
opposition	-2936 Mar 09 j 07:31	25°♁21'29	2°49'44		-2930 Jun 14 j 11:09	30°R♁	
min. Earth dist.	-2936 Mar 09 j 10:26	25°♁20'57	9.07024 AU	direct	-2930 Jul 28 j 01:19	28°♁34'01	
direct	-2936 May 19 j 23:03	21°♁59'45			-2930 Sep 08 j 08:16	0°♁	
evening set	-2936 Aug 31 j 09:53	29°♁07'54		evening set	-2930 Nov 05 j 03:01	5°♁31'33	
	-2936 Sep 07 j 22:34	0°♁					
				conjunction	-2930 Nov 21 j 15:20	7°♁27'52	1°18'11
conjunction	-2936 Sep 17 j 01:20	1°♁03'51	2°22'09	minimum elong	-2930 Nov 21 j 15:23	7°♁27'53	1°18'08
minimum elong	-2936 Sep 17 j 01:20	1°♁03'51	2°22'12	max. Earth dist.	-2930 Nov 21 j 02:33	7°♁24'06	11.03737 AU
max. Earth dist.	-2936 Sep 16 j 20:33	1°♁02'27	11.10484 AU	morning rise	-2930 Dec 08 j 05:21	9°♁24'45	
morning rise	-2936 Oct 03 j 13:15	2°♁58'49			-2929 Feb 04 j 04:39	15°♁	
retrograde	-2935 Jan 10 j 10:38	9°♁49'41		retrograde	-2929 Mar 20 j 13:35	16°♁32'54	
opposition	-2935 Mar 21 j 04:46	6°♁33'24	2°55'13		-2929 May 05 j 05:51	15°R♁	
min. Earth dist.	-2935 Mar 21 j 09:03	6°♁32'36	9.13712 AU	opposition	-2929 May 30 j 15:32	13°♁13'18	1°20'14
direct	-2935 May 31 j 22:29	3°♁12'44		min. Earth dist.	-2929 May 31 j 02:40	13°♁11'14	8.99108 AU
evening set	-2935 Sep 11 j 17:44	10°♁15'39		direct	-2929 Aug 08 j 18:16	9°♁55'15	
					-2929 Oct 30 j 08:21	15°♁	
conjunction	-2935 Sep 28 j 06:25	12°♁10'16	2°24'03	evening set	-2929 Nov 16 j 12:00	16°♁56'16	
minimum elong	-2935 Sep 28 j 06:25	12°♁10'16	2°24'05				
max. Earth dist.	-2935 Sep 28 j 00:09	12°♁08'27	11.15912 AU	conjunction	-2929 Dec 03 j 02:29	18°♁54'26	0°52'36
morning rise	-2935 Oct 14 j 16:08	14°♁04'08		minimum elong	-2929 Dec 03 j 02:31	18°♁54'26	0°52'33
retrograde	-2934 Jan 21 j 20:45	20°♁53'48		max. Earth dist.	-2929 Dec 02 j 13:47	18°♁50'38	10.93969 AU
opposition	-2934 Apr 02 j 00:14	17°♁37'36	2°54'08	morning rise	-2929 Dec 19 j 19:36	20°♁53'25	
min. Earth dist.	-2934 Apr 02 j 06:40	17°♁36'26	9.17880 AU	retrograde	-2928 Apr 01 j 00:46	28°♁09'54	
direct	-2934 Jun 12 j 16:46	14°♁17'52		opposition	-2928 Jun 11 j 00:47	24°♁48'57	0°47'12
evening set	-2934 Sep 22 j 21:07	21°♁16'51		min. Earth dist.	-2928 Jun 11 j 11:26	24°♁46'57	8.88313 AU
				direct	-2928 Aug 19 j 14:21	21°♁30'31	
conjunction	-2934 Oct 09 j 07:52	23°♁10'43	2°20'34	evening set	-2928 Nov 27 j 03:34	28°♁36'34	
minimum elong	-2934 Oct 09 j 07:53	23°♁10'44	2°20'35		-2928 Dec 08 j 18:34	0°♁	
max. Earth dist.	-2934 Oct 08 j 23:07	23°♁08'11	11.18765 AU				
morning rise	-2934 Oct 25 j 16:39	25°♁04'04		conjunction	-2928 Dec 13 j 20:51	0°♁36'56	0°24'20
	-2934 Dec 15 j 03:21	0°♁		minimum elong	-2928 Dec 13 j 20:52	0°♁36'57	0°24'16
retrograde	-2933 Feb 02 j 06:58	1°♁54'11		max. Earth dist.	-2928 Dec 13 j 09:32	0°♁33'32	10.82339 AU
	-2933 Mar 25 j 10:49	30°R♁		morning rise	-2928 Dec 30 j 17:22	2°♁38'23	
opposition	-2933 Apr 13 j 19:02	28°♁37'50	2°46'41	retrograde	-2927 Apr 13 j 20:08	10°♁04'37	
min. Earth dist.	-2933 Apr 14 j 03:37	28°♁36'16	9.19391 AU	opposition	-2927 Jun 23 j 16:00	6°♁42'06	0°11'17
direct	-2933 Jun 24 j 08:23	25°♁18'51		min. Earth dist.	-2927 Jun 24 j 01:14	6°♁40'22	8.75873 AU
	-2933 Sep 13 j 05:48	0°♁		direct	-2927 Aug 31 j 16:15	3°♁23'03	
evening set	-2933 Oct 03 j 21:56	2°♁15'17		desc. node	-2927 Oct 16 j 10:35	5°♁08'47	
				evening set	-2927 Dec 09 j 03:57	10°♁35'42	
conjunction	-2933 Oct 20 j 07:44	4°♁08'58	2°11'55				
minimum elong	-2933 Oct 20 j 07:46	4°♁08'59	2°11'54	conjunction	-2927 Dec 26 j 00:19	12°♁38'38	0°-5'-44
max. Earth dist.	-2933 Oct 19 j 20:57	4°♁05'50	11.18944 AU	minimum elong	-2927 Dec 26 j 00:18	12°♁38'38	0°05'50
morning rise	-2933 Nov 05 j 16:34	6°♁02'24		behind sun begin	-2927 Dec 25 j 17:33	12°♁36'35	
retrograde	-2932 Feb 13 j 18:45	12°♁54'37		behind sun end	-2927 Dec 26 j 07:03	12°♁40'41	
opposition	-2932 Apr 24 j 14:16	9°♁37'49	2°33'08	max. Earth dist.	-2927 Dec 25 j 14:13	12°♁35'34	10.69263 AU
min. Earth dist.	-2932 Apr 24 j 23:49	9°♁36'04	9.18189 AU	morning rise	-2926 Jan 12 j 00:32	14°♁42'51	
direct	-2932 Jul 04 j 22:45	6°♁19'24		retrograde	-2926 Apr 27 j 02:15	22°♁19'51	
evening set	-2932 Oct 13 j 21:53	13°♁14'44		opposition	-2926 Jul 06 j 13:49	18°♁55'43	0°-26'-13
				min. Earth dist.	-2926 Jul 06 j 21:33	18°♁54'14	8.62247 AU
conjunction	-2932 Oct 30 j 07:50	15°♁08'47	1°58'22	direct	-2926 Sep 12 j 23:15	15°♁35'45	
minimum elong	-2932 Oct 30 j 07:52	15°♁08'48	1°58'20	evening set	-2926 Dec 21 j 14:39	22°♁56'31	
max. Earth dist.	-2932 Oct 29 j 20:48	15°♁05'34	11.16436 AU				
morning rise	-2932 Nov 15 j 17:29	17°♁02'50		conjunction	-2925 Jan 07 j 14:13	25°♁02'15	0°-36'-13
retrograde	-2931 Feb 24 j 13:08	23°♁58'48		minimum elong	-2925 Jan 07 j 14:11	25°♁02'14	0°36'20
opposition	-2931 May 06 j 11:25	20°♁41'17	2°13'53	max. Earth dist.	-2925 Jan 07 j 04:37	24°♁59'16	10.55231 AU

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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 18:24	27° ♁ 09'28		conjunction	-2919 Apr 01 j 18:25	17° ♁ 45'00	-2°-20'-38
	-2925 Feb 18 j 06:39	0° ♁		minimum elong	-2919 Apr 01 j 18:26	17° ♁ 45'00	2°20'40
retrograde	-2925 May 10 j 17:53	4° ♁ 58'02		max. Earth dist.	-2919 Apr 02 j 03:04	17° ♁ 47'52	9.90115 AU
opposition	-2925 Jul 19 j 19:11	1° ♁ 32'16	-1°-3'-45	morning rise	-2919 Apr 19 j 19:24	20° ♁ 07'35	
min. Earth dist.	-2925 Jul 20 j 01:54	1° ♁ 30'57	8.47951 AU	retrograde	-2919 Aug 05 j 00:00	28° ♁ 42'08	
	-2925 Aug 09 j 08:22	30° ♁		opposition	-2919 Oct 10 j 22:24	25° ♁ 10'46	-2°-51'-51
direct	-2925 Sep 25 j 12:42	28° ♁ 11'09		min. Earth dist.	-2919 Oct 10 j 14:44	25° ♁ 12'22	7.89312 AU
	-2925 Nov 10 j 03:34	0° ♁		direct	-2919 Dec 15 j 21:59	21° ♁ 41'40	
evening set	-2924 Jan 03 j 12:50	5° ♁ 41'24			-2918 Mar 29 j 19:06	0° ♁	
				evening set	-2918 Mar 30 j 09:12	0° ♁ 04'34	
conjunction	-2924 Jan 20 j 15:51	7° ♁ 50'06	-1°-5'-50	conjunction	-2918 Apr 17 j 10:25	2° ♁ 27'14	-2°-11'-27
minimum elong	-2924 Jan 20 j 15:48	7° ♁ 50'06	1°05'57	minimum elong	-2918 Apr 17 j 10:27	2° ♁ 27'15	2°11'28
max. Earth dist.	-2924 Jan 20 j 07:34	7° ♁ 47'30	10.40801 AU	max. Earth dist.	-2918 Apr 17 j 21:26	2° ♁ 30'53	9.89040 AU
morning rise	-2924 Feb 07 j 00:01	10° ♁ 00'27		morning rise	-2918 May 05 j 13:24	4° ♁ 50'25	
retrograde	-2924 May 23 j 17:25	18° ♁ 00'59		retrograde	-2918 Aug 19 j 22:04	13° ♁ 21'22	
opposition	-2924 Aug 01 j 08:20	14° ♁ 33'38	-1°-39'-21	opposition	-2918 Oct 25 j 12:53	9° ♁ 50'29	-2°-34'-51
min. Earth dist.	-2924 Aug 01 j 13:38	14° ♁ 32'35	8.33624 AU	min. Earth dist.	-2918 Oct 25 j 03:59	9° ♁ 52'21	7.90071 AU
direct	-2924 Oct 07 j 12:47	11° ♁ 11'13		direct	-2918 Dec 30 j 18:39	6° ♁ 20'35	
evening set	-2923 Jan 15 j 23:53	18° ♁ 52'01		evening set	-2917 Apr 14 j 23:01	14° ♁ 44'39	
conjunction	-2923 Feb 02 j 06:38	21° ♁ 03'48	-1°-32'-54	conjunction	-2917 May 03 j 02:33	17° ♁ 07'27	-1°-53'-48
minimum elong	-2923 Feb 02 j 06:35	21° ♁ 03'46	1°33'00	minimum elong	-2917 May 03 j 02:37	17° ♁ 07'28	1°53'47
max. Earth dist.	-2923 Feb 02 j 00:59	21° ♁ 01'59	10.26704 AU	max. Earth dist.	-2917 May 03 j 15:10	17° ♁ 11'37	9.91690 AU
morning rise	-2923 Feb 19 j 18:40	23° ♁ 17'15		morning rise	-2917 May 21 j 06:33	19° ♁ 30'19	
	-2923 Apr 26 j 03:03	0° ♁		retrograde	-2917 Sep 03 j 14:07	27° ♁ 54'05	
retrograde	-2923 Jun 07 j 02:29	1° ♁ 29'19		opposition	-2917 Nov 09 j 00:28	24° ♁ 24'07	-2°-7'-57
	-2923 Jul 19 j 16:35	30° ♁		min. Earth dist.	-2917 Nov 08 j 14:38	24° ♁ 26'10	7.94457 AU
opposition	-2923 Aug 15 j 05:00	28° ♁ 00'32	-2°-10'-49	direct	-2916 Jan 14 j 16:17	20° ♁ 53'45	
min. Earth dist.	-2923 Aug 15 j 08:06	27° ♁ 59'54	8.20080 AU	evening set	-2916 Apr 29 j 10:04	29° ♁ 15'51	
direct	-2923 Oct 20 j 22:05	24° ♁ 36'42			-2916 May 05 j 02:58	0° ♁	
	-2922 Jan 09 j 18:39	0° ♁		conjunction	-2916 May 17 j 14:44	1° ♁ 37'52	-1°-29'-5
evening set	-2922 Jan 30 j 00:05	2° ♁ 28'25		minimum elong	-2916 May 17 j 14:48	1° ♁ 37'53	1°29'02
conjunction	-2922 Feb 16 j 10:45	4° ♁ 43'12	-1°-55'-34	max. Earth dist.	-2916 May 18 j 04:16	1° ♁ 42'18	9.97849 AU
minimum elong	-2922 Feb 16 j 10:42	4° ♁ 43'11	1°55'40	morning rise	-2916 Jun 04 j 18:28	3° ♁ 59'30	
max. Earth dist.	-2922 Feb 16 j 08:48	4° ♁ 42'34	10.13802 AU	retrograde	-2916 Sep 16 j 22:05	12° ♁ 13'19	
morning rise	-2922 Mar 06 j 02:24	6° ♁ 59'38		opposition	-2916 Nov 22 j 07:11	8° ♁ 44'38	-1°-33'-24
	-2922 Jun 01 j 15:16	15° ♁		min. Earth dist.	-2916 Nov 21 j 20:39	8° ♁ 46'49	8.02131 AU
retrograde	-2922 Jun 21 j 20:12	15° ♁ 21'47		direct	-2915 Jan 28 j 12:36	5° ♁ 14'12	
	-2922 Jul 12 j 03:35	15° ♁		evening set	-2915 May 14 j 15:08	13° ♁ 31'35	
opposition	-2922 Aug 29 j 08:38	11° ♁ 51'47	-2°-35'-46		-2915 May 26 j 03:05	15° ♁	
min. Earth dist.	-2922 Aug 29 j 08:42	11° ♁ 51'46	8.08170 AU	conjunction	-2915 Jun 01 j 19:25	15° ♁ 51'54	0°-59'-16
direct	-2922 Nov 03 j 15:46	8° ♁ 26'30		minimum elong	-2915 Jun 01 j 19:28	15° ♁ 51'55	0°59'12
	-2921 Feb 01 j 19:13	15° ♁		max. Earth dist.	-2915 Jun 02 j 09:12	15° ♁ 56'22	10.07048 AU
evening set	-2921 Feb 13 j 12:44	16° ♁ 28'42		morning rise	-2915 Jun 19 j 21:21	18° ♁ 11'24	
conjunction	-2921 Mar 03 j 03:17	18° ♁ 46'14	-2°-12'-2	retrograde	-2915 Sep 30 j 20:07	26° ♁ 13'36	
minimum elong	-2921 Mar 03 j 03:15	18° ♁ 46'13	2°12'07	opposition	-2915 Dec 06 j 07:29	22° ♁ 46'28	0°-54'00
max. Earth dist.	-2921 Mar 03 j 05:14	18° ♁ 46'52	10.02935 AU	min. Earth dist.	-2915 Dec 05 j 20:39	22° ♁ 48'42	8.12561 AU
morning rise	-2921 Mar 20 j 22:20	21° ♁ 05'17		direct	-2914 Feb 12 j 04:41	19° ♁ 16'23	
retrograde	-2921 Jul 06 j 19:48	29° ♁ 35'07		evening set	-2914 May 29 j 11:26	27° ♁ 26'53	
opposition	-2921 Sep 12 j 18:01	26° ♁ 04'13	-2°-51'-58	conjunction	-2914 Jun 16 j 13:45	29° ♁ 44'43	0°-26'-36
min. Earth dist.	-2921 Sep 12 j 14:52	26° ♁ 04'52	7.98675 AU	minimum elong	-2914 Jun 16 j 13:46	29° ♁ 44'44	0°26'32
direct	-2921 Nov 17 j 18:08	22° ♁ 37'31		max. Earth dist.	-2914 Jun 17 j 03:12	29° ♁ 49'01	10.18669 AU
	-2920 Feb 22 j 03:40	0° ♁			-2914 Jun 18 j 13:32	0° ♁	
evening set	-2920 Feb 28 j 12:24	0° ♁ 48'58		morning rise	-2914 Jul 04 j 12:27	2° ♁ 01'24	
conjunction	-2920 Mar 17 j 06:48	3° ♁ 08'51	-2°-20'-44	retrograde	-2914 Oct 14 j 08:35	9° ♁ 51'21	
minimum elong	-2920 Mar 17 j 06:47	3° ♁ 08'50	2°20'48	opposition	-2914 Dec 20 j 00:38	6° ♁ 25'57	0°-12'-36
max. Earth dist.	-2920 Mar 17 j 12:20	3° ♁ 10'40	9.94853 AU	min. Earth dist.	-2914 Dec 19 j 14:06	6° ♁ 28'05	8.25082 AU
morning rise	-2920 Apr 04 j 05:01	5° ♁ 30'00		direct	-2913 Feb 26 j 13:24	2° ♁ 56'32	
retrograde	-2920 Jul 20 j 22:23	14° ♁ 04'09		asc. node	-2913 Apr 14 j 15:21	4° ♁ 48'21	
opposition	-2920 Sep 26 j 07:18	10° ♁ 32'46	-2°-57'-37	evening set	-2913 Jun 12 j 21:01	10° ♁ 58'40	
min. Earth dist.	-2920 Sep 26 j 01:33	10° ♁ 33'58	7.92244 AU	conjunction	-2913 Jun 30 j 19:57	13° ♁ 13'29	0°06'47
direct	-2920 Dec 01 j 05:00	7° ♁ 04'46		minimum elong	-2913 Jun 30 j 19:57	13° ♁ 13'29	0°06'53
evening set	-2919 Mar 14 j 20:20	15° ♁ 23'21					

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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 13:12	13°II11'23		conjunction	-2907 Sep 12 j 05:24	26°Ω08'22	2°19'19
behind sun end	-2913 Jul 01 j 02:42	13°II15'35		minimum elong	-2907 Sep 12 j 05:22	26°Ω08'22	2°19'22
max. Earth dist.	-2913 Jul 01 j 08:28	13°II17'25	10.31987 AU	max. Earth dist.	-2907 Sep 12 j 02:25	26°Ω07'30	11.07887 AU
morning rise	-2913 Jul 18 j 14:18	15°II26'52		morning rise	-2907 Sep 28 j 18:36	28°Ω04'01	
retrograde	-2913 Oct 27 j 12:08	23°II04'44			-2907 Oct 16 j 04:30	0°♄	
opposition	-2912 Jan 02 j 10:09	19°II41'09	0°28'09	retrograde	-2906 Jan 05 j 14:39	4°♄56'05	
min. Earth dist.	-2912 Jan 02 j 01:06	19°II42'58	8.38948 AU	opposition	-2906 Mar 16 j 03:29	1°♄40'11	2°53'21
direct	-2912 Mar 11 j 13:56	16°II12'42		min. Earth dist.	-2906 Mar 16 j 07:30	1°♄39'26	9.11790 AU
evening set	-2912 Jun 25 j 19:16	24°II05'44			-2906 Apr 08 j 20:09	30°♄Ω	
				direct	-2906 May 26 j 18:07	28°Ω19'33	
conjunction	-2912 Jul 13 j 13:37	26°II17'11	0°38'50		-2906 Jul 12 j 11:50	0°♄	
minimum elong	-2912 Jul 13 j 13:35	26°II17'11	0°38'55	evening set	-2906 Sep 06 j 23:16	5°♄24'50	
max. Earth dist.	-2912 Jul 13 j 23:57	26°II20'23	10.46236 AU				
morning rise	-2912 Jul 31 j 02:51	28°II27'04		conjunction	-2906 Sep 23 j 13:00	7°♄19'58	2°23'44
	-2912 Aug 13 j 03:44	0°♄		minimum elong	-2906 Sep 23 j 13:00	7°♄19'58	2°23'46
retrograde	-2912 Nov 08 j 05:52	5°♄53'38		max. Earth dist.	-2906 Sep 23 j 06:46	7°♄18'09	11.14679 AU
opposition	-2911 Jan 14 j 12:03	2°♄31'52	1°06'08	morning rise	-2906 Oct 09 j 23:45	9°♄14'15	
min. Earth dist.	-2911 Jan 14 j 05:09	2°♄33'14	8.53404 AU	retrograde	-2905 Jan 17 j 00:06	16°♄04'17	
	-2911 Feb 19 j 17:45	30°♄II		opposition	-2905 Mar 27 j 23:45	12°♄48'37	2°55'15
direct	-2911 Mar 25 j 06:24	29°II04'36		min. Earth dist.	-2905 Mar 28 j 05:39	12°♄47'32	9.17296 AU
	-2911 Apr 27 j 17:05	0°♄		direct	-2905 Jun 07 j 16:31	9°♄28'58	
evening set	-2911 Jul 09 j 05:41	6°♄48'19		evening set	-2905 Sep 18 j 04:54	16°♄29'42	
conjunction	-2911 Jul 26 j 18:40	8°♄56'17	1°08'06	conjunction	-2905 Oct 04 j 16:25	18°♄23'48	2°22'42
minimum elong	-2911 Jul 26 j 18:38	8°♄56'16	1°08'12	minimum elong	-2905 Oct 04 j 16:26	18°♄23'49	2°22'43
max. Earth dist.	-2911 Jul 27 j 01:55	8°♄58'30	10.60679 AU	max. Earth dist.	-2905 Oct 04 j 08:21	18°♄21'28	11.18791 AU
morning rise	-2911 Aug 13 j 02:29	11°♄02'40		morning rise	-2905 Oct 21 j 01:33	20°♄17'16	
retrograde	-2911 Nov 20 j 13:13	18°♄19'13		retrograde	-2904 Jan 28 j 12:13	27°♄06'59	
opposition	-2910 Jan 27 j 06:59	14°♄59'08	1°39'42	opposition	-2904 Apr 07 j 18:54	23°♄51'15	2°50'42
min. Earth dist.	-2910 Jan 27 j 02:03	15°♄00'05	8.67730 AU	min. Earth dist.	-2904 Apr 08 j 02:22	23°♄49'53	9.19983 AU
direct	-2910 Apr 07 j 16:10	11°♄33'12		direct	-2904 Jun 18 j 10:40	20°♄32'25	
evening set	-2910 Jul 22 j 04:18	19°♄07'45		evening set	-2904 Sep 28 j 07:00	27°♄29'57	
conjunction	-2910 Aug 08 j 11:46	21°♄12'22	1°33'26	conjunction	-2904 Oct 14 j 17:14	29°♄23'38	2°16'23
minimum elong	-2910 Aug 08 j 11:42	21°♄12'21	1°33'30	minimum elong	-2904 Oct 14 j 17:15	29°♄23'39	2°16'23
max. Earth dist.	-2910 Aug 08 j 16:01	21°♄13'39	10.74632 AU	max. Earth dist.	-2904 Oct 14 j 07:34	29°♄20'50	11.20035 AU
morning rise	-2910 Aug 25 j 14:12	23°♄15'27			-2904 Oct 19 j 22:25	0°♄	
	-2910 Nov 11 j 12:24	0°♄		morning rise	-2904 Oct 31 j 01:45	1°♄16'55	
retrograde	-2910 Dec 02 j 15:17	0°♄23'29		retrograde	-2903 Feb 07 j 23:43	8°♄08'02	
	-2910 Dec 23 j 23:51	30°♄R♄		opposition	-2903 Apr 19 j 14:18	4°♄51'55	2°39'55
opposition	-2909 Feb 08 j 19:22	27°♄04'51	2°07'44	min. Earth dist.	-2903 Apr 19 j 23:40	4°♄50'13	9.19760 AU
min. Earth dist.	-2909 Feb 08 j 15:55	27°♄05'31	8.81260 AU	direct	-2903 Jun 30 j 00:28	1°♄33'41	
direct	-2909 Apr 20 j 16:10	23°♄40'21		evening set	-2903 Oct 09 j 07:37	8°♄29'29	
	-2909 Jul 25 j 01:49	0°♄					
evening set	-2909 Aug 03 j 16:13	1°♄06'15		conjunction	-2903 Oct 25 j 17:23	10°♄23'18	2°05'03
				minimum elong	-2903 Oct 25 j 17:25	10°♄23'19	2°05'02
conjunction	-2909 Aug 20 j 18:25	3°♄07'49	1°54'01	max. Earth dist.	-2903 Oct 25 j 05:14	10°♄19'46	11.18414 AU
minimum elong	-2909 Aug 20 j 18:22	3°♄07'48	1°54'05	morning rise	-2903 Nov 11 j 02:31	12°♄17'00	
max. Earth dist.	-2909 Aug 20 j 20:32	3°♄08'27	10.87484 AU	retrograde	-2902 Feb 19 j 14:52	19°♄11'11	
morning rise	-2909 Sep 06 j 15:42	5°♄07'56		opposition	-2902 May 01 j 10:52	15°♄54'22	2°23'15
retrograde	-2909 Dec 14 j 11:12	12°♄09'00		min. Earth dist.	-2902 May 01 j 22:14	15°♄52'17	9.16703 AU
opposition	-2908 Feb 21 j 02:05	8°♄51'35	2°29'33	direct	-2902 Jul 11 j 14:43	12°♄36'25	
min. Earth dist.	-2908 Feb 21 j 00:35	8°♄51'52	8.93415 AU	evening set	-2902 Oct 20 j 08:20	19°♄31'58	
direct	-2908 May 02 j 07:19	5°♄28'29					
evening set	-2908 Aug 14 j 18:30	12°♄46'31		conjunction	-2902 Nov 05 j 18:35	21°♄26'28	1°49'00
				minimum elong	-2902 Nov 05 j 18:38	21°♄26'29	1°48'58
conjunction	-2908 Aug 31 j 15:52	14°♄45'26	2°09'23	max. Earth dist.	-2902 Nov 05 j 05:02	21°♄22'30	11.14040 AU
minimum elong	-2908 Aug 31 j 15:50	14°♄45'25	2°09'27	morning rise	-2902 Nov 22 j 05:15	23°♄21'08	
max. Earth dist.	-2908 Aug 31 j 15:56	14°♄45'27	10.98709 AU		-2901 Feb 11 j 02:09	0°♄	
	-2908 Sep 02 j 17:09	15°♄		retrograde	-2901 Mar 03 j 08:50	0°♄19'58	
morning rise	-2908 Sep 17 j 08:36	16°♄43'04			-2901 Mar 23 j 22:46	30°♄R♄	
retrograde	-2908 Dec 25 j 03:13	23°♄38'48		opposition	-2901 May 13 j 09:47	27°♄02'07	2°01'06
opposition	-2907 Mar 04 j 04:32	20°♄22'18	2°44'48	min. Earth dist.	-2901 May 13 j 21:47	26°♄59'56	9.10951 AU
min. Earth dist.	-2907 Mar 04 j 05:44	20°♄22'05	9.03721 AU	direct	-2901 Jul 23 j 04:47	23°♄44'13	
direct	-2907 May 14 j 16:14	17°♄00'31			-2901 Oct 25 j 11:20	0°♄	
evening set	-2907 Aug 26 j 12:18	24°♄11'37		evening set	-2901 Oct 31 j 11:02	0°♄41'00	

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 22:40	2°♌36'42	1°28'40
minimum elong	-2901 Nov 16 j 22:43	2°♌36'43	1°28'37
max. Earth dist.	-2901 Nov 16 j 09:19	2°♌32'46	11.07073 AU
morning rise	-2901 Dec 03 j 11:24	4°♌32'49	
retrograde	-2900 Mar 14 j 10:26	11°♌37'55	
opposition	-2900 May 24 j 12:09	8°♌18'46	1°34'00
min. Earth dist.	-2900 May 24 j 23:42	8°♌16'38	9.02717 AU
direct	-2900 Aug 02 j 21:47	5°♌00'39	
evening set	-2900 Nov 10 j 17:44	12°♌00'12	

conjunction	-2900 Nov 27 j 07:20	13°♌57'34	1°04'35
minimum elong	-2900 Nov 27 j 07:22	13°♌57'35	1°04'32
max. Earth dist.	-2900 Nov 26 j 18:09	13°♌53'39	10.97766 AU
	-2900 Dec 06 j 01:30	15°♌	
morning rise	-2900 Dec 13 j 22:51	15°♌55'38	