

Planetary Phenomena of Saturn from -2400 through -1900 (UT), Astrodienst AG 14-Nov-2015 16:07, page 1

Attention, astronomical year style is used: The year -2400 in astronomical counting style is the year 2401 BCE in historical counting style.

retrograde	-2400 Mar 10 j 12:08	11°♄36'23		minimum elong	-2394 Jan 22 j 20:03	14°♄12'07	1°09'09
opposition	-2400 May 20 j 13:33	8°♄17'47	1°44'37	max. Earth dist.	-2394 Jan 22 j 13:14	14°♄09'59	10.39843 AU
min. Earth dist.	-2400 May 21 j 01:43	8°♄15'32	9.07238 AU	morning rise	-2394 Feb 09 j 03:21	16°♄22'22	
direct	-2400 Jul 30 j 06:25	4°♄59'24		retrograde	-2394 May 26 j 18:45	24°♄22'58	
evening set	-2400 Nov 07 j 09:33	11°♄57'23		opposition	-2394 Aug 04 j 10:46	20°♄55'21	-1°-42'-57
				min. Earth dist.	-2394 Aug 04 j 14:39	20°♄54'35	8.32852 AU
conjunction	-2400 Nov 23 j 22:13	13°♄53'49	1°14'06	direct	-2394 Oct 10 j 17:17	17°♄32'41	
minimum elong	-2400 Nov 23 j 22:15	13°♄53'49	1°14'04	evening set	-2393 Jan 19 j 04:07	25°♄13'45	
max. Earth dist.	-2400 Nov 23 j 08:42	13°♄49'49	11.03016 AU				
	-2400 Dec 03 j 06:21	15°♄		conjunction	-2393 Feb 05 j 10:07	27°♄25'25	-1°-35'-25
morning rise	-2400 Dec 10 j 12:07	15°♄50'43		minimum elong	-2393 Feb 05 j 10:04	27°♄25'24	1°35'30
retrograde	-2399 Mar 22 j 16:58	22°♄58'20		max. Earth dist.	-2393 Feb 05 j 05:48	27°♄24'02	10.26127 AU
opposition	-2399 Jun 01 j 17:24	19°♄38'28	1°15'09	morning rise	-2393 Feb 22 j 21:15	29°♄38'45	
min. Earth dist.	-2399 Jun 02 j 05:03	19°♄36'18	8.98300 AU		-2393 Feb 25 j 17:18	0°♄	
direct	-2399 Aug 10 j 23:32	16°♄19'52		retrograde	-2393 Jun 10 j 05:24	7°♄50'50	
evening set	-2399 Nov 18 j 18:17	23°♄21'15		opposition	-2393 Aug 18 j 07:57	4°♄21'54	-2°-13'-25
				min. Earth dist.	-2393 Aug 18 j 09:23	4°♄21'36	8.19746 AU
conjunction	-2399 Dec 05 j 08:53	25°♄19'29	0°48'21	direct	-2393 Oct 24 j 00:55	0°♄58'00	
minimum elong	-2399 Dec 05 j 08:54	25°♄19'29	0°48'18	evening set	-2392 Feb 02 j 03:46	8°♄49'43	
max. Earth dist.	-2399 Dec 04 j 19:15	25°♄15'24	10.93074 AU				
morning rise	-2399 Dec 22 j 01:40	27°♄18'27		conjunction	-2392 Feb 19 j 13:26	11°♄04'17	-1°-57'-12
	-2398 Jan 15 j 06:06	0°♄		minimum elong	-2392 Feb 19 j 13:23	11°♄04'16	1°57'16
retrograde	-2398 Apr 04 j 03:18	4°♄34'26		max. Earth dist.	-2392 Feb 19 j 12:08	11°♄03'52	10.13702 AU
opposition	-2398 Jun 14 j 02:28	1°♄13'07	0°41'59	morning rise	-2392 Mar 08 j 04:18	13°♄20'32	
min. Earth dist.	-2398 Jun 14 j 13:48	1°♄11'00	8.87340 AU		-2392 Mar 21 j 12:06	15°♄	
	-2398 Jun 30 j 18:50	30°♄		retrograde	-2392 Jun 23 j 23:40	21°♄42'39	
direct	-2398 Aug 22 j 18:08	27°♄54'05		opposition	-2392 Aug 31 j 11:56	18°♄12'39	-2°-37'-10
	-2398 Oct 12 j 11:07	0°♄		min. Earth dist.	-2392 Aug 31 j 10:59	18°♄12'50	8.08322 AU
evening set	-2398 Nov 30 j 09:43	5°♄00'33			-2392 Oct 21 j 22:39	15°♄	
				direct	-2392 Nov 05 j 18:36	14°♄47'29	
conjunction	-2398 Dec 17 j 02:42	7°♄00'57	0°20'04		-2392 Nov 20 j 14:17	15°♄	
minimum elong	-2398 Dec 17 j 02:43	7°♄00'57	0°20'01	evening set	-2391 Feb 15 j 15:41	22°♄49'26	
max. Earth dist.	-2398 Dec 16 j 12:58	6°♄56'49	10.81297 AU				
morning rise	-2397 Jan 02 j 22:57	9°♄02'23		conjunction	-2391 Mar 05 j 05:14	25°♄06'42	-2°-12'-40
retrograde	-2397 Apr 16 j 21:52	16°♄28'10		minimum elong	-2391 Mar 05 j 05:12	25°♄06'41	2°12'43
opposition	-2397 Jun 26 j 17:39	13°♄05'18	0°06'08	max. Earth dist.	-2391 Mar 05 j 07:33	25°♄07'28	10.03325 AU
min. Earth dist.	-2397 Jun 27 j 04:36	13°♄03'13	8.74772 AU	morning rise	-2391 Mar 22 j 23:40	27°♄25'31	
desc. node	-2397 Aug 28 j 14:58	9°♄47'35			-2391 Apr 12 j 18:34	0°♄	
direct	-2397 Sep 03 j 19:33	9°♄45'35		retrograde	-2391 Jul 08 j 22:20	5°♄55'14	
evening set	-2397 Dec 12 j 09:33	16°♄58'44		opposition	-2391 Sep 14 j 21:41	2°♄24'30	-2°-52'-2
				min. Earth dist.	-2391 Sep 14 j 18:11	2°♄25'14	7.99288 AU
conjunction	-2397 Dec 29 j 05:30	19°♄01'41	0°-9'-49		-2391 Oct 17 j 09:13	30°♄	
minimum elong	-2397 Dec 29 j 05:29	19°♄01'40	0°09'54	direct	-2391 Nov 19 j 22:30	28°♄58'06	
behind sun begin	-2397 Dec 28 j 23:44	18°♄59'56			-2391 Dec 23 j 00:47	0°♄	
behind sun end	-2397 Dec 29 j 11:15	19°♄03'25		evening set	-2390 Mar 02 j 14:15	7°♄08'57	
max. Earth dist.	-2397 Dec 28 j 17:21	18°♄57'58	10.68124 AU				
morning rise	-2396 Jan 15 j 05:23	21°♄05'52		conjunction	-2390 Mar 20 j 07:50	9°♄28'32	-2°-20'-18
retrograde	-2396 Apr 29 j 02:57	28°♄42'38		minimum elong	-2390 Mar 20 j 07:49	9°♄28'32	2°20'20
opposition	-2396 Jul 08 j 15:43	25°♄18'08	0°-31'-5	max. Earth dist.	-2390 Mar 20 j 14:07	9°♄30'37	9.95658 AU
min. Earth dist.	-2396 Jul 09 j 01:03	25°♄16'21	8.61086 AU	morning rise	-2390 Apr 07 j 05:35	11°♄49'28	
direct	-2396 Sep 15 j 03:21	21°♄57'35		retrograde	-2390 Jul 23 j 23:32	20°♄23'29	
evening set	-2396 Dec 23 j 19:41	29°♄18'55		opposition	-2390 Sep 29 j 11:14	16°♄52'22	-2°-56'-21
	-2396 Dec 29 j 09:55	0°♄		min. Earth dist.	-2390 Sep 29 j 05:09	16°♄53'38	7.93196 AU
conjunction	-2395 Jan 09 j 18:51	1°♄24'38	0°-39'-59	direct	-2390 Dec 04 j 09:44	13°♄24'49	
minimum elong	-2395 Jan 09 j 18:49	1°♄24'37	0°40'04	evening set	-2389 Mar 17 j 21:14	21°♄42'30	
max. Earth dist.	-2395 Jan 09 j 09:18	1°♄21'40	10.54087 AU				
morning rise	-2395 Jan 26 j 22:21	3°♄31'47		conjunction	-2389 Apr 04 j 18:44	24°♄03'53	-2°-19'-9
retrograde	-2395 May 12 j 17:38	11°♄20'21		minimum elong	-2389 Apr 04 j 18:46	24°♄03'53	2°19'10
opposition	-2395 Jul 21 j 21:16	7°♄54'15	-1°-8'-6	max. Earth dist.	-2389 Apr 05 j 04:31	24°♄07'07	9.91159 AU
min. Earth dist.	-2395 Jul 22 j 04:02	7°♄52'56	8.46879 AU	morning rise	-2389 Apr 22 j 19:21	26°♄26'15	
direct	-2395 Sep 27 j 18:11	4°♄32'42			-2389 May 21 j 19:47	0°♄	
evening set	-2394 Jan 05 j 17:34	12°♄03'28		retrograde	-2389 Aug 08 j 00:54	5°♄00'43	
				opposition	-2389 Oct 14 j 02:17	1°♄29'39	-2°-49'-19
conjunction	-2394 Jan 22 j 20:05	14°♄12'08	-1°-9'-5	min. Earth dist.	-2389 Oct 13 j 17:55	1°♄31'24	7.90371 AU
					-2389 Nov 01 j 14:36	30°♄	

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Attention, astronomical year style is used: The year -2389 in astronomical counting style is the year 2390 BCE in historical counting style.

direct	-2389 Dec 19 j 02:02	28° κ 01'08		behind sun end	-2383 Jul 03 j 05:52	19° π 45'42	
	-2388 Feb 03 j 14:28	0° γ		max. Earth dist.	-2383 Jul 03 j 12:20	19° π 47'44	10.31131 AU
evening set	-2388 Apr 01 j 09:13	6° γ 23'04		morning rise	-2383 Jul 20 j 19:47	21° π 57'49	
				retrograde	-2383 Oct 29 j 21:01	29° π 37'05	
conjunction	-2388 Apr 19 j 10:10	8° γ 45'33	-2°-9'-1	opposition	-2382 Jan 04 j 18:32	26° π 13'35	0°33'39
minimum elong	-2388 Apr 19 j 10:13	8° γ 45'34	2°09'01	min. Earth dist.	-2382 Jan 04 j 09:27	26° π 15'24	8.38002 AU
max. Earth dist.	-2388 Apr 19 j 22:26	8° γ 49'37	9.90037 AU	direct	-2382 Mar 14 j 20:24	22° π 45'17	
morning rise	-2388 May 07 j 12:57	11° γ 08'37			-2382 Jun 23 j 15:29	0° ε	
retrograde	-2388 Aug 21 j 23:59	19° γ 39'50		evening set	-2382 Jun 29 j 01:09	0° ε 39'07	
opposition	-2388 Oct 27 j 16:58	16° γ 09'17	-2°-31'-13				
min. Earth dist.	-2388 Oct 27 j 06:58	16° γ 11'22	7.90924 AU	conjunction	-2382 Jul 16 j 19:59	2° ε 50'52	0°43'05
direct	-2387 Jan 01 j 20:59	12° γ 40'03		minimum elong	-2382 Jul 16 j 19:57	2° ε 50'52	0°43'09
evening set	-2387 Apr 16 j 22:34	21° γ 03'26		max. Earth dist.	-2382 Jul 17 j 05:54	2° ε 53'57	10.45204 AU
				morning rise	-2382 Aug 03 j 09:59	5° ε 01'06	
conjunction	-2387 May 05 j 02:07	23° γ 26'12	-1°-50'-33	retrograde	-2382 Nov 11 j 14:49	12° ε 28'52	
minimum elong	-2387 May 05 j 02:11	23° γ 26'14	1°50'32	opposition	-2381 Jan 17 j 21:07	9° ε 06'58	1°11'08
max. Earth dist.	-2387 May 05 j 16:09	23° γ 30'51	9.92354 AU	min. Earth dist.	-2381 Jan 17 j 13:13	9° ε 08'32	8.52310 AU
morning rise	-2387 May 23 j 06:06	25° γ 49'07		direct	-2381 Mar 28 j 14:54	5° ε 39'40	
	-2387 Jun 27 j 01:35	0° ε		evening set	-2381 Jul 12 j 12:45	13° ε 24'03	
retrograde	-2387 Sep 05 j 18:40	4° ε 13'41					
opposition	-2387 Nov 11 j 05:06	0° ε 44'05	-2°-3'-25	conjunction	-2381 Jul 30 j 02:24	15° ε 32'18	1°11'51
min. Earth dist.	-2387 Nov 10 j 18:09	0° ε 46'22	7.94887 AU	minimum elong	-2381 Jul 30 j 02:21	15° ε 32'17	1°11'55
	-2387 Nov 20 j 02:06	30° ε γ		max. Earth dist.	-2381 Jul 30 j 10:36	15° ε 34'49	10.59527 AU
direct	-2386 Jan 16 j 18:05	27° γ 14'26		morning rise	-2381 Aug 16 j 10:46	17° ε 38'58	
	-2386 Mar 13 j 23:57	0° ε		retrograde	-2381 Nov 24 j 00:19	24° ε 56'27	
evening set	-2386 May 02 j 10:08	5° ε 36'19		opposition	-2380 Jan 30 j 16:23	21° ε 36'03	1°43'57
				min. Earth dist.	-2380 Jan 30 j 10:40	21° ε 37'10	8.66539 AU
conjunction	-2386 May 20 j 15:00	7° ε 58'27	-1°-25'-11	direct	-2380 Apr 09 j 23:59	18° ε 09'52	
minimum elong	-2386 May 20 j 15:04	7° ε 58'28	1°25'09	evening set	-2380 Jul 24 j 12:32	25° ε 44'57	
max. Earth dist.	-2386 May 21 j 05:54	8° ε 03'20	9.98051 AU				
morning rise	-2386 Jun 07 j 18:54	10° ε 20'15		conjunction	-2380 Aug 10 j 20:41	27° ε 49'49	1°36'29
	-2386 Jul 17 j 14:09	15° ε		minimum elong	-2380 Aug 10 j 20:38	27° ε 49'48	1°36'32
retrograde	-2386 Sep 20 j 04:30	18° ε 35'19		max. Earth dist.	-2380 Aug 11 j 02:14	27° ε 51'29	10.73411 AU
opposition	-2386 Nov 25 j 12:34	15° ε 06'59	-1°-28'-13	morning rise	-2380 Aug 27 j 23:32	29° ε 53'08	
min. Earth dist.	-2386 Nov 25 j 01:35	15° ε 09'16	8.02099 AU		-2380 Aug 28 j 22:49	0° ε	
	-2386 Nov 26 j 22:17	15° ε ε		retrograde	-2380 Dec 05 j 02:43	7° ε 01'44	
direct	-2385 Jan 31 j 14:29	11° ε 37'13		opposition	-2379 Feb 11 j 04:50	3° ε 42'41	2°11'02
	-2385 Apr 04 j 22:36	15° ε		min. Earth dist.	-2379 Feb 11 j 01:52	3° ε 43'15	8.80037 AU
evening set	-2385 May 17 j 16:20	19° ε 54'52		direct	-2379 Apr 22 j 23:20	0° ε 17'42	
				evening set	-2379 Aug 06 j 01:14	7° ε 44'01	
conjunction	-2385 Jun 04 j 20:54	22° ε 15'25	0°-54'-55				
minimum elong	-2385 Jun 04 j 20:57	22° ε 15'26	0°54'53	conjunction	-2379 Aug 23 j 03:57	9° ε 45'48	1°56'14
max. Earth dist.	-2385 Jun 05 j 11:30	22° ε 20'08	10.06811 AU	minimum elong	-2379 Aug 23 j 03:54	9° ε 45'47	1°56'17
morning rise	-2385 Jun 22 j 23:14	24° ε 35'12		max. Earth dist.	-2379 Aug 23 j 05:55	9° ε 46'23	10.86256 AU
	-2385 Aug 10 j 07:02	0° π		morning rise	-2379 Sep 09 j 01:48	11° ε 46'08	
retrograde	-2385 Oct 04 j 04:08	2° π 38'54			-2379 Oct 08 j 14:57	15° ε	
	-2385 Nov 29 j 18:31	30° ε ε		retrograde	-2379 Dec 16 j 20:24	18° ε 47'27	
opposition	-2385 Dec 09 j 14:06	29° ε 12'05	0°-48'-24	opposition	-2378 Feb 23 j 11:30	15° ε 29'32	2°31'46
min. Earth dist.	-2385 Dec 09 j 03:38	29° ε 14'14	8.12132 AU	min. Earth dist.	-2378 Feb 23 j 10:55	15° ε 29'39	8.92224 AU
direct	-2384 Feb 15 j 07:18	25° ε 42'31			-2378 Mar 02 j 00:09	15° ε ε	
	-2384 Apr 28 j 06:53	0° π		direct	-2378 May 05 j 16:24	12° ε 05'50	
evening set	-2384 May 31 j 14:01	3° π 53'37			-2378 Jul 06 j 18:15	15° ε	
				evening set	-2378 Aug 18 j 03:53	19° ε 24'11	
conjunction	-2384 Jun 18 j 16:38	6° π 11'44	0°-22'-3				
minimum elong	-2384 Jun 18 j 16:39	6° π 11'44	0°22'00	conjunction	-2378 Sep 04 j 01:42	21° ε 23'16	2°10'42
max. Earth dist.	-2384 Jun 19 j 05:58	6° π 16'00	10.18074 AU	minimum elong	-2378 Sep 04 j 01:40	21° ε 23'15	2°10'43
morning rise	-2384 Jul 06 j 15:59	8° π 28'47		max. Earth dist.	-2378 Sep 04 j 00:34	21° ε 22'56	10.97548 AU
retrograde	-2384 Oct 16 j 17:13	16° π 20'15		morning rise	-2378 Sep 20 j 19:09	23° ε 21'04	
opposition	-2384 Dec 22 j 08:17	12° π 55'05	0°-6'-54		-2378 Dec 10 j 08:30	0° π	
min. Earth dist.	-2384 Dec 21 j 22:24	12° π 57'05	8.24349 AU	retrograde	-2378 Dec 28 j 11:36	0° π 16'51	
asc. node	-2383 Feb 23 j 17:43	9° π 27'21			-2377 Jan 15 j 19:32	30° ε ε	
direct	-2383 Feb 28 j 17:56	9° π 26'01		opposition	-2377 Mar 07 j 13:21	26° ε 59'48	2°45'51
evening set	-2383 Jun 15 j 01:23	17° π 28'57		min. Earth dist.	-2377 Mar 07 j 14:18	26° ε 59'38	9.02628 AU
				direct	-2377 May 18 j 02:08	23° ε 37'24	
conjunction	-2383 Jul 03 j 00:39	19° π 44'04	0°11'18		-2377 Aug 22 j 18:02	0° π	
minimum elong	-2383 Jul 03 j 00:38	19° π 44'03	0°11'22	evening set	-2377 Aug 29 j 21:54	0° π 48'44	
behind sun begin	-2383 Jul 02 j 19:24	19° π 42'25					

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Attention, astronomical year style is used: The year -2377 in astronomical counting style is the year 2378 BCE in historical counting style.

conjunction	-2377 Sep 15 j 15:42	2°♄45'39	2°19'39	morning rise	-2371 Dec 05 j 19:35	11°♃01'40	
minimum elong	-2377 Sep 15 j 15:41	2°♄45'39	2°19'41		-2370 Jan 12 j 18:56	15°♃	
max. Earth dist.	-2377 Sep 15 j 12:50	2°♄44'49	11.06874 AU	retrograde	-2370 Mar 17 j 14:30	18°♃04'51	
morning rise	-2377 Oct 02 j 05:28	4°♄41'27			-2370 May 24 j 13:05	15°♃	
retrograde	-2376 Jan 08 j 23:48	11°♄33'21		opposition	-2370 May 27 j 15:32	14°♃46'19	1°28'42
opposition	-2376 Mar 18 j 11:37	8°♄16'57	2°53'12	min. Earth dist.	-2370 May 28 j 03:36	14°♃44'06	9.05571 AU
min. Earth dist.	-2376 Mar 18 j 14:33	8°♄16'24	9.10879 AU	direct	-2370 Aug 06 j 02:16	11°♃28'34	
direct	-2376 May 29 j 03:23	4°♄55'46			-2370 Oct 12 j 21:14	15°♃	
evening set	-2376 Sep 09 j 08:50	12°♄01'12		evening set	-2370 Nov 14 j 00:57	18°♃27'05	
conjunction	-2376 Sep 25 j 23:24	13°♄56'31	2°23'06	conjunction	-2370 Nov 30 j 14:21	20°♃24'05	1°00'11
minimum elong	-2376 Sep 25 j 23:24	13°♄56'30	2°23'08	minimum elong	-2370 Nov 30 j 14:23	20°♃24'06	1°00'09
max. Earth dist.	-2376 Sep 25 j 18:23	13°♄55'03	11.13909 AU	max. Earth dist.	-2370 Nov 30 j 00:37	20°♃20'00	11.00929 AU
morning rise	-2376 Oct 12 j 10:32	15°♄50'54		morning rise	-2370 Dec 17 j 05:42	22°♃21'43	
retrograde	-2375 Jan 19 j 10:05	22°♄40'35		retrograde	-2369 Mar 29 j 19:51	29°♃32'27	
opposition	-2375 Mar 30 j 07:28	19°♄24'34	2°53'57	opposition	-2369 Jun 08 j 21:23	26°♃12'34	0°57'11
min. Earth dist.	-2375 Mar 30 j 13:04	19°♄23'32	9.16692 AU	min. Earth dist.	-2369 Jun 09 j 09:19	26°♃10'21	8.95722 AU
direct	-2375 Jun 10 j 00:28	16°♄04'28		direct	-2369 Aug 17 j 19:53	22°♃54'29	
evening set	-2375 Sep 20 j 14:35	23°♄05'17		evening set	-2369 Nov 25 j 12:23	29°♃57'13	
conjunction	-2375 Oct 07 j 02:41	24°♄59'31	2°21'09	conjunction	-2369 Dec 12 j 04:10	1°♄56'12	0°33'02
minimum elong	-2375 Oct 07 j 02:41	24°♄59'31	2°21'09	minimum elong	-2369 Dec 12 j 04:11	1°♄56'12	0°32'59
max. Earth dist.	-2375 Oct 06 j 18:37	24°♄57'11	11.18418 AU	max. Earth dist.	-2369 Dec 11 j 15:05	1°♄52'17	10.90050 AU
morning rise	-2375 Oct 23 j 12:19	26°♄53'04		morning rise	-2369 Dec 28 j 22:31	3°♄56'04	
	-2375 Nov 21 j 19:15	0°♄		retrograde	-2368 Apr 10 j 10:50	11°♄15'52	
retrograde	-2374 Jan 30 j 19:03	3°♄42'11		retrograde	-2368 Jun 20 j 08:32	7°♄54'28	0°22'33
opposition	-2374 Apr 11 j 02:02	0°♄26'15	2°48'17	opposition	-2368 Jun 20 j 19:35	7°♄52'24	8.83810 AU
min. Earth dist.	-2374 Apr 11 j 09:57	0°♄24'49	9.19878 AU	min. Earth dist.	-2368 Jun 20 j 18:28	4°♄35'49	
	-2374 Apr 17 j 02:02	30°♃		direct	-2368 Aug 28 j 07:28	11°♄44'29	
direct	-2374 Jun 21 j 17:23	27°♄07'05		evening set	-2368 Dec 06 j 07:28	11°♄44'29	
	-2374 Aug 22 j 20:57	0°♄					
evening set	-2374 Oct 01 j 16:40	4°♄04'35		conjunction	-2368 Dec 23 j 01:56	13°♄45'52	0°03'55
conjunction	-2374 Oct 18 j 03:21	5°♄58'19	2°13'59	minimum elong	-2368 Dec 23 j 01:55	13°♄45'51	0°03'51
minimum elong	-2374 Oct 18 j 03:22	5°♄58'19	2°13'58	behind sun begin	-2368 Dec 22 j 18:58	13°♄43'46	
max. Earth dist.	-2374 Oct 17 j 17:23	5°♄55'25	11.20265 AU	behind sun end	-2368 Dec 23 j 08:52	13°♄47'56	
morning rise	-2374 Nov 03 j 12:28	7°♄51'38		max. Earth dist.	-2368 Dec 22 j 12:52	13°♄41'54	10.77298 AU
retrograde	-2373 Feb 11 j 06:05	14°♄41'52		morning rise	-2367 Jan 08 j 23:44	15°♄48'21	
opposition	-2373 Apr 22 j 20:37	11°♄25'41	2°36'30	desc. node	-2367 Feb 09 j 15:01	19°♄18'52	
min. Earth dist.	-2373 Apr 23 j 05:28	11°♄24'04	9.20339 AU	retrograde	-2367 Apr 23 j 11:51	23°♄18'37	
direct	-2373 Jul 03 j 09:01	8°♄07'15		opposition	-2367 Jul 03 j 02:30	19°♄55'35	0°-14'-3
evening set	-2373 Oct 12 j 16:45	15°♄02'46		min. Earth dist.	-2367 Jul 03 j 12:44	19°♄53'38	8.70298 AU
conjunction	-2373 Oct 29 j 03:05	16°♄56'34	2°01'54	direct	-2367 Sep 09 j 20:46	16°♄36'06	
minimum elong	-2373 Oct 29 j 03:07	16°♄56'34	2°01'52	evening set	-2367 Dec 18 j 11:51	23°♄52'18	
max. Earth dist.	-2373 Oct 28 j 16:29	16°♄53'29	11.19382 AU	conjunction	-2366 Jan 04 j 09:12	25°♄56'21	0°-26'-15
morning rise	-2373 Nov 14 j 12:29	18°♄50'10		minimum elong	-2366 Jan 04 j 09:11	25°♄56'21	0°26'19
retrograde	-2372 Feb 22 j 21:19	25°♄43'08		max. Earth dist.	-2366 Jan 03 j 20:43	25°♄52'30	10.63233 AU
opposition	-2372 May 03 j 16:16	22°♄26'27	2°18'59	morning rise	-2366 Jan 21 j 10:49	28°♄01'46	
min. Earth dist.	-2372 May 04 j 01:54	22°♄24'41	9.18051 AU		-2366 Feb 07 j 06:29	0°♄	
direct	-2372 Jul 13 j 22:13	19°♄08'32		retrograde	-2366 May 06 j 20:13	5°♄43'34	
evening set	-2372 Oct 22 j 17:04	26°♄03'29		opposition	-2366 Jul 16 j 03:54	2°♄18'48	0°-51'-15
conjunction	-2372 Nov 08 j 03:44	27°♄57'52	1°45'15	min. Earth dist.	-2366 Jul 16 j 13:03	2°♄17'02	8.55827 AU
minimum elong	-2372 Nov 08 j 03:46	27°♄57'53	1°45'13		-2366 Aug 18 j 07:29	30°♃	
max. Earth dist.	-2372 Nov 07 j 15:54	27°♄54'25	11.15784 AU	direct	-2366 Sep 22 j 06:56	28°♄58'12	
morning rise	-2372 Nov 24 j 14:20	29°♄52'20		evening set	-2366 Oct 26 j 12:51	0°♄	
	-2372 Nov 25 j 17:13	0°♃			-2366 Dec 31 j 03:18	6°♄23'23	
retrograde	-2371 Mar 05 j 14:41	6°♃49'36		conjunction	-2365 Jan 17 j 03:56	8°♄30'21	0°-55'-56
opposition	-2371 May 15 j 14:06	3°♃32'07	1°56'12	minimum elong	-2365 Jan 17 j 03:54	8°♄30'20	0°56'01
min. Earth dist.	-2371 May 16 j 01:09	3°♃30'06	9.13079 AU	max. Earth dist.	-2365 Jan 16 j 17:19	8°♄27'01	10.48533 AU
direct	-2371 Jul 25 j 10:36	0°♃14'26		morning rise	-2365 Feb 03 j 09:25	10°♄38'50	
evening set	-2371 Nov 02 j 19:15	7°♃10'24		retrograde	-2365 May 20 j 14:27	18°♄32'42	
conjunction	-2371 Nov 19 j 06:52	9°♃05'51	1°24'30	opposition	-2365 Jul 29 j 12:51	15°♄06'11	-1°-27'-14
minimum elong	-2371 Nov 19 j 06:54	9°♃05'52	1°24'28	min. Earth dist.	-2365 Jul 29 j 20:16	15°♄04'44	8.41111 AU
max. Earth dist.	-2371 Nov 18 j 17:18	9°♃01'52	11.09579 AU	direct	-2365 Oct 05 j 02:49	11°♄44'18	
				evening set	-2364 Jan 13 j 06:57	19°♄19'31	

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Attention, astronomical year style is used: The year -2364 in astronomical counting style is the year 2365 BCE in historical counting style.

conjunction	-2364 Jan 30 j 11:10	21°☉29'32	-1°-23'-41	conjunction	-2358 Apr 28 j 02:23	16°♃46'27	-2°00'-20
minimum elong	-2364 Jan 30 j 11:07	21°☉29'31	1°23'46	minimum elong	-2358 Apr 28 j 02:26	16°♃46'28	2°00'19
max. Earth dist.	-2364 Jan 30 j 03:52	21°☉27'12	10.33923 AU	max. Earth dist.	-2358 Apr 28 j 14:37	16°♃50'30	9.89135 AU
morning rise	-2364 Feb 16 j 20:24	23°☉41'10		morning rise	-2358 May 16 j 06:13	19°♃09'47	
	-2364 Apr 17 j 11:26	0°♁		retrograde	-2358 Aug 30 j 05:58	27°♃38'32	
retrograde	-2364 Jun 02 j 19:18	1°♁47'00		opposition	-2358 Nov 04 j 19:29	24°♃07'46	-2°-17'-48
	-2364 Jul 20 j 00:59	30°♁		min. Earth dist.	-2358 Nov 04 j 09:28	24°♃09'52	7.90926 AU
opposition	-2364 Aug 11 j 05:34	28°♁18'48	-1°-59'-56	direct	-2357 Jan 10 j 05:16	20°♃37'36	
min. Earth dist.	-2364 Aug 11 j 10:09	28°♁17'54	8.26894 AU	evening set	-2357 Apr 25 j 13:03	29°♃01'07	
direct	-2364 Oct 17 j 06:20	24°♁55'31			-2357 May 03 j 02:21	0°♁	
	-2363 Jan 03 j 16:55	0°♁		conjunction	-2357 May 13 j 17:30	1°♁23'51	-1°-37'-59
evening set	-2363 Jan 25 j 23:23	2°♁41'25		minimum elong	-2357 May 13 j 17:33	1°♁23'52	1°37'57
				max. Earth dist.	-2357 May 14 j 07:38	1°♁28'30	9.93350 AU
conjunction	-2363 Feb 12 j 07:18	4°♁54'27	-1°-47'-46	morning rise	-2357 May 31 j 21:51	3°♁46'30	
minimum elong	-2363 Feb 12 j 07:15	4°♁54'26	1°47'50	retrograde	-2357 Sep 13 j 18:51	12°♁06'53	
max. Earth dist.	-2363 Feb 12 j 03:43	4°♁53'17	10.20176 AU	opposition	-2357 Nov 19 j 05:31	8°♁37'17	-1°-45'-43
morning rise	-2363 Mar 01 j 20:10	7°♁09'08		min. Earth dist.	-2357 Nov 18 j 18:08	8°♁39'40	7.96805 AU
	-2363 May 26 j 02:48	15°♁		direct	-2356 Jan 25 j 02:45	5°♁06'57	
retrograde	-2363 Jun 17 j 09:16	15°♁26'02		evening set	-2356 May 09 j 22:12	13°♁27'22	
	-2363 Jul 09 j 17:04	15°♁			-2356 May 21 j 21:09	15°♁	
opposition	-2363 Aug 25 j 05:40	11°♁56'23	-2°-27'-5	conjunction	-2356 May 28 j 03:13	15°♁48'56	-1°-9'-44
min. Earth dist.	-2363 Aug 25 j 06:53	11°♁56'08	8.13951 AU	minimum elong	-2356 May 28 j 03:16	15°♁48'57	1°09'42
direct	-2363 Oct 30 j 18:28	8°♁31'39		max. Earth dist.	-2356 May 28 j 18:33	15°♁53'56	10.00934 AU
	-2362 Jan 28 j 11:09	15°♁		morning rise	-2356 Jun 15 j 06:38	18°♁09'57	
evening set	-2362 Feb 09 j 04:44	16°♁28'13		retrograde	-2356 Sep 26 j 23:35	26°♁19'41	
				opposition	-2356 Dec 02 j 10:08	22°♁51'36	-1°-7'-39
conjunction	-2362 Feb 26 j 16:28	18°♁44'09	-2°-6'-22	min. Earth dist.	-2356 Dec 01 j 21:58	22°♁54'07	8.05821 AU
minimum elong	-2362 Feb 26 j 16:25	18°♁44'08	2°06'25	direct	-2355 Feb 07 j 20:39	19°♁21'28	
max. Earth dist.	-2362 Feb 26 j 16:30	18°♁44'09	10.08089 AU	evening set	-2355 May 25 j 00:14	27°♁36'15	
morning rise	-2362 Mar 16 j 08:59	21°♁01'40		conjunction	-2355 Jun 12 j 04:13	29°♁55'47	0°-37'-46
retrograde	-2362 Jul 02 j 05:43	29°♁27'44		minimum elong	-2355 Jun 12 j 04:15	29°♁55'47	0°37'43
opposition	-2362 Sep 08 j 12:12	25°♁56'57	-2°-46'-22		-2355 Jun 12 j 17:20	0°♁	
min. Earth dist.	-2362 Sep 08 j 10:22	25°♁57'19	8.03046 AU	max. Earth dist.	-2355 Jun 12 j 19:54	0°♁00'50	10.11373 AU
direct	-2362 Nov 13 j 16:28	22°♁30'45		morning rise	-2355 Jun 30 j 05:14	2°♁14'20	
	-2361 Feb 19 j 01:32	0°♁		retrograde	-2355 Oct 10 j 19:27	10°♁12'07	
evening set	-2361 Feb 23 j 21:53	0°♁37'16		opposition	-2355 Dec 16 j 08:02	6°♁45'47	0°-26'-32
				min. Earth dist.	-2355 Dec 15 j 20:18	6°♁48'11	8.17380 AU
conjunction	-2361 Mar 13 j 13:34	2°♁55'48	-2°-17'-50	direct	-2354 Feb 22 j 09:00	3°♁16'12	
minimum elong	-2361 Mar 13 j 13:33	2°♁55'48	2°17'52	evening set	-2354 Jun 08 j 17:07	11°♁23'32	
max. Earth dist.	-2361 Mar 13 j 16:59	2°♁56'56	9.98404 AU	conjunction	-2354 Jun 26 j 18:22	13°♁40'17	0°-4'-24
morning rise	-2361 Mar 31 j 09:39	5°♁15'47		minimum elong	-2354 Jun 26 j 18:23	13°♁40'17	0°04'22
retrograde	-2361 Jul 17 j 06:23	13°♁48'10		behind sun begin	-2354 Jun 26 j 11:12	13°♁38'02	
opposition	-2361 Sep 22 j 23:45	10°♁16'40	-2°-55'-51	behind sun end	-2354 Jun 27 j 01:34	13°♁42'33	
min. Earth dist.	-2361 Sep 22 j 19:21	10°♁17'34	7.94852 AU	max. Earth dist.	-2354 Jun 27 j 09:01	13°♁44'55	10.23979 AU
direct	-2361 Nov 27 j 22:48	6°♁49'07		morning rise	-2354 Jul 14 j 15:36	15°♁55'45	
evening set	-2360 Mar 10 j 00:52	15°♁03'55		asc. node	-2354 Aug 15 j 06:30	19°♁36'13	
				retrograde	-2354 Oct 24 j 05:35	23°♁41'12	
conjunction	-2360 Mar 27 j 20:26	17°♁24'37	-2°-20'-55	opposition	-2354 Dec 29 j 22:23	20°♁16'45	0°14'49
minimum elong	-2360 Mar 27 j 20:27	17°♁24'37	2°20'56	min. Earth dist.	-2354 Dec 29 j 12:04	20°♁18'50	8.30765 AU
max. Earth dist.	-2360 Mar 28 j 02:59	17°♁26'47	9.91746 AU	direct	-2353 Mar 08 j 14:47	16°♁48'02	
morning rise	-2360 Apr 14 j 19:45	19°♁46'29		evening set	-2353 Jun 22 j 23:02	24°♁46'41	
retrograde	-2360 Jul 31 j 08:40	28°♁21'35		conjunction	-2353 Jul 10 j 20:09	27°♁00'10	0°28'26
opposition	-2360 Oct 06 j 14:19	24°♁49'51	-2°-54'-15	minimum elong	-2353 Jul 10 j 20:08	27°♁00'09	0°28'30
min. Earth dist.	-2360 Oct 06 j 07:54	24°♁51'11	7.89912 AU	max. Earth dist.	-2353 Jul 11 j 08:33	27°♁04'02	10.37996 AU
direct	-2360 Dec 11 j 12:19	21°♁21'08		morning rise	-2353 Jul 28 j 12:38	29°♁12'11	
evening set	-2359 Mar 25 j 10:43	29°♁41'50			-2353 Aug 04 j 02:18	0°♁	
	-2359 Mar 27 j 18:27	0°♁		retrograde	-2353 Nov 06 j 03:49	6°♁45'42	
conjunction	-2359 Apr 12 j 09:59	2°♁04'03	-2°-15'00	opposition	-2352 Jan 11 j 05:13	3°♁23'10	0°54'03
minimum elong	-2359 Apr 12 j 10:02	2°♁04'04	2°15'00	min. Earth dist.	-2352 Jan 12 j 20:38	3°♁24'52	8.45209 AU
max. Earth dist.	-2359 Apr 12 j 19:35	2°♁07'14	9.88583 AU		-2352 Mar 12 j 06:47	30°♁	
morning rise	-2359 Apr 30 j 11:59	4°♁27'06		direct	-2352 Mar 21 j 14:21	29°♁55'31	
retrograde	-2359 Aug 15 j 09:32	13°♁00'57			-2352 Mar 30 j 21:32	0°♁	
opposition	-2359 Oct 21 j 05:40	9°♁29'27	-2°-41'-16				
min. Earth dist.	-2359 Oct 20 j 21:21	9°♁31'12	7.88574 AU				
direct	-2359 Dec 26 j 07:06	5°♁59'51					
evening set	-2358 Apr 09 j 23:58	14°♁23'30					

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Attention, astronomical year style is used: The year -2352 in astronomical counting style is the year 2353 BCE in historical counting style.

evening set	-2352 Jul 05 j 16:52	7°♄44'50		conjunction	-2346 Oct 02 j 11:56	20°♃15'22	2°22'35
				minimum elong	-2346 Oct 02 j 11:56	20°♃15'22	2°22'36
conjunction	-2352 Jul 23 j 08:58	9°♄54'48	0°58'50	max. Earth dist.	-2346 Oct 02 j 04:23	20°♃13'10	11.16686 AU
minimum elong	-2352 Jul 23 j 08:56	9°♄54'47	0°58'53	morning rise	-2346 Oct 18 j 22:09	22°♃09'18	
max. Earth dist.	-2352 Jul 23 j 18:29	9°♄57'44	10.52650 AU	retrograde	-2345 Jan 26 j 02:27	28°♃58'52	
morning rise	-2352 Aug 09 j 20:10	12°♄03'14		opposition	-2345 Apr 06 j 03:46	25°♃43'08	2°51'31
retrograde	-2352 Nov 17 j 17:07	19°♄25'50		min. Earth dist.	-2345 Apr 06 j 10:42	25°♃41'52	9.18563 AU
opposition	-2351 Jan 24 j 04:21	16°♄05'02	1°29'15	direct	-2345 Jun 16 j 20:18	22°♃23'44	
min. Earth dist.	-2351 Jan 23 j 21:22	16°♄06'24	8.59931 AU	evening set	-2345 Sep 27 j 02:47	29°♃22'59	
direct	-2351 Apr 04 j 04:48	12°♄38'38			-2345 Oct 02 j 12:15	0°♄	
evening set	-2351 Jul 18 j 22:52	20°♄18'30					
				conjunction	-2345 Oct 13 j 14:12	1°♄16'58	2°17'46
conjunction	-2351 Aug 05 j 09:34	22°♄24'59	1°25'33	minimum elong	-2345 Oct 13 j 14:13	1°♄16'59	2°17'46
minimum elong	-2351 Aug 05 j 09:30	22°♄24'58	1°25'35	max. Earth dist.	-2345 Oct 13 j 04:53	1°♄14'16	11.19357 AU
max. Earth dist.	-2351 Aug 05 j 16:13	22°♄27'01	10.67184 AU	morning rise	-2345 Oct 29 j 23:21	3°♄10'25	
morning rise	-2351 Aug 22 j 15:12	24°♄29'55		retrograde	-2344 Feb 06 j 12:45	10°♄00'19	
	-2351 Oct 16 j 04:27	0°♄		opposition	-2344 Apr 16 j 22:38	6°♄44'19	2°42'29
retrograde	-2351 Nov 29 j 23:26	1°♄42'53		min. Earth dist.	-2344 Apr 17 j 07:57	6°♄42'37	9.19857 AU
	-2350 Jan 15 j 01:57	30°♃		direct	-2344 Jun 27 j 12:01	3°♄25'31	
opposition	-2350 Feb 05 j 20:16	28°♄23'37	1°59'09	evening set	-2344 Oct 07 j 04:04	10°♄22'11	
min. Earth dist.	-2350 Feb 05 j 14:54	28°♄24'39	8.74187 AU				
direct	-2350 Apr 17 j 09:26	24°♄58'33		conjunction	-2344 Oct 23 j 14:29	12°♄16'00	2°07'53
	-2350 Jul 09 j 15:25	0°♄		minimum elong	-2344 Oct 23 j 14:31	12°♄16'00	2°07'52
evening set	-2350 Jul 31 j 17:21	2°♄29'16		max. Earth dist.	-2344 Oct 23 j 02:31	12°♄12'31	11.19297 AU
				morning rise	-2344 Nov 08 j 23:45	14°♄09'31	
conjunction	-2350 Aug 17 j 22:40	4°♄32'29	1°47'40	retrograde	-2343 Feb 17 j 01:07	21°♄01'22	
minimum elong	-2350 Aug 17 j 22:37	4°♄32'28	1°47'42	opposition	-2343 Apr 28 j 18:00	17°♄44'48	2°27'33
max. Earth dist.	-2350 Aug 18 j 03:06	4°♄33'49	10.80895 AU	min. Earth dist.	-2343 Apr 29 j 05:11	17°♄42'45	9.18397 AU
morning rise	-2350 Sep 03 j 22:49	6°♄34'12		direct	-2343 Jul 09 j 02:46	14°♄26'22	
retrograde	-2350 Dec 11 j 22:06	13°♄39'02		evening set	-2343 Oct 18 j 04:17	21°♄21'51	
opposition	-2349 Feb 18 j 06:08	10°♄21'05	2°22'54				
min. Earth dist.	-2349 Feb 18 j 03:12	10°♄21'39	8.87305 AU	conjunction	-2343 Nov 03 j 14:40	23°♄16'01	1°53'16
direct	-2349 Apr 30 j 05:50	6°♄57'20		minimum elong	-2343 Nov 03 j 14:42	23°♄16'02	1°53'14
evening set	-2349 Aug 13 j 01:04	14°♄19'33		max. Earth dist.	-2343 Nov 03 j 01:26	23°♄12'10	11.16520 AU
	-2349 Aug 18 j 19:26	15°♄		morning rise	-2343 Nov 20 j 00:49	25°♄10'10	
conjunction	-2349 Aug 30 j 01:15	16°♄19'51	2°04'37		-2342 Jan 07 j 19:09	0°♃	
minimum elong	-2349 Aug 30 j 01:12	16°♄19'51	2°04'39	retrograde	-2342 Feb 28 j 16:08	2°♃05'39	
max. Earth dist.	-2349 Aug 30 j 02:50	16°♄20'19	10.93151 AU		-2342 Apr 23 j 21:00	30°♃	
morning rise	-2349 Sep 15 j 20:32	18°♄18'46		opposition	-2342 May 10 j 14:58	28°♄48'10	2°07'06
retrograde	-2349 Dec 23 j 16:07	25°♄17'11		min. Earth dist.	-2342 May 11 j 02:41	28°♄46'01	9.14243 AU
opposition	-2348 Mar 01 j 10:43	22°♄00'17	2°40'04	direct	-2342 Jul 20 j 17:00	25°♄29'55	
min. Earth dist.	-2348 Mar 01 j 11:07	22°♄00'12	8.98687 AU		-2342 Oct 07 j 01:10	0°♃	
direct	-2348 May 11 j 18:17	18°♄37'47		evening set	-2342 Oct 29 j 05:22	2°♃25'42	
evening set	-2348 Aug 23 j 23:36	25°♄52'29					
				conjunction	-2342 Nov 14 j 16:39	4°♃20'45	1°34'19
conjunction	-2348 Sep 09 j 19:10	27°♄50'22	2°16'07	minimum elong	-2342 Nov 14 j 16:42	4°♃20'45	1°34'17
minimum elong	-2348 Sep 09 j 19:08	27°♄50'22	2°16'09	max. Earth dist.	-2342 Nov 14 j 03:36	4°♃16'55	11.11120 AU
max. Earth dist.	-2348 Sep 09 j 16:42	27°♄49'39	11.03419 AU	morning rise	-2342 Dec 01 j 04:21	6°♃16'01	
morning rise	-2348 Sep 26 j 10:33	29°♄47'03		retrograde	-2341 Mar 12 j 14:21	13°♃16'46	
	-2348 Sep 28 j 07:39	0°♃		opposition	-2341 May 22 j 14:44	9°♃58'10	1°41'39
retrograde	-2347 Jan 03 j 04:22	6°♃40'46		min. Earth dist.	-2341 May 23 j 02:15	9°♃56'03	9.07540 AU
opposition	-2347 Mar 13 j 10:53	3°♃24'35	2°50'31	direct	-2341 Aug 01 j 07:54	6°♃39'53	
min. Earth dist.	-2347 Mar 13 j 14:19	3°♃23'57	9.07861 AU	evening set	-2341 Nov 09 j 09:17	13°♃37'29	
direct	-2347 May 23 j 23:33	0°♃03'16			-2341 Nov 21 j 03:15	15°♃	
evening set	-2347 Sep 04 j 14:20	7°♃11'39					
				conjunction	-2341 Nov 25 j 22:01	15°♃33'55	1°11'32
conjunction	-2347 Sep 21 j 06:11	9°♃07'40	2°22'05	minimum elong	-2341 Nov 25 j 22:03	15°♃33'55	1°11'30
minimum elong	-2347 Sep 21 j 06:10	9°♃07'40	2°22'07	max. Earth dist.	-2341 Nov 25 j 08:24	15°♃29'53	11.03274 AU
max. Earth dist.	-2347 Sep 21 j 00:21	9°♃05'58	11.11334 AU	morning rise	-2341 Dec 12 j 12:05	17°♃30'50	
morning rise	-2347 Oct 07 j 18:34	11°♃02'41		retrograde	-2340 Mar 23 j 17:20	24°♃38'24	
retrograde	-2346 Jan 14 j 15:27	17°♃53'30		opposition	-2340 Jun 02 j 18:31	21°♃18'30	1°11'51
opposition	-2346 Mar 25 j 08:11	14°♃37'43	2°54'16	min. Earth dist.	-2340 Jun 03 j 06:22	21°♃16'19	8.98505 AU
min. Earth dist.	-2346 Mar 25 j 13:30	14°♃36'44	9.14539 AU	direct	-2340 Aug 11 j 22:35	17°♃59'57	
direct	-2346 Jun 05 j 01:19	11°♃17'26		evening set	-2340 Nov 19 j 18:05	25°♃01'05	
evening set	-2346 Sep 15 j 22:45	18°♃20'39					
				conjunction	-2340 Dec 06 j 08:42	26°♃59'18	0°45'33
				minimum elong	-2340 Dec 06 j 08:44	26°♃59'19	0°45'30

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Attention, astronomical year style is used: The year -2340 in astronomical counting style is the year 2341 BCE in historical counting style.

max. Earth dist.	-2340 Dec 05 j 18:23	26°♁55'02	10.93238 AU	conjunction	-2333 Feb 20 j 14:13	12°≈45'09	-1°-58'-46
morning rise	-2340 Dec 23 j 01:47	28°♁58'18		minimum elong	-2333 Feb 20 j 14:10	12°≈45'08	1°58'49
	-2340 Dec 31 j 23:48	0°♁		max. Earth dist.	-2333 Feb 20 j 12:46	12°≈44'41	10.13337 AU
retrograde	-2339 Apr 05 j 03:12	6°♁14'16		morning rise	-2333 Mar 10 j 05:15	15°≈01'28	
opposition	-2339 Jun 15 j 03:19	2°♁52'56	0°38'28		-2333 Mar 10 j 00:37	15°≈	
min. Earth dist.	-2339 Jun 15 j 15:18	2°♁50'41	8.87451 AU	retrograde	-2333 Jun 25 j 23:21	23°≈23'51	
	-2339 Jul 31 j 20:08	30°♁		opposition	-2333 Sep 02 j 12:26	19°≈53'49	-2°-38'-44
direct	-2339 Aug 23 j 19:17	29°♁33'53		min. Earth dist.	-2333 Sep 02 j 11:56	19°≈53'55	8.07937 AU
	-2339 Sep 15 j 11:08	0°♁		direct	-2333 Nov 07 j 20:20	16°≈28'33	
evening set	-2339 Dec 01 j 09:27	6°♁40'11		evening set	-2332 Feb 17 j 16:41	24°≈30'54	
conjunction	-2339 Dec 18 j 02:36	8°♁40'37	0°17'10	conjunction	-2332 Mar 06 j 06:31	26°≈48'17	-2°-13'-35
minimum elong	-2339 Dec 18 j 02:36	8°♁40'37	0°17'07	minimum elong	-2332 Mar 06 j 06:29	26°≈48'17	2°13'37
max. Earth dist.	-2339 Dec 17 j 13:05	8°♁36'32	10.81363 AU	max. Earth dist.	-2332 Mar 06 j 09:14	26°≈49'11	10.02922 AU
morning rise	-2338 Jan 03 j 23:00	10°♁42'04		morning rise	-2332 Mar 24 j 01:02	29°≈07'12	
retrograde	-2338 Apr 17 j 22:34	18°♁07'53			-2332 Mar 30 j 23:04	0°♁	
opposition	-2338 Jun 27 j 18:21	14°♁44'58	0°02'33	retrograde	-2332 Jul 09 j 22:13	7°♁37'12	
min. Earth dist.	-2338 Jun 28 j 05:16	14°♁42'54	8.74786 AU	opposition	-2332 Sep 15 j 22:17	4°♁06'25	-2°-52'-44
desc. node	-2338 Jul 23 j 22:39	12°♁52'56		min. Earth dist.	-2332 Sep 15 j 18:38	4°♁07'10	7.98883 AU
direct	-2338 Sep 04 j 20:27	11°♁25'15		direct	-2332 Nov 20 j 23:09	0°♁39'58	
evening set	-2338 Dec 13 j 09:19	18°♁38'18		evening set	-2331 Mar 03 j 15:40	8°♁51'14	
conjunction	-2338 Dec 30 j 05:27	20°♁41'16	0°-12'-42	conjunction	-2331 Mar 21 j 09:30	11°♁10'58	-2°-20'-30
minimum elong	-2338 Dec 30 j 05:27	20°♁41'16	0°12'47	minimum elong	-2331 Mar 21 j 09:30	11°♁10'58	2°20'31
behind sun begin	-2338 Dec 30 j 00:58	20°♁39'54		max. Earth dist.	-2331 Mar 21 j 16:30	11°♁13'16	9.95260 AU
behind sun end	-2338 Dec 30 j 09:55	20°♁42'37		morning rise	-2331 Apr 08 j 07:17	13°♁31'59	
max. Earth dist.	-2338 Dec 29 j 18:00	20°♁37'46	10.68087 AU	retrograde	-2331 Jul 25 j 00:53	22°♁06'16	
morning rise	-2337 Jan 16 j 05:22	22°♁45'29		opposition	-2331 Sep 30 j 12:01	18°♁35'07	-2°-56'-8
	-2337 Apr 09 j 22:51	0°♁		min. Earth dist.	-2331 Sep 30 j 05:19	18°♁36'31	7.92831 AU
retrograde	-2337 May 01 j 03:19	0°♁22'21		direct	-2331 Dec 05 j 09:31	15°♁07'33	
	-2337 May 22 j 12:18	30°♁		evening set	-2330 Mar 18 j 23:03	23°♁25'37	
opposition	-2337 Jul 10 j 16:17	26°♁57'47	0°-34'-35	conjunction	-2330 Apr 05 j 20:47	25°♁47'07	-2°-18'-35
min. Earth dist.	-2337 Jul 11 j 01:03	26°♁56'07	8.61003 AU	minimum elong	-2330 Apr 05 j 20:49	25°♁47'08	2°18'36
direct	-2337 Sep 17 j 03:38	23°♁37'13		max. Earth dist.	-2330 Apr 06 j 07:14	25°♁50'35	9.90848 AU
	-2337 Dec 17 j 16:41	0°♁		morning rise	-2330 Apr 23 j 21:27	28°♁09'36	
evening set	-2337 Dec 25 j 19:40	0°♁58'33			-2330 May 08 j 09:27	0°♁	
conjunction	-2336 Jan 11 j 18:57	3°♁04'19	0°-42'-45	retrograde	-2330 Aug 09 j 03:26	6°♁44'12	
minimum elong	-2336 Jan 11 j 18:55	3°♁04'18	0°42'49	opposition	-2330 Oct 15 j 03:17	3°♁13'08	-2°-48'-9
max. Earth dist.	-2336 Jan 11 j 09:22	3°♁01'20	10.53954 AU	min. Earth dist.	-2330 Oct 14 j 18:26	3°♁14'58	7.90140 AU
morning rise	-2336 Jan 28 j 22:33	5°♁11'30			-2330 Dec 03 j 16:31	30°♁	
retrograde	-2336 May 13 j 19:02	13°♁00'12		direct	-2330 Dec 20 j 01:55	29°♁44'34	
opposition	-2336 Jul 22 j 21:40	9°♁34'02	-1°-11'-22		-2329 Jan 05 j 11:39	0°♁	
min. Earth dist.	-2336 Jul 23 j 04:13	9°♁32'46	8.46703 AU	evening set	-2329 Apr 03 j 11:24	8°♁06'47	
direct	-2336 Sep 28 j 18:02	6°♁12'27		conjunction	-2329 Apr 21 j 12:32	10°♁29'20	-2°-7'-43
evening set	-2335 Jan 06 j 17:49	13°♁43'20		minimum elong	-2329 Apr 21 j 12:35	10°♁29'21	2°07'43
conjunction	-2335 Jan 23 j 20:21	15°♁52'03	-1°-11'-34	max. Earth dist.	-2329 Apr 22 j 01:02	10°♁33'29	9.89907 AU
minimum elong	-2335 Jan 23 j 20:18	15°♁52'02	1°11'39	morning rise	-2329 May 09 j 15:24	12°♁52'28	
max. Earth dist.	-2335 Jan 23 j 12:32	15°♁49'35	10.39620 AU	retrograde	-2329 Aug 24 j 02:54	21°♁23'32	
morning rise	-2335 Feb 10 j 03:48	18°♁02'21		opposition	-2329 Oct 29 j 18:03	17°♁53'00	-2°-29'-11
retrograde	-2335 May 27 j 20:31	26°♁03'07		min. Earth dist.	-2329 Oct 29 j 08:12	17°♁55'03	7.90886 AU
opposition	-2335 Aug 05 j 11:10	22°♁35'27	-1°-45'-49	direct	-2328 Jan 03 j 22:24	14°♁23'42	
min. Earth dist.	-2335 Aug 05 j 15:34	22°♁34'35	8.32586 AU	evening set	-2328 Apr 18 j 00:57	22°♁47'11	
direct	-2335 Oct 11 j 16:19	19°♁12'42		conjunction	-2328 May 06 j 04:31	25°♁09'58	-1°-48'-36
evening set	-2334 Jan 20 j 04:30	26°♁54'00		minimum elong	-2328 May 06 j 04:35	25°♁10'00	1°48'35
conjunction	-2334 Feb 06 j 10:32	29°♁05'43	-1°-37'-31	max. Earth dist.	-2328 May 06 j 18:06	25°♁14'27	9.92399 AU
minimum elong	-2334 Feb 06 j 10:29	29°♁05'42	1°37'34	morning rise	-2328 May 24 j 08:35	27°♁32'54	
max. Earth dist.	-2334 Feb 06 j 05:23	29°♁04'04	10.25824 AU		-2328 Jun 12 j 23:37	0°♁	
	-2334 Feb 13 j 12:10	0°≈		retrograde	-2328 Sep 06 j 20:12	5°♁57'08	
morning rise	-2334 Feb 23 j 21:52	1°≈19'07		opposition	-2328 Nov 12 j 06:08	2°♁27'35	-2°00'-39
retrograde	-2334 Jun 11 j 06:27	9°≈31'26		min. Earth dist.	-2328 Nov 11 j 19:52	2°♁29'44	7.94987 AU
opposition	-2334 Aug 19 j 08:24	6°≈02'27	-2°-15'-42		-2328 Dec 15 j 02:12	30°♁	
min. Earth dist.	-2334 Aug 19 j 10:39	6°≈01'59	8.19409 AU	direct	-2327 Jan 17 j 20:17	28°♁57'53	
direct	-2334 Oct 25 j 01:05	2°≈38'27			-2327 Feb 20 j 11:04	0°♁	
evening set	-2333 Feb 03 j 04:22	10°≈30'30		evening set	-2327 May 03 j 12:24	7°♁19'48	

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Attention, astronomical year style is used: The year -2327 in astronomical counting style is the year 2328 BCE in historical counting style.

conjunction	-2327 May 21 j 17:12	9°♄41'54	-1°-22'-43	opposition	-2321 Jan 31 j 17:37	23°♄18'12	1°46'52
minimum elong	-2327 May 21 j 17:16	9°♄41'56	1°22'42	min. Earth dist.	-2321 Jan 31 j 12:35	23°♄19'11	8.66769 AU
max. Earth dist.	-2327 May 22 j 07:09	9°♄46'28	9.98197 AU	direct	-2321 Apr 12 j 00:33	19°♄52'05	
morning rise	-2327 Jun 08 j 21:10	12°♄03'41		evening set	-2321 Jul 26 j 14:13	27°♄27'08	
	-2327 Jul 02 j 20:10	15°♄					
retrograde	-2327 Sep 21 j 04:46	20°♄18'25		conjunction	-2321 Aug 12 j 21:56	29°♄31'54	1°38'39
opposition	-2327 Nov 26 j 13:34	16°♄50'10	-1°-24'-54	minimum elong	-2321 Aug 12 j 21:53	29°♄31'53	1°38'41
min. Earth dist.	-2327 Nov 26 j 03:15	16°♄52'19	8.02273 AU	max. Earth dist.	-2321 Aug 13 j 02:42	29°♄33'20	10.73637 AU
	-2327 Dec 19 j 22:38	15°♄♄			-2321 Aug 16 j 18:57	0°♄	
direct	-2326 Feb 01 j 16:28	13°♄20'23		morning rise	-2321 Aug 30 j 00:34	1°♄35'08	
	-2326 Mar 17 j 00:51	15°♄		retrograde	-2321 Dec 07 j 02:11	8°♄43'40	
evening set	-2326 May 18 j 18:26	21°♄38'01		opposition	-2320 Feb 13 j 06:14	5°♄24'41	2°13'24
				min. Earth dist.	-2320 Feb 13 j 03:16	5°♄25'16	8.80273 AU
conjunction	-2326 Jun 05 j 22:56	23°♄58'32	0°-52'-7	direct	-2320 Apr 24 j 01:44	1°♄59'47	
minimum elong	-2326 Jun 05 j 22:58	23°♄58'32	0°52'04	evening set	-2320 Aug 07 j 02:30	9°♄26'00	
max. Earth dist.	-2326 Jun 06 j 12:30	24°♄02'55	10.07004 AU				
morning rise	-2326 Jun 24 j 01:18	26°♄18'17		conjunction	-2320 Aug 24 j 04:54	11°♄27'40	1°57'55
	-2326 Jul 25 j 02:58	0°♄		minimum elong	-2320 Aug 24 j 04:51	11°♄27'40	1°57'57
retrograde	-2326 Oct 05 j 04:30	4°♄21'40		max. Earth dist.	-2320 Aug 24 j 06:40	11°♄28'12	10.86489 AU
opposition	-2326 Dec 10 j 14:59	0°♄54'57	0°-44'-46	morning rise	-2320 Sep 10 j 02:33	13°♄27'55	
min. Earth dist.	-2326 Dec 10 j 04:41	0°♄57'04	8.12335 AU		-2320 Sep 23 j 13:15	15°♄	
	-2326 Dec 21 j 21:57	30°♄♄		retrograde	-2320 Dec 17 j 21:57	20°♄29'15	
direct	-2325 Feb 16 j 08:56	27°♄25'24		opposition	-2319 Feb 24 j 12:51	17°♄11'21	2°33'30
	-2325 Apr 12 j 15:21	0°♄		min. Earth dist.	-2319 Feb 24 j 11:32	17°♄11'36	8.92460 AU
evening set	-2325 Jun 02 j 16:08	5°♄36'29			-2319 Mar 28 j 02:07	15°♄♄	
				direct	-2319 May 06 j 18:44	13°♄47'44	
conjunction	-2325 Jun 20 j 18:39	7°♄54'34	0°-19'-3		-2319 Jun 14 j 21:08	15°♄	
minimum elong	-2325 Jun 20 j 18:40	7°♄54'35	0°19'01	evening set	-2319 Aug 19 j 04:52	21°♄05'54	
max. Earth dist.	-2325 Jun 21 j 07:29	7°♄58'40	10.18283 AU				
morning rise	-2325 Jul 08 j 17:52	10°♄11'32		conjunction	-2319 Sep 05 j 02:32	23°♄04'55	2°11'50
retrograde	-2325 Oct 18 j 18:19	18°♄02'47		minimum elong	-2319 Sep 05 j 02:30	23°♄04'55	2°11'52
opposition	-2325 Dec 24 j 09:09	14°♄37'41	0°-3'-10	max. Earth dist.	-2319 Sep 05 j 02:12	23°♄04'49	10.97779 AU
min. Earth dist.	-2325 Dec 23 j 22:55	14°♄39'46	8.24558 AU	morning rise	-2319 Sep 21 j 19:40	25°♄02'38	
asc. node	-2324 Jan 22 j 11:36	12°♄27'04			-2319 Nov 10 j 09:54	0°♄♄	
direct	-2324 Mar 01 j 19:22	11°♄08'41		retrograde	-2319 Dec 29 j 12:47	1°♄58'23	
evening set	-2324 Jun 16 j 03:22	19°♄11'36			-2318 Feb 18 j 13:54	30°♄♄	
				opposition	-2318 Mar 08 j 14:38	28°♄41'21	2°46'54
conjunction	-2324 Jul 04 j 02:32	21°♄26'39	0°14'18	min. Earth dist.	-2318 Mar 08 j 15:12	28°♄41'15	9.02855 AU
minimum elong	-2324 Jul 04 j 02:31	21°♄26'39	0°14'21	direct	-2318 May 19 j 02:41	25°♄19'01	
behind sun begin	-2324 Jul 03 j 23:20	21°♄25'39			-2318 Aug 08 j 02:28	0°♄♄	
behind sun end	-2324 Jul 04 j 05:41	21°♄27'38		evening set	-2318 Aug 30 j 22:39	2°♄30'08	
max. Earth dist.	-2324 Jul 04 j 14:31	21°♄30'25	10.31344 AU				
morning rise	-2324 Jul 21 j 21:21	23°♄40'20		conjunction	-2318 Sep 16 j 16:16	4°♄26'59	2°20'14
	-2324 Sep 22 j 11:30	0°♄		minimum elong	-2318 Sep 16 j 16:15	4°♄26'59	2°20'15
retrograde	-2324 Oct 30 j 21:51	1°♄19'26		max. Earth dist.	-2318 Sep 16 j 13:57	4°♄26'19	11.07096 AU
	-2324 Dec 09 j 00:17	30°♄♄		morning rise	-2318 Oct 03 j 05:47	6°♄22'43	
opposition	-2323 Jan 05 j 19:33	27°♄56'01	0°37'17	retrograde	-2317 Jan 10 j 00:51	13°♄14'35	
min. Earth dist.	-2323 Jan 05 j 10:08	27°♄57'54	8.38216 AU	opposition	-2317 Mar 20 j 12:59	9°♄58'12	2°53'33
direct	-2323 Mar 15 j 22:15	24°♄27'47		min. Earth dist.	-2317 Mar 20 j 16:15	9°♄57'35	9.11099 AU
	-2323 Jun 10 j 00:23	0°♄		direct	-2317 May 31 j 04:47	6°♄37'03	
evening set	-2323 Jun 30 j 02:58	2°♄21'36		evening set	-2317 Sep 11 j 09:19	13°♄42'16	
conjunction	-2323 Jul 17 j 21:38	4°♄33'16	0°45'56	conjunction	-2317 Sep 27 j 23:36	15°♄37'30	2°23'06
minimum elong	-2323 Jul 17 j 21:35	4°♄33'15	0°46'00	minimum elong	-2317 Sep 27 j 23:36	15°♄37'30	2°23'07
max. Earth dist.	-2323 Jul 18 j 08:09	4°♄36'32	10.45421 AU	max. Earth dist.	-2317 Sep 27 j 18:12	15°♄35'55	11.14126 AU
morning rise	-2323 Aug 04 j 11:15	6°♄43'24		morning rise	-2317 Oct 14 j 10:42	17°♄31'50	
retrograde	-2323 Nov 12 j 16:31	14°♄11'04		retrograde	-2316 Jan 21 j 09:50	24°♄21'28	
opposition	-2322 Jan 18 j 22:17	10°♄49'16	1°14'29	opposition	-2316 Mar 31 j 08:46	21°♄05'26	2°53'35
min. Earth dist.	-2322 Jan 18 j 14:40	10°♄50'46	8.52531 AU	min. Earth dist.	-2316 Mar 31 j 14:31	21°♄04'23	9.16911 AU
direct	-2322 Mar 29 j 15:47	7°♄22'01		direct	-2316 Jun 11 j 01:02	17°♄45'23	
evening set	-2322 Jul 13 j 14:33	15°♄06'23		evening set	-2316 Sep 21 j 14:42	24°♄45'56	
conjunction	-2322 Jul 31 j 03:53	17°♄14'33	1°14'25	conjunction	-2316 Oct 08 j 02:42	26°♄40'07	2°20'34
minimum elong	-2322 Jul 31 j 03:50	17°♄14'32	1°14'28	minimum elong	-2316 Oct 08 j 02:42	26°♄40'07	2°20'35
max. Earth dist.	-2322 Jul 31 j 12:04	17°♄17'03	10.59746 AU	max. Earth dist.	-2316 Oct 07 j 18:41	26°♄37'47	11.18637 AU
morning rise	-2322 Aug 17 j 11:55	19°♄21'07		morning rise	-2316 Oct 24 j 12:22	28°♄33'38	
retrograde	-2322 Nov 25 j 01:54	26°♄38'30			-2316 Nov 06 j 11:12	0°♄	

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Attention, astronomical year style is used: The year -2315 in astronomical counting style is the year 2316 BCE in historical counting style.

retrograde	-2315 Jan 31 j 19:04	5°♁22'43		max. Earth dist.	-2310 Dec 12 j 14:27	3°♁30'51	10.90295 AU
opposition	-2315 Apr 12 j 03:01	2°♁06'44	2°47'15	morning rise	-2310 Dec 29 j 21:45	5°♁34'33	
min. Earth dist.	-2315 Apr 12 j 10:12	2°♁05'26	9.20091 AU	retrograde	-2309 Apr 12 j 11:45	12°♁54'14	
	-2315 May 13 j 11:38	30°♁		opposition	-2309 Jun 22 j 08:37	9°♁32'50	0°19'05
direct	-2315 Jun 22 j 19:20	28°♁47'36		min. Earth dist.	-2309 Jun 22 j 19:22	9°♁30'49	8.84083 AU
	-2315 Aug 01 j 04:14	0°♁		direct	-2309 Aug 30 j 16:59	6°♁14'13	
evening set	-2315 Oct 02 j 16:28	5°♁44'49		evening set	-2309 Dec 08 j 06:25	13°♁22'34	
				max. Earth dist.	-2309 Dec 24 j 11:23	15°♁19'49	10.77595 AU
conjunction	-2315 Oct 19 j 03:14	7°♁38'31	2°12'53	conjunction	-2309 Dec 25 j 00:53	15°♁23'54	0°01'03
minimum elong	-2315 Oct 19 j 03:16	7°♁38'32	2°12'52	minimum elong	-2309 Dec 25 j 00:52	15°♁23'54	0°00'59
max. Earth dist.	-2315 Oct 18 j 18:17	7°♁35'55	11.20474 AU	behind sun begin	-2309 Dec 24 j 17:51	15°♁21'48	
morning rise	-2315 Nov 04 j 12:17	9°♁31'48		behind sun end	-2309 Dec 25 j 07:54	15°♁26'01	
retrograde	-2314 Feb 12 j 07:48	16°♁21'58		desc. node	-2308 Jan 06 j 21:15	16°♁57'12	
opposition	-2314 Apr 23 j 21:26	13°♁05'46	2°34'51	morning rise	-2308 Jan 10 j 22:57	17°♁26'24	
min. Earth dist.	-2314 Apr 24 j 05:36	13°♁04'17	9.20534 AU	retrograde	-2308 Apr 24 j 10:15	24°♁56'31	
direct	-2314 Jul 04 j 10:00	9°♁47'24		opposition	-2308 Jul 04 j 02:21	21°♁33'29	0°-17'-30
evening set	-2314 Oct 13 j 16:21	16°♁42'35		min. Earth dist.	-2308 Jul 04 j 13:03	21°♁31'27	8.70601 AU
				direct	-2308 Sep 10 j 19:55	18°♁14'00	
conjunction	-2314 Oct 30 j 02:42	18°♁36'21	2°00'18	evening set	-2308 Dec 19 j 10:49	25°♁29'59	
minimum elong	-2314 Oct 30 j 02:45	18°♁36'22	2°00'17	conjunction	-2307 Jan 05 j 08:14	27°♁34'00	0°-28'-59
max. Earth dist.	-2314 Oct 29 j 16:26	18°♁33'22	11.19574 AU	minimum elong	-2307 Jan 05 j 08:13	27°♁34'00	0°29'04
morning rise	-2314 Nov 15 j 12:08	20°♁29'58		max. Earth dist.	-2307 Jan 04 j 19:48	27°♁30'11	10.63530 AU
retrograde	-2313 Feb 23 j 20:53	27°♁22'52		morning rise	-2307 Jan 22 j 10:00	29°♁39'23	
opposition	-2313 May 05 j 17:03	24°♁06'09	2°16'46		-2307 Jan 25 j 06:37	0°♁	
min. Earth dist.	-2313 May 06 j 02:48	24°♁04'22	9.18234 AU	retrograde	-2307 May 07 j 18:53	7°♁21'05	
direct	-2313 Jul 15 j 21:26	20°♁48'16		opposition	-2307 Jul 17 j 03:23	3°♁56'19	0°-54'-31
evening set	-2313 Oct 24 j 16:28	27°♁42'56		min. Earth dist.	-2307 Jul 17 j 12:50	3°♁54'30	8.56108 AU
				direct	-2307 Sep 23 j 07:29	0°♁35'45	
conjunction	-2313 Nov 10 j 03:06	29°♁37'18	1°43'14	evening set	-2306 Jan 01 j 02:14	8°♁00'45	
minimum elong	-2313 Nov 10 j 03:09	29°♁37'18	1°43'13	conjunction	-2306 Jan 18 j 03:02	10°♁07'42	0°-58'-28
max. Earth dist.	-2313 Nov 09 j 14:50	29°♁33'43	11.15973 AU	minimum elong	-2306 Jan 18 j 03:00	10°♁07'41	0°58'33
	-2313 Nov 13 j 08:55	0°♁		max. Earth dist.	-2306 Jan 17 j 17:06	10°♁04'36	10.48782 AU
morning rise	-2313 Nov 26 j 13:58	1°♁31'46		morning rise	-2306 Feb 04 j 08:30	12°♁16'10	
retrograde	-2312 Mar 06 j 14:51	8°♁28'58		retrograde	-2306 May 21 j 14:26	20°♁09'59	
opposition	-2312 May 16 j 14:44	5°♁11'28	1°53'30	opposition	-2306 Jul 30 j 12:11	16°♁43'28	-1°-30'-11
min. Earth dist.	-2312 May 17 j 02:04	5°♁09'24	9.13265 AU	min. Earth dist.	-2306 Jul 30 j 19:14	16°♁42'05	8.41334 AU
direct	-2312 Jul 26 j 11:31	1°♁53'48		direct	-2306 Oct 06 j 01:39	13°♁21'38	
evening set	-2312 Nov 03 j 18:24	8°♁49'29		evening set	-2305 Jan 14 j 05:59	20°♁56'46	
				conjunction	-2305 Jan 31 j 10:20	23°♁06'45	-1°-25'-53
conjunction	-2312 Nov 20 j 06:10	10°♁44'56	1°22'08	minimum elong	-2305 Jan 31 j 10:17	23°♁06'44	1°25'57
minimum elong	-2312 Nov 20 j 06:12	10°♁44'57	1°22'06	max. Earth dist.	-2305 Jan 31 j 03:25	23°♁04'33	10.34102 AU
max. Earth dist.	-2312 Nov 19 j 17:05	10°♁41'05	11.09772 AU	morning rise	-2305 Feb 17 j 19:33	25°♁18'22	
morning rise	-2312 Dec 06 j 19:05	12°♁40'47			-2305 Mar 31 j 11:13	0°♁	
	-2312 Dec 27 j 19:50	15°♁		retrograde	-2305 Jun 04 j 19:22	3°♁24'12	
retrograde	-2311 Mar 18 j 13:34	19°♁43'55			-2305 Aug 12 j 08:45	30°♁	
opposition	-2311 May 28 j 15:51	16°♁25'20	1°25'37	opposition	-2305 Aug 13 j 04:47	29°♁56'01	-2°-2'-23
min. Earth dist.	-2311 May 29 j 03:21	16°♁23'13	9.05763 AU	min. Earth dist.	-2305 Aug 13 j 08:50	29°♁55'13	8.27041 AU
	-2311 Jun 17 j 15:31	15°♁		direct	-2305 Oct 19 j 04:56	26°♁32'46	
direct	-2311 Aug 07 j 02:09	13°♁07'38			-2305 Dec 21 j 13:48	0°♁	
	-2311 Sep 24 j 12:39	15°♁		evening set	-2304 Jan 27 j 22:46	4°♁18'41	
evening set	-2311 Nov 14 j 23:58	20°♁05'53		conjunction	-2304 Feb 14 j 06:43	6°♁31'43	-1°-49'-30
				minimum elong	-2304 Feb 14 j 06:39	6°♁31'42	1°49'33
conjunction	-2311 Dec 01 j 13:35	22°♁02'53	0°57'34	max. Earth dist.	-2304 Feb 14 j 02:34	6°♁30'23	10.20278 AU
minimum elong	-2311 Dec 01 j 13:37	22°♁02'53	0°57'31	morning rise	-2304 Mar 02 j 19:39	8°♁46'24	
max. Earth dist.	-2311 Dec 01 j 00:55	21°♁59'07	11.01131 AU		-2304 Apr 29 j 20:51	15°♁	
morning rise	-2311 Dec 18 j 05:00	24°♁00'31		retrograde	-2304 Jun 18 j 08:49	17°♁03'17	
	-2310 Feb 20 j 04:35	0°♁			-2304 Aug 07 j 19:37	15°♁	
retrograde	-2310 Mar 30 j 20:46	1°♁11'12		opposition	-2304 Aug 26 j 04:44	13°♁33'41	-2°-28'-53
	-2310 May 09 j 09:24	30°♁		min. Earth dist.	-2304 Aug 26 j 06:04	13°♁33'25	8.14019 AU
opposition	-2310 Jun 09 j 21:30	27°♁51'17	0°53'51	direct	-2304 Oct 31 j 17:23	10°♁08'57	
min. Earth dist.	-2310 Jun 10 j 08:29	27°♁49'15	8.95941 AU		-2303 Jan 15 j 16:45	15°♁	
direct	-2310 Aug 18 j 20:39	24°♁33'16		evening set	-2303 Feb 10 j 04:20	18°♁05'39	
	-2310 Nov 12 j 12:23	0°♁					
evening set	-2310 Nov 26 j 11:24	1°♁35'42					
conjunction	-2310 Dec 13 j 03:16	3°♁34'41	0°30'14				
minimum elong	-2310 Dec 13 j 03:17	3°♁34'41	0°30'11				

Planetary Phenomena of Saturn from -2400 through -1900 (UT), Astrodienst AG 14-Nov-2015 16:07, page 9

Attention, astronomical year style is used: The year -2303 in astronomical counting style is the year 2304 BCE in historical counting style.

conjunction	-2303 Feb 27 j 16:03	20° \approx 21'36	-2°-7'-32	minimum elong	-2297 May 30 j 03:54	17° U 28'07	1°07'11
minimum elong	-2303 Feb 27 j 16:01	20° \approx 21'35	2°07'35	max. Earth dist.	-2297 May 30 j 19:26	17° U 33'11	10.00851 AU
max. Earth dist.	-2303 Feb 27 j 14:59	20° \approx 21'15	10.08121 AU	morning rise	-2297 Jun 17 j 07:10	19° U 49'07	
morning rise	-2303 Mar 17 j 08:44	22° \approx 39'08		retrograde	-2297 Sep 29 j 00:34	27° U 58'43	
	-2303 May 28 j 23:49	0° X		opposition	-2297 Dec 04 j 09:35	24° U 30'40	-1°-4'-21
retrograde	-2303 Jul 03 j 05:26	1° X 05'12		min. Earth dist.	-2297 Dec 03 j 21:49	24° U 33'06	8.05736 AU
	-2303 Aug 07 j 15:30	30° R \approx		direct	-2296 Feb 09 j 19:19	21° U 00'29	
opposition	-2303 Sep 09 j 11:20	27° \approx 34'29	-2°-47'-25	evening set	-2296 May 26 j 00:46	29° U 15'23	
min. Earth dist.	-2303 Sep 09 j 10:11	27° \approx 34'43	8.03046 AU		-2296 May 31 j 21:14	0° II	
direct	-2303 Nov 14 j 14:47	24° \approx 08'16		conjunction	-2296 Jun 13 j 04:38	1° II 34'56	0°-35'00
	-2302 Feb 06 j 21:43	0° X		minimum elong	-2296 Jun 13 j 04:40	1° II 34'56	0°34'58
evening set	-2302 Feb 24 j 21:36	2° X 14'57		max. Earth dist.	-2296 Jun 13 j 20:05	1° II 39'54	10.11296 AU
				morning rise	-2296 Jul 01 j 05:30	3° II 53'29	
conjunction	-2302 Mar 14 j 13:19	4° X 33'31	-2°-18'-21	retrograde	-2296 Oct 11 j 19:50	11° II 51'08	
minimum elong	-2302 Mar 14 j 13:18	4° X 33'31	2°18'22	opposition	-2296 Dec 17 j 07:36	8° II 24'49	0°-23'-2
max. Earth dist.	-2302 Mar 14 j 15:41	4° X 34'18	9.98380 AU	min. Earth dist.	-2296 Dec 16 j 20:37	8° II 27'04	8.17312 AU
morning rise	-2302 Apr 01 j 09:36	6° X 53'33		direct	-2295 Feb 23 j 08:54	4° II 55'11	
retrograde	-2302 Jul 18 j 06:29	15° X 25'56		evening set	-2295 Jun 09 j 17:32	13° II 02'36	
opposition	-2302 Sep 23 j 22:56	11° X 54'30	-2°-56'-3				
min. Earth dist.	-2302 Sep 23 j 19:25	11° X 55'14	7.94805 AU	conjunction	-2295 Jun 27 j 18:33	15° II 19'19	0°-1'-33
direct	-2302 Nov 28 j 21:51	8° X 26'55		minimum elong	-2295 Jun 27 j 18:33	15° II 19'20	0°01'30
evening set	-2301 Mar 12 j 00:49	16° X 41'57		behind sun begin	-2295 Jun 27 j 11:14	15° II 17'02	
				behind sun end	-2295 Jun 28 j 01:52	15° II 21'38	
conjunction	-2301 Mar 29 j 20:34	19° X 02'42	-2°-20'-43	max. Earth dist.	-2295 Jun 28 j 08:22	15° II 23'42	10.23920 AU
minimum elong	-2301 Mar 29 j 20:35	19° X 02'42	2°20'44	asc. node	-2295 Jul 14 j 22:40	17° II 29'29	
max. Earth dist.	-2301 Mar 30 j 02:27	19° X 04'39	9.91686 AU	morning rise	-2295 Jul 15 j 15:41	17° II 34'47	
morning rise	-2301 Apr 16 j 20:04	21° X 24'38		retrograde	-2295 Oct 25 j 03:55	25° II 20'07	
retrograde	-2301 Aug 02 j 08:22	29° X 59'41		opposition	-2295 Dec 30 j 21:56	21° II 55'42	0°18'19
opposition	-2301 Oct 08 j 13:28	26° X 28'01	-2°-53'-33	min. Earth dist.	-2295 Dec 30 j 12:05	21° II 57'41	8.30721 AU
min. Earth dist.	-2301 Oct 08 j 07:37	26° X 29'15	7.89835 AU	direct	-2294 Mar 09 j 16:06	18° II 26'54	
direct	-2301 Dec 13 j 12:21	22° X 59'17		evening set	-2294 Jun 23 j 23:18	26° II 25'39	
	-2300 Mar 16 j 00:15	0° Y					
evening set	-2300 Mar 26 j 10:54	1° Y 20'14		conjunction	-2294 Jul 11 j 20:10	28° II 39'04	0°31'12
				minimum elong	-2294 Jul 11 j 20:09	28° II 39'04	0°31'15
conjunction	-2300 Apr 13 j 10:25	3° Y 42'31	-2°-14'-7	max. Earth dist.	-2294 Jul 12 j 07:42	28° II 42'41	10.37958 AU
minimum elong	-2300 Apr 13 j 10:28	3° Y 42'32	2°14'06		-2294 Jul 22 j 15:12	0° U	
max. Earth dist.	-2300 Apr 13 j 19:53	3° Y 45'40	9.88499 AU	morning rise	-2294 Jul 29 j 12:32	0° U 51'03	
morning rise	-2300 May 01 j 12:32	6° Y 05'37		retrograde	-2294 Nov 07 j 02:44	8° U 24'31	
retrograde	-2300 Aug 16 j 08:42	14° Y 39'24		opposition	-2293 Jan 13 j 04:41	5° U 01'57	0°57'21
opposition	-2300 Oct 22 j 04:54	11° Y 07'58	-2°-39'-44	min. Earth dist.	-2293 Jan 12 j 19:54	5° U 03'42	8.45181 AU
min. Earth dist.	-2300 Oct 21 j 20:33	11° Y 09'43	7.88479 AU	direct	-2293 Mar 23 j 14:40	1° U 34'17	
direct	-2300 Dec 27 j 07:44	7° Y 38'22		evening set	-2293 Jul 07 j 17:01	9° U 23'38	
evening set	-2299 Apr 11 j 00:13	16° Y 02'13					
				conjunction	-2293 Jul 25 j 08:53	11° U 33'34	1°01'23
conjunction	-2299 Apr 29 j 02:53	18° Y 25'14	-1°-58'-47	minimum elong	-2293 Jul 25 j 08:50	11° U 33'33	1°01'26
minimum elong	-2299 Apr 29 j 02:56	18° Y 25'15	1°58'46	max. Earth dist.	-2293 Jul 25 j 18:20	11° U 36'29	10.52630 AU
max. Earth dist.	-2299 Apr 29 j 15:28	18° Y 29'24	9.89041 AU	morning rise	-2293 Aug 11 j 19:48	13° U 41'55	
morning rise	-2299 May 17 j 06:44	20° Y 48'37		retrograde	-2293 Nov 19 j 16:53	21° U 04'30	
retrograde	-2299 Aug 31 j 04:42	29° Y 17'18		opposition	-2292 Jan 26 j 03:53	17° U 43'41	1°32'13
opposition	-2299 Nov 05 j 18:46	25° Y 46'34	-2°-15'-30	min. Earth dist.	-2292 Jan 25 j 20:13	17° U 45'11	8.59921 AU
min. Earth dist.	-2299 Nov 05 j 08:23	25° Y 48'44	7.90827 AU	direct	-2292 Apr 05 j 04:19	14° U 17'18	
direct	-2298 Jan 11 j 05:00	22° Y 16'24		evening set	-2292 Jul 19 j 22:47	21° U 57'09	
	-2298 Apr 21 j 08:19	0° Z					
evening set	-2298 Apr 26 j 13:26	0° Z 40'04		conjunction	-2292 Aug 06 j 09:17	24° U 03'35	1°27'46
				minimum elong	-2292 Aug 06 j 09:14	24° U 03'34	1°27'49
conjunction	-2298 May 14 j 18:05	3° Z 02'53	-1°-35'-53	max. Earth dist.	-2292 Aug 06 j 16:50	24° U 05'53	10.67190 AU
minimum elong	-2298 May 14 j 18:09	3° Z 02'54	1°35'51	morning rise	-2292 Aug 23 j 14:32	26° U 08'27	
max. Earth dist.	-2298 May 15 j 08:43	3° Z 07'42	9.93260 AU		-2292 Sep 27 j 20:44	0° Z	
morning rise	-2298 Jun 01 j 22:25	5° Z 25'33		retrograde	-2292 Nov 30 j 22:35	3° Z 21'25	
retrograde	-2298 Sep 14 j 18:27	13° Z 45'51		opposition	-2291 Feb 06 j 19:55	0° Z 02'09	2°01'38
opposition	-2298 Nov 20 j 04:50	10° Z 16'17	-1°-42'-49	min. Earth dist.	-2291 Feb 06 j 14:24	0° Z 03'13	8.74214 AU
min. Earth dist.	-2298 Nov 19 j 17:17	10° Z 18'41	7.96713 AU		-2291 Feb 07 j 07:06	30° R U	
direct	-2297 Jan 26 j 01:11	6° Z 45'55		direct	-2291 Apr 18 j 09:17	26° U 37'06	
evening set	-2297 May 11 j 22:44	15° Z 06'28			-2291 Jun 24 j 05:33	0° Z	
	-2297 May 11 j 02:29	15° Z		evening set	-2291 Aug 01 j 17:07	4° Z 07'48	
conjunction	-2297 May 30 j 03:51	17° Z 28'06	-1°-7'-13				

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Attention, astronomical year style is used: The year -2291 in astronomical counting style is the year 2292 BCE in historical counting style.

conjunction	-2291 Aug 18 j 22:11	6°♄10'56	1°49'28	conjunction	-2285 Oct 25 j 12:37	13°♄51'51	2°06'34
minimum elong	-2291 Aug 18 j 22:08	6°♄10'56	1°49'30	minimum elong	-2285 Oct 25 j 12:39	13°♄51'52	2°06'33
max. Earth dist.	-2291 Aug 19 j 03:11	6°♄12'27	10.80947 AU	max. Earth dist.	-2285 Oct 25 j 00:49	13°♄48'26	11.19733 AU
morning rise	-2291 Sep 04 j 22:01	8°♄12'35		morning rise	-2285 Nov 10 j 21:59	15°♄45'21	
	-2291 Nov 24 j 15:10	15°♄		retrograde	-2284 Feb 18 j 22:56	22°♄37'06	
retrograde	-2291 Dec 12 j 22:27	15°♄17'26		opposition	-2284 Apr 29 j 17:15	19°♄20'33	2°25'40
	-2291 Dec 31 j 07:22	15°♄♄		min. Earth dist.	-2284 Apr 30 j 03:49	19°♄18'37	9.18820 AU
opposition	-2290 Feb 19 j 05:52	11°♄59'30	2°24'49	direct	-2284 Jul 10 j 01:59	16°♄02'14	
min. Earth dist.	-2290 Feb 19 j 03:19	11°♄59'59	8.87398 AU	evening set	-2284 Oct 19 j 02:14	22°♄57'22	
direct	-2290 May 01 j 05:18	8°♄35'46					
	-2290 Aug 05 j 14:40	15°♄		conjunction	-2284 Nov 04 j 12:48	24°♄51'31	1°51'31
evening set	-2290 Aug 14 j 00:46	15°♄57'55		minimum elong	-2284 Nov 04 j 12:51	24°♄51'31	1°51'29
				max. Earth dist.	-2284 Nov 04 j 00:29	24°♄47'55	11.16931 AU
conjunction	-2290 Aug 31 j 00:35	17°♄58'09	2°05'56	morning rise	-2284 Nov 20 j 22:57	26°♄45'37	
minimum elong	-2290 Aug 31 j 00:32	17°♄58'08	2°05'58		-2284 Dec 21 j 09:44	0°♄	
max. Earth dist.	-2290 Aug 31 j 01:53	17°♄58'32	10.93286 AU	retrograde	-2283 Mar 01 j 16:13	3°♄41'00	
morning rise	-2290 Sep 16 j 19:42	19°♄57'00		opposition	-2283 May 11 j 13:56	0°♄23'34	2°04'44
retrograde	-2290 Dec 24 j 14:13	26°♄55'22		min. Earth dist.	-2283 May 12 j 00:55	0°♄21'33	9.14628 AU
opposition	-2289 Mar 03 j 10:27	23°♄38'27	2°41'21		-2283 May 16 j 23:03	30°♄	
min. Earth dist.	-2289 Mar 03 j 10:49	23°♄38'23	8.98884 AU	direct	-2283 Jul 21 j 16:19	27°♄05'26	
direct	-2289 May 13 j 17:47	20°♄16'00			-2283 Sep 21 j 09:14	0°♄	
evening set	-2289 Aug 25 j 23:00	27°♄30'32		evening set	-2283 Oct 30 j 03:16	4°♄00'52	
conjunction	-2289 Sep 11 j 18:17	29°♄28'19	2°16'55	conjunction	-2283 Nov 15 j 14:38	5°♄55'54	1°32'12
minimum elong	-2289 Sep 11 j 18:15	29°♄28'19	2°16'56	minimum elong	-2283 Nov 15 j 14:40	5°♄55'55	1°32'10
max. Earth dist.	-2289 Sep 11 j 15:52	29°♄27'37	11.03675 AU	max. Earth dist.	-2283 Nov 15 j 01:41	5°♄52'06	11.11485 AU
	-2289 Sep 16 j 06:00	0°♄		morning rise	-2283 Dec 02 j 02:26	7°♄51'11	
morning rise	-2289 Sep 28 j 09:32	1°♄24'56		retrograde	-2282 Mar 13 j 12:45	14°♄51'47	
retrograde	-2288 Jan 05 j 03:13	8°♄18'34		opposition	-2282 May 23 j 13:41	11°♄33'14	1°38'53
opposition	-2288 Mar 14 j 10:37	5°♄02'22	2°51'08	min. Earth dist.	-2282 May 24 j 01:21	11°♄31'06	9.07873 AU
min. Earth dist.	-2288 Mar 14 j 13:06	5°♄01'55	9.08176 AU	direct	-2282 Aug 02 j 05:08	8°♄15'03	
direct	-2288 May 25 j 00:56	1°♄41'06			-2282 Nov 08 j 12:07	15°♄	
evening set	-2288 Sep 05 j 13:15	8°♄49'11		evening set	-2282 Nov 10 j 07:04	15°♄12'23	
conjunction	-2288 Sep 22 j 05:02	10°♄45'06	2°22'20	conjunction	-2282 Nov 26 j 19:47	17°♄08'46	1°09'08
minimum elong	-2288 Sep 22 j 05:01	10°♄45'06	2°22'21	minimum elong	-2282 Nov 26 j 19:50	17°♄08'47	1°09'06
max. Earth dist.	-2288 Sep 22 j 00:19	10°♄43'44	11.11694 AU	max. Earth dist.	-2282 Nov 26 j 05:35	17°♄04'34	11.03590 AU
morning rise	-2288 Oct 08 j 17:14	12°♄40'02		morning rise	-2282 Dec 13 j 10:07	19°♄05'42	
retrograde	-2287 Jan 15 j 15:26	19°♄30'43		retrograde	-2281 Mar 25 j 15:26	26°♄13'12	
opposition	-2287 Mar 26 j 07:47	16°♄14'56	2°54'13	opposition	-2281 Jun 04 j 17:23	22°♄53'20	1°08'46
min. Earth dist.	-2287 Mar 26 j 12:21	16°♄14'05	9.14929 AU	min. Earth dist.	-2281 Jun 05 j 05:45	22°♄51'02	8.98789 AU
direct	-2287 Jun 06 j 00:28	12°♄54'44		direct	-2281 Aug 13 j 21:45	19°♄34'50	
evening set	-2287 Sep 16 j 21:27	19°♄57'35		evening set	-2281 Nov 21 j 15:44	26°♄35'42	
conjunction	-2287 Oct 03 j 10:34	21°♄52'14	2°22'17	conjunction	-2281 Dec 08 j 06:31	28°♄33'55	0°42'58
minimum elong	-2287 Oct 03 j 10:34	21°♄52'14	2°22'17	minimum elong	-2281 Dec 08 j 06:32	28°♄33'56	0°42'55
max. Earth dist.	-2287 Oct 03 j 03:40	21°♄50'13	11.17097 AU	max. Earth dist.	-2281 Dec 07 j 16:23	28°♄29'42	10.93500 AU
morning rise	-2287 Oct 19 j 20:39	23°♄46'06			-2281 Dec 20 j 07:45	0°♄	
	-2287 Dec 31 j 03:51	0°♄		morning rise	-2281 Dec 24 j 23:47	0°♄32'56	
retrograde	-2286 Jan 27 j 01:06	0°♄35'29		retrograde	-2280 Apr 06 j 01:26	7°♄48'50	
	-2286 Feb 23 j 08:25	30°♄		opposition	-2280 Jun 16 j 01:53	4°♄27'30	0°35'13
opposition	-2286 Apr 07 j 03:14	27°♄19'48	2°50'48	min. Earth dist.	-2280 Jun 16 j 13:48	4°♄25'16	8.87680 AU
min. Earth dist.	-2286 Apr 07 j 10:22	27°♄18'29	9.18987 AU	direct	-2280 Aug 24 j 17:33	1°♄08'29	
direct	-2286 Jun 17 j 19:05	24°♄00'28		evening set	-2280 Dec 02 j 07:04	8°♄14'36	
	-2286 Sep 19 j 05:00	0°♄		max. Earth dist.	-2280 Dec 18 j 11:45	10°♄11'11	10.81556 AU
evening set	-2286 Sep 28 j 01:17	0°♄59'23					
conjunction	-2286 Oct 14 j 12:32	2°♄53'18	2°16'56	conjunction	-2280 Dec 19 j 00:27	10°♄15'01	0°14'30
minimum elong	-2286 Oct 14 j 12:33	2°♄53'19	2°16'56	minimum elong	-2280 Dec 19 j 00:27	10°♄15'01	0°14'26
max. Earth dist.	-2286 Oct 14 j 02:44	2°♄50'28	11.19790 AU	behind sun begin	-2280 Dec 18 j 21:08	10°♄14'02	
morning rise	-2286 Oct 30 j 21:45	4°♄46'42		behind sun end	-2280 Dec 19 j 03:46	10°♄16'00	
retrograde	-2285 Feb 07 j 11:28	11°♄36'27		morning rise	-2279 Jan 04 j 20:53	12°♄16'28	
opposition	-2285 Apr 18 j 22:05	8°♄20'30	2°41'10	retrograde	-2279 Apr 18 j 20:36	19°♄42'16	
min. Earth dist.	-2285 Apr 19 j 07:37	8°♄18'45	9.20292 AU	desc. node	-2279 Jun 21 j 00:35	16°♄53'58	
direct	-2285 Jun 29 j 11:28	5°♄01'48		opposition	-2279 Jun 28 j 16:38	16°♄19'19	0°00'44
evening set	-2285 Oct 09 j 02:13	11°♄58'06		min. Earth dist.	-2279 Jun 29 j 02:53	16°♄17'22	8.74944 AU
				direct	-2279 Sep 05 j 18:48	12°♄59'38	
				evening set	-2279 Dec 14 j 06:56	20°♄12'32	

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Attention, astronomical year style is used: The year -2279 in astronomical counting style is the year 2280 BCE in historical counting style.

conjunction	-2279 Dec 31 j 03:10	22°♄15'30	0°-15'-22	conjunction	-2272 Mar 22 j 08:01	12°♃45'46	-2°-20'-37
minimum elong	-2279 Dec 31 j 03:09	22°♄15'30	0°15'26	minimum elong	-2272 Mar 22 j 08:01	12°♃45'46	2°20'39
behind sun begin	-2279 Dec 31 j 00:57	22°♄14'50		max. Earth dist.	-2272 Mar 22 j 14:51	12°♃48'01	9.94996 AU
behind sun end	-2279 Dec 31 j 05:21	22°♄16'10		morning rise	-2272 Apr 09 j 05:51	15°♃06'51	
max. Earth dist.	-2279 Dec 30 j 15:43	22°♄12'00	10.68205 AU	retrograde	-2272 Jul 26 j 00:17	23°♃41'13	
morning rise	-2278 Jan 17 j 03:08	24°♄19'43		opposition	-2272 Oct 01 j 09:42	20°♃10'03	-2°-55'-52
	-2278 Mar 13 j 17:44	0°♄		min. Earth dist.	-2272 Oct 01 j 03:01	20°♃11'27	7.92568 AU
retrograde	-2278 May 02 j 02:36	1°♄56'36		direct	-2272 Dec 06 j 07:03	16°♃42'24	
	-2278 Jun 21 j 19:30	30°♄		evening set	-2271 Mar 19 j 21:42	25°♃00'48	
opposition	-2278 Jul 11 j 14:28	28°♄32'00	0°-37'-48	conjunction	-2271 Apr 06 j 19:29	27°♃22'22	-2°-18'-3
min. Earth dist.	-2278 Jul 11 j 23:00	28°♄30'22	8.61087 AU	minimum elong	-2271 Apr 06 j 19:31	27°♃22'23	2°18'03
direct	-2278 Sep 18 j 01:27	25°♄11'26		max. Earth dist.	-2271 Apr 07 j 05:21	27°♃25'38	9.90605 AU
	-2278 Dec 04 j 20:45	0°♄		morning rise	-2271 Apr 24 j 20:18	29°♃44'55	
evening set	-2278 Dec 26 j 17:21	2°♄32'40			-2271 Apr 26 j 18:53	0°♃	
conjunction	-2277 Jan 12 j 16:36	4°♄38'25	0°-45'-16	retrograde	-2271 Aug 10 j 02:13	8°♃19'34	
minimum elong	-2277 Jan 12 j 16:34	4°♄38'25	0°45'20	opposition	-2271 Oct 16 j 01:12	4°♃48'30	-2°-47'-3
max. Earth dist.	-2277 Jan 12 j 06:15	4°♄35'12	10.54004 AU	min. Earth dist.	-2271 Oct 15 j 16:44	4°♃50'16	7.89936 AU
morning rise	-2277 Jan 29 j 20:24	6°♄45'38		direct	-2271 Dec 21 j 00:11	1°♃19'53	
retrograde	-2277 May 15 j 18:01	14°♄34'20		evening set	-2270 Apr 04 j 10:13	9°♃42'22	
opposition	-2277 Jul 24 j 19:46	11°♄08'09	-1°-14'-20	conjunction	-2270 Apr 22 j 11:23	12°♃04'58	-2°-6'-32
min. Earth dist.	-2277 Jul 25 j 02:50	11°♄06'46	8.46719 AU	minimum elong	-2270 Apr 22 j 11:26	12°♃05'00	2°06'31
direct	-2277 Sep 30 j 14:29	7°♄46'30		max. Earth dist.	-2270 Apr 22 j 23:13	12°♃08'54	9.89772 AU
evening set	-2276 Jan 08 j 15:30	15°♄17'24		morning rise	-2270 May 10 j 14:28	14°♃28'10	
conjunction	-2276 Jan 25 j 18:05	17°♄26'06	-1°-13'-50	retrograde	-2270 Aug 25 j 00:46	22°♃59'07	
minimum elong	-2276 Jan 25 j 18:02	17°♄26'05	1°13'53	opposition	-2270 Oct 30 j 16:04	19°♃28'37	-2°-27'-19
max. Earth dist.	-2276 Jan 25 j 09:39	17°♄23'26	10.39602 AU	min. Earth dist.	-2270 Oct 30 j 06:44	19°♃30'34	7.90829 AU
morning rise	-2276 Feb 12 j 01:44	19°♄36'25		direct	-2269 Jan 04 j 21:01	15°♃59'15	
retrograde	-2276 May 28 j 17:29	27°♄37'13		evening set	-2269 Apr 19 j 23:57	24°♃22'49	
opposition	-2276 Aug 06 j 09:05	24°♄09'31	-1°-48'-23	conjunction	-2269 May 08 j 03:34	26°♃45'38	-1°-46'-51
min. Earth dist.	-2276 Aug 06 j 14:17	24°♄08'29	8.32530 AU	minimum elong	-2269 May 08 j 03:38	26°♃45'39	1°46'49
direct	-2276 Oct 12 j 14:51	20°♄46'41		max. Earth dist.	-2269 May 08 j 16:25	26°♃49'52	9.92427 AU
evening set	-2275 Jan 21 j 02:16	28°♄28'05		morning rise	-2269 May 26 j 07:48	29°♃08'33	
	-2275 Feb 02 j 04:09	0°♄			-2269 Jun 02 j 00:34	0°♄	
conjunction	-2275 Feb 07 j 08:26	0°♄39'49	-1°-39'-23	retrograde	-2269 Sep 08 j 17:23	7°♄32'29	
minimum elong	-2275 Feb 07 j 08:23	0°♄39'48	1°39'26	opposition	-2269 Nov 14 j 04:02	4°♄02'58	-1°-58'-9
max. Earth dist.	-2275 Feb 07 j 03:25	0°♄38'12	10.25727 AU	min. Earth dist.	-2269 Nov 13 j 18:08	4°♄05'02	7.95077 AU
morning rise	-2275 Feb 24 j 19:48	2°♄53'13		direct	-2268 Jan 19 j 18:33	0°♄33'13	
retrograde	-2275 Jun 12 j 02:56	11°♄05'37		evening set	-2268 May 04 j 11:17	8°♄55'04	
opposition	-2275 Aug 20 j 06:09	7°♄36'34	-2°-17'-44	conjunction	-2268 May 22 j 16:08	11°♄17'11	-1°-20'-31
min. Earth dist.	-2275 Aug 20 j 08:38	7°♄36'04	8.19279 AU	minimum elong	-2268 May 22 j 16:11	11°♄17'12	1°20'29
direct	-2275 Oct 26 j 00:03	4°♄12'30		max. Earth dist.	-2268 May 23 j 05:29	11°♄21'33	9.98332 AU
evening set	-2274 Feb 04 j 02:11	12°♄04'40		morning rise	-2268 Jun 09 j 20:09	13°♄38'56	
conjunction	-2274 Feb 21 j 12:13	14°♄19'22	-2°00'-8		-2268 Jun 20 j 13:14	15°♄	
minimum elong	-2274 Feb 21 j 12:10	14°♄19'21	2°00'11	retrograde	-2268 Sep 22 j 02:36	21°♄53'20	
max. Earth dist.	-2274 Feb 21 j 11:19	14°♄19'04	10.13166 AU	opposition	-2268 Nov 27 j 11:24	18°♄25'08	-1°-21'-56
	-2274 Feb 26 j 17:26	15°♄		min. Earth dist.	-2268 Nov 27 j 01:00	18°♄27'17	8.02428 AU
morning rise	-2274 Mar 11 j 03:13	16°♄35'43			-2267 Jan 24 j 11:14	15°♄	
retrograde	-2274 Jun 26 j 20:59	24°♄58'13		direct	-2267 Feb 02 j 15:06	14°♄55'19	
opposition	-2274 Sep 03 j 10:07	21°♄28'06	-2°-40'-5		-2267 Feb 11 j 18:55	15°♄	
min. Earth dist.	-2274 Sep 03 j 09:17	21°♄28'16	8.07741 AU	evening set	-2267 May 19 j 17:03	23°♄12'52	
direct	-2274 Nov 08 j 17:27	18°♄02'46		conjunction	-2267 Jun 06 j 21:36	25°♄33'22	0°-49'-36
evening set	-2273 Feb 18 j 14:43	26°♄05'17		minimum elong	-2267 Jun 06 j 21:38	25°♄33'23	0°49'34
conjunction	-2273 Mar 08 j 04:44	28°♄22'44	-2°-14'-22	max. Earth dist.	-2267 Jun 07 j 11:06	25°♄37'45	10.07170 AU
minimum elong	-2273 Mar 08 j 04:42	28°♄22'43	2°14'24	morning rise	-2267 Jun 24 j 23:54	27°♄53'05	
max. Earth dist.	-2273 Mar 08 j 07:48	28°♄23'44	10.02693 AU		-2267 Jul 12 j 04:04	0°♄	
	-2273 Mar 20 j 14:11	0°♄		retrograde	-2267 Oct 06 j 02:07	5°♄56'14	
morning rise	-2273 Mar 25 j 23:16	0°♄41'42		opposition	-2267 Dec 11 j 12:43	2°♄29'33	0°-41'-32
retrograde	-2273 Jul 11 j 21:33	9°♄11'49		min. Earth dist.	-2267 Dec 11 j 01:57	2°♄31'46	8.12492 AU
opposition	-2273 Sep 17 j 19:56	5°♄40'58	-2°-53'-19		-2266 Jan 14 j 12:28	30°♄	
min. Earth dist.	-2273 Sep 17 j 15:56	5°♄41'48	7.98636 AU	direct	-2266 Feb 17 j 07:39	29°♄00'01	
direct	-2273 Nov 22 j 19:53	2°♄14'26			-2266 Mar 22 j 23:23	0°♄	
evening set	-2272 Mar 04 j 14:04	10°♄25'58		evening set	-2266 Jun 03 j 14:43	7°♄11'05	

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Attention, astronomical year style is used: The year -2266 in astronomical counting style is the year 2267 BCE in historical counting style.

conjunction	-2266 Jun 21 j 17:16	9°II29'08	0°-16'-24	minimum elong	-2260 Sep 06 j 00:50	24°Ω40'33	2°12'51
minimum elong	-2266 Jun 21 j 17:17	9°II29'08	0°16'22	max. Earth dist.	-2260 Sep 06 j 01:09	24°Ω40'38	10.97684 AU
max. Earth dist.	-2266 Jun 22 j 06:33	9°II33'23	10.18432 AU	morning rise	-2260 Sep 22 j 17:44	26°Ω38'15	
morning rise	-2266 Jul 09 j 16:17	11°II46'03			-2260 Oct 23 j 23:42	0°η	
retrograde	-2266 Oct 19 j 15:58	19°II37'08		retrograde	-2260 Dec 30 j 11:53	3°η34'11	
asc. node	-2266 Dec 24 j 00:27	16°II18'18		opposition	-2259 Mar 09 j 13:32	0°η17'10	2°47'49
opposition	-2266 Dec 25 j 06:55	16°II12'07	0°00'08	min. Earth dist.	-2259 Mar 09 j 14:34	0°η16'59	9.02748 AU
min. Earth dist.	-2266 Dec 24 j 20:33	16°II14'13	8.24684 AU		-2259 Mar 13 j 09:26	30°RΩ	
direct	-2265 Mar 03 j 17:40	12°II43'09		direct	-2259 May 20 j 01:25	26°Ω54'52	
evening set	-2265 Jun 18 j 02:01	20°II46'06			-2259 Jul 23 j 10:42	0°η	
				evening set	-2259 Aug 31 j 21:10	4°η06'03	
conjunction	-2265 Jul 06 j 01:04	23°II01'07	0°16'57				
minimum elong	-2265 Jul 06 j 01:03	23°II01'07	0°17'00	conjunction	-2259 Sep 17 j 14:32	6°η02'53	2°20'42
max. Earth dist.	-2265 Jul 06 j 13:28	23°II05'01	10.31451 AU	minimum elong	-2259 Sep 17 j 14:31	6°η02'53	2°20'44
morning rise	-2265 Jul 23 j 19:36	25°II14'44		max. Earth dist.	-2259 Sep 17 j 11:44	6°η02'04	11.06973 AU
	-2265 Sep 04 j 17:34	0°Ϟ		morning rise	-2259 Oct 04 j 04:00	7°η58'37	
retrograde	-2265 Nov 01 j 20:39	2°Ϟ53'48		retrograde	-2258 Jan 10 j 23:04	14°η50'38	
	-2264 Jan 01 j 13:20	30°RII		opposition	-2258 Mar 21 j 11:59	11°η34'14	2°53'49
opposition	-2264 Jan 07 j 17:36	29°II30'27	0°40'30	min. Earth dist.	-2258 Mar 21 j 15:38	11°η33'33	9.10970 AU
min. Earth dist.	-2264 Jan 07 j 08:39	29°II32'14	8.38301 AU	direct	-2258 Jun 01 j 03:07	8°η13'07	
direct	-2264 Mar 16 j 19:18	26°II02'17		evening set	-2258 Sep 12 j 07:45	15°η18'20	
	-2264 May 27 j 04:03	0°Ϟ					
evening set	-2264 Jul 01 j 01:33	3°Ϟ56'10		conjunction	-2258 Sep 28 j 21:51	17°η13'33	2°23'03
				minimum elong	-2258 Sep 28 j 21:51	17°η13'33	2°23'04
conjunction	-2264 Jul 18 j 19:56	6°Ϟ07'47	0°48'27	max. Earth dist.	-2258 Sep 28 j 16:10	17°η11'54	11.13986 AU
minimum elong	-2264 Jul 18 j 19:54	6°Ϟ07'47	0°48'30	morning rise	-2258 Oct 15 j 08:57	19°η07'55	
max. Earth dist.	-2264 Jul 19 j 06:14	6°Ϟ10'59	10.45481 AU	retrograde	-2257 Jan 22 j 08:01	25°η57'43	
morning rise	-2264 Aug 05 j 09:17	8°Ϟ17'51		opposition	-2257 Apr 02 j 07:50	22°η41'38	2°53'13
retrograde	-2264 Nov 13 j 15:01	15°Ϟ45'34		min. Earth dist.	-2257 Apr 02 j 13:00	22°η40'41	9.16764 AU
opposition	-2263 Jan 19 j 20:31	12°Ϟ23'51	1°17'27	direct	-2257 Jun 13 j 01:03	19°η21'35	
min. Earth dist.	-2263 Jan 19 j 13:37	12°Ϟ25'13	8.52578 AU	evening set	-2257 Sep 23 j 12:56	26°η22'06	
direct	-2263 Mar 30 j 13:31	8°Ϟ56'39					
evening set	-2263 Jul 14 j 13:10	16°Ϟ41'09		conjunction	-2257 Oct 10 j 00:58	28°η16'18	2°20'00
				minimum elong	-2257 Oct 10 j 00:59	28°η16'18	2°20'00
conjunction	-2263 Aug 01 j 02:10	18°Ϟ49'16	1°16'41	max. Earth dist.	-2257 Oct 09 j 17:53	28°η14'14	11.18488 AU
minimum elong	-2263 Aug 01 j 02:07	18°Ϟ49'15	1°16'43		-2257 Oct 25 j 00:01	0°Ω	
max. Earth dist.	-2263 Aug 01 j 09:25	18°Ϟ51'29	10.59769 AU	morning rise	-2257 Oct 26 j 10:33	0°Ω09'50	
morning rise	-2263 Aug 18 j 10:02	20°Ϟ55'48		retrograde	-2256 Feb 02 j 19:11	6°Ω59'04	
retrograde	-2263 Nov 25 j 22:52	28°Ϟ13'16		opposition	-2256 Apr 13 j 02:12	3°Ω43'01	2°46'15
opposition	-2262 Feb 01 j 15:55	24°Ϟ53'03	1°49'27	min. Earth dist.	-2256 Apr 13 j 08:35	3°Ω41'51	9.19937 AU
min. Earth dist.	-2262 Feb 01 j 11:01	24°Ϟ54'00	8.66779 AU	direct	-2256 Jun 23 j 18:24	0°Ω23'55	
direct	-2262 Apr 13 j 00:06	21°Ϟ26'59		evening set	-2256 Oct 03 j 14:36	7°Ω21'01	
evening set	-2262 Jul 27 j 12:50	29°Ϟ02'11					
	-2262 Aug 04 j 14:38	0°Ω		conjunction	-2256 Oct 20 j 01:26	9°Ω14'45	2°11'48
				minimum elong	-2256 Oct 20 j 01:27	9°Ω14'45	2°11'48
conjunction	-2262 Aug 13 j 20:16	1°Ω06'54	1°40'33	max. Earth dist.	-2256 Oct 19 j 17:02	9°Ω12'19	11.20321 AU
minimum elong	-2262 Aug 13 j 20:12	1°Ω06'53	1°40'36	morning rise	-2256 Nov 05 j 10:29	11°Ω08'04	
max. Earth dist.	-2262 Aug 14 j 00:31	1°Ω08'11	10.73622 AU	retrograde	-2255 Feb 13 j 05:53	17°Ω58'21	
morning rise	-2262 Aug 30 j 22:43	3°Ω10'05		opposition	-2255 Apr 24 j 20:39	14°Ω42'04	2°33'16
retrograde	-2262 Dec 08 j 00:56	10°Ω18'48		min. Earth dist.	-2255 Apr 25 j 04:55	14°Ω40'34	9.20382 AU
opposition	-2261 Feb 14 j 04:42	6°Ω59'52	2°15'30	direct	-2255 Jul 05 j 07:30	11°Ω23'41	
min. Earth dist.	-2261 Feb 14 j 01:11	7°Ω00'32	8.80237 AU	evening set	-2255 Oct 14 j 14:30	18°Ω18'48	
direct	-2261 Apr 26 j 01:07	3°Ω35'03					
evening set	-2261 Aug 09 j 01:03	11°Ω01'22		conjunction	-2255 Oct 31 j 00:49	20°Ω12'35	1°58'46
				minimum elong	-2255 Oct 31 j 00:51	20°Ω12'36	1°58'45
conjunction	-2261 Aug 26 j 03:16	13°Ω03'01	1°59'24	max. Earth dist.	-2255 Oct 30 j 14:08	20°Ω09'29	11.19431 AU
minimum elong	-2261 Aug 26 j 03:14	13°Ω03'00	1°59'26	morning rise	-2255 Nov 16 j 10:27	22°Ω06'14	
max. Earth dist.	-2261 Aug 26 j 05:38	13°Ω03'43	10.86432 AU	retrograde	-2254 Feb 24 j 20:02	28°Ω59'13	
	-2261 Sep 11 j 13:35	15°Ω		opposition	-2254 May 06 j 16:17	25°Ω42'27	2°14'39
morning rise	-2261 Sep 12 j 00:36	15°Ω03'13		min. Earth dist.	-2254 May 07 j 02:19	25°Ω40'37	9.18097 AU
retrograde	-2261 Dec 19 j 20:41	22°Ω04'44		direct	-2254 Jul 16 j 21:12	22°Ω24'32	
opposition	-2260 Feb 26 j 11:35	18°Ω46'52	2°35'02	evening set	-2254 Oct 25 j 14:30	29°Ω19'06	
min. Earth dist.	-2260 Feb 26 j 09:55	18°Ω47'11	8.92382 AU		-2254 Oct 31 j 12:47	0°η	
direct	-2260 May 07 j 16:31	15°Ω23'19					
evening set	-2260 Aug 20 j 03:22	22°Ω41'34		conjunction	-2254 Nov 11 j 01:12	1°η13'30	1°41'18
				minimum elong	-2254 Nov 11 j 01:15	1°η13'30	1°41'16
conjunction	-2260 Sep 06 j 00:52	24°Ω40'33	2°12'50	max. Earth dist.	-2254 Nov 10 j 13:10	1°η09'59	11.15854 AU

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Attention, astronomical year style is used: The year -2254 in astronomical counting style is the year 2255 BCE in historical counting style.

morning rise	-2254 Nov 27 j 12:15	3°♄08'01		conjunction	-2247 Jan 19 j 01:22	11°♄42'41	-1°00'-54
retrograde	-2253 Mar 08 j 12:48	10°♄05'19		minimum elong	-2247 Jan 19 j 01:20	11°♄42'41	1°00'58
opposition	-2253 May 18 j 13:59	6°♄47'44	1°50'55	max. Earth dist.	-2247 Jan 18 j 15:57	11°♄39'45	10.49140 AU
min. Earth dist.	-2253 May 19 j 00:44	6°♄45'46	9.13157 AU	morning rise	-2247 Feb 05 j 06:49	13°♄51'06	
direct	-2253 Jul 28 j 10:15	3°♄30'03		retrograde	-2247 May 22 j 12:55	21°♄44'45	
evening set	-2253 Nov 05 j 16:18	10°♄25'36		opposition	-2247 Jul 31 j 10:28	18°♄18'15	-1°-32'-59
				min. Earth dist.	-2247 Jul 31 j 16:52	18°♄17'00	8.41714 AU
conjunction	-2253 Nov 22 j 04:19	12°♄21'05	1°19'51	direct	-2247 Oct 06 j 23:50	14°♄56'29	
minimum elong	-2253 Nov 22 j 04:21	12°♄21'06	1°19'49	evening set	-2246 Jan 15 j 04:10	22°♄31'25	
max. Earth dist.	-2253 Nov 21 j 16:25	12°♄17'36	11.09685 AU				
morning rise	-2253 Dec 08 j 17:19	14°♄16'58		conjunction	-2246 Feb 01 j 08:29	24°♄41'22	-1°-27'-59
	-2253 Dec 15 j 00:27	15°♄		minimum elong	-2246 Feb 01 j 08:26	24°♄41'21	1°28'02
retrograde	-2252 Mar 19 j 13:10	21°♄20'13		max. Earth dist.	-2246 Feb 01 j 01:09	24°♄39'02	10.34487 AU
opposition	-2252 May 29 j 15:02	18°♄01'32	1°22'40	morning rise	-2246 Feb 18 j 17:47	26°♄52'55	
min. Earth dist.	-2252 May 30 j 01:28	17°♄59'37	9.05698 AU		-2246 Mar 17 j 03:37	0°≈	
	-2252 Jul 20 j 18:58	15°♄		retrograde	-2246 Jun 05 j 18:11	4°≈58'34	
direct	-2252 Aug 08 j 01:50	14°♄43'51		opposition	-2246 Aug 14 j 02:55	1°≈30'27	-2°-4'-42
	-2252 Aug 26 j 02:21	15°♄		min. Earth dist.	-2246 Aug 14 j 07:00	1°≈29'38	8.27435 AU
evening set	-2252 Nov 15 j 22:02	21°♄41'57			-2246 Sep 02 j 18:19	30°♄	
				direct	-2246 Oct 20 j 02:23	28°♄07'15	
conjunction	-2252 Dec 02 j 11:47	23°♄38'59	0°55'02		-2246 Dec 04 j 22:38	0°≈	
minimum elong	-2252 Dec 02 j 11:49	23°♄38'59	0°54'59	evening set	-2245 Jan 28 j 20:58	5°≈53'01	
max. Earth dist.	-2252 Dec 01 j 23:31	23°♄35'21	11.01098 AU				
morning rise	-2252 Dec 19 j 03:20	25°♄36'39		conjunction	-2245 Feb 15 j 04:53	8°≈05'59	-1°-51'-8
	-2251 Jan 30 j 09:10	0°♄		minimum elong	-2245 Feb 15 j 04:50	8°≈05'58	1°51'11
retrograde	-2251 Mar 31 j 20:27	2°♄47'22		max. Earth dist.	-2245 Feb 14 j 23:51	8°≈04'21	10.20677 AU
	-2251 Jun 03 j 12:08	30°♄		morning rise	-2245 Mar 04 j 18:00	10°≈20'38	
opposition	-2251 Jun 10 j 20:35	29°♄27'25	0°50'38		-2245 Apr 14 j 06:22	15°≈	
min. Earth dist.	-2251 Jun 11 j 07:12	29°♄25'27	8.95947 AU	retrograde	-2245 Jun 20 j 07:38	18°≈37'17	
direct	-2251 Aug 19 j 18:02	26°♄09'25		opposition	-2245 Aug 28 j 02:38	15°≈07'46	-2°-30'-34
	-2251 Oct 29 j 05:57	0°♄		min. Earth dist.	-2245 Aug 28 j 04:39	15°≈07'21	8.14416 AU
evening set	-2251 Nov 27 j 09:34	3°♄11'42			-2245 Aug 29 j 17:04	15°♄	
				direct	-2245 Nov 02 j 14:29	11°≈43'04	
conjunction	-2251 Dec 14 j 01:26	5°♄10'41	0°27'33		-2244 Jan 02 j 20:38	15°≈	
minimum elong	-2251 Dec 14 j 01:27	5°♄10'41	0°27'30	evening set	-2244 Feb 12 j 02:29	19°≈39'40	
max. Earth dist.	-2251 Dec 13 j 12:20	5°♄06'46	10.90360 AU				
morning rise	-2251 Dec 30 j 20:11	7°♄10'35		conjunction	-2244 Feb 29 j 14:16	21°≈55'33	-2°-8'-37
retrograde	-2250 Apr 13 j 09:24	14°♄30'15		minimum elong	-2244 Feb 29 j 14:13	21°≈55'32	2°08'39
opposition	-2250 Jun 23 j 07:44	11°♄08'49	0°15'44	max. Earth dist.	-2244 Feb 29 j 12:36	21°≈55'00	10.08514 AU
min. Earth dist.	-2250 Jun 23 j 18:41	11°♄06'46	8.84211 AU	morning rise	-2244 Mar 18 j 07:05	24°≈13'03	
direct	-2250 Aug 31 j 15:40	7°♄50'11			-2244 May 09 j 00:19	0°♄	
desc. node	-2250 Dec 04 j 05:43	14°♄23'23		retrograde	-2244 Jul 04 j 03:34	2°♄38'50	
evening set	-2250 Dec 09 j 04:32	14°♄58'22			-2244 Aug 30 j 17:16	30°♄	
				opposition	-2244 Sep 10 j 08:59	29°≈08'13	-2°-48'-21
conjunction	-2250 Dec 25 j 23:03	16°♄59'41	0°-1'-45	min. Earth dist.	-2244 Sep 10 j 08:30	29°≈08'19	8.03431 AU
minimum elong	-2250 Dec 25 j 23:04	16°♄59'41	0°01'50	direct	-2244 Nov 15 j 13:05	25°≈42'04	
behind sun begin	-2250 Dec 25 j 16:02	16°♄57'35			-2243 Jan 25 j 05:22	0°♄	
behind sun end	-2250 Dec 26 j 06:06	17°♄01'48		evening set	-2243 Feb 25 j 19:34	3°♄48'38	
max. Earth dist.	-2250 Dec 25 j 10:05	16°♄55'46	10.77794 AU				
morning rise	-2249 Jan 11 j 21:19	19°♄02'10		conjunction	-2243 Mar 15 j 11:25	6°♄07'10	-2°-18'-48
retrograde	-2249 Apr 26 j 08:32	26°♄32'13		minimum elong	-2243 Mar 15 j 11:24	6°♄07'09	2°18'49
opposition	-2249 Jul 06 j 01:16	23°♄09'08	0°-20'-50	max. Earth dist.	-2243 Mar 15 j 13:46	6°♄07'56	9.98755 AU
min. Earth dist.	-2249 Jul 06 j 11:50	23°♄07'08	8.70861 AU	morning rise	-2243 Apr 02 j 07:46	8°♄27'08	
direct	-2249 Sep 12 j 19:45	19°♄49'40		retrograde	-2243 Jul 19 j 03:02	16°♄59'14	
evening set	-2249 Dec 21 j 08:58	27°♄05'24		opposition	-2243 Sep 24 j 20:18	13°♄27'54	-2°-56'-11
				min. Earth dist.	-2243 Sep 24 j 17:00	13°♄28'35	7.95169 AU
conjunction	-2248 Jan 07 j 06:36	29°♄09'24	0°-31'-38	direct	-2243 Nov 29 j 20:33	10°♄00'24	
minimum elong	-2248 Jan 07 j 06:35	29°♄09'24	0°31'42	evening set	-2242 Mar 12 j 22:36	18°♄15'16	
max. Earth dist.	-2248 Jan 06 j 19:11	29°♄05'53	10.63834 AU				
	-2248 Jan 14 j 02:57	0°♄		conjunction	-2242 Mar 30 j 18:35	20°♄36'01	-2°-20'-31
morning rise	-2248 Jan 24 j 08:23	1°♄14'46		minimum elong	-2242 Mar 30 j 18:36	20°♄36'01	2°20'32
retrograde	-2248 May 08 j 17:52	8°♄56'17		max. Earth dist.	-2242 Mar 31 j 00:56	20°♄38'07	9.92038 AU
opposition	-2248 Jul 18 j 01:54	5°♄31'31	0°-57'-40	morning rise	-2242 Apr 17 j 18:06	22°♄57'54	
min. Earth dist.	-2248 Jul 18 j 10:41	5°♄29'50	8.56451 AU		-2242 Jun 22 j 15:44	0°♄	
direct	-2248 Sep 24 j 05:35	2°♄11'00		retrograde	-2242 Aug 03 j 04:33	1°♄32'39	
evening set	-2247 Jan 02 j 00:28	9°♄35'47			-2242 Sep 14 j 03:56	30°♄	
				opposition	-2242 Oct 09 j 10:31	28°♄01'04	-2°-52'-53

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Attention, astronomical year style is used: The year -2242 in astronomical counting style is the year 2243 BCE in historical counting style.

min. Earth dist.	-2242 Oct 09 j 04:25	28° κ 02'20	7.90169 AU	max. Earth dist.	-2236 Jun 29 j 04:13	16° π 54'40	10.23877 AU
direct	-2242 Dec 14 j 09:51	24° κ 32'24		morning rise	-2236 Jul 16 j 12:30	19° π 06'03	
	-2241 Mar 05 j 05:00	0° γ		retrograde	-2236 Oct 25 j 23:50	26° π 51'19	
evening set	-2241 Mar 28 j 08:38	2° γ 53'12		opposition	-2236 Dec 31 j 18:16	23° π 26'52	0°21'24
				min. Earth dist.	-2236 Dec 31 j 08:15	23° π 28'53	8.30639 AU
conjunction	-2241 Apr 15 j 08:24	5° γ 15'29	-2°-13'-16	direct	-2235 Mar 10 j 12:54	19° π 58'02	
minimum elong	-2241 Apr 15 j 08:27	5° γ 15'30	2°13'16	evening set	-2235 Jun 24 j 20:09	27° π 56'49	
max. Earth dist.	-2241 Apr 15 j 18:22	5° γ 18'48	9.88814 AU		-2235 Jul 11 j 08:16	0° ε	
morning rise	-2241 May 03 j 10:30	7° γ 38'32		conjunction	-2235 Jul 12 j 16:55	0° ε 10'14	0°33'38
retrograde	-2241 Aug 18 j 05:27	16° γ 12'00		minimum elong	-2235 Jul 12 j 16:54	0° ε 10'14	0°33'41
opposition	-2241 Oct 24 j 01:42	12° γ 40'39	-2°-38'-17	max. Earth dist.	-2235 Jul 13 j 04:19	0° ε 13'48	10.37833 AU
min. Earth dist.	-2241 Oct 23 j 17:04	12° γ 42'27	7.88766 AU	morning rise	-2235 Jul 30 j 09:07	2° ε 22'10	
direct	-2241 Dec 29 j 03:56	9° γ 11'05		retrograde	-2235 Nov 07 j 23:24	9° ε 55'40	
evening set	-2240 Apr 11 j 21:52	17° γ 34'49		opposition	-2234 Jan 14 j 01:03	6° ε 33'04	1°00'16
				min. Earth dist.	-2234 Jan 13 j 15:52	6° ε 34'53	8.45015 AU
conjunction	-2240 Apr 30 j 00:39	19° γ 57'49	-1°-57'-22	direct	-2234 Mar 24 j 11:15	3° ε 05'20	
minimum elong	-2240 Apr 30 j 00:43	19° γ 57'51	1°57'21	evening set	-2234 Jul 08 j 13:55	10° ε 54'49	
max. Earth dist.	-2240 Apr 30 j 13:26	20° γ 02'04	9.89303 AU				
morning rise	-2240 May 18 j 04:27	22° γ 21'10		conjunction	-2234 Jul 26 j 05:41	13° ε 04'43	1°03'38
	-2240 Aug 02 j 07:03	0° ε		minimum elong	-2234 Jul 26 j 05:38	13° ε 04'43	1°03'41
retrograde	-2240 Sep 01 j 02:21	0° ε 49'32		max. Earth dist.	-2234 Jul 26 j 15:37	13° ε 07'47	10.52425 AU
	-2240 Sep 30 j 23:58	30° ε γ		morning rise	-2234 Aug 12 j 16:17	15° ε 13'03	
opposition	-2240 Nov 06 j 15:24	27° γ 18'52	-2°-13'-24	retrograde	-2234 Nov 20 j 13:23	22° ε 35'45	
min. Earth dist.	-2240 Nov 06 j 05:10	27° γ 21'00	7.91057 AU	opposition	-2233 Jan 27 j 00:26	19° ε 14'53	1°34'50
direct	-2239 Jan 12 j 00:32	23° γ 48'43		min. Earth dist.	-2233 Jan 26 j 16:55	19° ε 16'22	8.59682 AU
	-2239 Apr 09 j 20:27	0° ε		direct	-2233 Apr 07 j 01:15	15° ε 48'27	
evening set	-2239 Apr 27 j 10:53	2° ε 12'17		evening set	-2233 Jul 21 j 19:46	23° ε 28'29	
conjunction	-2239 May 15 j 15:34	4° ε 35'05	-1°-33'-59	conjunction	-2233 Aug 08 j 06:03	25° ε 34'53	1°29'43
minimum elong	-2239 May 15 j 15:38	4° ε 35'06	1°33'58	minimum elong	-2233 Aug 08 j 06:00	25° ε 34'52	1°29'46
max. Earth dist.	-2239 May 16 j 05:55	4° ε 39'48	9.93463 AU	max. Earth dist.	-2233 Aug 08 j 13:52	25° ε 37'16	10.66922 AU
morning rise	-2239 Jun 02 j 19:52	6° ε 57'44		morning rise	-2233 Aug 25 j 11:00	27° ε 39'43	
	-2239 Aug 28 j 23:41	15° ε			-2233 Sep 14 j 21:03	0° ε	
retrograde	-2239 Sep 15 j 16:38	15° ε 17'44		retrograde	-2233 Dec 02 j 20:08	4° ε 52'52	
	-2239 Oct 03 j 08:01	15° ε ε		opposition	-2232 Feb 08 j 16:53	1° ε 33'35	2°03'50
opposition	-2239 Nov 21 j 01:21	11° ε 48'13	-1°-40'-13	min. Earth dist.	-2232 Feb 08 j 12:00	1° ε 34'31	8.73935 AU
min. Earth dist.	-2239 Nov 20 j 14:30	11° ε 50'28	7.96879 AU		-2232 Feb 29 j 18:17	30° ε ε	
direct	-2238 Jan 26 j 21:58	8° ε 17'49		direct	-2232 Apr 19 j 05:31	28° ε 08'29	
	-2238 Apr 29 j 17:47	15° ε			-2232 Jun 06 j 19:59	0° ε	
evening set	-2238 May 12 j 20:02	16° ε 38'20		evening set	-2232 Aug 02 j 14:03	5° ε 39'21	
conjunction	-2238 May 31 j 01:05	18° ε 59'56	-1°-4'-59	conjunction	-2232 Aug 19 j 18:48	7° ε 42'29	1°51'03
minimum elong	-2238 May 31 j 01:08	18° ε 59'57	1°04'57	minimum elong	-2232 Aug 19 j 18:45	7° ε 42'28	1°51'05
max. Earth dist.	-2238 May 31 j 15:48	19° ε 04'43	10.00982 AU	max. Earth dist.	-2232 Aug 19 j 23:16	7° ε 43'49	10.80653 AU
morning rise	-2238 Jun 18 j 04:26	21° ε 20'57		morning rise	-2232 Sep 05 j 18:31	9° ε 44'07	
retrograde	-2238 Sep 29 j 20:56	29° ε 30'17			-2232 Oct 28 j 04:33	15° ε	
opposition	-2238 Dec 05 j 06:00	26° ε 02'16	-1°-1'-25	retrograde	-2232 Dec 13 j 18:16	16° ε 49'11	
min. Earth dist.	-2238 Dec 04 j 19:14	26° ε 04'30	8.05827 AU		-2231 Jan 30 j 22:09	15° ε ε	
direct	-2237 Feb 10 j 17:00	22° ε 32'02		opposition	-2231 Feb 20 j 03:02	13° ε 31'13	2°26'31
	-2237 May 21 j 15:51	0° π		min. Earth dist.	-2231 Feb 20 j 00:39	13° ε 31'40	8.87116 AU
evening set	-2237 May 27 j 22:02	0° π 46'58		direct	-2231 May 02 j 02:01	10° ε 07'28	
					-2231 Jul 23 j 11:16	15° ε	
conjunction	-2237 Jun 15 j 01:44	3° π 06'27	0°-32'-34	evening set	-2231 Aug 14 j 21:48	17° ε 29'48	
minimum elong	-2237 Jun 15 j 01:46	3° π 06'28	0°32'32				
max. Earth dist.	-2237 Jun 15 j 15:51	3° π 11'00	10.11341 AU	conjunction	-2231 Aug 31 j 21:22	19° ε 30'00	2°07'05
morning rise	-2237 Jul 03 j 02:36	5° π 24'59		minimum elong	-2231 Aug 31 j 21:19	19° ε 30'00	2°07'07
retrograde	-2237 Oct 13 j 15:01	13° π 22'27		max. Earth dist.	-2231 Aug 31 j 22:21	19° ε 30'18	10.93014 AU
opposition	-2237 Dec 19 j 03:56	9° π 56'10	0°-19'-56	morning rise	-2231 Sep 17 j 16:24	21° ε 28'52	
min. Earth dist.	-2237 Dec 18 j 17:32	9° π 58'18	8.17317 AU	retrograde	-2231 Dec 25 j 11:12	28° ε 27'29	
direct	-2236 Feb 25 j 06:37	6° π 26'28		opposition	-2230 Mar 04 j 07:45	25° ε 10'32	2°42'30
evening set	-2236 Jun 10 j 14:35	14° π 33'56		min. Earth dist.	-2230 Mar 04 j 07:21	25° ε 10'36	8.98644 AU
asc. node	-2236 Jun 17 j 09:41	15° π 25'03		direct	-2230 May 14 j 16:38	21° ε 48'05	
				evening set	-2230 Aug 26 j 20:02	29° ε 02'44	
conjunction	-2236 Jun 28 j 15:26	16° π 50'37	0°01'02		-2230 Sep 04 j 01:18	0° π	
minimum elong	-2236 Jun 28 j 15:26	16° π 50'37	0°01'04				
behind sun begin	-2236 Jun 28 j 08:08	16° π 48'20		conjunction	-2230 Sep 12 j 15:14	1° π 00'31	2°17'35
behind sun end	-2236 Jun 28 j 22:44	16° π 52'55					

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Attention, astronomical year style is used: The year -2230 in astronomical counting style is the year 2231 BCE in historical counting style.

minimum elong	-2230 Sep 12 j 15:13	1° \mathbb{M} 00'30	2°17'37	max. Earth dist.	-2224 Nov 15 j 22:06	7° \mathbb{M} 24'41	11.11678 AU
max. Earth dist.	-2230 Sep 12 j 13:45	1° \mathbb{M} 00'04	11.03478 AU	morning rise	-2224 Dec 02 j 23:36	9° \mathbb{M} 23'56	
morning rise	-2230 Sep 29 j 06:17	2° \mathbb{M} 57'06			-2223 Jan 31 j 03:01	15° \mathbb{M}	
retrograde	-2229 Jan 06 j 01:27	9° \mathbb{M} 50'56		retrograde	-2223 Mar 14 j 10:03	16° \mathbb{M} 24'33	
opposition	-2229 Mar 16 j 08:14	6° \mathbb{M} 34'42	2°51'40		-2223 Apr 26 j 22:04	15° \mathbb{R} \mathbb{M}	
min. Earth dist.	-2229 Mar 16 j 09:50	6° \mathbb{M} 34'24	9.08025 AU	opposition	-2223 May 24 j 11:31	13° \mathbb{M} 06'04	1°36'12
direct	-2229 May 26 j 21:58	3° \mathbb{M} 13'29		min. Earth dist.	-2223 May 24 j 23:39	13° \mathbb{M} 03'50	9.08076 AU
evening set	-2229 Sep 07 j 10:15	10° \mathbb{M} 21'31		direct	-2223 Aug 03 j 03:02	9° \mathbb{M} 47'57	
					-2223 Oct 26 j 13:04	15° \mathbb{M}	
conjunction	-2229 Sep 24 j 01:57	12° \mathbb{M} 17'27	2°22'31	evening set	-2223 Nov 11 j 03:54	16° \mathbb{M} 45'07	
minimum elong	-2229 Sep 24 j 01:56	12° \mathbb{M} 17'26	2°22'32				
max. Earth dist.	-2229 Sep 23 j 22:15	12° \mathbb{M} 16'22	11.11597 AU	conjunction	-2223 Nov 27 j 16:42	18° \mathbb{M} 41'31	1°06'49
morning rise	-2229 Oct 10 j 13:57	14° \mathbb{M} 12'22		minimum elong	-2223 Nov 27 j 16:44	18° \mathbb{M} 41'32	1°06'47
retrograde	-2228 Jan 17 j 12:30	21° \mathbb{M} 03'10		max. Earth dist.	-2223 Nov 27 j 02:44	18° \mathbb{M} 37'23	11.03812 AU
opposition	-2228 Mar 27 j 05:37	17° \mathbb{M} 47'22	2°54'08	morning rise	-2223 Dec 14 j 07:12	20° \mathbb{M} 38'28	
min. Earth dist.	-2228 Mar 27 j 10:10	17° \mathbb{M} 46'32	9.14880 AU	retrograde	-2222 Mar 26 j 12:41	27° \mathbb{M} 45'56	
direct	-2228 Jun 06 j 21:18	14° \mathbb{M} 27'13		opposition	-2222 Jun 05 j 15:06	24° \mathbb{M} 26'06	1°05'48
evening set	-2228 Sep 17 j 18:28	21° \mathbb{M} 30'00		min. Earth dist.	-2222 Jun 06 j 03:10	24° \mathbb{M} 23'52	8.99019 AU
				direct	-2222 Aug 14 j 19:23	21° \mathbb{M} 07'41	
conjunction	-2228 Oct 04 j 07:24	23° \mathbb{M} 24'37	2°21'57	evening set	-2222 Nov 22 j 12:27	28° \mathbb{M} 08'22	
minimum elong	-2228 Oct 04 j 07:25	23° \mathbb{M} 24'37	2°21'57		-2222 Dec 08 j 05:25	0° \mathbb{Z}	
max. Earth dist.	-2228 Oct 04 j 00:21	23° \mathbb{M} 22'34	11.17092 AU	conjunction	-2222 Dec 09 j 03:26	0° \mathbb{Z} 06'34	0°40'27
morning rise	-2228 Oct 20 j 17:32	25° \mathbb{M} 18'29		minimum elong	-2222 Dec 09 j 03:27	0° \mathbb{Z} 06'35	0°40'25
	-2228 Dec 06 j 22:54	0° \mathbb{Z}		max. Earth dist.	-2222 Dec 08 j 14:20	0° \mathbb{Z} 02'40	10.93743 AU
retrograde	-2227 Jan 27 j 22:22	2° \mathbb{Z} 07'58		morning rise	-2222 Dec 25 j 20:44	2° \mathbb{Z} 05'35	
	-2227 Mar 23 j 06:55	30° \mathbb{R} \mathbb{M}		retrograde	-2221 Apr 07 j 22:55	9° \mathbb{Z} 21'27	
opposition	-2227 Apr 08 j 01:01	28° \mathbb{M} 52'17	2°50'06	opposition	-2221 Jun 17 j 23:27	6° \mathbb{Z} 00'06	0°32'05
min. Earth dist.	-2227 Apr 08 j 08:23	28° \mathbb{M} 50'56	9.19021 AU	min. Earth dist.	-2221 Jun 18 j 10:30	5° \mathbb{Z} 58'02	8.87932 AU
direct	-2227 Jun 18 j 16:32	25° \mathbb{M} 33'00		direct	-2221 Aug 26 j 15:30	2° \mathbb{Z} 41'10	
	-2227 Sep 05 j 12:45	0° \mathbb{Z}		evening set	-2221 Dec 04 j 03:47	9° \mathbb{Z} 47'02	
evening set	-2227 Sep 28 j 22:14	2° \mathbb{Z} 31'50					
conjunction	-2227 Oct 15 j 09:24	4° \mathbb{Z} 25'45	2°16'07	conjunction	-2221 Dec 20 j 21:16	11° \mathbb{Z} 47'28	0°11'55
minimum elong	-2227 Oct 15 j 09:25	4° \mathbb{Z} 25'46	2°16'06	minimum elong	-2221 Dec 20 j 21:17	11° \mathbb{Z} 47'28	0°11'52
max. Earth dist.	-2227 Oct 14 j 23:34	4° \mathbb{Z} 22'54	11.19856 AU	behind sun begin	-2221 Dec 20 j 16:20	11° \mathbb{Z} 45'59	
morning rise	-2227 Oct 31 j 18:43	6° \mathbb{Z} 19'09		behind sun end	-2221 Dec 21 j 02:14	11° \mathbb{Z} 48'57	
retrograde	-2226 Feb 08 j 07:59	13° \mathbb{Z} 09'00		max. Earth dist.	-2221 Dec 20 j 08:54	11° \mathbb{Z} 43'44	10.81814 AU
opposition	-2226 Apr 19 j 19:52	9° \mathbb{Z} 53'03	2°39'53	morning rise	-2220 Jan 06 j 17:49	13° \mathbb{Z} 48'54	
min. Earth dist.	-2226 Apr 20 j 04:47	9° \mathbb{Z} 51'25	9.20380 AU	retrograde	-2220 Apr 19 j 19:19	21° \mathbb{Z} 14'35	
direct	-2226 Jun 30 j 09:21	6° \mathbb{Z} 34'26		desc. node	-2220 May 20 j 04:44	20° \mathbb{Z} 30'36	
evening set	-2226 Oct 09 j 23:03	13° \mathbb{Z} 30'38		opposition	-2220 Jun 29 j 13:58	17° \mathbb{Z} 51'39	0°-3'-54
				min. Earth dist.	-2220 Jun 29 j 23:51	17° \mathbb{Z} 49'47	8.75208 AU
conjunction	-2226 Oct 26 j 09:33	15° \mathbb{Z} 24'24	2°05'17	direct	-2220 Sep 06 j 15:26	14° \mathbb{Z} 32'00	
minimum elong	-2226 Oct 26 j 09:36	15° \mathbb{Z} 24'25	2°05'16	evening set	-2220 Dec 15 j 03:40	21° \mathbb{Z} 44'40	
max. Earth dist.	-2226 Oct 25 j 22:50	15° \mathbb{Z} 21'17	11.19847 AU				
morning rise	-2226 Nov 11 j 18:52	17° \mathbb{Z} 17'54		conjunction	-2220 Dec 31 j 23:51	23° \mathbb{Z} 47'36	0°-17'-54
retrograde	-2225 Feb 19 j 22:08	24° \mathbb{Z} 09'45		minimum elong	-2220 Dec 31 j 23:51	23° \mathbb{Z} 47'36	0°17'59
opposition	-2225 May 01 j 15:07	20° \mathbb{Z} 53'13	2°23'50	max. Earth dist.	-2220 Dec 31 j 11:46	23° \mathbb{Z} 43'54	10.68473 AU
min. Earth dist.	-2225 May 02 j 00:44	20° \mathbb{Z} 51'28	9.18949 AU	morning rise	-2219 Jan 18 j 00:01	25° \mathbb{Z} 51'48	
direct	-2225 Jul 12 j 00:29	17° \mathbb{Z} 35'02			-2219 Feb 24 j 17:12	0° \mathbb{Z}	
evening set	-2225 Oct 20 j 23:06	24° \mathbb{Z} 30'00		retrograde	-2219 May 02 j 23:45	3° \mathbb{Z} 28'31	
				opposition	-2219 Jul 12 j 11:33	0° \mathbb{Z} 03'56	0°-40'-52
conjunction	-2225 Nov 06 j 09:45	26° \mathbb{Z} 24'10	1°49'49	min. Earth dist.	-2219 Jul 12 j 20:33	0° \mathbb{Z} 02'12	8.61355 AU
minimum elong	-2225 Nov 06 j 09:48	26° \mathbb{Z} 24'10	1°49'48		-2219 Jul 13 j 08:01	30° \mathbb{R} \mathbb{Z}	
max. Earth dist.	-2225 Nov 05 j 22:01	26° \mathbb{Z} 20'44	11.17085 AU	direct	-2219 Sep 18 j 21:12	26° \mathbb{Z} 43'21	
morning rise	-2225 Nov 22 j 19:58	28° \mathbb{Z} 18'18			-2219 Nov 20 j 21:38	0° \mathbb{Z}	
	-2225 Dec 08 j 02:40	0° \mathbb{M}		evening set	-2219 Dec 27 j 13:56	4° \mathbb{Z} 04'23	
retrograde	-2224 Mar 02 j 13:34	5° \mathbb{M} 13'42					
opposition	-2224 May 12 j 11:50	1° \mathbb{M} 56'19	2°02'26	conjunction	-2218 Jan 13 j 13:11	6° \mathbb{Z} 10'05	0°-47'-39
min. Earth dist.	-2224 May 12 j 22:43	1° \mathbb{M} 54'20	9.14797 AU	minimum elong	-2218 Jan 13 j 13:09	6° \mathbb{Z} 10'04	0°47'43
	-2224 Jun 09 j 20:05	30° \mathbb{R} \mathbb{Z}		max. Earth dist.	-2218 Jan 13 j 02:32	6° \mathbb{Z} 06'46	10.54272 AU
direct	-2224 Jul 22 j 12:01	28° \mathbb{Z} 38'18		morning rise	-2218 Jan 30 j 17:07	8° \mathbb{Z} 17'16	
	-2224 Sep 02 j 00:09	0° \mathbb{M}		retrograde	-2218 May 16 j 12:58	16° \mathbb{Z} 05'48	
evening set	-2224 Oct 31 j 00:10	5° \mathbb{M} 33'35		opposition	-2218 Jul 25 j 16:38	12° \mathbb{Z} 39'34	-1°-17'-8
				min. Earth dist.	-2218 Jul 26 j 00:12	12° \mathbb{Z} 38'06	8.46982 AU
conjunction	-2224 Nov 16 j 11:32	7° \mathbb{M} 28'38	1°30'09	direct	-2218 Oct 01 j 12:32	9° \mathbb{Z} 17'54	
minimum elong	-2224 Nov 16 j 11:35	7° \mathbb{M} 28'38	1°30'07	evening set	-2217 Jan 09 j 11:54	16° \mathbb{Z} 48'34	

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Attention, astronomical year style is used: The year -2217 in astronomical counting style is the year 2218 BCE in historical counting style.

conjunction	-2217 Jan 26 j 14:37	18°♁57'15	-1°-15'-57	morning rise	-2211 May 11 j 10:54	15°♃57'18	
minimum elong	-2217 Jan 26 j 14:34	18°♁57'14	1°16'01	retrograde	-2211 Aug 25 j 20:22	24°♃28'11	
max. Earth dist.	-2217 Jan 26 j 06:40	18°♁54'44	10.39851 AU	opposition	-2211 Oct 31 j 11:35	20°♃57'41	-2°-25'-36
morning rise	-2217 Feb 12 j 22:17	21°♁07'31		min. Earth dist.	-2211 Oct 31 j 02:22	20°♃59'37	7.90776 AU
retrograde	-2217 May 30 j 13:39	29°♁08'08		direct	-2210 Jan 05 j 17:09	17°♃28'18	
opposition	-2217 Aug 08 j 05:33	25°♁40'22	-1°-50'-47	evening set	-2210 Apr 20 j 20:09	25°♃51'57	
min. Earth dist.	-2217 Aug 08 j 10:45	25°♁39'21	8.32766 AU				
direct	-2217 Oct 14 j 11:50	22°♁17'29		conjunction	-2210 May 08 j 23:59	28°♃14'48	-1°-45'-14
evening set	-2216 Jan 22 j 22:40	29°♁58'41		minimum elong	-2210 May 09 j 00:03	28°♃14'49	1°45'12
	-2216 Jan 23 j 02:53	0°♁		max. Earth dist.	-2210 May 09 j 12:58	28°♃19'05	9.92423 AU
					-2210 May 27 j 08:00	0°♁	
conjunction	-2216 Feb 09 j 04:59	2°♁10'23	-1°-41'-7	morning rise	-2210 May 27 j 04:19	0°♁37'45	
minimum elong	-2216 Feb 09 j 04:56	2°♁10'22	1°41'11	retrograde	-2210 Sep 09 j 12:47	9°♁01'30	
max. Earth dist.	-2216 Feb 09 j 00:34	2°♁08'58	10.25929 AU	opposition	-2210 Nov 14 j 23:27	5°♁31'58	-1°-55'-52
morning rise	-2216 Feb 26 j 16:16	4°♁23'44		min. Earth dist.	-2210 Nov 14 j 13:11	5°♁34'07	7.95113 AU
retrograde	-2216 Jun 12 j 23:48	12°♁35'55		direct	-2209 Jan 20 j 15:24	2°♁02'12	
opposition	-2216 Aug 21 j 02:10	9°♁06'48	-2°-19'-36	evening set	-2209 May 06 j 07:32	10°♁24'03	
min. Earth dist.	-2216 Aug 21 j 04:12	9°♁06'24	8.19458 AU				
direct	-2216 Oct 26 j 19:36	5°♁42'41		conjunction	-2209 May 24 j 12:33	12°♁46'10	-1°-18'-30
evening set	-2215 Feb 04 j 22:31	13°♁34'42		minimum elong	-2209 May 24 j 12:37	12°♁46'11	1°18'29
	-2215 Feb 16 j 00:16	15°♁		max. Earth dist.	-2209 May 25 j 02:22	12°♁50'41	9.98402 AU
					-2209 Jun 10 j 15:53	15°♁	
conjunction	-2215 Feb 22 j 08:36	15°♁49'22	-2°-1'-24	morning rise	-2209 Jun 11 j 16:32	15°♁07'54	
minimum elong	-2215 Feb 22 j 08:33	15°♁49'21	2°01'27	retrograde	-2209 Sep 23 j 21:29	23°♁22'05	
max. Earth dist.	-2215 Feb 22 j 07:37	15°♁49'03	10.13304 AU	opposition	-2209 Nov 29 j 06:50	19°♁53'53	-1°-19'-15
morning rise	-2215 Mar 11 j 23:33	18°♁05'39		min. Earth dist.	-2209 Nov 28 j 19:59	19°♁56'08	8.02500 AU
retrograde	-2215 Jun 27 j 17:53	26°♁27'58		direct	-2208 Feb 04 j 11:12	16°♁24'06	
opposition	-2215 Sep 04 j 05:56	22°♁57'46	-2°-41'-18	evening set	-2208 May 20 j 13:09	24°♁41'37	
min. Earth dist.	-2215 Sep 04 j 04:51	22°♁57'59	8.07846 AU				
direct	-2215 Nov 09 j 13:00	19°♁32'23		conjunction	-2208 Jun 07 j 17:46	27°♁02'06	0°-47'-20
evening set	-2214 Feb 19 j 10:52	27°♁34'48		minimum elong	-2208 Jun 07 j 17:49	27°♁02'07	0°47'18
				max. Earth dist.	-2208 Jun 08 j 07:50	27°♁06'40	10.07236 AU
conjunction	-2214 Mar 09 j 00:53	29°♁52'13	-2°-15'-4	morning rise	-2208 Jun 25 j 19:55	29°♁21'47	
minimum elong	-2214 Mar 09 j 00:51	29°♁52'13	2°15'06		-2208 Jun 30 j 21:21	0°♁	
max. Earth dist.	-2214 Mar 09 j 03:13	29°♁52'59	10.02759 AU	retrograde	-2208 Oct 06 j 21:55	7°♁24'50	
	-2214 Mar 10 j 00:37	0°♁		opposition	-2208 Dec 12 j 08:12	3°♁58'11	0°-38'-36
morning rise	-2214 Mar 26 j 19:30	2°♁11'10		min. Earth dist.	-2208 Dec 11 j 21:27	4°♁00'24	8.12531 AU
retrograde	-2214 Jul 12 j 17:29	10°♁41'06		direct	-2207 Feb 18 j 02:24	0°♁28'41	
opposition	-2214 Sep 18 j 15:35	7°♁10'13	-2°-53'-49	evening set	-2207 Jun 04 j 10:49	8°♁39'47	
min. Earth dist.	-2214 Sep 18 j 11:57	7°♁10'58	7.98662 AU				
direct	-2214 Nov 23 j 15:47	3°♁43'35		conjunction	-2207 Jun 22 j 13:20	10°♁57'51	0°-14'00
evening set	-2213 Mar 06 j 10:16	11°♁55'07		minimum elong	-2207 Jun 22 j 13:21	10°♁57'52	0°13'58
				behind sun begin	-2207 Jun 22 j 09:49	10°♁56'45	
conjunction	-2213 Mar 24 j 04:14	14°♁14'55	-2°-20'-43	behind sun end	-2207 Jun 22 j 16:53	10°♁58'59	
minimum elong	-2213 Mar 24 j 04:14	14°♁14'56	2°20'44	max. Earth dist.	-2207 Jun 23 j 02:49	11°♁02'10	10.18443 AU
max. Earth dist.	-2213 Mar 24 j 09:50	14°♁16'46	9.94988 AU	morning rise	-2207 Jul 10 j 12:11	13°♁14'45	
morning rise	-2213 Apr 11 j 02:16	16°♁36'01		retrograde	-2207 Oct 20 j 12:50	21°♁05'50	
retrograde	-2213 Jul 27 j 19:42	25°♁10'13		asc. node	-2207 Nov 27 j 09:11	19°♁49'51	
opposition	-2213 Oct 03 j 05:11	21°♁39'03	-2°-55'-36	opposition	-2207 Dec 26 j 02:30	17°♁40'52	0°03'09
min. Earth dist.	-2213 Oct 02 j 23:22	21°♁40'15	7.92522 AU	min. Earth dist.	-2207 Dec 25 j 16:51	17°♁42'50	8.24660 AU
direct	-2213 Dec 08 j 02:24	18°♁11'18		direct	-2206 Mar 04 j 12:08	14°♁11'55	
evening set	-2212 Mar 20 j 17:54	26°♁29'48		evening set	-2206 Jun 18 j 22:16	22°♁15'03	
conjunction	-2212 Apr 07 j 15:44	28°♁51'24	-2°-17'-32	conjunction	-2206 Jul 06 j 21:07	24°♁30'05	0°19'21
minimum elong	-2212 Apr 07 j 15:46	28°♁51'25	2°17'32	minimum elong	-2206 Jul 06 j 21:06	24°♁30'04	0°19'24
max. Earth dist.	-2212 Apr 08 j 00:25	28°♁54'17	9.90537 AU	max. Earth dist.	-2206 Jul 07 j 08:55	24°♁33'47	10.31386 AU
	-2212 Apr 16 j 06:58	0°♁		morning rise	-2206 Jul 24 j 15:31	26°♁43'41	
morning rise	-2212 Apr 25 j 16:45	1°♁13'59			-2206 Aug 21 j 17:36	0°♁	
retrograde	-2212 Aug 10 j 21:51	9°♁48'31		retrograde	-2206 Nov 02 j 16:46	4°♁22'49	
opposition	-2212 Oct 16 j 20:43	6°♁17'29	-2°-46'-2	opposition	-2205 Jan 08 j 13:25	0°♁59'35	0°43'26
min. Earth dist.	-2212 Oct 16 j 13:02	6°♁19'06	7.89851 AU	min. Earth dist.	-2205 Jan 08 j 05:18	1°♁01'12	8.38202 AU
direct	-2212 Dec 21 j 19:47	2°♁48'48			-2205 Jan 21 j 03:51	30°♁	
evening set	-2211 Apr 05 j 06:20	11°♁11'24		direct	-2205 Mar 18 j 15:17	27°♁31'26	
					-2205 May 12 j 22:37	0°♁	
conjunction	-2211 Apr 23 j 07:38	13°♁34'04	-2°-5'-26	evening set	-2205 Jul 02 j 21:56	5°♁25'36	
minimum elong	-2211 Apr 23 j 07:42	13°♁34'05	2°05'25				
max. Earth dist.	-2211 Apr 23 j 18:55	13°♁37'48	9.89696 AU	conjunction	-2205 Jul 20 j 16:01	7°♁37'12	0°50'44

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Attention, astronomical year style is used: The year -2205 in astronomical counting style is the year 2206 BCE in historical counting style.

minimum elong	-2205 Jul 20 j 15:59	7°♄37'11	0°50'47	morning rise	-2199 Oct 16 j 05:53	20°♃41'02	
max. Earth dist.	-2205 Jul 21 j 01:16	7°♄40'04	10.45340 AU	retrograde	-2198 Jan 23 j 07:12	27°♃31'07	
morning rise	-2205 Aug 07 j 05:16	9°♄47'17		opposition	-2198 Apr 03 j 05:39	24°♃14'57	2°52'50
retrograde	-2205 Nov 15 j 09:49	17°♄15'11		min. Earth dist.	-2198 Apr 03 j 10:03	24°♃14'08	9.16409 AU
opposition	-2204 Jan 21 j 16:36	13°♄53'34	1°20'10	direct	-2198 Jun 13 j 23:27	20°♃54'54	
min. Earth dist.	-2204 Jan 21 j 09:52	13°♄54'53	8.52411 AU	evening set	-2198 Sep 24 j 10:03	27°♃55'27	
direct	-2204 Mar 31 j 10:57	10°♄26'25					
evening set	-2204 Jul 15 j 09:36	18°♄11'12		conjunction	-2198 Oct 10 j 22:06	29°♃49'42	2°19'25
				minimum elong	-2198 Oct 10 j 22:07	29°♃49'42	2°19'25
conjunction	-2204 Aug 01 j 22:21	20°♄19'18	1°18'44	max. Earth dist.	-2198 Oct 10 j 15:46	29°♃47'51	11.18137 AU
minimum elong	-2204 Aug 01 j 22:18	20°♄19'17	1°18'46				
max. Earth dist.	-2204 Aug 02 j 05:06	20°♄21'22	10.59567 AU	morning rise	-2198 Oct 27 j 07:35	1°♄43'16	
morning rise	-2204 Aug 19 j 06:06	22°♄25'50		retrograde	-2197 Feb 03 j 16:29	8°♄32'44	
retrograde	-2204 Nov 26 j 19:46	29°♄43'37		opposition	-2197 Apr 15 j 00:22	5°♄16'36	2°45'16
opposition	-2203 Feb 02 j 12:14	26°♄23'27	1°51'49	min. Earth dist.	-2197 Apr 15 j 06:42	5°♄15'26	9.19593 AU
min. Earth dist.	-2203 Feb 02 j 06:46	26°♄24'30	8.66552 AU	direct	-2197 Jun 25 j 14:52	1°♄57'27	
direct	-2203 Apr 13 j 20:17	22°♄57'27		evening set	-2197 Oct 05 j 11:43	8°♄54'34	
	-2203 Jul 23 j 17:19	0°♄					
evening set	-2203 Jul 28 j 09:22	0°♄32'56		conjunction	-2197 Oct 21 j 22:28	10°♄48'19	2°10'45
				minimum elong	-2197 Oct 21 j 22:30	10°♄48'20	2°10'44
conjunction	-2203 Aug 14 j 16:42	2°♄37'40	1°42'18	max. Earth dist.	-2197 Oct 21 j 13:48	10°♄45'48	11.19993 AU
minimum elong	-2203 Aug 14 j 16:39	2°♄37'39	1°42'20	morning rise	-2197 Nov 07 j 07:40	12°♄41'42	
max. Earth dist.	-2203 Aug 14 j 21:28	2°♄39'07	10.73369 AU	retrograde	-2196 Feb 15 j 03:45	19°♄32'10	
morning rise	-2203 Aug 31 j 18:54	4°♄40'51		opposition	-2196 Apr 25 j 18:55	16°♄15'48	2°31'42
retrograde	-2203 Dec 08 j 21:52	11°♄49'53		min. Earth dist.	-2196 Apr 26 j 03:30	16°♄14'14	9.20069 AU
opposition	-2202 Feb 15 j 01:20	8°♄30'59	2°17'25	direct	-2196 Jul 06 j 05:57	12°♄57'22	
min. Earth dist.	-2202 Feb 14 j 21:35	8°♄31'42	8.79957 AU	evening set	-2196 Oct 15 j 11:38	19°♄52'27	
direct	-2202 Apr 26 j 20:58	5°♄06'14					
evening set	-2202 Aug 09 j 21:51	12°♄32'50		conjunction	-2196 Oct 31 j 21:58	21°♄46'16	1°57'17
				minimum elong	-2196 Oct 31 j 22:01	21°♄46'17	1°57'15
conjunction	-2202 Aug 26 j 23:55	14°♄34'29	2°00'45	max. Earth dist.	-2196 Oct 31 j 11:18	21°♄43'10	11.19139 AU
minimum elong	-2202 Aug 26 j 23:53	14°♄34'28	2°00'47	morning rise	-2196 Nov 17 j 07:47	23°♄40'00	
max. Earth dist.	-2202 Aug 27 j 02:53	14°♄35'22	10.86129 AU		-2195 Jan 30 j 12:37	0°♄	
	-2202 Aug 30 j 13:16	15°♄		retrograde	-2195 Feb 25 j 16:35	0°♄33'08	
morning rise	-2202 Sep 12 j 20:57	16°♄34'42			-2195 Mar 24 j 07:50	30°♄	
retrograde	-2202 Dec 20 j 18:17	23°♄36'33		opposition	-2195 May 07 j 14:25	27°♄16'14	2°12'35
opposition	-2201 Feb 27 j 08:42	20°♄18'43	2°36'26	min. Earth dist.	-2195 May 07 j 23:59	27°♄14'29	9.17820 AU
min. Earth dist.	-2201 Feb 27 j 07:29	20°♄18'57	8.92064 AU	direct	-2195 Jul 17 j 18:55	23°♄58'17	
direct	-2201 May 09 j 13:37	16°♄55'12		evening set	-2195 Oct 18 j 16:12	0°♄	
evening set	-2201 Aug 22 j 00:22	24°♄13'42			-2195 Oct 26 j 11:35	0°♄52'48	
conjunction	-2201 Sep 07 j 21:35	26°♄12'41	2°13'44	conjunction	-2195 Nov 11 j 22:29	2°♄47'14	1°39'24
minimum elong	-2201 Sep 07 j 21:33	26°♄12'41	2°13'45	minimum elong	-2195 Nov 11 j 22:32	2°♄47'15	1°39'23
max. Earth dist.	-2201 Sep 07 j 21:33	26°♄12'41	10.97351 AU	max. Earth dist.	-2195 Nov 11 j 11:29	2°♄44'01	11.15599 AU
morning rise	-2201 Sep 24 j 14:21	28°♄10'24		morning rise	-2195 Nov 28 j 09:35	4°♄41'48	
	-2201 Oct 10 j 20:43	0°♄		retrograde	-2194 Mar 09 j 11:43	11°♄39'16	
retrograde	-2200 Jan 01 j 08:46	5°♄06'39		opposition	-2194 May 19 j 12:13	8°♄21'33	1°48'25
opposition	-2200 Mar 10 j 11:02	1°♄49'38	2°48'38	min. Earth dist.	-2194 May 19 j 21:54	8°♄19'47	9.12919 AU
min. Earth dist.	-2200 Mar 10 j 12:28	1°♄49'22	9.02414 AU	direct	-2194 Jul 29 j 09:17	5°♄03'51	
	-2200 Apr 05 j 08:02	30°♄		evening set	-2194 Nov 06 j 13:26	11°♄59'18	
direct	-2200 May 20 j 21:41	28°♄27'20					
	-2200 Jul 04 j 14:32	0°♄		conjunction	-2194 Nov 23 j 01:34	13°♄54'51	1°17'38
evening set	-2200 Sep 01 j 18:10	5°♄38'42		minimum elong	-2194 Nov 23 j 01:37	13°♄54'52	1°17'36
				max. Earth dist.	-2194 Nov 22 j 14:18	13°♄51'32	11.09477 AU
conjunction	-2200 Sep 18 j 11:19	7°♄35'33	2°21'07		-2194 Dec 02 j 07:38	15°♄	
minimum elong	-2200 Sep 18 j 11:18	7°♄35'33	2°21'09	morning rise	-2194 Dec 09 j 14:40	15°♄50'46	
max. Earth dist.	-2200 Sep 18 j 08:05	7°♄34'36	11.06629 AU	retrograde	-2193 Mar 21 j 11:59	22°♄54'07	
morning rise	-2200 Oct 05 j 00:48	9°♄31'20		opposition	-2193 May 31 j 13:22	19°♄35'22	1°19'48
retrograde	-2199 Jan 11 j 19:24	16°♄23'39		min. Earth dist.	-2193 May 31 j 23:26	19°♄33'31	9.05517 AU
opposition	-2199 Mar 22 j 09:37	13°♄07'11	2°54'02	direct	-2193 Aug 09 j 22:45	16°♄17'40	
min. Earth dist.	-2199 Mar 22 j 12:45	13°♄06'36	9.10623 AU	evening set	-2193 Nov 17 j 19:20	23°♄15'40	
direct	-2199 Jun 02 j 01:32	9°♄46'03					
evening set	-2199 Sep 13 j 04:48	16°♄51'25		conjunction	-2193 Dec 04 j 09:07	25°♄12'44	0°52'34
				minimum elong	-2193 Dec 04 j 09:09	25°♄12'45	0°52'31
conjunction	-2199 Sep 29 j 18:54	18°♄46'40	2°22'58	max. Earth dist.	-2193 Dec 03 j 20:33	25°♄09'01	11.00963 AU
minimum elong	-2199 Sep 29 j 18:54	18°♄46'40	2°22'59	morning rise	-2193 Dec 21 j 00:57	27°♄10'28	
max. Earth dist.	-2199 Sep 29 j 13:56	18°♄45'13	11.13635 AU		-2192 Jan 15 j 17:44	0°♄	

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Attention, astronomical year style is used: The year -2192 in astronomical counting style is the year 2193 BCE in historical counting style.

retrograde	-2192 Apr 01 j 17:14	4°♂21'15		max. Earth dist.	-2186 Feb 15 j 21:08	9°♁36'51	10.21092 AU
opposition	-2192 Jun 11 j 18:51	1°♂01'14	0°47'31	morning rise	-2186 Mar 05 j 15:26	11°♁53'04	
min. Earth dist.	-2192 Jun 12 j 05:43	0°♂59'13	8.95855 AU		-2186 Mar 31 j 14:47	15°♁	
	-2192 Jun 25 j 18:19	30°♁		retrograde	-2186 Jun 21 j 03:52	20°♁09'30	
direct	-2192 Aug 20 j 15:40	27°♁43'13		opposition	-2186 Aug 28 j 23:41	16°♁40'05	-2°-32'-9
	-2192 Oct 12 j 21:49	0°♂		min. Earth dist.	-2186 Aug 29 j 02:10	16°♁39'35	8.14838 AU
evening set	-2192 Nov 28 j 06:55	4°♂45'26			-2186 Sep 19 j 13:42	15°♁	
				direct	-2186 Nov 03 j 12:42	13°♁15'27	
conjunction	-2192 Dec 14 j 22:53	6°♂44'27	0°24'57		-2186 Dec 17 j 05:51	15°♁	
minimum elong	-2192 Dec 14 j 22:54	6°♂44'27	0°24'53	evening set	-2185 Feb 12 j 23:42	21°♁11'55	
max. Earth dist.	-2192 Dec 14 j 10:06	6°♂40'38	10.90327 AU				
morning rise	-2192 Dec 31 j 17:51	8°♂44'23		conjunction	-2185 Mar 02 j 11:40	23°♁27'46	-2°-9'-37
retrograde	-2191 Apr 14 j 07:28	16°♂04'06		minimum elong	-2185 Mar 02 j 11:38	23°♁27'45	2°09'39
opposition	-2191 Jun 24 j 05:55	12°♂42'37	0°12'30	max. Earth dist.	-2185 Mar 02 j 10:27	23°♁27'22	10.08933 AU
min. Earth dist.	-2191 Jun 24 j 16:38	12°♂40'37	8.84240 AU	morning rise	-2185 Mar 20 j 04:30	25°♁45'12	
direct	-2191 Sep 01 j 14:14	9°♂24'00			-2185 Apr 25 j 02:41	0°♁	
desc. node	-2191 Nov 01 j 14:02	12°♂23'52		retrograde	-2185 Jul 05 j 23:05	4°♁10'43	
evening set	-2191 Dec 10 j 01:51	16°♂32'03		opposition	-2185 Sep 12 j 05:41	0°♁40'12	-2°-49'-12
				min. Earth dist.	-2185 Sep 12 j 05:09	0°♁40'19	8.03848 AU
conjunction	-2191 Dec 26 j 20:34	18°♂33'23	0°-4'-24		-2185 Sep 20 j 11:21	30°♁	
minimum elong	-2191 Dec 26 j 20:35	18°♂33'23	0°04'29	direct	-2185 Nov 17 j 10:45	27°♁14'08	
behind sun begin	-2191 Dec 26 j 13:41	18°♂31'19			-2184 Jan 11 j 23:19	0°♁	
behind sun end	-2191 Dec 27 j 03:29	18°♂35'27		evening set	-2184 Feb 27 j 16:47	5°♁20'32	
max. Earth dist.	-2191 Dec 26 j 08:56	18°♂29'52	10.77893 AU				
morning rise	-2190 Jan 12 j 18:52	20°♂35'52		conjunction	-2184 Mar 16 j 08:49	7°♁39'03	-2°-19'-12
retrograde	-2190 Apr 27 j 06:27	28°♂05'53		minimum elong	-2184 Mar 16 j 08:48	7°♁39'03	2°19'13
opposition	-2190 Jul 06 j 23:17	24°♂42'47	0°-24'-2	max. Earth dist.	-2184 Mar 16 j 11:41	7°♁39'59	9.99158 AU
min. Earth dist.	-2190 Jul 07 j 08:50	24°♂40'58	8.71040 AU	morning rise	-2184 Apr 03 j 05:05	9°♁58'58	
direct	-2190 Sep 13 j 17:29	21°♂23'20		retrograde	-2184 Jul 19 j 23:25	18°♁30'45	
evening set	-2190 Dec 22 j 06:22	28°♂38'54		opposition	-2184 Sep 25 j 16:42	14°♁59'31	-2°-56'-15
	-2189 Jan 02 j 08:45	0°♁		min. Earth dist.	-2184 Sep 25 j 13:02	15°♁00'16	7.95563 AU
				direct	-2184 Nov 30 j 16:10	11°♁32'05	
conjunction	-2189 Jan 08 j 04:07	0°♁42'52	0°-34'-11	evening set	-2183 Mar 13 j 19:42	19°♁46'48	
minimum elong	-2189 Jan 08 j 04:06	0°♁42'52	0°34'15				
max. Earth dist.	-2189 Jan 07 j 17:29	0°♁39'36	10.64074 AU	conjunction	-2183 Mar 31 j 15:48	22°♁07'31	-2°-20'-17
morning rise	-2189 Jan 25 j 05:56	2°♁48'12		minimum elong	-2183 Mar 31 j 15:49	22°♁07'31	2°20'18
retrograde	-2189 May 10 j 15:44	10°♁29'37		max. Earth dist.	-2183 Mar 31 j 22:26	22°♁09'42	9.92417 AU
opposition	-2189 Jul 19 j 23:40	7°♁04'50	-1°00'-42	morning rise	-2183 Apr 18 j 15:16	24°♁29'21	
min. Earth dist.	-2189 Jul 20 j 07:40	7°♁03'18	8.56752 AU		-2183 Jun 05 j 07:59	0°♁	
direct	-2189 Sep 26 j 03:19	3°♁44'21		retrograde	-2183 Aug 04 j 02:15	3°♁03'46	
evening set	-2188 Jan 03 j 21:57	11°♁08'57			-2183 Oct 04 j 17:26	30°♁	
				opposition	-2183 Oct 10 j 06:43	29°♁32'16	-2°-52'-10
conjunction	-2188 Jan 20 j 22:50	13°♁15'49	-1°-3'-14	min. Earth dist.	-2183 Oct 10 j 00:23	29°♁33'35	7.90534 AU
minimum elong	-2188 Jan 20 j 22:47	13°♁15'48	1°03'18	direct	-2183 Dec 15 j 05:16	26°♁03'39	
max. Earth dist.	-2188 Jan 20 j 13:04	13°♁12'46	10.49477 AU		-2182 Feb 20 j 12:38	0°♁	
morning rise	-2188 Feb 07 j 04:24	15°♁24'12		evening set	-2182 Mar 29 j 05:33	4°♁24'17	
retrograde	-2188 May 23 j 11:45	23°♁17'39					
opposition	-2188 Aug 01 j 07:59	19°♁51'14	-1°-35'-40	conjunction	-2182 Apr 16 j 05:24	6°♁46'33	-2°-12'-25
min. Earth dist.	-2188 Aug 01 j 14:29	19°♁49'58	8.42083 AU	minimum elong	-2182 Apr 16 j 05:27	6°♁46'34	2°12'25
direct	-2188 Oct 07 j 19:59	16°♁29'30		max. Earth dist.	-2182 Apr 16 j 15:08	6°♁49'46	9.89163 AU
evening set	-2187 Jan 16 j 01:36	24°♁04'17		morning rise	-2182 May 04 j 07:33	9°♁09'34	
				retrograde	-2182 Aug 19 j 03:02	17°♁42'39	
conjunction	-2187 Feb 02 j 05:51	26°♁14'09	-1°-29'-59	opposition	-2182 Oct 24 j 21:41	14°♁11'23	-2°-36'-51
minimum elong	-2187 Feb 02 j 05:48	26°♁14'08	1°30'02	min. Earth dist.	-2182 Oct 24 j 13:25	14°♁13'07	7.89091 AU
max. Earth dist.	-2187 Feb 01 j 21:50	26°♁11'36	10.34876 AU	direct	-2182 Dec 29 j 23:59	10°♁41'50	
morning rise	-2187 Feb 19 j 15:17	28°♁25'41		evening set	-2181 Apr 13 j 18:44	19°♁05'27	
	-2187 Mar 04 j 13:18	0°♁					
retrograde	-2187 Jun 06 j 15:51	6°♁31'06		conjunction	-2181 May 01 j 21:32	21°♁28'25	-1°-55'-58
opposition	-2187 Aug 15 j 00:13	3°♁03'06	-2°-6'-54	minimum elong	-2181 May 01 j 21:36	21°♁28'27	1°55'57
min. Earth dist.	-2187 Aug 15 j 04:56	3°♁02'09	8.27840 AU	max. Earth dist.	-2181 May 02 j 09:25	21°♁32'21	9.89606 AU
	-2187 Oct 01 j 20:48	30°♁		morning rise	-2181 May 20 j 01:25	23°♁51'44	
direct	-2187 Oct 20 j 23:20	29°♁39'56			-2181 Jul 13 j 19:20	0°♁	
	-2187 Nov 08 j 23:07	0°♁		retrograde	-2181 Sep 02 j 22:53	2°♁19'41	
evening set	-2186 Jan 29 j 18:15	7°♁25'35			-2181 Oct 25 j 01:43	30°♁	
				opposition	-2181 Nov 08 j 11:09	28°♁49'07	-2°-11'-21
conjunction	-2186 Feb 16 j 02:14	9°♁38'29	-1°-52'-41	min. Earth dist.	-2181 Nov 08 j 01:50	28°♁51'05	7.91328 AU
minimum elong	-2186 Feb 16 j 02:11	9°♁38'28	1°52'44	direct	-2180 Jan 13 j 21:24	25°♁18'58	

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Attention, astronomical year style is used: The year -2180 in astronomical counting style is the year 2181 BCE in historical counting style.

	-2180 Mar 28 j 18:31	0°♄		retrograde	-2175 Nov 21 j 09:51	24°♄04'18	
evening set	-2180 Apr 28 j 07:31	3°♄42'26		opposition	-2174 Jan 27 j 20:04	20°♄43'24	1°37'18
				min. Earth dist.	-2174 Jan 27 j 13:22	20°♄44'42	8.59424 AU
conjunction	-2180 May 16 j 12:09	6°♄05'11	-1°-32'-9	direct	-2174 Apr 07 j 19:46	17°♄16'52	
minimum elong	-2180 May 16 j 12:13	6°♄05'13	1°32'08	evening set	-2174 Jul 22 j 15:43	24°♄57'04	
max. Earth dist.	-2180 May 17 j 01:14	6°♄09'30	9.93705 AU				
morning rise	-2180 Jun 03 j 16:33	8°♄27'49		conjunction	-2174 Aug 09 j 01:42	27°♄03'28	1°31'34
	-2180 Aug 03 j 00:29	15°♄		minimum elong	-2174 Aug 09 j 01:39	27°♄03'27	1°31'36
retrograde	-2180 Sep 16 j 11:33	16°♄47'27		max. Earth dist.	-2174 Aug 09 j 08:41	27°♄05'36	10.66616 AU
	-2180 Oct 31 j 13:16	15°♄♄		morning rise	-2174 Aug 26 j 06:32	29°♄08'18	
opposition	-2180 Nov 21 j 21:00	13°♄18'00	-1°-37'-41		-2174 Sep 02 j 14:07	0°♄	
min. Earth dist.	-2180 Nov 21 j 11:02	13°♄20'05	7.97087 AU	retrograde	-2174 Dec 03 j 14:48	6°♄21'37	
direct	-2179 Jan 27 j 18:36	9°♄47'35		opposition	-2173 Feb 09 j 12:46	3°♄02'17	2°05'54
	-2179 Apr 17 j 22:47	15°♄		min. Earth dist.	-2173 Feb 09 j 08:16	3°♄03'09	8.73599 AU
evening set	-2179 May 13 j 16:20	18°♄07'59			-2173 Mar 30 j 10:44	30°♄♄	
				direct	-2173 Apr 21 j 01:46	29°♄37'07	
conjunction	-2179 May 31 j 21:20	20°♄29'33	-1°-2'-49		-2173 May 12 j 15:43	0°♄	
minimum elong	-2179 May 31 j 21:23	20°♄29'34	1°02'47	evening set	-2173 Aug 04 j 09:57	7°♄08'12	
max. Earth dist.	-2179 Jun 01 j 10:52	20°♄33'58	10.01154 AU				
morning rise	-2179 Jun 19 j 00:46	22°♄50'32		conjunction	-2173 Aug 21 j 14:25	9°♄11'19	1°52'32
	-2179 Aug 28 j 21:27	0°♄♄		minimum elong	-2173 Aug 21 j 14:22	9°♄11'18	1°52'34
retrograde	-2179 Sep 30 j 15:40	0°♄♄59'36		max. Earth dist.	-2173 Aug 21 j 18:13	9°♄12'27	10.80282 AU
	-2179 Nov 02 j 16:01	30°♄♄		morning rise	-2173 Sep 07 j 14:03	11°♄12'58	
opposition	-2179 Dec 06 j 01:28	27°♄31'37	0°-58'-34		-2173 Oct 12 j 13:48	15°♄	
min. Earth dist.	-2179 Dec 05 j 15:07	27°♄33'45	8.05957 AU	retrograde	-2173 Dec 15 j 13:40	18°♄18'20	
direct	-2178 Feb 11 j 12:52	24°♄01'19		opposition	-2172 Feb 21 j 23:08	15°♄00'18	2°28'06
	-2178 May 10 j 04:47	0°♄♄		min. Earth dist.	-2172 Feb 21 j 20:14	15°♄00'51	8.86724 AU
evening set	-2178 May 28 j 18:12	2°♄♄16'11			-2172 Feb 22 j 00:43	15°♄♄	
				direct	-2172 May 02 j 23:38	11°♄36'31	
conjunction	-2178 Jun 15 j 21:53	4°♄♄35'40	0°-30'-13		-2172 Jul 09 j 07:05	15°♄	
minimum elong	-2178 Jun 15 j 21:55	4°♄♄35'40	0°30'11	evening set	-2172 Aug 15 j 17:42	18°♄59'05	
max. Earth dist.	-2178 Jun 16 j 11:11	4°♄♄39'56	10.11425 AU				
morning rise	-2178 Jul 03 j 22:44	6°♄♄54'09		conjunction	-2172 Sep 01 j 17:11	20°♄59'19	2°08'09
retrograde	-2178 Oct 14 j 10:27	14°♄♄51'25		minimum elong	-2172 Sep 01 j 17:09	20°♄59'18	2°08'11
opposition	-2178 Dec 19 j 23:14	11°♄♄25'07	0°-16'-58	max. Earth dist.	-2172 Sep 01 j 18:42	20°♄59'45	10.92608 AU
min. Earth dist.	-2178 Dec 19 j 12:40	11°♄♄27'16	8.17351 AU	morning rise	-2172 Sep 18 j 12:03	22°♄58'11	
direct	-2177 Feb 26 j 02:31	7°♄♄55'21		retrograde	-2172 Dec 26 j 08:15	29°♄57'07	
asc. node	-2177 May 23 j 00:51	13°♄♄35'45		opposition	-2171 Mar 05 j 04:03	26°♄40'07	2°43'33
evening set	-2177 Jun 12 j 10:38	16°♄♄02'48		min. Earth dist.	-2171 Mar 05 j 03:03	26°♄40'19	8.98231 AU
				direct	-2171 May 15 j 12:00	23°♄17'42	
conjunction	-2177 Jun 30 j 11:28	18°♄♄19'28	0°03'27		-2171 Aug 22 j 22:17	0°♄♄	
minimum elong	-2177 Jun 30 j 11:28	18°♄♄19'28	0°03'30	evening set	-2171 Aug 27 j 16:06	0°♄♄32'33	
behind sun begin	-2177 Jun 30 j 04:13	18°♄♄17'12					
behind sun end	-2177 Jun 30 j 18:42	18°♄♄21'45		conjunction	-2171 Sep 13 j 11:15	2°♄♄30'22	2°18'12
max. Earth dist.	-2177 Jul 01 j 00:13	18°♄♄23'31	10.23861 AU	minimum elong	-2171 Sep 13 j 11:14	2°♄♄30'22	2°18'14
morning rise	-2177 Jul 18 j 08:21	20°♄♄34'51		max. Earth dist.	-2171 Sep 13 j 10:38	2°♄♄30'12	11.03075 AU
retrograde	-2177 Oct 27 j 19:10	28°♄♄20'02		morning rise	-2171 Sep 30 j 02:06	4°♄♄27'00	
opposition	-2176 Jan 02 j 13:41	24°♄♄55'31	0°24'21	retrograde	-2170 Jan 06 j 22:04	11°♄♄21'09	
min. Earth dist.	-2176 Jan 02 j 03:22	24°♄♄57'36	8.30569 AU	opposition	-2170 Mar 17 j 04:57	8°♄♄04'54	2°52'09
direct	-2176 Mar 11 j 09:00	21°♄♄26'38		min. Earth dist.	-2170 Mar 17 j 06:39	8°♄♄04'35	9.07643 AU
evening set	-2176 Jun 25 j 15:58	29°♄♄25'26		direct	-2170 May 27 j 18:00	4°♄♄43'41	
	-2176 Jun 30 j 08:09	0°♄♄		evening set	-2170 Sep 08 j 06:31	11°♄♄51'55	
conjunction	-2176 Jul 13 j 12:42	1°♄♄38'49	0°35'57	conjunction	-2170 Sep 24 j 22:01	13°♄♄47'52	2°22'39
minimum elong	-2176 Jul 13 j 12:40	1°♄♄38'49	0°36'00	minimum elong	-2170 Sep 24 j 22:01	13°♄♄47'51	2°22'40
max. Earth dist.	-2176 Jul 14 j 00:37	1°♄♄42'33	10.37712 AU	max. Earth dist.	-2170 Sep 24 j 18:16	13°♄♄46'46	11.11249 AU
morning rise	-2176 Jul 31 j 04:36	3°♄♄50'43		morning rise	-2170 Oct 11 j 09:59	15°♄♄42'49	
retrograde	-2176 Nov 08 j 18:42	11°♄♄24'15		retrograde	-2169 Jan 18 j 09:22	22°♄♄33'55	
opposition	-2175 Jan 14 j 20:34	8°♄♄01'34	1°03'02	opposition	-2169 Mar 29 j 02:42	19°♄♄18'05	2°54'02
min. Earth dist.	-2175 Jan 14 j 11:42	8°♄♄03'20	8.44846 AU	min. Earth dist.	-2169 Mar 29 j 07:31	19°♄♄17'12	9.14571 AU
direct	-2175 Mar 25 j 07:01	4°♄♄33'47		direct	-2169 Jun 08 j 17:56	15°♄♄57'58	
evening set	-2175 Jul 09 j 09:47	12°♄♄23'20		evening set	-2169 Sep 19 j 14:47	23°♄♄00'51	
conjunction	-2175 Jul 27 j 01:23	14°♄♄33'14	1°05'45	conjunction	-2169 Oct 06 j 03:36	24°♄♄55'31	2°21'37
minimum elong	-2175 Jul 27 j 01:21	14°♄♄33'13	1°05'48	minimum elong	-2169 Oct 06 j 03:36	24°♄♄55'31	2°21'36
max. Earth dist.	-2175 Jul 27 j 11:19	14°♄♄36'17	10.52205 AU	max. Earth dist.	-2169 Oct 05 j 20:24	24°♄♄53'25	11.16817 AU
morning rise	-2175 Aug 13 j 11:45	16°♄♄41'31		morning rise	-2169 Oct 22 j 13:49	26°♄♄49'26	

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Attention, astronomical year style is used: The year -2169 in astronomical counting style is the year 2170 BCE in historical counting style.

	-2169 Nov 21 j 10:26	0°♄		morning rise	-2163 Dec 26 j 18:05	3°♄39'31	
retrograde	-2168 Jan 29 j 18:14	3°♄39'11		retrograde	-2162 Apr 08 j 22:46	10°♄55'32	
opposition	-2168 Apr 08 j 22:14	0°♄23'28	2°49'24	opposition	-2162 Jun 18 j 21:36	7°♄34'11	0°28'54
min. Earth dist.	-2168 Apr 09 j 05:04	0°♄22'13	9.18770 AU	min. Earth dist.	-2162 Jun 19 j 08:08	7°♄32'13	8.87873 AU
	-2168 Apr 14 j 06:47	30°♄		direct	-2162 Aug 27 j 12:46	4°♄15'18	
direct	-2168 Jun 19 j 13:30	27°♄04'14		evening set	-2162 Dec 05 j 01:05	11°♄21'06	
	-2168 Aug 21 j 06:43	0°♄					
evening set	-2168 Sep 29 j 18:33	4°♄03'10		conjunction	-2162 Dec 21 j 18:34	13°♄21'33	0°09'18
				minimum elong	-2162 Dec 21 j 18:35	13°♄21'33	0°09'14
conjunction	-2168 Oct 16 j 05:48	5°♄57'08	2°15'18	behind sun begin	-2162 Dec 21 j 12:38	13°♄19'46	
minimum elong	-2168 Oct 16 j 05:50	5°♄57'08	2°15'17	behind sun end	-2162 Dec 22 j 00:32	13°♄23'20	
max. Earth dist.	-2168 Oct 15 j 20:52	5°♄54'32	11.19625 AU	max. Earth dist.	-2162 Dec 21 j 05:49	13°♄17'42	10.81786 AU
morning rise	-2168 Nov 01 j 15:07	7°♄50'34		morning rise	-2161 Jan 07 j 15:21	15°♄23'02	
retrograde	-2167 Feb 09 j 06:34	14°♄40'42		desc. node	-2161 Apr 18 j 18:43	22°♄48'23	
opposition	-2167 Apr 20 j 17:13	11°♄24'45	2°38'36	retrograde	-2161 Apr 21 j 16:43	22°♄48'48	
min. Earth dist.	-2167 Apr 21 j 01:12	11°♄23'18	9.20158 AU	opposition	-2161 Jul 01 j 12:10	19°♄25'51	0°-7'-8
direct	-2167 Jul 01 j 07:06	8°♄06'14		min. Earth dist.	-2161 Jul 01 j 22:19	19°♄23'56	8.75208 AU
evening set	-2167 Oct 10 j 19:33	15°♄02'29		direct	-2161 Sep 08 j 12:11	16°♄06'11	
				evening set	-2161 Dec 17 j 01:09	23°♄18'49	
conjunction	-2167 Oct 27 j 06:09	16°♄56'19	2°04'01				
minimum elong	-2167 Oct 27 j 06:11	16°♄56'20	2°04'00	conjunction	-2160 Jan 02 j 21:24	25°♄21'45	0°-20'-30
max. Earth dist.	-2167 Oct 26 j 20:10	16°♄53'25	11.19638 AU	minimum elong	-2160 Jan 02 j 21:23	25°♄21'45	0°20'35
morning rise	-2167 Nov 12 j 15:27	18°♄49'52		max. Earth dist.	-2160 Jan 02 j 09:15	25°♄18'02	10.68506 AU
retrograde	-2166 Feb 20 j 19:24	25°♄41'58		morning rise	-2160 Jan 19 j 21:45	27°♄25'58	
opposition	-2166 May 02 j 12:47	22°♄25'28	2°22'02		-2160 Feb 11 j 06:10	0°♄	
min. Earth dist.	-2166 May 02 j 22:15	22°♄23'44	9.18749 AU	retrograde	-2160 May 03 j 20:18	5°♄02'41	
direct	-2166 Jul 12 j 20:04	19°♄07'23		opposition	-2160 Jul 13 j 09:30	1°♄38'03	0°-44'00
evening set	-2166 Oct 21 j 19:49	26°♄02'25		min. Earth dist.	-2160 Jul 13 j 18:48	1°♄36'16	8.61419 AU
					-2160 Aug 04 j 15:15	30°♄	
conjunction	-2166 Nov 07 j 06:26	27°♄56'38	1°48'08	direct	-2160 Sep 19 j 20:10	28°♄17'26	
minimum elong	-2166 Nov 07 j 06:29	27°♄56'38	1°48'07		-2160 Nov 03 j 10:24	0°♄	
max. Earth dist.	-2166 Nov 06 j 18:24	27°♄53'07	11.16904 AU	evening set	-2160 Dec 28 j 11:26	5°♄38'24	
morning rise	-2166 Nov 23 j 16:50	29°♄50'51					
	-2166 Nov 25 j 00:58	0°♄		conjunction	-2159 Jan 14 j 10:51	7°♄44'06	0°-50'-7
retrograde	-2165 Mar 04 j 11:33	6°♄46'31		minimum elong	-2159 Jan 14 j 10:49	7°♄44'05	0°50'10
opposition	-2165 May 14 j 09:48	3°♄29'10	2°00'08	max. Earth dist.	-2159 Jan 14 j 00:59	7°♄41'02	10.54362 AU
min. Earth dist.	-2165 May 14 j 20:59	3°♄27'07	9.14630 AU	morning rise	-2159 Jan 31 j 14:48	9°♄51'16	
direct	-2165 Jul 24 j 09:57	0°♄11'13		retrograde	-2159 May 17 j 11:05	17°♄39'44	
evening set	-2165 Nov 01 j 20:58	7°♄06'33		opposition	-2159 Jul 26 j 14:23	14°♄13'28	-1°-20'-1
				min. Earth dist.	-2159 Jul 26 j 21:32	14°♄12'04	8.47106 AU
conjunction	-2165 Nov 18 j 08:24	9°♄01'40	1°28'06	direct	-2159 Oct 02 j 10:34	10°♄51'45	
minimum elong	-2165 Nov 18 j 08:27	9°♄01'40	1°28'05	evening set	-2158 Jan 10 j 09:22	18°♄22'16	
max. Earth dist.	-2165 Nov 17 j 19:02	8°♄57'44	11.11534 AU				
morning rise	-2165 Dec 04 j 20:42	10°♄57'02		conjunction	-2158 Jan 27 j 12:13	20°♄30'55	-1°-18'-8
	-2164 Jan 12 j 20:01	15°♄		minimum elong	-2158 Jan 27 j 12:10	20°♄30'54	1°18'11
retrograde	-2164 Mar 15 j 07:28	17°♄57'53		max. Earth dist.	-2158 Jan 27 j 05:07	20°♄28'41	10.39994 AU
	-2164 May 20 j 17:11	15°♄		morning rise	-2158 Feb 13 j 19:50	22°♄41'09	
opposition	-2164 May 25 j 09:31	14°♄39'25	1°33'30		-2158 May 02 j 20:39	0°♄	
min. Earth dist.	-2164 May 25 j 21:21	14°♄37'14	9.07945 AU	retrograde	-2158 May 31 j 11:46	0°♄41'38	
direct	-2164 Aug 04 j 00:21	11°♄21'22			-2158 Jun 29 j 07:16	30°♄	
	-2164 Oct 12 j 05:36	15°♄		opposition	-2158 Aug 09 j 03:04	27°♄13'48	-1°-53'-15
evening set	-2164 Nov 12 j 00:50	18°♄18'34		min. Earth dist.	-2158 Aug 09 j 07:31	27°♄12'56	8.32942 AU
				direct	-2158 Oct 15 j 08:58	23°♄50'53	
conjunction	-2164 Nov 28 j 13:52	20°♄15'01	1°04'29		-2157 Jan 11 j 08:31	0°♄	
minimum elong	-2164 Nov 28 j 13:54	20°♄15'02	1°04'26	evening set	-2157 Jan 23 j 20:13	1°♄31'54	
max. Earth dist.	-2164 Nov 28 j 00:57	20°♄11'13	11.03696 AU				
morning rise	-2164 Dec 15 j 04:25	22°♄12'02		conjunction	-2157 Feb 10 j 02:35	3°♄43'34	-1°-42'-54
retrograde	-2163 Mar 27 j 10:27	29°♄19'43		minimum elong	-2157 Feb 10 j 02:32	3°♄43'33	1°42'57
opposition	-2163 Jun 06 j 13:03	25°♄59'52	1°02'49	max. Earth dist.	-2157 Feb 09 j 22:10	3°♄42'09	10.26121 AU
min. Earth dist.	-2163 Jun 07 j 00:10	25°♄57'49	8.98918 AU	morning rise	-2157 Feb 27 j 13:54	5°♄56'52	
direct	-2163 Aug 15 j 17:27	22°♄41'31		retrograde	-2157 Jun 14 j 21:10	14°♄08'48	
evening set	-2163 Nov 23 j 09:35	29°♄42'12		opposition	-2157 Aug 22 j 23:18	10°♄39'38	-2°-21'-30
	-2163 Nov 25 j 22:23	0°♄		min. Earth dist.	-2157 Aug 23 j 01:03	10°♄39'17	8.19673 AU
				direct	-2157 Oct 28 j 16:50	7°♄15'26	
conjunction	-2163 Dec 10 j 00:42	1°♄40'28	0°37'56		-2156 Feb 05 j 21:01	15°♄	
minimum elong	-2163 Dec 10 j 00:43	1°♄40'28	0°37'53	evening set	-2156 Feb 06 j 20:00	15°♄07'17	
max. Earth dist.	-2163 Dec 09 j 12:07	1°♄36'43	10.93661 AU				

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Attention, astronomical year style is used: The year -2156 in astronomical counting style is the year 2157 BCE in historical counting style.

conjunction	-2156 Feb 24 j 06:03	17°≈21'54	-2°-2'-41	morning rise	-2150 Jun 12 j 12:42	16°♁36'32	
minimum elong	-2156 Feb 24 j 06:00	17°≈21'53	2°02'43	retrograde	-2150 Sep 24 j 17:31	24°♁50'16	
max. Earth dist.	-2156 Feb 24 j 04:15	17°≈21'19	10.13529 AU	opposition	-2150 Nov 30 j 02:01	21°♁22'07	-1°-16'-36
morning rise	-2156 Mar 12 j 21:07	19°≈38'08		min. Earth dist.	-2150 Nov 29 j 15:22	21°♁24'20	8.02878 AU
retrograde	-2156 Jun 28 j 14:49	28°≈00'07		direct	-2149 Feb 05 j 05:20	17°♁52'20	
opposition	-2156 Sep 05 j 02:47	24°≈29'53	-2°-42'-32	evening set	-2149 May 22 j 09:05	26°♁09'36	
min. Earth dist.	-2156 Sep 05 j 02:08	24°≈30'01	8.08081 AU				
direct	-2156 Nov 10 j 09:50	21°≈04'24		conjunction	-2149 Jun 09 j 13:37	28°♁30'02	0°-45'-7
evening set	-2155 Feb 20 j 08:04	29°≈06'37		minimum elong	-2149 Jun 09 j 13:39	28°♁30'02	0°45'05
	-2155 Feb 27 j 05:11	0°♁		max. Earth dist.	-2149 Jun 10 j 03:29	28°♁34'31	10.07612 AU
					-2149 Jun 21 j 04:08	0°♁	
conjunction	-2155 Mar 09 j 22:03	1°♁23'59	-2°-15'-46	morning rise	-2149 Jun 27 j 15:37	0°♁49'37	
minimum elong	-2155 Mar 09 j 22:01	1°♁23'59	2°15'48	retrograde	-2149 Oct 08 j 18:01	8°♁52'16	
max. Earth dist.	-2155 Mar 09 j 23:28	1°♁24'27	10.03001 AU	opposition	-2149 Dec 14 j 03:10	5°♁25'42	0°-35'-46
morning rise	-2155 Mar 27 j 16:49	3°♁42'54		min. Earth dist.	-2149 Dec 13 j 17:15	5°♁27'44	8.12881 AU
retrograde	-2155 Jul 13 j 14:10	12°♁12'28		direct	-2148 Feb 19 j 21:34	1°♁56'12	
opposition	-2155 Sep 19 j 12:08	8°♁41'32	-2°-54'-17	evening set	-2148 Jun 05 j 06:23	10°♁07'10	
min. Earth dist.	-2155 Sep 19 j 09:14	8°♁42'08	7.98905 AU				
direct	-2155 Nov 24 j 12:10	5°♁14'50		conjunction	-2148 Jun 23 j 08:41	12°♁25'09	0°-11'-42
evening set	-2154 Mar 07 j 07:11	13°♁26'10		minimum elong	-2148 Jun 23 j 08:42	12°♁25'09	0°11'40
				behind sun begin	-2148 Jun 23 j 03:35	12°♁23'32	
conjunction	-2154 Mar 25 j 01:15	15°♁45'55	-2°-20'-48	behind sun end	-2148 Jun 23 j 13:48	12°♁26'46	
minimum elong	-2154 Mar 25 j 01:16	15°♁45'55	2°20'49	max. Earth dist.	-2148 Jun 23 j 21:12	12°♁29'09	10.18745 AU
max. Earth dist.	-2154 Mar 25 j 06:15	15°♁47'34	9.95234 AU	morning rise	-2148 Jul 11 j 07:26	14°♁41'59	
morning rise	-2154 Apr 11 j 23:27	18°♁06'59		retrograde	-2148 Oct 21 j 07:00	22°♁32'48	
retrograde	-2154 Jul 28 j 16:12	26°♁40'47		asc. node	-2148 Nov 02 j 00:02	22°♁25'10	
opposition	-2154 Oct 04 j 01:21	23°♁09'36	-2°-55'-17	opposition	-2148 Dec 26 j 21:20	19°♁07'58	0°06'01
min. Earth dist.	-2154 Oct 03 j 20:07	23°♁10'42	7.92761 AU	min. Earth dist.	-2148 Dec 26 j 12:34	19°♁09'44	8.24911 AU
direct	-2154 Dec 08 j 23:37	19°♁41'48		direct	-2147 Mar 05 j 08:12	15°♁39'02	
evening set	-2153 Mar 22 j 14:38	28°♁00'08		evening set	-2147 Jun 19 j 17:34	23°♁42'09	
	-2153 Apr 06 j 19:11	0°♁					
conjunction	-2153 Apr 09 j 12:40	0°♁21'43	-2°-16'-59	conjunction	-2147 Jul 07 j 16:12	25°♁57'06	0°21'38
minimum elong	-2153 Apr 09 j 12:42	0°♁21'44	2°16'59	minimum elong	-2147 Jul 07 j 16:11	25°♁57'06	0°21'41
max. Earth dist.	-2153 Apr 09 j 21:12	0°♁24'32	9.90774 AU	max. Earth dist.	-2147 Jul 08 j 02:38	26°♁00'23	10.31563 AU
morning rise	-2153 Apr 27 j 13:47	2°♁44'16		morning rise	-2147 Jul 25 j 10:34	28°♁10'40	
retrograde	-2153 Aug 12 j 17:15	11°♁18'24			-2147 Aug 09 j 14:05	0°♁	
opposition	-2153 Oct 18 j 16:34	7°♁47'24	-2°-44'-58	retrograde	-2147 Nov 03 j 10:22	5°♁49'45	
min. Earth dist.	-2153 Oct 18 j 08:57	7°♁48'59	7.90078 AU	opposition	-2146 Jan 09 j 08:08	2°♁26'36	0°46'12
direct	-2153 Dec 23 j 17:05	4°♁18'43		min. Earth dist.	-2146 Jan 09 j 00:18	2°♁28'10	8.38311 AU
evening set	-2152 Apr 06 j 02:52	12°♁41'10			-2146 Feb 12 j 10:10	30°♁	
				direct	-2146 Mar 19 j 11:21	28°♁58'30	
conjunction	-2152 Apr 24 j 04:22	15°♁03'50	-2°-4'-18		-2146 Apr 23 j 07:44	0°♁	
minimum elong	-2152 Apr 24 j 04:25	15°♁03'51	2°04'17	evening set	-2146 Jul 03 j 17:14	6°♁52'46	
max. Earth dist.	-2152 Apr 24 j 16:05	15°♁07'43	9.89929 AU				
morning rise	-2152 May 12 j 07:36	17°♁27'01		conjunction	-2146 Jul 21 j 11:08	9°♁04'20	0°52'53
retrograde	-2152 Aug 26 j 15:16	25°♁57'34		minimum elong	-2146 Jul 21 j 11:06	9°♁04'19	0°52'56
opposition	-2152 Nov 01 j 07:13	22°♁27'07	-2°-23'-51	max. Earth dist.	-2146 Jul 21 j 19:38	9°♁06'59	10.45365 AU
min. Earth dist.	-2152 Oct 31 j 21:29	22°♁29'10	7.91020 AU	morning rise	-2146 Aug 08 j 00:14	11°♁14'22	
direct	-2151 Jan 06 j 13:37	18°♁57'47		retrograde	-2146 Nov 16 j 05:25	18°♁42'24	
evening set	-2151 Apr 21 j 16:29	27°♁21'16		opposition	-2145 Jan 22 j 11:27	15°♁20'50	1°22'41
				min. Earth dist.	-2145 Jan 22 j 04:28	15°♁22'12	8.52359 AU
conjunction	-2151 May 09 j 20:30	29°♁44'07	-1°-43'-37	direct	-2145 Apr 02 j 05:26	11°♁53'46	
minimum elong	-2151 May 09 j 20:34	29°♁44'08	1°43'36	evening set	-2145 Jul 17 j 04:55	19°♁38'44	
max. Earth dist.	-2151 May 10 j 10:21	29°♁48'41	9.92702 AU				
	-2151 May 11 j 20:40	0°♁		conjunction	-2145 Aug 03 j 17:34	21°♁46'50	1°20'39
morning rise	-2151 May 28 j 00:46	2°♁07'00		minimum elong	-2145 Aug 03 j 17:31	21°♁46'49	1°20'42
retrograde	-2151 Sep 10 j 07:52	10°♁30'24		max. Earth dist.	-2145 Aug 04 j 00:31	21°♁48'58	10.59435 AU
opposition	-2151 Nov 15 j 18:52	7°♁00'55	-1°-53'-35	morning rise	-2145 Aug 21 j 01:02	23°♁53'21	
min. Earth dist.	-2151 Nov 15 j 08:06	7°♁03'10	7.95428 AU		-2145 Oct 22 j 17:53	0°♁	
direct	-2150 Jan 21 j 10:28	3°♁31'11		retrograde	-2145 Nov 28 j 15:05	1°♁11'23	
evening set	-2150 May 07 j 03:42	11°♁52'47			-2144 Jan 05 j 06:23	30°♁	
				opposition	-2144 Feb 04 j 07:28	27°♁51'15	1°54'00
conjunction	-2150 May 25 j 08:49	14°♁14'52	-1°-16'-31	min. Earth dist.	-2144 Feb 04 j 01:57	27°♁52'19	8.66347 AU
minimum elong	-2150 May 25 j 08:52	14°♁14'53	1°16'30	direct	-2144 Apr 14 j 15:19	24°♁25'20	
max. Earth dist.	-2150 May 25 j 23:13	14°♁19'35	9.98764 AU		-2144 Jul 11 j 14:56	0°♁	
	-2150 May 31 j 02:46	15°♁		evening set	-2144 Jul 29 j 04:47	2°♁01'04	

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Attention, astronomical year style is used: The year -2144 in astronomical counting style is the year 2145 BCE in historical counting style.

conjunction	-2144 Aug 15 j 12:00	4°♁05'49	1°43'54	max. Earth dist.	-2138 Oct 22 j 10:24	12°♁18'37	11.19290 AU
minimum elong	-2144 Aug 15 j 11:57	4°♁05'48	1°43'57	morning rise	-2138 Nov 08 j 04:41	14°♁14'41	
max. Earth dist.	-2144 Aug 15 j 17:06	4°♁07'22	10.73089 AU	retrograde	-2137 Feb 16 j 00:40	21°♁05'35	
morning rise	-2144 Sep 01 j 13:55	6°♁09'01		opposition	-2137 Apr 27 j 17:05	17°♁49'04	2°30'07
retrograde	-2144 Dec 09 j 18:08	13°♁18'23		min. Earth dist.	-2137 Apr 28 j 01:16	17°♁47'35	9.19373 AU
opposition	-2143 Feb 15 j 20:59	9°♁59'32	2°19'11	direct	-2137 Jul 08 j 03:34	14°♁30'34	
min. Earth dist.	-2143 Feb 15 j 17:55	10°♁00'07	8.79615 AU	evening set	-2137 Oct 17 j 08:43	21°♁25'51	
direct	-2143 Apr 27 j 16:16	6°♁34'49					
evening set	-2143 Aug 10 j 17:37	14°♁01'45		conjunction	-2137 Nov 02 j 19:14	23°♁19'47	1°55'44
	-2143 Aug 18 j 22:56	15°♁		minimum elong	-2137 Nov 02 j 19:16	23°♁19'48	1°55'43
				max. Earth dist.	-2137 Nov 02 j 09:32	23°♁16'57	11.18463 AU
conjunction	-2143 Aug 27 j 19:27	16°♁03'26	2°01'59	morning rise	-2137 Nov 19 j 05:08	25°♁13'36	
minimum elong	-2143 Aug 27 j 19:24	16°♁03'25	2°02'01				
max. Earth dist.	-2143 Aug 27 j 21:45	16°♁04'08	10.85718 AU	retrograde	-2136 Feb 27 j 15:38	2°♁07'10	
morning rise	-2143 Sep 13 j 16:22	18°♁03'41					
retrograde	-2143 Dec 21 j 14:18	25°♁05'54		opposition	-2136 May 08 j 12:45	28°♁50'07	2°10'29
opposition	-2142 Feb 28 j 04:43	21°♁48'05	2°37'42	min. Earth dist.	-2136 May 08 j 21:19	28°♁48'33	9.17159 AU
min. Earth dist.	-2142 Feb 28 j 04:11	21°♁48'11	8.91603 AU	direct	-2136 Jul 18 j 17:53	25°♁32'06	
direct	-2142 May 10 j 08:26	18°♁24'35					
evening set	-2142 Aug 22 j 20:22	25°♁43'26		evening set	-2136 Oct 27 j 08:56	2°♁26'47	
conjunction	-2142 Sep 08 j 17:21	27°♁42'28	2°14'32	conjunction	-2136 Nov 12 j 20:02	4°♁21'20	1°37'28
minimum elong	-2142 Sep 08 j 17:20	27°♁42'28	2°14'34	minimum elong	-2136 Nov 12 j 20:04	4°♁21'21	1°37'27
max. Earth dist.	-2142 Sep 08 j 16:29	27°♁42'13	10.96832 AU	max. Earth dist.	-2136 Nov 12 j 09:49	4°♁18'21	11.14966 AU
morning rise	-2142 Sep 25 j 10:06	29°♁40'16		morning rise	-2136 Nov 29 j 07:12	6°♁16'01	
	-2142 Sep 28 j 06:33	0°♁		retrograde	-2135 Mar 10 j 10:41	13°♁13'49	
retrograde	-2141 Jan 02 j 04:15	6°♁36'57		opposition	-2135 May 20 j 10:51	9°♁56'00	1°45'51
opposition	-2141 Mar 12 j 07:33	3°♁19'54	2°49'22	min. Earth dist.	-2135 May 20 j 20:07	9°♁54'19	9.12314 AU
min. Earth dist.	-2141 Mar 12 j 08:43	3°♁19'41	9.01852 AU	direct	-2135 Jul 30 j 06:09	6°♁38'16	
	-2141 May 15 j 17:15	30°♁♁		evening set	-2135 Nov 07 j 11:06	13°♁33'52	
direct	-2141 May 22 j 19:08	29°♁57'35					
	-2141 May 29 j 20:14	0°♁					
evening set	-2141 Sep 03 j 14:14	7°♁09'17		conjunction	-2135 Nov 23 j 23:16	15°♁29'30	1°15'22
				minimum elong	-2135 Nov 23 j 23:18	15°♁29'30	1°15'21
conjunction	-2141 Sep 20 j 07:21	9°♁06'12	2°21'28	max. Earth dist.	-2135 Nov 23 j 11:46	15°♁26'07	11.08918 AU
minimum elong	-2141 Sep 20 j 07:20	9°♁06'11	2°21'29	morning rise	-2135 Dec 10 j 12:37	17°♁25'32	
max. Earth dist.	-2141 Sep 20 j 04:28	9°♁05'21	11.06024 AU	retrograde	-2134 Mar 22 j 09:50	24°♁29'13	
morning rise	-2141 Oct 06 j 20:44	11°♁02'02		opposition	-2134 Jun 01 j 12:20	21°♁10'23	1°16'52
retrograde	-2140 Jan 13 j 17:32	17°♁54'50		min. Earth dist.	-2134 Jun 01 j 22:37	21°♁08'29	9.05004 AU
opposition	-2140 Mar 23 j 06:33	14°♁38'17	2°54'12	direct	-2134 Aug 10 j 20:53	17°♁52'37	
min. Earth dist.	-2140 Mar 23 j 08:59	14°♁37'50	9.09981 AU	evening set	-2134 Nov 18 j 17:11	24°♁50'46	
direct	-2140 Jun 02 j 22:33	11°♁17'08					
evening set	-2140 Sep 14 j 01:08	18°♁22'47		conjunction	-2134 Dec 05 j 07:04	26°♁47'55	0°50'03
				minimum elong	-2134 Dec 05 j 07:06	26°♁47'56	0°50'00
conjunction	-2140 Sep 30 j 15:17	20°♁18'07	2°22'50	max. Earth dist.	-2134 Dec 04 j 18:50	26°♁44'18	11.00514 AU
minimum elong	-2140 Sep 30 j 15:17	20°♁18'07	2°22'50	morning rise	-2134 Dec 21 j 23:10	28°♁45'46	
max. Earth dist.	-2140 Sep 30 j 11:05	20°♁16'53	11.12965 AU				
morning rise	-2140 Oct 17 j 02:10	22°♁12'35		retrograde	-2133 Jan 01 j 19:33	0°♁	
retrograde	-2139 Jan 24 j 03:54	29°♁03'06		opposition	-2133 Apr 03 j 16:19	5°♁56'51	
opposition	-2139 Apr 04 j 02:58	25°♁46'50	2°52'24	min. Earth dist.	-2133 Jun 13 j 17:56	2°♁36'46	0°44'19
min. Earth dist.	-2139 Apr 04 j 07:29	25°♁46'00	9.15716 AU				
direct	-2139 Jun 14 j 18:54	22°♁26'44		direct	-2133 Jul 24 j 08:46	30°♁♁	
evening set	-2139 Sep 25 j 06:44	29°♁27'34					
	-2139 Sep 30 j 00:06	0°♁		evening set	-2133 Aug 22 j 15:00	29°♁18'42	
conjunction	-2139 Oct 11 j 18:42	1°♁21'53	2°18'48	conjunction	-2133 Sep 20 j 07:54	0°♁	
minimum elong	-2139 Oct 11 j 18:43	1°♁21'53	2°18'47	evening set	-2133 Nov 30 j 04:56	6°♁21'02	
max. Earth dist.	-2139 Oct 11 j 12:07	1°♁19'58	11.17432 AU				
morning rise	-2139 Oct 28 j 04:16	3°♁15'34		conjunction	-2133 Dec 16 j 21:10	8°♁20'08	0°22'16
retrograde	-2138 Feb 04 j 14:21	10°♁05'27		minimum elong	-2133 Dec 16 j 21:11	8°♁20'08	0°22'13
opposition	-2138 Apr 15 j 22:11	6°♁49'13	2°44'15	max. Earth dist.	-2133 Dec 16 j 09:40	8°♁16'41	10.90015 AU
min. Earth dist.	-2138 Apr 16 j 04:56	6°♁47'59	9.18883 AU	morning rise	-2132 Jan 02 j 16:15	10°♁20'09	
direct	-2138 Jun 26 j 12:43	3°♁30'00		retrograde	-2132 Apr 15 j 06:11	17°♁40'07	
evening set	-2138 Oct 06 j 08:35	10°♁27'21		opposition	-2132 Jun 25 j 04:57	14°♁18'34	0°09'10
				min. Earth dist.	-2132 Jun 25 j 14:35	14°♁16'46	8.84014 AU
conjunction	-2138 Oct 22 j 19:18	12°♁21'12	2°09'40	direct	-2132 Sep 02 j 12:48	10°♁59'59	
minimum elong	-2138 Oct 22 j 19:20	12°♁21'12	2°09'38	desc. node	-2132 Sep 28 j 20:00	11°♁35'23	
				evening set	-2132 Dec 11 j 00:08	18°♁08'05	
conjunction	-2138 Oct 22 j 19:18	12°♁21'12	2°09'40	conjunction	-2132 Dec 27 j 19:01	20°♁09'28	0°-7'-7
minimum elong	-2138 Oct 22 j 19:20	12°♁21'12	2°09'38				

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Attention, astronomical year style is used: The year -2132 in astronomical counting style is the year 2133 BCE in historical counting style.

minimum elong	-2132 Dec 27 j 19:01	20°♁09'28	0°07'11	evening set	-2125 Feb 28 j 14:51	6°♁54'31		
behind sun begin	-2132 Dec 27 j 12:32	20°♁07'32						
behind sun end	-2132 Dec 28 j 01:30	20°♁11'25		conjunction	-2125 Mar 18 j 06:56	9°♁12'55	-2°-19'-34	
max. Earth dist.	-2132 Dec 27 j 08:26	20°♁06'17	10.77757 AU	minimum elong	-2125 Mar 18 j 06:55	9°♁12'55	2°19'35	
morning rise	-2131 Jan 13 j 17:21	22°♁12'00		max. Earth dist.	-2125 Mar 18 j 09:40	9°♁13'49	9.99766 AU	
retrograde	-2131 Apr 28 j 06:20	29°♁42'10		morning rise	-2125 Apr 05 j 03:11	11°♁32'44		
opposition	-2131 Jul 07 j 22:18	26°♁19'02	0°-27'-21	retrograde	-2125 Jul 21 j 21:58	20°♁04'00		
min. Earth dist.	-2131 Jul 08 j 06:46	26°♁17'25	8.71017 AU	opposition	-2125 Sep 27 j 13:43	16°♁32'51	-2°-56'-17	
direct	-2131 Sep 14 j 16:13	22°♁59'38		min. Earth dist.	-2125 Sep 27 j 10:00	16°♁33'37	7.96173 AU	
	-2131 Dec 21 j 02:25	0°♁		direct	-2125 Dec 02 j 13:18	13°♁05'29		
evening set	-2131 Dec 23 j 04:50	0°♁15'08		evening set	-2124 Mar 14 j 17:29	21°♁19'53		
conjunction	-2130 Jan 09 j 02:34	2°♁19'06	0°-36'-49	conjunction	-2124 Apr 01 j 13:33	23°♁40'29	-2°-20'-1	
minimum elong	-2130 Jan 09 j 02:32	2°♁19'06	0°36'52	minimum elong	-2124 Apr 01 j 13:35	23°♁40'30	2°20'02	
max. Earth dist.	-2130 Jan 08 j 16:02	2°♁15'52	10.64160 AU	max. Earth dist.	-2124 Apr 01 j 19:24	23°♁42'25	9.93022 AU	
morning rise	-2130 Jan 26 j 04:32	4°♁24'27		morning rise	-2124 Apr 19 j 13:05	26°♁02'14		
retrograde	-2130 May 11 j 15:51	12°♁05'51			-2124 May 22 j 05:10	0°♁		
opposition	-2130 Jul 20 j 22:41	8°♁41'05	-1°-3'-49	retrograde	-2124 Aug 04 j 23:18	4°♁36'03		
min. Earth dist.	-2130 Jul 21 j 06:27	8°♁39'35	8.56950 AU	opposition	-2124 Oct 11 j 03:23	1°♁04'40	-2°-51'-24	
direct	-2130 Sep 27 j 00:50	5°♁20'37		min. Earth dist.	-2124 Oct 10 j 21:36	1°♁05'52	7.91125 AU	
evening set	-2129 Jan 04 j 20:26	12°♁45'05			-2124 Oct 24 j 06:43	30°♁		
conjunction	-2129 Jan 21 j 21:18	14°♁51'54	-1°-5'-39	direct	-2124 Dec 16 j 02:31	27°♁36'05		
minimum elong	-2129 Jan 21 j 21:15	14°♁51'54	1°05'42		-2123 Feb 05 j 13:35	0°♁		
max. Earth dist.	-2129 Jan 21 j 11:27	14°♁48'50	10.49766 AU	evening set	-2123 Mar 30 j 02:51	5°♁56'22		
morning rise	-2129 Feb 08 j 03:04	17°♁00'16		conjunction	-2123 Apr 17 j 02:41	8°♁18'33	-2°-11'-32	
retrograde	-2129 May 25 j 09:48	24°♁53'34		minimum elong	-2123 Apr 17 j 02:44	8°♁18'34	2°11'32	
opposition	-2129 Aug 03 j 06:44	21°♁27'11	-1°-38'-26	max. Earth dist.	-2123 Apr 17 j 11:12	8°♁21'22	9.89741 AU	
min. Earth dist.	-2129 Aug 03 j 13:31	21°♁25'51	8.42454 AU	morning rise	-2123 May 05 j 04:58	10°♁41'29		
direct	-2129 Oct 09 j 18:42	18°♁05'29		retrograde	-2123 Aug 19 j 22:52	19°♁13'57		
evening set	-2128 Jan 18 j 00:04	25°♁40'07		opposition	-2123 Oct 25 j 17:57	15°♁42'48	-2°-35'-22	
conjunction	-2128 Feb 04 j 04:24	27°♁49'56	-1°-32'-1	min. Earth dist.	-2123 Oct 25 j 10:39	15°♁44'20	7.89639 AU	
minimum elong	-2128 Feb 04 j 04:21	27°♁49'55	1°32'04	direct	-2123 Dec 30 j 20:51	12°♁13'16		
max. Earth dist.	-2128 Feb 03 j 20:48	27°♁47'31	10.35306 AU	evening set	-2122 Apr 14 j 15:45	20°♁36'32		
morning rise	-2128 Feb 21 j 13:52	0°♁01'22		conjunction	-2122 May 02 j 18:34	22°♁59'27	-1°-54'-33	
	-2128 Feb 21 j 09:27	0°♁		minimum elong	-2122 May 02 j 18:38	22°♁59'28	1°54'32	
retrograde	-2128 Jun 07 j 12:49	8°♁06'33		max. Earth dist.	-2122 May 03 j 05:05	23°♁02'56	9.90127 AU	
opposition	-2128 Aug 15 j 22:32	4°♁38'37	-2°-9'-8	morning rise	-2122 May 20 j 22:36	25°♁22'41		
min. Earth dist.	-2128 Aug 16 j 03:19	4°♁37'40	8.28328 AU		-2122 Jun 28 j 19:11	0°♁		
direct	-2128 Oct 21 j 22:50	1°♁15'32		retrograde	-2122 Sep 03 j 18:09	3°♁50'02		
evening set	-2127 Jan 30 j 16:35	9°♁00'55		opposition	-2122 Nov 09 j 07:00	0°♁19'34	-2°-9'-16	
conjunction	-2127 Feb 17 j 00:41	11°♁13'47	-1°-54'-15	min. Earth dist.	-2122 Nov 08 j 22:30	0°♁21'21	7.91805 AU	
minimum elong	-2127 Feb 17 j 00:38	11°♁13'46	1°54'18	direct	-2122 Nov 13 j 04:36	30°♁		
max. Earth dist.	-2127 Feb 16 j 20:31	11°♁12'26	10.21614 AU		-2121 Jan 14 j 17:54	26°♁49'24		
morning rise	-2127 Mar 06 j 13:48	13°♁28'16		evening set	-2121 Mar 16 j 04:38	0°♁		
	-2127 Mar 18 j 22:49	15°♁			-2121 Apr 30 j 04:13	5°♁12'35		
retrograde	-2127 Jun 22 j 01:43	21°♁44'23		conjunction	-2121 May 18 j 08:53	7°♁35'17	-1°-30'-17	
opposition	-2127 Aug 29 j 21:39	18°♁15'02	-2°-33'-43	minimum elong	-2121 May 18 j 08:57	7°♁35'18	1°30'16	
min. Earth dist.	-2127 Aug 29 j 23:37	18°♁14'39	8.15403 AU	max. Earth dist.	-2121 May 18 j 20:58	7°♁39'15	9.94138 AU	
	-2127 Oct 22 j 10:17	15°♁		morning rise	-2121 Jun 05 j 13:21	9°♁57'50		
direct	-2127 Nov 04 j 10:36	14°♁50'30			-2121 Jul 18 j 20:41	15°♁		
	-2127 Nov 17 j 08:43	15°♁		retrograde	-2121 Sep 18 j 06:49	18°♁16'57		
evening set	-2126 Feb 13 j 21:50	22°♁46'38			-2121 Nov 21 j 04:53	15°♁		
conjunction	-2126 Mar 03 j 09:55	25°♁02'24	-2°-10'-37	opposition	-2121 Nov 23 j 16:34	14°♁47'35	-1°-35'-9	
minimum elong	-2126 Mar 03 j 09:52	25°♁02'24	2°10'39	min. Earth dist.	-2121 Nov 23 j 06:51	14°♁49'36	7.97462 AU	
max. Earth dist.	-2126 Mar 03 j 09:21	25°♁02'13	10.09515 AU	direct	-2120 Jan 29 j 14:57	11°♁17'09		
morning rise	-2126 Mar 21 j 02:40	27°♁19'45			-2120 Apr 05 j 00:07	15°♁		
	-2126 Apr 11 j 21:06	0°♁		evening set	-2120 May 14 j 12:36	19°♁37'18		
retrograde	-2126 Jul 06 j 21:39	5°♁44'52		conjunction	-2120 Jun 01 j 17:40	21°♁58'49	-1°00'-39	
opposition	-2126 Sep 13 j 03:12	2°♁14'25	-2°-50'-2	minimum elong	-2120 Jun 01 j 17:43	21°♁58'50	1°00'38	
min. Earth dist.	-2126 Sep 13 j 02:05	2°♁14'39	8.04452 AU	max. Earth dist.	-2120 Jun 02 j 06:49	22°♁03'06	10.01473 AU	
	-2126 Oct 12 j 23:35	30°♁		morning rise	-2120 Jun 19 j 21:03	24°♁19'44		
direct	-2126 Nov 18 j 07:25	28°♁48'25			-2120 Aug 09 j 16:13	0°♁		
	-2126 Dec 24 j 02:07	0°♁		retrograde	-2120 Oct 01 j 10:57	2°♁28'25		

Planetary Phenomena of Saturn from -2400 through -1900 (UT), Astrodienst AG 14-Nov-2015 16:07, page 24

Attention, astronomical year style is used: The year -2120 in astronomical counting style is the year 2121 BCE in historical counting style.

	-2120 Nov 24 j 16:29	30°R♄		retrograde	-2114 Dec 16 j 10:23	19°♄47'25	
opposition	-2120 Dec 06 j 20:49	29°♄00'26	0°-55'-45	opposition	-2113 Feb 22 j 19:09	16°♄29'19	2°29'39
min. Earth dist.	-2120 Dec 06 j 10:18	29°♄02'37	8.06208 AU	min. Earth dist.	-2113 Feb 22 j 15:50	16°♄29'57	8.86182 AU
direct	-2119 Feb 12 j 09:34	25°♄30'09			-2113 Mar 15 j 02:38	15°R♄	
	-2119 Apr 27 j 22:13	0°♄		direct	-2113 May 04 j 18:53	13°♄05'32	
evening set	-2119 May 29 j 14:14	3°♄44'50		evening set	-2113 Jun 23 j 07:42	15°♄	
					-2113 Aug 17 j 13:41	20°♄28'26	
conjunction	-2119 Jun 16 j 18:00	6°♄04'16	0°-27'-54	conjunction	-2113 Sep 03 j 13:04	22°♄28'43	2°09'11
minimum elong	-2119 Jun 16 j 18:01	6°♄04'16	0°27'52	minimum elong	-2113 Sep 03 j 13:02	22°♄28'42	2°09'13
max. Earth dist.	-2119 Jun 17 j 07:23	6°♄08'34	10.11611 AU	max. Earth dist.	-2113 Sep 03 j 15:20	22°♄29'23	10.92031 AU
morning rise	-2119 Jul 04 j 18:41	8°♄22'42		morning rise	-2113 Sep 20 j 07:41	24°♄27'38	
retrograde	-2119 Oct 15 j 05:17	16°♄19'42			-2113 Nov 16 j 12:00	0°♄	
opposition	-2119 Dec 20 j 18:25	12°♄53'23	0°-14'-2	retrograde	-2113 Dec 28 j 04:47	1°♄27'01	
min. Earth dist.	-2119 Dec 20 j 07:51	12°♄55'33	8.17459 AU		-2112 Feb 09 j 02:08	30°R♄	
direct	-2118 Feb 26 j 22:22	9°♄23'36		opposition	-2112 Mar 06 j 00:32	28°♄09'59	2°44'34
asc. node	-2118 Apr 27 j 02:17	12°♄17'25		min. Earth dist.	-2112 Mar 05 j 23:48	28°♄10'08	8.97635 AU
evening set	-2118 Jun 13 j 06:35	17°♄30'59		direct	-2112 May 16 j 07:55	24°♄47'33	
					-2112 Aug 10 j 03:31	0°♄	
conjunction	-2118 Jul 01 j 07:24	19°♄47'37	0°05'49	evening set	-2112 Aug 28 j 12:20	2°♄02'47	
minimum elong	-2118 Jul 01 j 07:23	19°♄47'37	0°05'51				
behind sun begin	-2118 Jul 01 j 00:25	19°♄45'25		conjunction	-2112 Sep 14 j 07:19	4°♄00'40	2°18'47
behind sun end	-2118 Jul 01 j 14:21	19°♄49'48		minimum elong	-2112 Sep 14 j 07:18	4°♄00'39	2°18'49
max. Earth dist.	-2118 Jul 01 j 20:20	19°♄51'43	10.23895 AU	max. Earth dist.	-2112 Sep 14 j 06:35	4°♄00'27	11.02468 AU
morning rise	-2118 Jul 19 j 04:02	22°♄02'56		morning rise	-2112 Sep 30 j 22:06	5°♄57'21	
retrograde	-2118 Oct 28 j 14:57	29°♄48'00		retrograde	-2111 Jan 07 j 19:03	12°♄51'58	
opposition	-2117 Jan 03 j 08:58	26°♄23'29	0°27'14	opposition	-2111 Mar 18 j 01:50	9°♄35'42	2°52'36
min. Earth dist.	-2117 Jan 02 j 23:17	26°♄25'26	8.30526 AU	min. Earth dist.	-2111 Mar 18 j 04:00	9°♄35'18	9.07049 AU
direct	-2117 Mar 13 j 03:52	22°♄54'31		direct	-2111 May 28 j 13:46	6°♄14'29	
	-2117 Jun 20 j 03:59	0°♄		evening set	-2111 Sep 09 j 03:02	13°♄23'04	
evening set	-2117 Jun 27 j 11:49	0°♄53'21					
				conjunction	-2111 Sep 25 j 18:22	15°♄19'05	2°22'45
conjunction	-2117 Jul 15 j 08:20	3°♄06'43	0°38'13	minimum elong	-2111 Sep 25 j 18:21	15°♄19'05	2°22'46
minimum elong	-2117 Jul 15 j 08:18	3°♄06'43	0°38'16	max. Earth dist.	-2111 Sep 25 j 14:11	15°♄17'51	11.10674 AU
max. Earth dist.	-2117 Jul 15 j 19:54	3°♄10'21	10.37590 AU	morning rise	-2111 Oct 12 j 06:23	17°♄14'07	
morning rise	-2117 Aug 02 j 00:01	5°♄18'35		retrograde	-2110 Jan 19 j 05:10	24°♄05'39	
retrograde	-2117 Nov 10 j 14:50	12°♄52'07		opposition	-2110 Mar 29 j 23:55	20°♄49'47	2°53'52
opposition	-2116 Jan 16 j 15:59	9°♄29'25	1°05'45	min. Earth dist.	-2110 Mar 30 j 04:15	20°♄48'59	9.14029 AU
min. Earth dist.	-2116 Jan 16 j 08:03	9°♄31'00	8.44660 AU	direct	-2110 Jun 09 j 15:03	17°♄29'40	
direct	-2116 Mar 26 j 01:39	6°♄01'32		evening set	-2110 Sep 20 j 11:25	24°♄32'51	
evening set	-2116 Jul 10 j 05:32	13°♄51'15					
				conjunction	-2110 Oct 07 j 00:15	26°♄27'33	2°21'13
conjunction	-2116 Jul 27 j 20:51	16°♄01'07	1°07'50	minimum elong	-2110 Oct 07 j 00:15	26°♄27'34	2°21'13
minimum elong	-2116 Jul 27 j 20:48	16°♄01'06	1°07'52	max. Earth dist.	-2110 Oct 06 j 17:51	26°♄25'42	11.16310 AU
max. Earth dist.	-2116 Jul 28 j 05:43	16°♄03'51	10.51944 AU	morning rise	-2110 Oct 23 j 10:25	28°♄21'33	
morning rise	-2116 Aug 14 j 07:07	18°♄09'25			-2110 Nov 07 j 05:17	0°♄	
retrograde	-2116 Nov 22 j 03:54	25°♄32'20		retrograde	-2109 Jan 30 j 17:23	5°♄11'44	
opposition	-2115 Jan 28 j 15:32	22°♄11'23	1°39'43	opposition	-2109 Apr 10 j 19:52	1°♄55'57	2°48'39
min. Earth dist.	-2115 Jan 28 j 09:22	22°♄12'36	8.59107 AU	min. Earth dist.	-2109 Apr 11 j 01:43	1°♄54'53	9.18293 AU
direct	-2115 Apr 08 j 16:24	18°♄44'46			-2109 May 09 j 00:54	30°R♄	
evening set	-2115 Jul 23 j 11:28	26°♄25'14		direct	-2109 Jun 21 j 12:03	28°♄36'46	
					-2109 Aug 02 j 19:03	0°♄	
conjunction	-2115 Aug 09 j 21:13	28°♄31'38	1°33'22	evening set	-2109 Oct 01 j 15:16	5°♄35'52	
minimum elong	-2115 Aug 09 j 21:10	28°♄31'37	1°33'24				
max. Earth dist.	-2115 Aug 10 j 03:17	28°♄33'28	10.66230 AU	conjunction	-2109 Oct 18 j 02:38	7°♄29'54	2°14'25
	-2115 Aug 22 j 00:19	0°♄		minimum elong	-2109 Oct 18 j 02:39	7°♄29'55	2°14'24
morning rise	-2115 Aug 27 j 01:58	0°♄36'28		max. Earth dist.	-2109 Oct 17 j 18:42	7°♄27'36	11.19176 AU
retrograde	-2115 Dec 04 j 10:16	7°♄50'04		morning rise	-2109 Nov 03 j 11:54	9°♄23'26	
opposition	-2114 Feb 10 j 08:23	4°♄30'40	2°07'55	retrograde	-2108 Feb 11 j 04:16	16°♄13'56	
min. Earth dist.	-2114 Feb 10 j 03:36	4°♄31'36	8.73158 AU	opposition	-2108 Apr 21 j 15:11	12°♄57'57	2°37'16
direct	-2114 Apr 21 j 22:22	1°♄05'28		min. Earth dist.	-2108 Apr 21 j 22:51	12°♄56'33	9.19730 AU
evening set	-2114 Aug 05 j 05:47	8°♄36'51		direct	-2108 Jul 02 j 02:47	9°♄39'29	
				evening set	-2108 Oct 11 j 16:36	16°♄35'55	
conjunction	-2114 Aug 22 j 10:08	10°♄40'00	1°53'59				
minimum elong	-2114 Aug 22 j 10:05	10°♄39'59	1°54'01	conjunction	-2108 Oct 28 j 03:10	18°♄29'48	2°02'41
max. Earth dist.	-2114 Aug 22 j 14:06	10°♄41'12	10.79786 AU	minimum elong	-2108 Oct 28 j 03:13	18°♄29'49	2°02'39
morning rise	-2114 Sep 08 j 09:32	12°♄41'40		max. Earth dist.	-2108 Oct 27 j 17:01	18°♄26'51	11.19232 AU
	-2114 Sep 28 j 18:35	15°♄					

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Attention, astronomical year style is used: The year -2108 in astronomical counting style is the year 2109 BCE in historical counting style.

morning rise	-2108 Nov 13 j 12:38	20°♁23'27		conjunction	-2101 Jan 03 j 20:02	26°♁58'17	0°-23'-11
retrograde	-2107 Feb 21 j 17:19	27°♁15'55		minimum elong	-2101 Jan 03 j 20:01	26°♁58'16	0°23'15
opposition	-2107 May 03 j 11:01	23°♁59'25	2°20'09	max. Earth dist.	-2101 Jan 03 j 08:52	26°♁54'52	10.68439 AU
min. Earth dist.	-2107 May 03 j 20:52	23°♁57'37	9.18363 AU	morning rise	-2101 Jan 20 j 20:28	29°♁02'32	
direct	-2107 Jul 13 j 17:56	20°♁41'21			-2101 Jan 28 j 22:37	0°♁	
evening set	-2107 Oct 22 j 17:04	27°♁36'34		retrograde	-2101 May 05 j 19:51	6°♁39'19	
				opposition	-2101 Jul 15 j 08:35	3°♁14'38	0°-47'-13
conjunction	-2107 Nov 08 j 03:42	29°♁30'51	1°46'22	min. Earth dist.	-2101 Jul 15 j 17:19	3°♁12'58	8.61397 AU
minimum elong	-2107 Nov 08 j 03:45	29°♁30'52	1°46'21		-2101 Sep 11 j 02:52	30°♁	
max. Earth dist.	-2107 Nov 07 j 15:34	29°♁27'19	11.16545 AU	direct	-2101 Sep 21 j 19:03	29°♁54'00	
	-2107 Nov 12 j 07:40	0°♁			-2101 Oct 02 j 09:32	0°♁	
morning rise	-2107 Nov 24 j 14:20	1°♁25'10		evening set	-2101 Dec 30 j 10:04	7°♁14'53	
retrograde	-2106 Mar 05 j 09:18	8°♁21'11					
opposition	-2106 May 15 j 08:23	5°♁03'49	1°57'46	conjunction	-2100 Jan 16 j 09:40	9°♁20'36	0°-52'-38
min. Earth dist.	-2106 May 15 j 19:14	5°♁01'50	9.14290 AU	minimum elong	-2100 Jan 16 j 09:37	9°♁20'35	0°52'41
direct	-2106 Jul 25 j 07:53	1°♁45'56		max. Earth dist.	-2100 Jan 16 j 00:39	9°♁17'48	10.54370 AU
evening set	-2106 Nov 02 j 18:19	8°♁41'23		morning rise	-2100 Feb 02 j 13:37	11°♁27'46	
				retrograde	-2100 May 18 j 10:12	19°♁16'14	
conjunction	-2106 Nov 19 j 05:59	10°♁36'34	1°25'59	opposition	-2100 Jul 27 j 13:17	15°♁49'53	-1°-22'-58
minimum elong	-2106 Nov 19 j 06:02	10°♁36'34	1°25'57	min. Earth dist.	-2100 Jul 27 j 19:35	15°♁48'39	8.47160 AU
max. Earth dist.	-2106 Nov 18 j 17:40	10°♁32'57	11.11219 AU	direct	-2100 Oct 03 j 09:07	12°♁28'09	
morning rise	-2106 Dec 05 j 18:23	12°♁32'02		evening set	-2099 Jan 11 j 08:06	19°♁58'34	
	-2106 Dec 28 j 05:58	15°♁					
retrograde	-2105 Mar 17 j 06:28	19°♁33'15		conjunction	-2099 Jan 28 j 10:56	22°♁07'12	-1°-20'-22
opposition	-2105 May 27 j 08:20	16°♁14'44	1°30'44	minimum elong	-2099 Jan 28 j 10:53	22°♁07'12	1°20'25
min. Earth dist.	-2105 May 27 j 19:07	16°♁12'45	9.07648 AU	max. Earth dist.	-2099 Jan 28 j 03:50	22°♁04'58	10.40079 AU
	-2105 Jun 13 j 17:12	15°♁		morning rise	-2099 Feb 14 j 18:36	24°♁17'25	
direct	-2105 Aug 05 j 23:23	12°♁56'45			-2099 Apr 09 j 07:13	0°♁	
	-2105 Sep 25 j 21:25	15°♁		retrograde	-2099 Jun 01 j 10:43	2°♁17'48	
evening set	-2105 Nov 13 j 22:34	19°♁54'01			-2099 Jul 26 j 00:08	30°♁	
				opposition	-2099 Aug 10 j 01:47	28°♁49'54	-1°-55'-46
conjunction	-2105 Nov 30 j 11:49	21°♁50'34	1°02'04	min. Earth dist.	-2099 Aug 10 j 05:56	28°♁49'05	8.33070 AU
minimum elong	-2105 Nov 30 j 11:51	21°♁50'35	1°02'01	direct	-2099 Oct 16 j 07:26	25°♁26'56	
max. Earth dist.	-2105 Nov 29 j 23:37	21°♁46'58	11.03426 AU		-2099 Dec 29 j 09:16	0°♁	
morning rise	-2105 Dec 17 j 02:29	23°♁47'39		evening set	-2098 Jan 24 j 18:55	3°♁07'50	
	-2104 Feb 23 j 08:13	0°♁					
retrograde	-2104 Mar 28 j 10:56	0°♁55'36		conjunction	-2098 Feb 11 j 01:15	5°♁19'27	-1°-44'-43
	-2104 May 02 j 03:17	30°♁		minimum elong	-2098 Feb 11 j 01:12	5°♁19'26	1°44'46
opposition	-2104 Jun 07 j 12:01	27°♁35'44	0°59'43	max. Earth dist.	-2098 Feb 10 j 20:10	5°♁17'50	10.26283 AU
min. Earth dist.	-2104 Jun 07 j 22:34	27°♁33'47	8.98671 AU	morning rise	-2098 Feb 28 j 12:44	7°♁32'44	
direct	-2104 Aug 16 j 15:31	24°♁17'26			-2098 May 17 j 11:43	15°♁	
	-2104 Nov 12 j 22:29	0°♁		retrograde	-2098 Jun 15 j 20:29	15°♁44'27	
evening set	-2104 Nov 24 j 07:41	1°♁18'09			-2098 Jul 15 j 07:22	15°♁	
				opposition	-2098 Aug 23 j 21:48	12°♁15'14	-2°-23'-26
conjunction	-2104 Dec 10 j 22:50	3°♁16'28	0°35'19	min. Earth dist.	-2098 Aug 23 j 23:58	12°♁14'48	8.19870 AU
minimum elong	-2104 Dec 10 j 22:51	3°♁16'29	0°35'15	direct	-2098 Oct 29 j 14:33	8°♁50'57	
max. Earth dist.	-2104 Dec 10 j 09:58	3°♁12'38	10.93447 AU		-2097 Jan 24 j 23:23	15°♁	
morning rise	-2104 Dec 27 j 16:28	5°♁15'37		evening set	-2097 Feb 07 j 18:38	16°♁42'40	
retrograde	-2103 Apr 09 j 20:52	12°♁31'50					
opposition	-2103 Jun 19 j 20:49	9°♁10'28	0°25'37	conjunction	-2097 Feb 25 j 04:42	18°♁57'13	-2°-3'-58
min. Earth dist.	-2103 Jun 20 j 07:32	9°♁08'27	8.87688 AU	minimum elong	-2097 Feb 25 j 04:40	18°♁57'12	2°04'00
direct	-2103 Aug 28 j 10:12	5°♁51'35		max. Earth dist.	-2097 Feb 25 j 02:21	18°♁56'28	10.13753 AU
evening set	-2103 Dec 05 j 23:20	12°♁57'26		morning rise	-2097 Mar 14 j 19:56	21°♁13'26	
				retrograde	-2097 Jun 30 j 13:10	29°♁35'05	
conjunction	-2103 Dec 22 j 16:53	14°♁57'54	0°06'36	opposition	-2097 Sep 07 j 00:54	26°♁04'50	-2°-43'-46
minimum elong	-2103 Dec 22 j 16:53	14°♁57'54	0°06'33	min. Earth dist.	-2097 Sep 07 j 00:57	26°♁04'49	8.08326 AU
behind sun begin	-2103 Dec 22 j 10:18	14°♁55'56		direct	-2097 Nov 12 j 08:22	22°♁39'16	
behind sun end	-2103 Dec 22 j 23:29	14°♁59'52			-2096 Feb 16 j 20:35	0°♁	
max. Earth dist.	-2103 Dec 22 j 04:10	14°♁54'04	10.81642 AU	evening set	-2096 Feb 22 j 06:28	0°♁41'20	
morning rise	-2102 Jan 08 j 13:54	16°♁59'27					
desc. node	-2102 Mar 16 j 06:03	23°♁17'52		conjunction	-2096 Mar 10 j 20:34	2°♁58'38	-2°-16'-27
retrograde	-2102 Apr 22 j 15:25	24°♁25'23		minimum elong	-2096 Mar 10 j 20:33	2°♁58'38	2°16'29
opposition	-2102 Jul 02 j 11:27	21°♁02'23	0°-10'-28	max. Earth dist.	-2096 Mar 10 j 22:00	2°♁59'07	10.03259 AU
min. Earth dist.	-2102 Jul 02 j 21:43	21°♁00'26	8.75101 AU	morning rise	-2096 Mar 28 j 15:23	5°♁17'29	
direct	-2102 Sep 09 j 12:14	17°♁42'42		retrograde	-2096 Jul 14 j 11:13	13°♁46'41	
evening set	-2102 Dec 17 j 23:35	24°♁55'18		opposition	-2096 Sep 20 j 09:50	10°♁15'45	-2°-54'-43
				min. Earth dist.	-2096 Sep 20 j 07:11	10°♁16'17	7.99174 AU

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Attention, astronomical year style is used: The year -2096 in astronomical counting style is the year 2097 BCE in historical counting style.

direct	-2096 Nov 25 j 11:33	6°♃48'59		conjunction	-2089 Jun 25 j 05:08	13°♃55'07	0°-9'-18
evening set	-2095 Mar 08 j 05:16	15°♃00'07		minimum elong	-2089 Jun 25 j 05:08	13°♃55'07	0°09'17
				behind sun begin	-2089 Jun 24 j 23:01	13°♃53'11	
conjunction	-2095 Mar 25 j 23:33	17°♃19'50	-2°-20'-50	behind sun end	-2089 Jun 25 j 11:15	13°♃57'03	
minimum elong	-2095 Mar 25 j 23:33	17°♃19'50	2°20'51	max. Earth dist.	-2089 Jun 25 j 16:33	13°♃58'45	10.19142 AU
max. Earth dist.	-2095 Mar 26 j 05:00	17°♃21'38	9.95508 AU	morning rise	-2089 Jul 13 j 03:49	16°♃11'50	
morning rise	-2095 Apr 12 j 21:44	19°♃40'50		asc. node	-2089 Oct 07 j 17:30	23°♃49'06	
retrograde	-2095 Jul 29 j 12:13	28°♃14'15		retrograde	-2089 Oct 23 j 02:12	24°♃02'20	
opposition	-2095 Oct 04 j 22:39	24°♃43'04	-2°-54'-55	opposition	-2089 Dec 28 j 17:02	20°♃37'33	0°08'59
min. Earth dist.	-2095 Oct 04 j 17:10	24°♃44'12	7.93037 AU	min. Earth dist.	-2089 Dec 28 j 08:22	20°♃39'18	8.25267 AU
direct	-2095 Dec 09 j 21:49	21°♃15'14		direct	-2088 Mar 06 j 04:26	17°♃08'39	
evening set	-2094 Mar 23 j 12:29	29°♃33'20		evening set	-2088 Jun 20 j 13:46	25°♃11'36	
	-2094 Mar 26 j 22:22	0°♃					
conjunction	-2094 Apr 10 j 10:45	1°♃54'55	-2°-16'-22	conjunction	-2088 Jul 08 j 12:16	27°♃26'29	0°23'59
minimum elong	-2094 Apr 10 j 10:47	1°♃54'55	2°16'23	minimum elong	-2088 Jul 08 j 12:15	27°♃26'28	0°24'02
max. Earth dist.	-2094 Apr 10 j 19:49	1°♃57'55	9.91047 AU	max. Earth dist.	-2088 Jul 08 j 22:12	27°♃29'36	10.31857 AU
morning rise	-2094 Apr 28 j 11:50	4°♃17'24		morning rise	-2088 Jul 26 j 06:29	29°♃39'57	
retrograde	-2094 Aug 13 j 13:47	12°♃51'10			-2088 Jul 28 j 23:43	0°♃	
opposition	-2094 Oct 19 j 13:28	9°♃20'10	-2°-43'-48	retrograde	-2088 Nov 04 j 06:16	7°♃18'52	
min. Earth dist.	-2094 Oct 19 j 05:28	9°♃21'50	7.90345 AU	opposition	-2087 Jan 10 j 03:43	3°♃55'45	0°49'01
direct	-2094 Dec 24 j 13:30	5°♃51'28		min. Earth dist.	-2087 Jan 09 j 19:34	3°♃57'23	8.38535 AU
evening set	-2093 Apr 08 j 00:36	14°♃13'45		direct	-2087 Mar 20 j 07:02	0°♃27'43	
				evening set	-2087 Jul 04 j 13:19	8°♃21'56	
conjunction	-2093 Apr 26 j 02:15	16°♃36'24	-2°-3'-5	conjunction	-2087 Jul 22 j 07:09	10°♃33'27	0°55'05
minimum elong	-2093 Apr 26 j 02:18	16°♃36'25	2°03'05	minimum elong	-2087 Jul 22 j 07:06	10°♃33'27	0°55'07
max. Earth dist.	-2093 Apr 26 j 14:20	16°♃40'25	9.90193 AU	max. Earth dist.	-2087 Jul 22 j 15:51	10°♃36'10	10.45509 AU
morning rise	-2093 May 14 j 05:26	18°♃59'33		morning rise	-2087 Aug 08 j 19:57	12°♃43'26	
retrograde	-2093 Aug 28 j 12:55	27°♃29'43		retrograde	-2087 Nov 17 j 00:50	20°♃11'26	
opposition	-2093 Nov 03 j 03:50	23°♃59'20	-2°-21'-59	opposition	-2086 Jan 23 j 07:03	16°♃49'55	1°25'15
min. Earth dist.	-2093 Nov 02 j 17:59	24°♃01'23	7.91282 AU	min. Earth dist.	-2086 Jan 23 j 00:15	16°♃51'15	8.52420 AU
direct	-2092 Jan 08 j 09:27	20°♃29'59		direct	-2086 Apr 03 j 01:30	13°♃22'53	
evening set	-2092 Apr 22 j 14:00	28°♃53'22		evening set	-2086 Jul 18 j 01:03	21°♃07'58	
	-2092 May 01 j 02:36	0°♃					
conjunction	-2092 May 10 j 18:03	1°♃16'11	-1°-41'-54	conjunction	-2086 Aug 04 j 13:32	23°♃16'01	1°22'36
minimum elong	-2092 May 10 j 18:07	1°♃16'12	1°41'53	minimum elong	-2086 Aug 04 j 13:29	23°♃16'00	1°22'38
max. Earth dist.	-2092 May 11 j 07:57	1°♃20'46	9.92981 AU	max. Earth dist.	-2086 Aug 04 j 20:35	23°♃18'11	10.59408 AU
morning rise	-2092 May 28 j 22:17	3°♃39'02		morning rise	-2086 Aug 21 j 20:41	25°♃22'30	
retrograde	-2092 Sep 11 j 05:46	12°♃02'04			-2086 Oct 04 j 00:07	0°♃	
opposition	-2092 Nov 16 j 15:21	8°♃32'40	-1°-51'-10	retrograde	-2086 Nov 29 j 11:58	2°♃40'39	
min. Earth dist.	-2092 Nov 16 j 04:54	8°♃34'50	7.95735 AU		-2085 Jan 27 j 15:00	30°♃R♃	
direct	-2091 Jan 22 j 06:47	5°♃02'56		opposition	-2085 Feb 05 j 03:27	29°♃20'35	1°56'13
evening set	-2091 May 08 j 00:56	13°♃24'24		min. Earth dist.	-2085 Feb 04 j 22:45	29°♃21'30	8.66242 AU
	-2091 May 20 j 08:02	15°♃		direct	-2085 Apr 16 j 10:34	25°♃54'41	
conjunction	-2091 May 26 j 05:59	15°♃46'24	-1°-14'-25		-2085 Jun 29 j 07:42	0°♃	
minimum elong	-2091 May 26 j 06:03	15°♃46'26	1°14'24	evening set	-2085 Jul 31 j 00:55	3°♃30'36	
max. Earth dist.	-2091 May 26 j 20:01	15°♃51'00	9.99116 AU	conjunction	-2085 Aug 17 j 07:51	5°♃35'20	1°45'31
morning rise	-2091 Jun 13 j 09:53	18°♃08'01		minimum elong	-2085 Aug 17 j 07:47	5°♃35'19	1°45'33
retrograde	-2091 Sep 25 j 14:15	26°♃21'19		max. Earth dist.	-2085 Aug 17 j 12:15	5°♃36'40	10.72895 AU
opposition	-2091 Nov 30 j 22:15	22°♃53'15	-1°-13'-49	morning rise	-2085 Sep 03 j 09:35	7°♃38'31	
min. Earth dist.	-2091 Nov 30 j 12:15	22°♃55'19	8.03272 AU	retrograde	-2085 Dec 11 j 14:06	14°♃48'08	
direct	-2090 Feb 06 j 02:57	19°♃23'27		opposition	-2084 Feb 17 j 17:14	11°♃29'19	2°20'57
evening set	-2090 May 23 j 06:08	27°♃40'30		min. Earth dist.	-2084 Feb 17 j 14:58	11°♃29'45	8.79353 AU
				direct	-2084 Apr 28 j 11:36	8°♃04'36	
conjunction	-2090 Jun 10 j 10:30	0°♃00'49	0°-42'-48		-2084 Aug 07 j 00:26	15°♃	
minimum elong	-2090 Jun 10 j 10:32	0°♃00'49	0°42'46	evening set	-2084 Aug 11 j 13:53	15°♃31'48	
	-2090 Jun 10 j 07:59	0°♃					
max. Earth dist.	-2090 Jun 10 j 23:23	0°♃04'59	10.08033 AU	conjunction	-2084 Aug 28 j 15:26	17°♃33'30	2°03'12
morning rise	-2090 Jun 28 j 12:29	2°♃20'19		minimum elong	-2084 Aug 28 j 15:24	17°♃33'29	2°03'14
retrograde	-2090 Oct 09 j 12:37	10°♃22'28		max. Earth dist.	-2084 Aug 28 j 16:37	17°♃33'51	10.85371 AU
opposition	-2090 Dec 14 j 23:05	6°♃56'00	0°-32'-48	morning rise	-2084 Sep 14 j 12:19	19°♃33'47	
min. Earth dist.	-2090 Dec 14 j 13:48	6°♃57'54	8.13304 AU	retrograde	-2084 Dec 22 j 09:20	26°♃36'20	
direct	-2089 Feb 20 j 18:53	3°♃26'31		opposition	-2083 Mar 01 j 01:10	23°♃18'31	2°38'57
evening set	-2089 Jun 07 j 03:01	11°♃37'14		min. Earth dist.	-2083 Mar 01 j 00:34	23°♃18'37	8.91186 AU
				direct	-2083 May 11 j 06:00	19°♃55'00	
				evening set	-2083 Aug 23 j 16:46	27°♃14'11	

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Attention, astronomical year style is used: The year -2083 in astronomical counting style is the year 2084 BCE in historical counting style.

conjunction	-2083 Sep 09 j 13:40	29°♄13'15	2°15'19	conjunction	-2077 Nov 14 j 18:25	5°♌57'47	1°35'28
minimum elong	-2083 Sep 09 j 13:38	29°♄13'14	2°15'21	minimum elong	-2077 Nov 14 j 18:27	5°♌57'48	1°35'27
max. Earth dist.	-2083 Sep 09 j 12:46	29°♄12'59	10.96337 AU	max. Earth dist.	-2077 Nov 14 j 07:57	5°♌54'43	11.13975 AU
	-2083 Sep 16 j 03:37	0°♎		morning rise	-2077 Dec 01 j 05:51	7°♌52'39	
morning rise	-2083 Sep 26 j 06:18	1°♎11'04		retrograde	-2076 Mar 11 j 09:56	14°♌51'04	
retrograde	-2082 Jan 03 j 02:28	8°♎08'11		opposition	-2076 May 21 j 10:39	11°♌33'07	1°43'11
opposition	-2082 Mar 13 j 04:27	4°♎51'05	2°50'04	min. Earth dist.	-2076 May 21 j 20:14	11°♌31'22	9.11323 AU
min. Earth dist.	-2082 Mar 13 j 05:11	4°♎50'57	9.01281 AU	direct	-2076 Jul 31 j 04:49	8°♌15'17	
direct	-2082 May 23 j 16:14	1°♎28'47			-2076 Nov 06 j 18:22	15°♌	
evening set	-2082 Sep 04 j 10:50	8°♎40'47		evening set	-2076 Nov 08 j 09:49	15°♌11'19	
conjunction	-2082 Sep 21 j 03:56	10°♎37'46	2°21'47	conjunction	-2076 Nov 24 j 22:06	17°♌07'07	1°13'00
minimum elong	-2082 Sep 21 j 03:55	10°♎37'46	2°21'48	minimum elong	-2076 Nov 24 j 22:08	17°♌07'07	1°12'59
max. Earth dist.	-2082 Sep 21 j 01:40	10°♎37'06	11.05384 AU	max. Earth dist.	-2076 Nov 24 j 10:29	17°♌03'42	11.07944 AU
morning rise	-2082 Oct 07 j 17:08	12°♎33'40		morning rise	-2076 Dec 11 j 11:45	19°♌03'20	
retrograde	-2081 Jan 14 j 14:52	19°♎26'57		retrograde	-2075 Mar 23 j 10:00	26°♌07'40	
opposition	-2081 Mar 25 j 04:02	16°♎10'20	2°54'19	opposition	-2075 Jun 02 j 12:31	22°♌48'41	1°13'49
min. Earth dist.	-2081 Mar 25 j 06:39	16°♎09'50	9.09277 AU	min. Earth dist.	-2075 Jun 02 j 22:42	22°♌46'49	9.04047 AU
direct	-2081 Jun 04 j 18:33	12°♎49'09		direct	-2075 Aug 11 j 20:40	19°♌30'51	
evening set	-2081 Sep 15 j 22:04	19°♎55'07		evening set	-2075 Nov 19 j 16:17	26°♌29'25	
conjunction	-2081 Oct 02 j 12:08	21°♎50'33	2°22'39	conjunction	-2075 Dec 06 j 06:26	28°♌26'45	0°47'25
minimum elong	-2081 Oct 02 j 12:08	21°♎50'33	2°22'39	minimum elong	-2075 Dec 06 j 06:28	28°♌26'45	0°47'22
max. Earth dist.	-2081 Oct 02 j 07:40	21°♎49'14	11.12204 AU	max. Earth dist.	-2075 Dec 05 j 19:16	28°♌23'26	10.99589 AU
morning rise	-2081 Oct 18 j 23:02	23°♎45'06			-2075 Dec 19 j 09:49	0°♏	
	-2081 Dec 30 j 00:43	0°♏		morning rise	-2075 Dec 22 j 22:41	0°♏24'46	
retrograde	-2080 Jan 26 j 01:52	0°♏36'08		retrograde	-2074 Apr 04 j 16:36	7°♏36'31	
	-2080 Feb 22 j 12:45	30°♎		opposition	-2074 Jun 14 j 18:34	4°♏16'17	0°40'58
opposition	-2080 Apr 05 j 00:53	27°♎19'47	2°51'54	min. Earth dist.	-2074 Jun 15 j 04:04	4°♏14'31	8.94584 AU
min. Earth dist.	-2080 Apr 05 j 06:05	27°♎18'49	9.14907 AU	direct	-2074 Aug 23 j 14:53	0°♏58'12	
direct	-2080 Jun 15 j 16:35	23°♎59'36		evening set	-2074 Dec 01 j 04:31	8°♏00'56	
	-2080 Sep 17 j 03:04	0°♏					
evening set	-2080 Sep 26 j 04:00	1°♏00'49		conjunction	-2074 Dec 17 j 21:00	10°♏00'11	0°19'27
				minimum elong	-2074 Dec 17 j 21:01	10°♏00'12	0°19'24
conjunction	-2080 Oct 12 j 15:53	2°♏55'14	2°18'08	max. Earth dist.	-2074 Dec 17 j 10:31	9°♏57'03	10.89181 AU
minimum elong	-2080 Oct 12 j 15:54	2°♏55'14	2°18'07	morning rise	-2073 Jan 03 j 16:14	12°♏00'22	
max. Earth dist.	-2080 Oct 12 j 08:39	2°♏53'07	11.16579 AU	retrograde	-2073 Apr 17 j 08:55	19°♏20'59	
morning rise	-2080 Oct 29 j 01:37	4°♏49'02		opposition	-2073 Jun 27 j 05:59	15°♏59'19	0°05'39
retrograde	-2079 Feb 05 j 11:19	11°♏39'28		min. Earth dist.	-2073 Jun 27 j 14:38	15°♏57'42	8.83248 AU
opposition	-2079 Apr 16 j 20:30	8°♏23'06	2°43'10	desc. node	-2073 Aug 25 j 04:33	12°♏46'08	
min. Earth dist.	-2079 Apr 17 j 03:14	8°♏21'52	9.17988 AU	direct	-2073 Sep 04 j 13:20	12°♏40'43	
direct	-2079 Jun 27 j 10:14	5°♏03'48		evening set	-2073 Dec 13 j 00:25	19°♏49'12	
evening set	-2079 Oct 07 j 06:07	12°♏01'32					
conjunction	-2079 Oct 23 j 16:56	13°♏55'31	2°08'31	conjunction	-2073 Dec 29 j 19:23	21°♏50'43	0°-9'-59
minimum elong	-2079 Oct 23 j 16:58	13°♏55'31	2°08'29	minimum elong	-2073 Dec 29 j 19:22	21°♏50'43	0°10'03
max. Earth dist.	-2079 Oct 23 j 08:32	13°♏53'04	11.18362 AU	behind sun begin	-2073 Dec 29 j 13:41	21°♏49'01	
morning rise	-2079 Nov 09 j 02:22	15°♏49'08		behind sun end	-2073 Dec 30 j 01:04	21°♏52'26	
retrograde	-2078 Feb 17 j 00:09	22°♏40'39		max. Earth dist.	-2073 Dec 29 j 08:53	21°♏47'33	10.77073 AU
opposition	-2078 Apr 28 j 15:53	19°♏23'59	2°28'28	morning rise	-2072 Jan 15 j 17:58	23°♏53'25	
min. Earth dist.	-2078 Apr 28 j 23:12	19°♏22'38	9.18413 AU		-2072 Mar 18 j 12:11	0°♏	
direct	-2078 Jul 09 j 02:58	16°♏05'24		retrograde	-2072 Apr 29 j 08:34	1°♏24'05	
evening set	-2078 Oct 18 j 06:34	23°♏01'03			-2072 Jun 11 j 00:10	30°♎	
				opposition	-2072 Jul 08 j 23:39	28°♏00'54	0°-30'-53
conjunction	-2078 Nov 03 j 17:17	24°♏55'09	1°54'08	min. Earth dist.	-2072 Jul 09 j 07:50	27°♏59'21	8.70437 AU
minimum elong	-2078 Nov 03 j 17:19	24°♏55'09	1°54'07	direct	-2072 Sep 15 j 15:12	24°♏41'28	
max. Earth dist.	-2078 Nov 03 j 08:25	24°♏52'34	11.17486 AU		-2072 Dec 07 j 11:28	0°♏	
morning rise	-2078 Nov 20 j 03:14	26°♏49'07		evening set	-2072 Dec 24 j 05:35	1°♏57'20	
	-2078 Dec 20 j 00:20	0°♎					
retrograde	-2077 Feb 28 j 15:40	3°♌43'16		conjunction	-2071 Jan 10 j 03:22	4°♏01'23	0°-39'-37
opposition	-2077 May 10 j 12:06	0°♌26'05	2°08'18	minimum elong	-2071 Jan 10 j 03:21	4°♏01'23	0°39'41
min. Earth dist.	-2077 May 10 j 20:20	0°♌24'35	9.16167 AU	max. Earth dist.	-2071 Jan 09 j 17:01	3°♏58'12	10.63701 AU
	-2077 May 16 j 11:16	30°♎		morning rise	-2071 Jan 27 j 05:36	6°♏06'50	
direct	-2077 Jul 20 j 15:38	27°♏08'01		retrograde	-2071 May 12 j 16:22	13°♏48'37	
	-2077 Sep 20 j 00:35	0°♌		opposition	-2071 Jul 22 j 00:20	10°♏23'48	-1°-7'-10
evening set	-2077 Oct 29 j 07:14	4°♌03'04		min. Earth dist.	-2071 Jul 22 j 08:06	10°♏22'18	8.56622 AU
				direct	-2071 Sep 28 j 02:16	7°♏03'19	
				evening set	-2070 Jan 05 j 21:28	14°♏28'00	

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Attention, astronomical year style is used: The year -2070 in astronomical counting style is the year 2071 BCE in historical counting style.

conjunction	-2070 Jan 22 j 22:30	16°♁34'52	-1°-8'-13	minimum elong	-2064 Apr 18 j 03:42	9°♃59'04	2°10'28
minimum elong	-2070 Jan 22 j 22:27	16°♁34'52	1°08'17	max. Earth dist.	-2064 Apr 18 j 11:38	10°♃01'42	9.90482 AU
max. Earth dist.	-2070 Jan 22 j 13:42	16°♁32'07	10.49560 AU	morning rise	-2064 May 06 j 06:03	12°♃21'53	
morning rise	-2070 Feb 09 j 04:23	18°♁43'17		retrograde	-2064 Aug 20 j 22:35	20°♃53'32	
retrograde	-2070 May 26 j 10:39	26°♁36'49		opposition	-2064 Oct 26 j 17:36	17°♃22'30	-2°-33'-38
opposition	-2070 Aug 04 j 08:23	23°♁10'23	-1°-41'-24	min. Earth dist.	-2064 Oct 26 j 10:37	17°♃23'58	7.90410 AU
min. Earth dist.	-2070 Aug 04 j 14:42	23°♁09'09	8.42372 AU	direct	-2064 Dec 31 j 21:36	13°♃53'00	
direct	-2070 Oct 10 j 21:13	19°♁48'41		evening set	-2063 Apr 15 j 16:04	22°♃15'43	
evening set	-2069 Jan 19 j 01:28	27°♁23'23					
conjunction	-2069 Feb 05 j 06:01	29°♁33'14	-1°-34'-14	conjunction	-2063 May 03 j 19:03	24°♃38'30	-1°-52'-54
minimum elong	-2069 Feb 05 j 05:58	29°♁33'13	1°34'16	minimum elong	-2063 May 03 j 19:07	24°♃38'32	1°52'53
max. Earth dist.	-2069 Feb 04 j 23:40	29°♁31'14	10.35319 AU	max. Earth dist.	-2063 May 04 j 05:27	24°♃41'57	9.90928 AU
	-2069 Feb 08 j 18:23	0°♁		morning rise	-2063 May 21 j 23:07	27°♃01'36	
morning rise	-2069 Feb 22 j 15:29	1°♁44'42			-2063 Jun 14 j 23:04	0°♁	
retrograde	-2069 Jun 09 j 15:26	9°♁49'55		retrograde	-2063 Sep 04 j 16:48	5°♁28'06	
opposition	-2069 Aug 17 j 23:55	6°♁21'59	-2°-11'-34	opposition	-2063 Nov 10 j 05:59	1°♁57'44	-2°-6'-52
min. Earth dist.	-2069 Aug 18 j 03:51	6°♁21'12	8.28449 AU	min. Earth dist.	-2063 Nov 09 j 21:21	1°♁59'32	7.92610 AU
direct	-2069 Oct 23 j 23:18	2°♁58'56			-2063 Dec 05 j 04:42	30°♃	
evening set	-2068 Feb 01 j 18:14	10°♁44'20		direct	-2062 Jan 15 j 18:32	28°♃27'37	
					-2062 Feb 25 j 21:50	0°♁	
				evening set	-2062 May 01 j 04:01	6°♁50'12	
conjunction	-2068 Feb 19 j 02:27	12°♁57'10	-1°-55'-56	conjunction	-2062 May 19 j 08:50	9°♁12'46	-1°-28'-11
minimum elong	-2068 Feb 19 j 02:24	12°♁57'09	1°55'59	minimum elong	-2062 May 19 j 08:54	9°♁12'47	1°28'10
max. Earth dist.	-2068 Feb 18 j 23:00	12°♁56'03	10.21812 AU	max. Earth dist.	-2062 May 19 j 21:09	9°♁16'49	9.94946 AU
	-2068 Mar 06 j 02:40	15°♁		morning rise	-2062 Jun 06 j 13:13	11°♁35'10	
morning rise	-2068 Mar 07 j 15:33	15°♁11'38			-2062 Jul 04 j 13:42	15°♁	
retrograde	-2068 Jun 23 j 04:08	23°♁27'36		retrograde	-2062 Sep 19 j 04:34	19°♁53'26	
opposition	-2068 Aug 30 j 22:53	19°♁58'18	-2°-35'-26	opposition	-2062 Nov 24 j 14:59	16°♁24'09	-1°-32'-17
min. Earth dist.	-2068 Aug 31 j 00:02	19°♁58'04	8.15694 AU	min. Earth dist.	-2062 Nov 24 j 04:59	16°♁26'14	7.98245 AU
direct	-2068 Nov 05 j 11:21	16°♁33'49			-2062 Dec 11 j 23:16	15°♃	
evening set	-2067 Feb 14 j 23:28	24°♁29'51		direct	-2061 Jan 30 j 14:51	12°♁53'47	
					-2061 Mar 20 j 11:53	15°♁	
conjunction	-2067 Mar 04 j 11:34	26°♁45'34	-2°-11'-40	evening set	-2061 May 16 j 11:49	21°♁13'21	
minimum elong	-2067 Mar 04 j 11:32	26°♁45'34	2°11'42	conjunction	-2061 Jun 03 j 16:55	23°♁34'42	0°-58'-15
max. Earth dist.	-2067 Mar 04 j 10:57	26°♁45'22	10.09881 AU	minimum elong	-2061 Jun 03 j 16:58	23°♁34'43	0°58'14
morning rise	-2067 Mar 22 j 04:24	29°♁02'52		max. Earth dist.	-2061 Jun 04 j 06:26	23°♁39'07	10.02230 AU
	-2067 Mar 29 j 17:43	0°♁		morning rise	-2061 Jun 21 j 20:05	25°♁55'26	
retrograde	-2067 Jul 07 j 23:11	7°♁27'39			-2061 Jul 26 j 06:25	0°♁	
opposition	-2067 Sep 14 j 04:12	3°♁57'17	-2°-50'-54	retrograde	-2061 Oct 03 j 08:21	4°♁03'23	
min. Earth dist.	-2067 Sep 14 j 02:54	3°♁57'33	8.04899 AU	opposition	-2061 Dec 08 j 18:44	0°♁35'30	0°-52'-38
direct	-2067 Nov 19 j 08:36	0°♁31'20		min. Earth dist.	-2061 Dec 08 j 08:19	0°♁37'39	8.06919 AU
evening set	-2066 Mar 01 j 16:26	8°♁37'12		direct	-2061 Dec 15 j 23:28	30°♃	
					-2060 Feb 14 j 07:33	27°♁05'14	
conjunction	-2066 Mar 19 j 08:33	10°♁55'33	-2°-19'-55	evening set	-2060 Apr 13 j 02:04	0°♁	
minimum elong	-2066 Mar 19 j 08:33	10°♁55'33	2°19'57		-2060 May 30 j 12:50	5°♁19'23	
max. Earth dist.	-2066 Mar 19 j 10:38	10°♁56'14	10.00286 AU	conjunction	-2060 Jun 17 j 16:30	7°♁38'41	0°-25'-21
morning rise	-2066 Apr 06 j 04:59	13°♁15'18		minimum elong	-2060 Jun 17 j 16:31	7°♁38'41	0°25'20
retrograde	-2066 Jul 22 j 22:29	21°♁46'01		max. Earth dist.	-2060 Jun 18 j 05:58	7°♁43'00	10.12272 AU
opposition	-2066 Sep 28 j 14:19	18°♁14'59	-2°-56'-14	morning rise	-2060 Jul 05 j 16:57	9°♁56'56	
min. Earth dist.	-2066 Sep 28 j 11:05	18°♁15'39	7.96758 AU	retrograde	-2060 Oct 16 j 03:44	17°♁53'19	
direct	-2066 Dec 03 j 14:08	14°♁47'38		opposition	-2060 Dec 21 j 15:54	14°♁27'05	0°-10'-51
evening set	-2065 Mar 16 j 18:52	23°♁01'42		min. Earth dist.	-2060 Dec 21 j 06:05	14°♁29'05	8.18058 AU
				direct	-2059 Feb 27 j 19:13	10°♁57'17	
conjunction	-2065 Apr 03 j 14:59	25°♁22'13	-2°-19'-38	asc. node	-2059 Mar 30 j 04:09	11°♁45'39	
minimum elong	-2065 Apr 03 j 15:01	25°♁22'14	2°19'39	evening set	-2059 Jun 14 j 04:41	19°♁04'15	
max. Earth dist.	-2065 Apr 03 j 20:03	25°♁23'54	9.93669 AU	conjunction	-2059 Jul 02 j 05:16	21°♁20'46	0°08'20
morning rise	-2065 Apr 21 j 14:42	27°♁43'52		minimum elong	-2059 Jul 02 j 05:15	21°♁20'45	0°08'22
	-2065 May 09 j 16:14	0°♁		behind sun begin	-2059 Jul 01 j 22:52	21°♁18'45	
retrograde	-2065 Aug 06 j 23:18	6°♁16'59		behind sun end	-2059 Jul 02 j 11:39	21°♁22'46	
opposition	-2065 Oct 13 j 03:34	2°♁45'43	-2°-50'-28	max. Earth dist.	-2059 Jul 02 j 17:30	21°♁24'38	10.24417 AU
min. Earth dist.	-2065 Oct 12 j 22:24	2°♁46'48	7.91819 AU	morning rise	-2059 Jul 20 j 01:41	23°♁35'56	
	-2065 Nov 20 j 13:15	30°♃			-2059 Sep 20 j 21:17	0°♁	
direct	-2065 Dec 18 j 02:52	29°♁17'10		retrograde	-2059 Oct 29 j 12:08	1°♁20'30	
	-2064 Jan 14 j 13:55	0°♁					
evening set	-2064 Mar 31 j 03:44	7°♁36'59					
conjunction	-2064 Apr 18 j 03:39	9°♁59'03	-2°-10'-29				

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Attention, astronomical year style is used: The year -2059 in astronomical counting style is the year 2060 BCE in historical counting style.

	-2059 Dec 07 j 16:32	30°RII		morning rise	-2053 Oct 02 j 18:55	7°M29'55	
opposition	-2058 Jan 04 j 06:06	27°II56'03	0°30'19	retrograde	-2052 Jan 09 j 15:15	14°M25'00	
min. Earth dist.	-2058 Jan 03 j 21:34	27°II57'46	8.30972 AU	opposition	-2052 Mar 18 j 23:31	11°M08'40	2°52'59
direct	-2058 Mar 14 j 01:38	24°II27'03		min. Earth dist.	-2052 Mar 19 j 01:38	11°M08'17	9.06422 AU
	-2058 Jun 07 j 20:44	0°E		direct	-2052 May 29 j 11:24	7°M47'27	
evening set	-2058 Jun 28 j 09:34	2°E25'39		evening set	-2052 Sep 10 j 00:13	14°M56'25	
conjunction	-2058 Jul 16 j 05:44	4°E38'52	0°40'37	conjunction	-2052 Sep 26 j 15:32	16°M52'30	2°22'48
minimum elong	-2058 Jul 16 j 05:42	4°E38'52	0°40'39	minimum elong	-2052 Sep 26 j 15:31	16°M52'30	2°22'48
max. Earth dist.	-2058 Jul 16 j 15:51	4°E42'03	10.37938 AU	max. Earth dist.	-2052 Sep 26 j 11:32	16°M51'20	11.10005 AU
morning rise	-2058 Aug 02 j 21:14	6°E50'37		morning rise	-2052 Oct 13 j 03:31	18°M47'38	
retrograde	-2058 Nov 11 j 10:08	14°E23'51		retrograde	-2051 Jan 20 j 04:18	25°M39'42	
opposition	-2057 Jan 17 j 12:53	11°E01'12	1°08'34	opposition	-2051 Mar 30 j 21:56	22°M23'46	2°53'39
min. Earth dist.	-2057 Jan 17 j 05:34	11°E02'39	8.44923 AU	min. Earth dist.	-2051 Mar 31 j 01:29	22°M23'07	9.13331 AU
direct	-2057 Mar 28 j 00:27	7°E33'17		direct	-2051 Jun 10 j 13:46	19°M03'39	
evening set	-2057 Jul 12 j 02:51	15°E22'52		evening set	-2051 Sep 21 j 08:52	26°M07'10	
conjunction	-2057 Jul 29 j 17:51	17°E32'38	1°10'00	conjunction	-2051 Oct 07 j 21:46	28°M02'00	2°20'46
minimum elong	-2057 Jul 29 j 17:48	17°E32'37	1°10'02	minimum elong	-2051 Oct 07 j 21:47	28°M02'00	2°20'45
max. Earth dist.	-2057 Jul 30 j 01:36	17°E35'02	10.52101 AU	max. Earth dist.	-2051 Oct 07 j 16:18	28°M00'24	11.15601 AU
morning rise	-2057 Aug 16 j 03:56	19°E40'51		morning rise	-2051 Oct 24 j 07:51	29°M56'05	
retrograde	-2057 Nov 24 j 00:25	27°E03'41			-2051 Oct 24 j 21:38	0°E	
opposition	-2056 Jan 30 j 12:18	23°E42'43	1°42'11	retrograde	-2050 Jan 31 j 15:50	6°E46'46	
min. Earth dist.	-2056 Jan 30 j 06:01	23°E43'57	8.59171 AU	opposition	-2050 Apr 11 j 18:30	3°E30'56	2°47'49
direct	-2056 Apr 09 j 14:02	20°E16'05		min. Earth dist.	-2050 Apr 12 j 00:08	3°E29'54	9.17572 AU
evening set	-2056 Jul 24 j 08:25	27°E56'31		direct	-2050 Jun 22 j 08:37	0°E11'46	
conjunction	-2056 Aug 10 j 18:02	0°E02'52	1°35'12	evening set	-2050 Oct 02 j 13:01	7°E11'09	
minimum elong	-2056 Aug 10 j 17:59	0°E02'51	1°35'14	conjunction	-2050 Oct 19 j 00:20	9°E05'18	2°13'28
	-2056 Aug 10 j 08:36	0°E		minimum elong	-2050 Oct 19 j 00:22	9°E05'18	2°13'27
max. Earth dist.	-2056 Aug 10 j 23:57	0°E04'41	10.66188 AU	max. Earth dist.	-2050 Oct 18 j 16:23	9°E02'59	11.18452 AU
morning rise	-2056 Aug 27 j 22:31	2°E07'40		morning rise	-2050 Nov 04 j 09:43	10°E58'57	
retrograde	-2056 Dec 05 j 07:14	9°E21'20		retrograde	-2049 Feb 12 j 03:29	17°E49'59	
opposition	-2055 Feb 11 j 05:09	6°E01'55	2°09'57	opposition	-2049 Apr 23 j 14:21	14°E33'57	2°35'50
min. Earth dist.	-2055 Feb 11 j 00:15	6°E02'51	8.73015 AU	min. Earth dist.	-2049 Apr 23 j 22:26	14°E32'28	9.19000 AU
direct	-2055 Apr 22 j 18:45	2°E36'41		direct	-2049 Jul 04 j 01:36	11°E15'27	
evening set	-2055 Aug 06 j 02:43	10°E08'12		evening set	-2049 Oct 13 j 14:44	18°E12'13	
conjunction	-2055 Aug 23 j 06:56	12°E11'20	1°55'26	conjunction	-2049 Oct 30 j 01:19	20°E06'14	2°01'15
minimum elong	-2055 Aug 23 j 06:53	12°E11'20	1°55'28	minimum elong	-2049 Oct 30 j 01:21	20°E06'15	2°01'13
max. Earth dist.	-2055 Aug 23 j 11:11	12°E12'37	10.79538 AU	max. Earth dist.	-2049 Oct 29 j 14:45	20°E03'10	11.18502 AU
morning rise	-2055 Sep 09 j 06:01	14°E12'59		morning rise	-2049 Nov 15 j 11:01	22°E00'01	
	-2055 Sep 15 j 23:26	15°E		retrograde	-2048 Feb 23 j 16:16	28°E53'01	
retrograde	-2055 Dec 17 j 07:24	21°E18'57		opposition	-2048 May 04 j 10:29	25°E36'27	2°18'08
opposition	-2054 Feb 23 j 16:07	18°E00'51	2°31'11	min. Earth dist.	-2048 May 04 j 20:15	25°E34'40	9.17626 AU
min. Earth dist.	-2054 Feb 23 j 13:28	18°E01'22	8.85841 AU	direct	-2048 Jul 14 j 16:39	22°E18'24	
	-2054 Apr 13 j 19:11	15°RE		evening set	-2048 Oct 23 j 15:34	29°E13'57	
direct	-2054 May 05 j 15:49	14°E37'03			-2048 Oct 30 j 07:39	0°M	
	-2054 May 27 j 09:49	15°E		conjunction	-2048 Nov 09 j 02:24	1°M08'22	1°44'29
evening set	-2054 Aug 18 j 10:42	22°E00'11		minimum elong	-2048 Nov 09 j 02:27	1°M08'23	1°44'28
conjunction	-2054 Sep 04 j 09:51	24°E00'29	2°10'12	max. Earth dist.	-2048 Nov 08 j 15:01	1°M05'03	11.15807 AU
minimum elong	-2054 Sep 04 j 09:49	24°E00'28	2°10'14	morning rise	-2048 Nov 25 j 13:09	3°M02'50	
max. Earth dist.	-2054 Sep 04 j 11:36	24°E01'00	10.91597 AU	retrograde	-2047 Mar 06 j 09:10	9°M59'26	
morning rise	-2054 Sep 21 j 04:18	25°E59'26		opposition	-2047 May 16 j 08:20	6°M42'00	1°55'15
	-2054 Oct 29 j 01:21	0°M		min. Earth dist.	-2047 May 16 j 18:16	6°M40'11	9.13546 AU
retrograde	-2054 Dec 29 j 02:37	2°M59'10		direct	-2047 Jul 26 j 07:44	3°M24'08	
	-2053 Mar 03 j 22:31	30°RE		evening set	-2047 Nov 03 j 17:18	10°M19'55	
opposition	-2053 Mar 07 j 21:57	29°E42'07	2°45'32	conjunction	-2047 Nov 20 j 05:10	12°M15'15	1°23'42
min. Earth dist.	-2053 Mar 07 j 22:00	29°E42'07	8.97131 AU	minimum elong	-2047 Nov 20 j 05:13	12°M15'16	1°23'41
direct	-2053 May 18 j 04:28	26°E19'40		max. Earth dist.	-2047 Nov 19 j 17:42	12°M11'53	11.10483 AU
	-2053 Jul 27 j 19:30	0°M		morning rise	-2047 Dec 06 j 17:39	14°M10'52	
evening set	-2053 Aug 30 j 09:21	3°M35'13			-2047 Dec 13 j 22:40	15°M	
conjunction	-2053 Sep 16 j 04:07	5°M33'09	2°19'19	retrograde	-2046 Mar 18 j 08:36	21°M12'39	
minimum elong	-2053 Sep 16 j 04:05	5°M33'08	2°19'21	opposition	-2046 May 28 j 08:53	17°M54'06	1°27'45
max. Earth dist.	-2053 Sep 16 j 02:31	5°M32'40	11.01891 AU	min. Earth dist.	-2046 May 28 j 19:02	17°M52'14	9.06921 AU

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Attention, astronomical year style is used: The year -2046 in astronomical counting style is the year 2047 BCE in historical counting style.

	-2046 Jul 15 j 15:18	15°♍		retrograde	-2040 Jun 02 j 13:46	4°♊01'47	
direct	-2046 Aug 06 j 22:45	14°♌36'09		opposition	-2040 Aug 11 j 03:49	0°♊33'51	-1°-58'-32
	-2046 Aug 28 j 22:34	15°♌		min. Earth dist.	-2040 Aug 11 j 08:12	0°♊32'59	8.33002 AU
evening set	-2046 Nov 14 j 22:09	21°♌33'44			-2040 Aug 18 j 07:30	30°♊	
				direct	-2040 Oct 17 j 08:19	27°♊10'49	
conjunction	-2046 Dec 01 j 11:29	23°♌30'25	0°59'28		-2040 Dec 13 j 09:13	0°♊	
minimum elong	-2046 Dec 01 j 11:31	23°♌30'25	0°59'26	evening set	-2039 Jan 25 j 20:51	4°♊51'46	
max. Earth dist.	-2046 Nov 30 j 23:08	23°♌26'46	11.02725 AU				
morning rise	-2046 Dec 18 j 02:27	25°♌27'40		conjunction	-2039 Feb 12 j 03:14	7°♊03'23	-1°-46'-43
	-2045 Jan 31 j 05:44	0°♊		minimum elong	-2039 Feb 12 j 03:11	7°♊03'22	1°46'45
retrograde	-2045 Mar 30 j 11:17	2°♊36'09		max. Earth dist.	-2039 Feb 11 j 22:16	7°♊01'48	10.26294 AU
	-2045 May 30 j 14:56	30°♋		morning rise	-2039 Mar 01 j 14:53	9°♊16'40	
opposition	-2045 Jun 09 j 13:03	29°♌16'14	0°56'24		-2039 Apr 23 j 02:51	15°♊	
min. Earth dist.	-2045 Jun 09 j 23:49	29°♌14'15	8.97994 AU	retrograde	-2039 Jun 16 j 21:41	17°♊28'21	
direct	-2045 Aug 18 j 14:34	25°♌57'55			-2039 Aug 12 j 03:43	15°♋	
	-2045 Oct 30 j 04:37	0°♊		opposition	-2039 Aug 24 j 23:42	13°♋59'05	-2°-25'-33
evening set	-2045 Nov 26 j 07:45	2°♊59'00		min. Earth dist.	-2039 Aug 25 j 02:05	13°♋58'37	8.19965 AU
				direct	-2039 Oct 30 j 17:18	10°♋34'45	
conjunction	-2045 Dec 12 j 23:02	4°♊57'26	0°32'30		-2038 Jan 11 j 01:17	15°♋	
minimum elong	-2045 Dec 12 j 23:03	4°♊57'27	0°32'27	evening set	-2038 Feb 08 j 20:31	18°♋26'24	
max. Earth dist.	-2045 Dec 12 j 10:07	4°♊53'35	10.92810 AU				
morning rise	-2045 Dec 29 j 17:00	6°♊56'43		conjunction	-2038 Feb 26 j 06:47	20°♋40'57	-2°-5'-22
retrograde	-2044 Apr 10 j 21:57	14°♊13'28		minimum elong	-2038 Feb 26 j 06:45	20°♋40'56	2°05'24
opposition	-2044 Jun 20 j 22:12	10°♊52'02	0°22'04	max. Earth dist.	-2038 Feb 26 j 05:10	20°♋40'26	10.13918 AU
min. Earth dist.	-2044 Jun 21 j 09:00	10°♊50'00	8.87087 AU	morning rise	-2038 Mar 15 j 22:05	22°♋57'07	
direct	-2044 Aug 29 j 11:55	7°♊33'07			-2038 May 23 j 15:56	0°♋	
evening set	-2044 Dec 06 j 23:49	14°♊39'16		retrograde	-2038 Jul 01 j 13:30	1°♋18'33	
					-2038 Aug 09 j 20:51	30°♋	
conjunction	-2044 Dec 23 j 17:37	16°♊39'52	0°03'41	opposition	-2038 Sep 08 j 02:24	27°♋48'16	-2°-45'-4
minimum elong	-2044 Dec 23 j 17:38	16°♊39'52	0°03'38	min. Earth dist.	-2038 Sep 08 j 02:14	27°♋48'18	8.08567 AU
behind sun begin	-2044 Dec 23 j 10:41	16°♊37'47		direct	-2038 Nov 13 j 10:58	24°♋22'39	
behind sun end	-2044 Dec 24 j 00:35	16°♊41'57			-2037 Feb 03 j 21:34	0°♋	
max. Earth dist.	-2044 Dec 23 j 05:55	16°♊36'20	10.81087 AU	evening set	-2037 Feb 23 j 08:20	2°♋24'32	
morning rise	-2043 Jan 09 j 14:47	18°♊41'32					
desc. node	-2043 Feb 07 j 19:04	21°♊56'06		conjunction	-2037 Mar 12 j 22:39	4°♋41'49	-2°-17'-10
retrograde	-2043 Apr 23 j 17:28	26°♊07'56		minimum elong	-2037 Mar 12 j 22:38	4°♋41'49	2°17'12
opposition	-2043 Jul 03 j 13:08	22°♊44'51	0°-14'-6	max. Earth dist.	-2037 Mar 13 j 00:59	4°♋42'35	10.03551 AU
min. Earth dist.	-2043 Jul 03 j 22:37	22°♊43'03	8.74602 AU	morning rise	-2037 Mar 30 j 17:26	7°♋00'36	
direct	-2043 Sep 10 j 13:07	19°♊25'10		retrograde	-2037 Jul 16 j 11:40	15°♋29'24	
evening set	-2043 Dec 19 j 00:33	26°♊38'01		opposition	-2037 Sep 22 j 10:44	11°♋58'26	-2°-55'-9
				min. Earth dist.	-2037 Sep 22 j 07:30	11°♋59'06	7.99526 AU
conjunction	-2042 Jan 04 j 21:13	28°♊41'05	0°-26'-6	direct	-2037 Nov 27 j 12:31	8°♋31'38	
minimum elong	-2042 Jan 04 j 21:12	28°♊41'05	0°26'10	evening set	-2036 Mar 09 j 06:52	16°♋42'29	
max. Earth dist.	-2042 Jan 04 j 11:12	28°♊38'01	10.67994 AU				
	-2042 Jan 15 j 15:19	0°♊		conjunction	-2036 Mar 27 j 01:18	19°♋02'09	-2°-20'-49
morning rise	-2042 Jan 21 j 21:45	0°♊45'26		minimum elong	-2036 Mar 27 j 01:18	19°♋02'10	2°20'51
retrograde	-2042 May 06 j 22:09	8°♋22'37		max. Earth dist.	-2036 Mar 27 j 07:18	19°♋04'08	9.95900 AU
opposition	-2042 Jul 16 j 10:32	4°♋57'50	0°-50'-45	morning rise	-2036 Apr 13 j 23:26	21°♋23'05	
min. Earth dist.	-2042 Jul 16 j 18:10	4°♋56'22	8.61025 AU	retrograde	-2036 Jul 30 j 13:21	29°♋55'58	
direct	-2042 Sep 22 j 20:30	1°♋37'11		opposition	-2036 Oct 05 j 23:05	26°♋24'46	-2°-54'-25
evening set	-2042 Dec 31 j 11:31	8°♋58'16		min. Earth dist.	-2036 Oct 05 j 17:08	26°♋26'00	7.93470 AU
				direct	-2036 Dec 10 j 21:26	22°♋56'54	
conjunction	-2041 Jan 17 j 11:12	11°♋04'03	0°-55'-24		-2035 Mar 14 j 20:02	0°♋	
minimum elong	-2041 Jan 17 j 11:10	11°♋04'03	0°55'27	evening set	-2035 Mar 24 j 13:35	1°♋14'39	
max. Earth dist.	-2041 Jan 17 j 02:22	11°♋01'19	10.54065 AU				
morning rise	-2041 Feb 03 j 15:21	13°♋11'18		conjunction	-2035 Apr 11 j 11:58	3°♋36'09	-2°-15'-38
retrograde	-2041 May 20 j 13:16	21°♋00'01		minimum elong	-2035 Apr 11 j 12:00	3°♋36'10	2°15'39
opposition	-2041 Jul 29 j 15:20	17°♋33'36	-1°-26'-13	max. Earth dist.	-2035 Apr 11 j 21:04	3°♋39'10	9.91510 AU
min. Earth dist.	-2041 Jul 29 j 21:15	17°♋32'27	8.46934 AU	morning rise	-2035 Apr 29 j 13:05	5°♋58'35	
direct	-2041 Oct 05 j 10:17	14°♋11'49		retrograde	-2035 Aug 14 j 15:17	14°♋31'42	
evening set	-2040 Jan 13 j 09:55	21°♋42'23		opposition	-2035 Oct 20 j 13:22	11°♋00'44	-2°-42'-27
				min. Earth dist.	-2035 Oct 20 j 05:26	11°♋02'23	7.90828 AU
conjunction	-2040 Jan 30 j 12:46	23°♋51'03	-1°-22'-49	direct	-2035 Dec 25 j 13:38	7°♋32'00	
minimum elong	-2040 Jan 30 j 12:43	23°♋51'02	1°22'52	evening set	-2034 Apr 09 j 01:24	15°♋53'57	
max. Earth dist.	-2040 Jan 30 j 05:21	23°♋48'42	10.39927 AU				
morning rise	-2040 Feb 16 j 20:39	26°♋01'19		conjunction	-2034 Apr 27 j 03:05	18°♋16'31	-2°-1'-43
	-2040 Mar 22 j 15:01	0°♋		minimum elong	-2034 Apr 27 j 03:09	18°♋16'32	2°01'42

Planetary Phenomena of Saturn from -2400 through -1900 (UT), Astrodienst AG 14-Nov-2015 16:07, page 31

Attention, astronomical year style is used: The year -2034 in astronomical counting style is the year 2035 BCE in historical counting style.

max. Earth dist.	-2034 Apr 27 j 14:32	18° Υ 20'18	9.90696 AU	max. Earth dist.	-2028 Jul 23 j 13:27	12° Θ 09'29	10.45891 AU
morning rise	-2034 May 15 j 06:22	20° Υ 39'35		morning rise	-2028 Aug 09 j 17:15	14° Θ 16'37	
retrograde	-2034 Aug 29 j 12:56	29° Υ 09'03		retrograde	-2028 Nov 17 j 22:47	21° Θ 44'25	
opposition	-2034 Nov 04 j 03:11	25° Υ 38'45	-2°-19'-53	opposition	-2027 Jan 24 j 04:26	18° Θ 22'59	1°27'57
min. Earth dist.	-2034 Nov 03 j 18:02	25° Υ 40'40	7.91792 AU	min. Earth dist.	-2027 Jan 23 j 22:36	18° Θ 24'08	8.52710 AU
direct	-2033 Jan 09 j 09:50	22° Υ 09'23		direct	-2027 Apr 03 j 22:22	14° Θ 55'59	
	-2033 Apr 20 j 09:15	0° Υ		evening set	-2027 Jul 18 j 22:45	22° Θ 40'58	
evening set	-2033 Apr 24 j 14:22	0° Υ 32'27					
				conjunction	-2027 Aug 05 j 10:54	24° Θ 48'57	1°24'37
conjunction	-2033 May 12 j 18:23	2° Υ 55'10	-1°-39'-59	minimum elong	-2027 Aug 05 j 10:51	24° Θ 48'56	1°24'39
minimum elong	-2033 May 12 j 18:27	2° Υ 55'11	1°39'58	max. Earth dist.	-2027 Aug 05 j 16:58	24° Θ 50'48	10.59586 AU
max. Earth dist.	-2033 May 13 j 07:12	2° Υ 59'23	9.93509 AU	morning rise	-2027 Aug 22 j 17:49	26° Θ 55'20	
morning rise	-2033 May 30 j 22:41	5° Υ 17'56			-2027 Sep 18 j 21:30	0° Ω	
retrograde	-2033 Sep 13 j 04:14	13° Υ 40'18		retrograde	-2027 Nov 30 j 08:56	4° Ω 13'27	
opposition	-2033 Nov 18 j 14:22	10° Υ 11'01	-1°-48'-29	opposition	-2026 Feb 06 j 00:54	0° Ω 53'27	1°58'29
min. Earth dist.	-2033 Nov 18 j 04:42	10° Υ 13'02	7.96278 AU	min. Earth dist.	-2026 Feb 05 j 21:07	0° Ω 54'11	8.66322 AU
direct	-2032 Jan 24 j 07:01	6° Υ 41'18			-2026 Feb 17 j 15:43	30° Υ	
	-2032 May 08 j 17:11	15° Υ		direct	-2026 Apr 17 j 07:46	27° Θ 27'35	
evening set	-2032 May 09 j 00:44	15° Υ 02'25			-2026 Jun 13 j 09:54	0° Ω	
				evening set	-2026 Jul 31 j 22:35	5° Ω 03'35	
conjunction	-2032 May 27 j 05:42	17° Υ 24'20	-1°-12'-7				
minimum elong	-2032 May 27 j 05:46	17° Υ 24'21	1°12'05	conjunction	-2026 Aug 18 j 05:08	7° Ω 08'15	1°47'11
max. Earth dist.	-2032 May 27 j 18:46	17° Υ 28'36	9.99691 AU	minimum elong	-2026 Aug 18 j 05:05	7° Ω 08'14	1°47'12
morning rise	-2032 Jun 14 j 09:40	19° Υ 45'50		max. Earth dist.	-2026 Aug 18 j 08:18	7° Ω 09'13	10.72858 AU
retrograde	-2032 Sep 26 j 11:39	27° Υ 58'29		morning rise	-2026 Sep 04 j 06:44	9° Ω 11'25	
opposition	-2032 Dec 01 j 20:51	24° Υ 30'31	-1°-10'-45		-2026 Nov 02 j 17:27	15° Ω	
min. Earth dist.	-2032 Dec 01 j 11:05	24° Υ 32'33	8.03882 AU	retrograde	-2026 Dec 12 j 10:35	16° Ω 21'12	
direct	-2031 Feb 07 j 02:29	21° Υ 00'45			-2025 Jan 22 j 04:56	15° Ω	
evening set	-2031 May 24 j 05:27	29° Υ 17'21		opposition	-2025 Feb 18 j 14:54	13° Ω 02'24	2°22'44
	-2031 May 29 j 19:20	0° Υ		min. Earth dist.	-2025 Feb 18 j 12:43	13° Ω 02'49	8.79217 AU
				direct	-2025 Apr 30 j 10:43	9° Ω 37'43	
conjunction	-2031 Jun 11 j 09:46	1° Υ 37'33	0°-40'-16		-2025 Jul 26 j 01:47	15° Ω	
minimum elong	-2031 Jun 11 j 09:48	1° Υ 37'34	0°40'14	evening set	-2025 Aug 13 j 11:30	17° Ω 05'06	
max. Earth dist.	-2031 Jun 11 j 22:07	1° Υ 41'33	10.08683 AU				
morning rise	-2031 Jun 29 j 11:43	3° Υ 56'55		conjunction	-2025 Aug 30 j 12:53	19° Ω 06'47	2°04'26
retrograde	-2031 Oct 10 j 10:22	11° Υ 58'23		minimum elong	-2025 Aug 30 j 12:50	19° Ω 06'46	2°04'28
opposition	-2031 Dec 15 j 21:08	8° Υ 31'59	0°-29'-35	max. Earth dist.	-2025 Aug 30 j 13:45	19° Ω 07'02	10.85125 AU
min. Earth dist.	-2031 Dec 15 j 11:40	8° Υ 33'55	8.13968 AU	morning rise	-2025 Sep 16 j 09:34	21° Ω 07'03	
direct	-2030 Feb 21 j 17:40	5° Υ 02'30		retrograde	-2025 Dec 24 j 08:10	28° Ω 09'57	
evening set	-2030 Jun 08 j 01:48	13° Υ 12'45		opposition	-2024 Mar 01 j 23:04	24° Ω 52'06	2°40'12
				min. Earth dist.	-2024 Mar 01 j 22:10	24° Ω 52'16	8.90837 AU
conjunction	-2030 Jun 26 j 03:52	15° Υ 30'29	0°-6'-43	direct	-2024 May 12 j 04:00	21° Ω 28'38	
minimum elong	-2030 Jun 26 j 03:51	15° Υ 30'29	0°06'42	evening set	-2024 Aug 24 j 14:33	28° Ω 48'04	
behind sun begin	-2030 Jun 25 j 21:02	15° Υ 28'20			-2024 Sep 03 j 20:04	0° Υ	
behind sun end	-2030 Jun 26 j 10:40	15° Υ 32'38					
max. Earth dist.	-2030 Jun 26 j 15:11	15° Υ 34'05	10.19798 AU	conjunction	-2024 Sep 10 j 11:24	0° Υ 47'11	2°16'05
morning rise	-2030 Jul 14 j 02:20	17° Υ 47'03		minimum elong	-2024 Sep 10 j 11:22	0° Υ 47'11	2°16'07
asc. node	-2030 Sep 09 j 11:17	23° Υ 50'38		max. Earth dist.	-2024 Sep 10 j 10:55	0° Υ 47'03	10.95883 AU
retrograde	-2030 Oct 23 j 23:38	25° Υ 36'56		morning rise	-2024 Sep 27 j 03:47	2° Υ 45'03	
opposition	-2030 Dec 29 j 14:45	22° Υ 12'13	0°12'10	retrograde	-2023 Jan 04 j 00:40	9° Υ 42'35	
min. Earth dist.	-2030 Dec 29 j 05:46	22° Υ 14'02	8.25880 AU	opposition	-2023 Mar 14 j 02:47	6° Υ 25'28	2°50'43
direct	-2029 Mar 08 j 03:20	18° Υ 43'22		min. Earth dist.	-2023 Mar 14 j 03:55	6° Υ 25'15	9.00727 AU
evening set	-2029 Jun 22 j 11:56	26° Υ 45'53		direct	-2023 May 24 j 13:13	3° Υ 03'10	
				evening set	-2023 Sep 05 j 08:58	10° Υ 15'32	
conjunction	-2029 Jul 10 j 10:19	29° Υ 00'37	0°26'30				
minimum elong	-2029 Jul 10 j 10:18	29° Υ 00'37	0°26'32	conjunction	-2023 Sep 22 j 01:55	12° Υ 12'35	2°22'03
max. Earth dist.	-2029 Jul 10 j 20:34	29° Υ 03'51	10.32410 AU	minimum elong	-2023 Sep 22 j 01:54	12° Υ 12'34	2°22'04
	-2029 Jul 18 j 06:48	0° Υ		max. Earth dist.	-2023 Sep 21 j 23:19	12° Υ 11'49	11.04733 AU
morning rise	-2029 Jul 28 j 04:11	1° Υ 13'57		morning rise	-2023 Oct 08 j 15:00	14° Υ 08'33	
retrograde	-2029 Nov 06 j 03:22	8° Υ 52'28		retrograde	-2022 Jan 15 j 14:04	21° Υ 02'21	
opposition	-2028 Jan 12 j 01:13	5° Υ 29'26	0°52'01	opposition	-2022 Mar 26 j 02:57	17° Υ 45'42	2°54'21
min. Earth dist.	-2028 Jan 11 j 17:19	5° Υ 31'00	8.39010 AU	min. Earth dist.	-2022 Mar 26 j 06:28	17° Υ 45'03	9.08541 AU
direct	-2028 Mar 21 j 05:08	2° Υ 01'25		direct	-2022 Jun 05 j 16:58	14° Υ 24'30	
evening set	-2028 Jul 05 j 11:09	9° Υ 55'23		evening set	-2022 Sep 16 j 20:31	21° Υ 30'54	
conjunction	-2028 Jul 23 j 04:46	12° Υ 06'47	0°57'24	conjunction	-2022 Oct 03 j 10:24	23° Υ 26'24	2°22'24
minimum elong	-2028 Jul 23 j 04:44	12° Υ 06'46	0°57'25	minimum elong	-2022 Oct 03 j 10:24	23° Υ 26'25	2°22'24

Attention, astronomical year style is used: The year -2022 in astronomical counting style is the year 2023 BCE in historical counting style.

max. Earth dist.	-2022 Oct 03 j 05:01	23° $\overline{\text{M}}$ 24'50	11.11386 AU	conjunction	-2016 Dec 07 j 07:49	0° $\overline{\text{A}}$ 10'54	0°44'34
morning rise	-2022 Oct 19 j 21:23	25° $\overline{\text{M}}$ 21'05		minimum elong	-2016 Dec 07 j 07:50	0° $\overline{\text{A}}$ 10'54	0°44'31
	-2022 Dec 05 j 05:59	0° $\overline{\text{A}}$		max. Earth dist.	-2016 Dec 06 j 21:36	0° $\overline{\text{A}}$ 07'52	10.98404 AU
retrograde	-2021 Jan 27 j 00:14	2° $\overline{\text{A}}$ 12'43		morning rise	-2016 Dec 24 j 00:13	2° $\overline{\text{A}}$ 09'07	
	-2021 Mar 23 j 07:34	30° $\overline{\text{R}}$ $\overline{\text{M}}$		retrograde	-2015 Apr 05 j 20:54	9° $\overline{\text{A}}$ 21'41	
opposition	-2021 Apr 07 j 00:21	28° $\overline{\text{M}}$ 56'16	2°51'19	opposition	-2015 Jun 15 j 21:19	6° $\overline{\text{A}}$ 01'18	0°37'22
min. Earth dist.	-2021 Apr 07 j 05:42	28° $\overline{\text{M}}$ 55'17	9.14019 AU	min. Earth dist.	-2015 Jun 16 j 05:53	5° $\overline{\text{A}}$ 59'42	8.93427 AU
direct	-2021 Jun 17 j 15:15	25° $\overline{\text{M}}$ 36'03		direct	-2015 Aug 24 j 17:01	2° $\overline{\text{A}}$ 43'08	
	-2021 Sep 03 j 20:23	0° $\overline{\text{A}}$		evening set	-2015 Dec 02 j 06:17	9° $\overline{\text{A}}$ 46'24	
evening set	-2021 Sep 28 j 02:38	2° $\overline{\text{A}}$ 37'43					
				conjunction	-2015 Dec 18 j 22:53	11° $\overline{\text{A}}$ 45'51	0°16'26
conjunction	-2021 Oct 14 j 14:34	4° $\overline{\text{A}}$ 32'15	2°17'22	minimum elong	-2015 Dec 18 j 22:54	11° $\overline{\text{A}}$ 45'51	0°16'22
minimum elong	-2021 Oct 14 j 14:36	4° $\overline{\text{A}}$ 32'16	2°17'21	max. Earth dist.	-2015 Dec 18 j 12:29	11° $\overline{\text{A}}$ 42'44	10.88071 AU
max. Earth dist.	-2021 Oct 14 j 07:30	4° $\overline{\text{A}}$ 30'12	11.15622 AU	morning rise	-2014 Jan 04 j 18:25	13° $\overline{\text{A}}$ 46'16	
morning rise	-2021 Oct 31 j 00:23	6° $\overline{\text{A}}$ 26'13		retrograde	-2014 Apr 18 j 13:01	21° $\overline{\text{A}}$ 07'38	
retrograde	-2020 Feb 07 j 12:01	13° $\overline{\text{A}}$ 17'20		opposition	-2014 Jun 28 j 09:22	17° $\overline{\text{A}}$ 45'51	0°01'53
opposition	-2020 Apr 17 j 20:22	10° $\overline{\text{A}}$ 00'50	2°41'57	min. Earth dist.	-2014 Jun 28 j 17:49	17° $\overline{\text{A}}$ 44'16	8.82197 AU
min. Earth dist.	-2020 Apr 18 j 02:29	9° $\overline{\text{A}}$ 59'42	9.16966 AU	desc. node	-2014 Jul 17 j 21:48	16° $\overline{\text{A}}$ 20'41	
direct	-2020 Jun 28 j 10:53	6° $\overline{\text{A}}$ 41'29		direct	-2014 Sep 05 j 14:06	14° $\overline{\text{A}}$ 27'10	
evening set	-2020 Oct 08 j 05:09	13° $\overline{\text{A}}$ 39'41		evening set	-2014 Dec 14 j 02:56	21° $\overline{\text{A}}$ 36'13	
conjunction	-2020 Oct 24 j 16:08	15° $\overline{\text{A}}$ 33'50	2°07'14	conjunction	-2014 Dec 30 j 22:01	23° $\overline{\text{A}}$ 37'54	0°-13'-4
minimum elong	-2020 Oct 24 j 16:10	15° $\overline{\text{A}}$ 33'51	2°07'13	minimum elong	-2014 Dec 30 j 22:01	23° $\overline{\text{A}}$ 37'54	0°13'08
max. Earth dist.	-2020 Oct 24 j 08:26	15° $\overline{\text{A}}$ 31'36	11.17285 AU	behind sun begin	-2014 Dec 30 j 17:45	23° $\overline{\text{A}}$ 36'37	
morning rise	-2020 Nov 10 j 01:35	17° $\overline{\text{A}}$ 27'37		behind sun end	-2014 Dec 31 j 02:17	23° $\overline{\text{A}}$ 39'10	
retrograde	-2019 Feb 18 j 01:14	24° $\overline{\text{A}}$ 19'49		max. Earth dist.	-2014 Dec 30 j 11:33	23° $\overline{\text{A}}$ 34'44	10.76103 AU
opposition	-2019 Apr 29 j 16:19	21° $\overline{\text{A}}$ 03'02	2°26'39	morning rise	-2013 Jan 16 j 20:59	25° $\overline{\text{A}}$ 40'47	
min. Earth dist.	-2019 Apr 29 j 23:22	21° $\overline{\text{A}}$ 01'45	9.17285 AU		-2013 Feb 25 j 22:17	0° $\overline{\text{A}}$	
direct	-2019 Jul 10 j 01:33	17° $\overline{\text{A}}$ 44'25		retrograde	-2013 May 01 j 11:23	3° $\overline{\text{A}}$ 12'10	
evening set	-2019 Oct 19 j 06:07	24° $\overline{\text{A}}$ 40'33			-2013 Jul 08 j 16:50	30° $\overline{\text{R}}$ $\overline{\text{A}}$	
				opposition	-2013 Jul 11 j 03:24	29° $\overline{\text{A}}$ 48'52	0°-34'-40
conjunction	-2019 Nov 04 j 16:52	26° $\overline{\text{A}}$ 34'49	1°52'23	min. Earth dist.	-2013 Jul 11 j 11:35	29° $\overline{\text{A}}$ 47'18	8.69563 AU
minimum elong	-2019 Nov 04 j 16:55	26° $\overline{\text{A}}$ 34'50	1°52'23	direct	-2013 Sep 17 j 18:50	26° $\overline{\text{A}}$ 29'21	
max. Earth dist.	-2019 Nov 04 j 07:49	26° $\overline{\text{A}}$ 32'11	11.16325 AU		-2013 Nov 22 j 12:20	0° $\overline{\text{A}}$	
morning rise	-2019 Nov 21 j 03:01	28° $\overline{\text{A}}$ 29'00		evening set	-2013 Dec 26 j 08:44	3° $\overline{\text{A}}$ 45'44	
	-2019 Dec 04 j 17:47	0° $\overline{\text{M}}$					
retrograde	-2018 Mar 01 j 16:10	5° $\overline{\text{M}}$ 23'54		conjunction	-2012 Jan 12 j 06:45	5° $\overline{\text{A}}$ 49'57	0°-42'-38
opposition	-2018 May 11 j 13:17	2° $\overline{\text{M}}$ 06'35	2°05'55	minimum elong	-2012 Jan 12 j 06:43	5° $\overline{\text{A}}$ 49'57	0°42'41
min. Earth dist.	-2018 May 11 j 21:56	2° $\overline{\text{M}}$ 05'00	9.14978 AU	max. Earth dist.	-2012 Jan 11 j 21:27	5° $\overline{\text{A}}$ 47'06	10.62937 AU
	-2018 Jun 11 j 20:35	30° $\overline{\text{R}}$ $\overline{\text{A}}$		morning rise	-2012 Jan 29 j 09:11	7° $\overline{\text{A}}$ 55'33	
direct	-2018 Jul 21 j 15:26	28° $\overline{\text{A}}$ 48'25		retrograde	-2012 May 13 j 20:49	15° $\overline{\text{A}}$ 37'55	
	-2018 Aug 29 j 10:43	0° $\overline{\text{M}}$		opposition	-2012 Jul 23 j 04:24	12° $\overline{\text{A}}$ 13'00	-1°-10'-46
evening set	-2018 Oct 30 j 07:11	5° $\overline{\text{M}}$ 44'01		min. Earth dist.	-2012 Jul 23 j 11:30	12° $\overline{\text{A}}$ 11'38	8.55996 AU
				direct	-2012 Sep 29 j 06:23	8° $\overline{\text{A}}$ 52'28	
conjunction	-2018 Nov 15 j 18:27	7° $\overline{\text{M}}$ 38'54	1°33'17	evening set	-2011 Jan 07 j 01:07	16° $\overline{\text{A}}$ 17'30	
minimum elong	-2018 Nov 15 j 18:29	7° $\overline{\text{M}}$ 38'55	1°33'16				
max. Earth dist.	-2018 Nov 15 j 07:39	7° $\overline{\text{M}}$ 35'45	11.12776 AU	conjunction	-2011 Jan 24 j 02:24	18° $\overline{\text{A}}$ 24'29	-1°-10'-59
morning rise	-2018 Dec 02 j 06:13	9° $\overline{\text{M}}$ 33'59		minimum elong	-2011 Jan 24 j 02:22	18° $\overline{\text{A}}$ 24'28	1°11'02
	-2017 Jan 28 j 00:33	15° $\overline{\text{M}}$		max. Earth dist.	-2011 Jan 23 j 19:12	18° $\overline{\text{A}}$ 22'14	10.49066 AU
retrograde	-2017 Mar 13 j 11:45	16° $\overline{\text{M}}$ 33'12		morning rise	-2011 Feb 10 j 08:21	20° $\overline{\text{A}}$ 33'00	
	-2017 Apr 28 j 08:50	15° $\overline{\text{R}}$ $\overline{\text{M}}$		retrograde	-2011 May 27 j 16:06	28° $\overline{\text{A}}$ 26'54	
opposition	-2017 May 23 j 12:21	13° $\overline{\text{M}}$ 15'05	1°40'19	opposition	-2011 Aug 05 j 12:38	25° $\overline{\text{A}}$ 00'23	-1°-44'-36
min. Earth dist.	-2017 May 23 j 21:57	13° $\overline{\text{M}}$ 13'19	9.10112 AU	min. Earth dist.	-2011 Aug 05 j 17:45	24° $\overline{\text{A}}$ 59'23	8.42028 AU
direct	-2017 Aug 02 j 06:13	9° $\overline{\text{M}}$ 57'10		direct	-2011 Oct 12 j 00:24	21° $\overline{\text{A}}$ 38'39	
	-2017 Oct 24 j 10:20	15° $\overline{\text{M}}$		evening set	-2010 Jan 20 j 05:40	29° $\overline{\text{A}}$ 13'35	
evening set	-2017 Nov 10 j 10:18	16° $\overline{\text{M}}$ 53'44			-2010 Jan 26 j 10:16	0° \approx	
conjunction	-2017 Nov 26 j 22:51	18° $\overline{\text{M}}$ 49'44	1°10'27	conjunction	-2010 Feb 06 j 10:23	1° \approx 23'29	-1°-36'-35
minimum elong	-2017 Nov 26 j 22:53	18° $\overline{\text{M}}$ 49'44	1°10'25	minimum elong	-2010 Feb 06 j 10:20	1° \approx 23'28	1°36'37
max. Earth dist.	-2017 Nov 26 j 12:00	18° $\overline{\text{M}}$ 46'32	11.06736 AU	max. Earth dist.	-2010 Feb 06 j 04:53	1° \approx 21'45	10.35097 AU
morning rise	-2017 Dec 13 j 12:43	20° $\overline{\text{M}}$ 46'10		morning rise	-2010 Feb 23 j 19:57	3° \approx 35'00	
retrograde	-2016 Mar 24 j 11:48	27° $\overline{\text{M}}$ 51'18		retrograde	-2010 Jun 10 j 20:20	11° \approx 40'23	
opposition	-2016 Jun 03 j 14:36	24° $\overline{\text{M}}$ 32'09	1°10'31	opposition	-2010 Aug 19 j 04:12	8° \approx 12'23	-2°-14'-9
min. Earth dist.	-2016 Jun 03 j 23:56	24° $\overline{\text{M}}$ 30'25	9.02843 AU	min. Earth dist.	-2010 Aug 19 j 07:16	8° \approx 11'47	8.28359 AU
direct	-2016 Aug 12 j 22:04	21° $\overline{\text{M}}$ 14'14		direct	-2010 Oct 25 j 03:11	4° \approx 49'19	
evening set	-2016 Nov 20 j 17:23	28° $\overline{\text{M}}$ 13'22		evening set	-2009 Feb 02 j 22:50	12° \approx 34'51	
	-2016 Dec 05 j 19:08	0° $\overline{\text{A}}$					

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Attention, astronomical year style is used: The year -2009 in astronomical counting style is the year 2010 BCE in historical counting style.

conjunction	-2009 Feb 20 j 07:08	14° 47 43	-1°-57'-44	morning rise	-2003 Jun 07 j 16:15	13° 8 20'14	
minimum elong	-2009 Feb 20 j 07:05	14° 47 42	1°57'46		-2003 Jun 20 j 21:20	15° 8	
max. Earth dist.	-2009 Feb 20 j 03:34	14° 46 34	10.21828 AU	retrograde	-2003 Sep 20 j 06:32	21° 8 37'37	
	-2009 Feb 21 j 21:23	15° 8		opposition	-2003 Nov 25 j 16:26	18° 8 08'28	-1°-29'-3
morning rise	-2009 Mar 09 j 20:26	17° 8 02'12		min. Earth dist.	-2003 Nov 25 j 06:38	18° 8 10'30	7.99140 AU
retrograde	-2009 Jun 25 j 08:52	25° 8 18'06			-2002 Jan 11 j 20:08	15° R 8	
opposition	-2009 Sep 02 j 03:07	21° 8 48'49	-2°-37'-13	direct	-2002 Jan 31 j 15:57	14° 8 38'09	
min. Earth dist.	-2009 Sep 02 j 04:08	21° 8 48'37	8.15822 AU		-2002 Feb 20 j 13:11	15° 8	
direct	-2009 Nov 07 j 15:01	18° 8 24'19		evening set	-2002 May 17 j 14:22	22° 8 57'06	
evening set	-2008 Feb 17 j 04:13	26° 8 20'22					
				conjunction	-2002 Jun 04 j 19:22	25° 8 18'19	0°-55'-32
conjunction	-2008 Mar 05 j 16:22	28° 8 36'05	-2°-12'-46	minimum elong	-2002 Jun 04 j 19:25	25° 8 18'20	0°55'31
minimum elong	-2008 Mar 05 j 16:20	28° 8 36'04	2°12'48	max. Earth dist.	-2002 Jun 05 j 08:37	25° 8 22'37	10.03122 AU
max. Earth dist.	-2008 Mar 05 j 15:15	28° 8 35'43	10.10109 AU	morning rise	-2002 Jun 22 j 22:22	27° 8 38'51	
	-2008 Mar 16 j 11:04	0° 8			-2002 Jul 12 j 00:46	0° II	
morning rise	-2008 Mar 23 j 09:24	0° 8 53'22		retrograde	-2002 Oct 04 j 10:13	5° II 45'55	
retrograde	-2008 Jul 09 j 03:55	9° 8 17'53		opposition	-2002 Dec 09 j 19:37	2° II 18'10	0°-49'-8
opposition	-2008 Sep 15 j 08:18	5° 8 47'35	-2°-51'-45	min. Earth dist.	-2002 Dec 09 j 10:01	2° II 20'09	8.07789 AU
min. Earth dist.	-2008 Sep 15 j 07:25	5° 8 47'46	8.05228 AU		-2001 Jan 09 j 09:02	30° R 8	
direct	-2008 Nov 20 j 12:15	2° 8 21'37		direct	-2001 Feb 15 j 08:43	28° 8 47'57	
evening set	-2007 Mar 02 j 21:07	10° 8 27'22			-2001 Mar 24 j 06:16	0° II	
				evening set	-2001 Jun 01 j 14:40	7° II 01'33	
conjunction	-2007 Mar 20 j 13:22	12° 8 45'40	-2°-20'-14				
minimum elong	-2007 Mar 20 j 13:22	12° 8 45'40	2°20'16	conjunction	-2001 Jun 19 j 18:04	9° II 20'38	0°-22'-30
max. Earth dist.	-2007 Mar 20 j 15:16	12° 8 46'18	10.00711 AU	minimum elong	-2001 Jun 19 j 18:06	9° II 20'39	0°22'29
morning rise	-2007 Apr 07 j 10:00	15° 8 05'23		max. Earth dist.	-2001 Jun 20 j 06:34	9° II 24'39	10.13109 AU
retrograde	-2007 Jul 24 j 02:41	23° 8 35'37		morning rise	-2001 Jul 07 j 18:21	11° II 38'43	
opposition	-2007 Sep 29 j 18:07	20° 8 04'40	-2°-56'-6	retrograde	-2001 Oct 18 j 03:38	19° II 34'20	
min. Earth dist.	-2007 Sep 29 j 15:14	20° 8 05'16	7.97273 AU	opposition	-2001 Dec 23 j 16:18	16° II 08'13	0°-7'-18
direct	-2007 Dec 04 j 18:22	16° 8 37'20		min. Earth dist.	-2001 Dec 23 j 07:26	16° II 10'02	8.18855 AU
evening set	-2006 Mar 17 j 23:23	24° 8 51'08		asc. node	-2000 Feb 28 j 00:55	12° II 38'38	
				direct	-2000 Feb 29 j 21:22	12° II 38'27	
conjunction	-2006 Apr 04 j 19:45	27° 8 11'35	-2°-19'-9	evening set	-2000 Jun 15 j 05:43	20° II 44'56	
minimum elong	-2006 Apr 04 j 19:47	27° 8 11'36	2°19'10				
max. Earth dist.	-2006 Apr 05 j 01:00	27° 8 13'19	9.94267 AU	conjunction	-2000 Jul 03 j 06:00	23° II 01'14	0°11'09
morning rise	-2006 Apr 22 j 19:36	29° 8 33'10		minimum elong	-2000 Jul 03 j 05:59	23° II 01'14	0°11'11
	-2006 Apr 26 j 07:00	0° 9		behind sun begin	-2000 Jul 03 j 00:38	22° II 59'33	
retrograde	-2006 Aug 08 j 02:31	8° 9 05'36		behind sun end	-2000 Jul 03 j 11:19	23° II 02'54	
opposition	-2006 Oct 14 j 06:50	4° 9 34'26	-2°-49'-21	max. Earth dist.	-2000 Jul 03 j 16:54	23° II 04'41	10.25151 AU
min. Earth dist.	-2006 Oct 14 j 01:39	4° 9 35'31	7.92489 AU	morning rise	-2000 Jul 21 j 02:17	25° II 16'15	
direct	-2006 Dec 19 j 07:55	1° 9 05'56			-2000 Sep 01 j 08:48	0° 9	
evening set	-2005 Apr 02 j 07:57	9° 9 25'21		retrograde	-2000 Oct 30 j 10:34	3° 9 00'12	
					-2000 Dec 31 j 05:39	30° R II	
conjunction	-2005 Apr 20 j 08:06	11° 9 47'19	-2°-9'-14	opposition	-1999 Jan 05 j 05:58	29° II 35'51	0°33'43
minimum elong	-2005 Apr 20 j 08:09	11° 9 47'20	2°09'14	min. Earth dist.	-1999 Jan 04 j 21:56	29° II 37'28	8.31643 AU
max. Earth dist.	-2005 Apr 20 j 16:34	11° 9 50'07	9.91217 AU	direct	-1999 Mar 15 j 03:12	26° II 06'51	
morning rise	-2005 May 08 j 10:29	14° 9 10'01			-1999 May 24 j 08:25	0° 9	
retrograde	-2005 Aug 23 j 00:21	22° 9 40'51		evening set	-1999 Jun 29 j 10:01	4° 9 05'03	
opposition	-2005 Oct 28 j 20:16	19° 9 09'56	-2°-31'-37				
min. Earth dist.	-2005 Oct 28 j 12:52	19° 9 11'29	7.91197 AU	conjunction	-1999 Jul 17 j 05:54	6° 9 18'06	0°43'16
direct	-2004 Jan 03 j 01:32	15° 9 40'32		minimum elong	-1999 Jul 17 j 05:52	6° 9 18'06	0°43'18
evening set	-2004 Apr 16 j 19:45	24° 9 02'41		max. Earth dist.	-1999 Jul 17 j 14:59	6° 9 20'57	10.38522 AU
				morning rise	-1999 Aug 03 j 21:12	8° 9 29'41	
conjunction	-2004 May 04 j 22:54	26° 9 25'22	-1°-51'00	retrograde	-1999 Nov 12 j 09:21	16° 9 02'29	
minimum elong	-2004 May 04 j 22:58	26° 9 25'23	1°51'00	opposition	-1998 Jan 18 j 12:19	12° 9 39'52	1°11'41
max. Earth dist.	-2004 May 05 j 09:58	26° 9 29'01	9.91765 AU	min. Earth dist.	-1998 Jan 18 j 04:53	12° 9 41'21	8.45420 AU
morning rise	-2004 May 23 j 02:53	28° 9 48'18		direct	-1998 Mar 29 j 00:38	9° 9 11'58	
	-2004 Jun 01 j 11:51	0° 8		evening set	-1998 Jul 13 j 02:45	17° 9 01'15	
retrograde	-2004 Sep 05 j 18:23	7° 8 13'55					
opposition	-2004 Nov 11 j 08:04	3° 8 43'40	-2°-4'-8	conjunction	-1998 Jul 30 j 17:33	19° 9 10'53	1°12'21
min. Earth dist.	-2004 Nov 10 j 23:02	3° 8 45'34	7.93477 AU	minimum elong	-1998 Jul 30 j 17:30	19° 9 10'52	1°12'23
direct	-2003 Jan 16 j 20:46	0° 8 13'38		max. Earth dist.	-1998 Jul 31 j 01:09	19° 9 13'14	10.52497 AU
evening set	-2003 May 02 j 07:05	8° 8 35'36		morning rise	-1998 Aug 17 j 03:16	21° 9 18'57	
				retrograde	-1998 Nov 24 j 23:38	28° 9 41'32	
conjunction	-2003 May 20 j 12:00	10° 8 58'02	-1°-25'-47	opposition	-1997 Jan 31 j 11:37	25° 9 20'35	1°44'52
minimum elong	-2003 May 20 j 12:03	10° 8 58'03	1°25'47	min. Earth dist.	-1997 Jan 31 j 05:19	25° 9 21'49	8.59467 AU
max. Earth dist.	-2003 May 21 j 00:42	11° 8 02'12	9.95840 AU	direct	-1997 Apr 11 j 13:28	21° 9 53'58	

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Attention, astronomical year style is used: The year -1997 in astronomical counting style is the year 1998 BCE in historical counting style.

evening set	-1997 Jul 26 j 07:47	29°♄34'11		conjunction	-1991 Oct 19 j 23:52	10°♃45'09	2°12'24
	-1997 Jul 29 j 22:02	0°♃		minimum elong	-1991 Oct 19 j 23:54	10°♃45'10	2°12'23
				max. Earth dist.	-1991 Oct 19 j 15:22	10°♃42'40	11.17694 AU
conjunction	-1997 Aug 12 j 17:11	1°♃40'26	1°37'11	morning rise	-1991 Nov 05 j 09:24	12°♃38'55	
minimum elong	-1997 Aug 12 j 17:08	1°♃40'25	1°37'13	retrograde	-1990 Feb 13 j 03:33	19°♃30'28	
max. Earth dist.	-1997 Aug 12 j 23:21	1°♃42'19	10.66374 AU	opposition	-1990 Apr 24 j 15:22	16°♃14'20	2°34'15
morning rise	-1997 Aug 29 j 21:16	3°♃45'07		min. Earth dist.	-1990 Apr 24 j 23:32	16°♃12'51	9.18209 AU
retrograde	-1997 Dec 07 j 06:30	10°♃58'44		direct	-1990 Jul 05 j 01:55	12°♃55'49	
opposition	-1996 Feb 13 j 04:25	7°♃39'18	2°12'08	evening set	-1990 Oct 14 j 14:36	19°♃52'53	
min. Earth dist.	-1996 Feb 13 j 00:11	7°♃40'07	8.73100 AU				
direct	-1996 Apr 23 j 18:20	4°♃14'03		conjunction	-1990 Oct 31 j 01:18	21°♃47'02	1°59'40
evening set	-1996 Aug 07 j 01:54	11°♃45'30		minimum elong	-1990 Oct 31 j 01:20	21°♃47'02	1°59'39
				max. Earth dist.	-1990 Oct 30 j 15:11	21°♃44'05	11.17682 AU
conjunction	-1996 Aug 24 j 05:50	13°♃48'35	1°56'58	morning rise	-1990 Nov 16 j 11:08	23°♃40'58	
minimum elong	-1996 Aug 24 j 05:47	13°♃48'34	1°57'00		-1989 Jan 29 j 00:51	0°♃	
max. Earth dist.	-1996 Aug 24 j 09:32	13°♃49'42	10.79508 AU	retrograde	-1989 Feb 24 j 17:33	0°♃34'34	
	-1996 Sep 03 j 03:37	15°♃			-1989 Mar 23 j 21:41	30°R♃	
morning rise	-1996 Sep 10 j 04:40	15°♃50'10		opposition	-1989 May 06 j 11:53	27°♃17'53	2°15'57
retrograde	-1996 Dec 18 j 06:40	22°♃56'12		min. Earth dist.	-1989 May 06 j 20:54	27°♃16'14	9.16764 AU
opposition	-1995 Feb 24 j 15:22	19°♃38'05	2°32'47	direct	-1989 Jul 16 j 18:05	23°♃59'48	
min. Earth dist.	-1995 Feb 24 j 13:43	19°♃38'24	8.85714 AU		-1989 Oct 17 j 10:07	0°♃	
direct	-1995 May 06 j 14:12	16°♃14'14		evening set	-1989 Oct 25 j 15:51	0°♃55'44	
evening set	-1995 Aug 19 j 09:46	23°♃37'27					
				conjunction	-1989 Nov 11 j 02:55	2°♃50'19	1°42'27
conjunction	-1995 Sep 05 j 08:35	25°♃37'44	2°11'15	minimum elong	-1989 Nov 11 j 02:58	2°♃50'20	1°42'26
minimum elong	-1995 Sep 05 j 08:33	25°♃37'43	2°11'17	max. Earth dist.	-1989 Nov 10 j 16:22	2°♃47'14	11.14909 AU
max. Earth dist.	-1995 Sep 05 j 09:07	25°♃37'53	10.91358 AU	morning rise	-1989 Nov 27 j 13:46	4°♃44'56	
morning rise	-1995 Sep 22 j 02:57	27°♃36'41		retrograde	-1988 Mar 07 j 12:41	11°♃42'11	
	-1995 Oct 13 j 12:28	0°♃		opposition	-1988 May 17 j 10:15	8°♃24'40	1°52'31
retrograde	-1995 Dec 30 j 00:02	4°♃36'39		min. Earth dist.	-1988 May 17 j 19:45	8°♃22'56	9.12607 AU
opposition	-1994 Mar 08 j 21:23	1°♃19'32	2°46'32	direct	-1988 Jul 27 j 08:49	5°♃06'49	
min. Earth dist.	-1994 Mar 08 j 21:35	1°♃19'30	8.96797 AU	evening set	-1988 Nov 04 j 18:13	12°♃03'01	
	-1994 Mar 27 j 01:18	30°R♃					
direct	-1994 May 19 j 04:13	27°♃57'03		conjunction	-1988 Nov 21 j 06:11	13°♃58'31	1°21'15
	-1994 Jul 09 j 19:59	0°♃		minimum elong	-1988 Nov 21 j 06:13	13°♃58'32	1°21'14
evening set	-1994 Aug 31 j 08:18	5°♃12'47		max. Earth dist.	-1988 Nov 20 j 18:29	13°♃55'05	11.09517 AU
					-1988 Nov 29 j 23:41	15°♃	
conjunction	-1994 Sep 17 j 02:53	7°♃10'43	2°19'51	morning rise	-1988 Dec 07 j 18:54	15°♃54'20	
minimum elong	-1994 Sep 17 j 02:52	7°♃10'42	2°19'52	retrograde	-1987 Mar 19 j 10:30	22°♃56'50	
max. Earth dist.	-1994 Sep 17 j 01:06	7°♃10'11	11.01461 AU	opposition	-1987 May 29 j 11:31	19°♃38'12	1°24'33
morning rise	-1994 Oct 03 j 17:35	9°♃07'31		min. Earth dist.	-1987 May 29 j 21:57	19°♃36'17	9.05926 AU
retrograde	-1993 Jan 10 j 15:55	16°♃03'00		direct	-1987 Aug 07 j 22:59	16°♃20'14	
opposition	-1993 Mar 20 j 23:14	12°♃46'35	2°53'20	evening set	-1987 Nov 15 j 23:40	23°♃18'21	
min. Earth dist.	-1993 Mar 21 j 00:50	12°♃46'18	9.05906 AU				
direct	-1993 May 31 j 12:20	9°♃25'22		conjunction	-1987 Dec 02 j 13:06	25°♃15'12	0°56'41
evening set	-1993 Sep 11 j 23:15	16°♃34'33		minimum elong	-1987 Dec 02 j 13:08	25°♃15'13	0°56'39
				max. Earth dist.	-1987 Dec 02 j 00:25	25°♃11'27	11.01721 AU
conjunction	-1993 Sep 28 j 14:34	18°♃30'42	2°22'47	morning rise	-1987 Dec 19 j 04:25	27°♃12'40	
minimum elong	-1993 Sep 28 j 14:34	18°♃30'42	2°22'47		-1986 Jan 13 j 13:22	0°♃	
max. Earth dist.	-1993 Sep 28 j 11:15	18°♃29'44	11.09416 AU	retrograde	-1986 Mar 31 j 14:44	4°♃21'57	
morning rise	-1993 Oct 15 j 02:24	20°♃25'54		opposition	-1986 Jun 10 j 16:22	1°♃01'57	0°52'49
retrograde	-1992 Jan 22 j 04:25	27°♃18'24		min. Earth dist.	-1986 Jun 11 j 03:20	0°♃59'56	8.96977 AU
opposition	-1992 Mar 31 j 21:58	24°♃02'24	2°53'20		-1986 Jun 24 j 19:58	30°R♃	
min. Earth dist.	-1992 Apr 01 j 01:26	24°♃01'45	9.12680 AU	direct	-1986 Aug 19 j 17:35	27°♃43'37	
direct	-1992 Jun 11 j 12:02	20°♃42'17			-1986 Oct 11 j 23:08	0°♃	
evening set	-1992 Sep 22 j 08:12	27°♃46'04		evening set	-1986 Nov 27 j 09:52	4°♃45'13	
conjunction	-1992 Oct 08 j 21:03	29°♃40'59	2°20'13	conjunction	-1986 Dec 14 j 01:27	6°♃43'53	0°29'28
minimum elong	-1992 Oct 08 j 21:04	29°♃40'59	2°20'12	minimum elong	-1986 Dec 14 j 01:28	6°♃43'53	0°29'25
max. Earth dist.	-1992 Oct 08 j 15:35	29°♃39'23	11.14905 AU	max. Earth dist.	-1986 Dec 13 j 13:17	6°♃40'15	10.91795 AU
	-1992 Oct 11 j 14:15	0°♃		morning rise	-1986 Dec 30 j 19:40	8°♃43'23	
morning rise	-1992 Oct 25 j 07:08	1°♃35'10		retrograde	-1985 Apr 13 j 02:13	16°♃00'56	
retrograde	-1991 Feb 01 j 15:56	8°♃26'20		opposition	-1985 Jun 23 j 02:02	12°♃39'24	0°18'15
opposition	-1991 Apr 12 j 19:03	5°♃10'26	2°46'51	min. Earth dist.	-1985 Jun 23 j 12:11	12°♃37'30	8.86076 AU
min. Earth dist.	-1991 Apr 13 j 01:14	5°♃09'18	9.16840 AU	direct	-1985 Aug 31 j 14:46	9°♃20'29	
direct	-1991 Jun 23 j 08:41	1°♃51'12		evening set	-1985 Dec 09 j 02:46	16°♃27'13	
evening set	-1991 Oct 03 j 12:39	8°♃50'55					

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Attention, astronomical year style is used: The year -1985 in astronomical counting style is the year 1986 BCE in historical counting style.

conjunction	-1985 Dec 25 j 20:51	18°♂28'01	0°00'28	opposition	-1979 Sep 09 j 08:11	29°♁43'04	-2°-46'-27
minimum elong	-1985 Dec 25 j 20:52	18°♂28'01	0°00'24	min. Earth dist.	-1979 Sep 09 j 07:07	29°♁43'17	8.08413 AU
behind sun begin	-1985 Dec 25 j 13:52	18°♂25'56		direct	-1979 Nov 14 j 15:49	26°♁17'22	
behind sun end	-1985 Dec 26 j 03:52	18°♂30'06			-1978 Jan 18 j 23:29	0°♁	
max. Earth dist.	-1985 Dec 25 j 10:06	18°♂24'47	10.80087 AU	evening set	-1978 Feb 24 j 14:55	4°♁19'25	
desc. node	-1985 Dec 31 j 13:29	19°♂09'22					
morning rise	-1984 Jan 11 j 18:10	20°♂29'53		conjunction	-1978 Mar 14 j 05:28	6°♁36'45	-2°-17'-53
retrograde	-1984 Apr 24 j 22:34	27°♂57'07		minimum elong	-1978 Mar 14 j 05:27	6°♁36'45	2°17'55
opposition	-1984 Jul 04 j 17:29	24°♂33'56	0°-18'00	max. Earth dist.	-1978 Mar 14 j 08:19	6°♁37'41	10.03500 AU
min. Earth dist.	-1984 Jul 05 j 02:03	24°♂32'18	8.73630 AU	morning rise	-1978 Apr 01 j 00:21	8°♁55'33	
direct	-1984 Sep 11 j 16:49	21°♂14'13		retrograde	-1978 Jul 17 j 18:48	17°♁24'10	
evening set	-1984 Dec 20 j 04:20	28°♂27'40		opposition	-1978 Sep 23 j 16:15	13°♁53'10	-2°-55'-31
	-1983 Jan 01 j 20:17	0°♁		min. Earth dist.	-1978 Sep 23 j 12:29	13°♁53'56	7.99587 AU
				direct	-1978 Nov 28 j 17:42	10°♁26'16	
conjunction	-1983 Jan 06 j 01:09	0°♁30'56	0°-29'-15	evening set	-1977 Mar 11 j 13:30	18°♁37'08	
minimum elong	-1983 Jan 06 j 01:07	0°♁30'55	0°29'19				
max. Earth dist.	-1983 Jan 05 j 15:15	0°♁27'54	10.67058 AU	conjunction	-1977 Mar 29 j 08:04	20°♁56'48	-2°-20'-43
morning rise	-1983 Jan 23 j 01:54	2°♁35'28		minimum elong	-1977 Mar 29 j 08:05	20°♁56'48	2°20'44
retrograde	-1983 May 08 j 05:03	10°♁13'25		max. Earth dist.	-1977 Mar 29 j 13:53	20°♁58'43	9.96062 AU
opposition	-1983 Jul 17 j 15:33	6°♁48'34	0°-54'-34	morning rise	-1977 Apr 16 j 06:22	23°♁17'43	
min. Earth dist.	-1983 Jul 17 j 22:48	6°♁47'11	8.60143 AU		-1977 Jun 17 j 03:15	0°♁	
direct	-1983 Sep 23 j 23:30	3°♁27'52		retrograde	-1977 Aug 01 j 19:34	1°♁50'08	
evening set	-1982 Jan 01 j 16:02	10°♁49'32			-1977 Sep 17 j 00:18	30°♁	
				opposition	-1977 Oct 08 j 04:21	28°♁18'55	-2°-53'-44
conjunction	-1982 Jan 18 j 15:49	12°♁55'29	0°-58'-23	min. Earth dist.	-1977 Oct 07 j 22:28	28°♁20'09	7.93731 AU
minimum elong	-1982 Jan 18 j 15:47	12°♁55'28	0°58'26	direct	-1977 Dec 13 j 03:29	24°♁50'58	
max. Earth dist.	-1982 Jan 18 j 06:42	12°♁52'39	10.53245 AU		-1976 Feb 29 j 09:37	0°♁	
morning rise	-1982 Feb 04 j 20:17	15°♁02'55		evening set	-1976 Mar 25 j 19:54	3°♁08'32	
retrograde	-1982 May 21 j 19:22	22°♁52'18					
opposition	-1982 Jul 30 j 20:50	19°♁25'49	-1°-29'-44	conjunction	-1976 Apr 12 j 18:21	5°♁30'00	-2°-14'-42
min. Earth dist.	-1982 Jul 31 j 02:58	19°♁24'37	8.46191 AU	minimum elong	-1976 Apr 12 j 18:24	5°♁30'01	2°14'42
direct	-1982 Oct 06 j 14:19	16°♁03'57		max. Earth dist.	-1976 Apr 13 j 02:50	5°♁32'48	9.91870 AU
evening set	-1981 Jan 14 j 15:13	23°♁35'07		morning rise	-1976 Apr 30 j 19:40	7°♁52'22	
				retrograde	-1976 Aug 15 j 19:49	16°♁24'50	
conjunction	-1981 Jan 31 j 18:16	25°♁43'54	-1°-25'-28	opposition	-1976 Oct 21 j 18:11	12°♁53'53	-2°-40'-45
minimum elong	-1981 Jan 31 j 18:13	25°♁43'53	1°25'31	min. Earth dist.	-1976 Oct 21 j 10:46	12°♁55'26	7.91272 AU
max. Earth dist.	-1981 Jan 31 j 11:10	25°♁41'40	10.39263 AU	direct	-1976 Dec 26 j 19:15	9°♁25'04	
morning rise	-1981 Feb 18 j 02:23	27°♁54'18		evening set	-1975 Apr 10 j 07:16	17°♁46'39	
	-1981 Mar 07 j 13:42	0°♁					
retrograde	-1981 Jun 04 j 18:34	5°♁55'18		conjunction	-1975 Apr 28 j 09:03	20°♁09'10	-2°00'-1
opposition	-1981 Aug 13 j 09:29	2°♁27'18	-2°-1'-33	minimum elong	-1975 Apr 28 j 09:07	20°♁09'11	2°00'01
min. Earth dist.	-1981 Aug 13 j 13:55	2°♁26'25	8.32434 AU	max. Earth dist.	-1975 Apr 28 j 19:42	20°♁12'41	9.91229 AU
	-1981 Sep 17 j 01:38	30°♁		morning rise	-1975 May 16 j 12:32	22°♁32'09	
direct	-1981 Oct 19 j 14:41	29°♁04'11			-1975 Jul 28 j 12:04	0°♁	
	-1981 Nov 20 j 13:22	0°♁		retrograde	-1975 Aug 30 j 16:30	1°♁00'47	
evening set	-1980 Jan 28 j 02:42	6°♁45'37			-1975 Oct 03 j 00:37	30°♁	
				opposition	-1975 Nov 05 j 07:25	27°♁30'32	-2°-17'-21
conjunction	-1980 Feb 14 j 09:21	8°♁57'22	-1°-48'-52	min. Earth dist.	-1975 Nov 04 j 22:49	27°♁32'20	7.92393 AU
minimum elong	-1980 Feb 14 j 09:18	8°♁57'21	1°48'54	direct	-1974 Jan 10 j 14:42	24°♁01'08	
max. Earth dist.	-1980 Feb 14 j 05:23	8°♁56'06	10.25814 AU		-1974 Apr 06 j 15:15	0°♁	
morning rise	-1980 Mar 02 j 21:05	11°♁10'45		evening set	-1974 Apr 25 j 19:44	2°♁23'43	
	-1980 Apr 04 j 12:35	15°♁					
retrograde	-1980 Jun 18 j 03:21	19°♁22'47		conjunction	-1974 May 13 j 23:50	4°♁46'21	-1°-37'-40
opposition	-1980 Aug 26 j 05:30	15°♁53'27	-2°-27'-50	minimum elong	-1974 May 13 j 23:54	4°♁46'22	1°37'39
min. Earth dist.	-1980 Aug 26 j 07:19	15°♁53'05	8.19598 AU	max. Earth dist.	-1974 May 14 j 12:00	4°♁50'21	9.94184 AU
	-1980 Sep 06 j 10:21	15°♁		morning rise	-1974 Jun 01 j 04:15	7°♁09'00	
direct	-1980 Oct 31 j 23:04	12°♁29'02			-1974 Aug 22 j 01:14	15°♁	
	-1980 Dec 24 j 03:53	15°♁		retrograde	-1974 Sep 14 j 07:37	15°♁30'27	
evening set	-1979 Feb 10 j 02:44	20°♁20'59			-1974 Oct 07 j 15:05	15°♁	
				opposition	-1974 Nov 19 j 18:00	12°♁01'16	-1°-45'-17
conjunction	-1979 Feb 27 j 13:16	22°♁35'38	-2°-6'-52	min. Earth dist.	-1974 Nov 19 j 08:25	12°♁03'15	7.97008 AU
minimum elong	-1979 Feb 27 j 13:14	22°♁35'37	2°06'54	direct	-1973 Jan 25 j 11:42	8°♁31'33	
max. Earth dist.	-1979 Feb 27 j 12:47	22°♁35'29	10.13646 AU		-1973 Apr 26 j 06:24	15°♁	
morning rise	-1979 Mar 17 j 04:37	24°♁51'52		evening set	-1973 May 11 j 05:23	16°♁52'06	
	-1979 May 01 j 06:23	0°♁					
retrograde	-1979 Jul 02 j 20:38	3°♁13'26		conjunction	-1973 May 29 j 10:24	19°♁13'53	-1°-9'-22
	-1979 Sep 05 j 20:55	30°♁		minimum elong	-1973 May 29 j 10:27	19°♁13'54	1°09'21

Planetary Phenomena of Saturn from -2400 through -1900 (UT), Astrodienst AG 14-Nov-2015 16:07, page 36

Attention, astronomical year style is used: The year -1973 in astronomical counting style is the year 1974 BCE in historical counting style.

max. Earth dist.	-1973 May 29 j 23:26	19°♄18'08	10.00491 AU	minimum elong	-1967 Aug 19 j 05:10	8°♁47'45	1°48'59
morning rise	-1973 Jun 16 j 14:17	21°♄35'13		max. Earth dist.	-1967 Aug 19 j 07:49	8°♁48'33	10.73338 AU
retrograde	-1973 Sep 28 j 14:25	29°♄46'57		morning rise	-1967 Sep 05 j 06:31	10°♁50'48	
opposition	-1973 Dec 03 j 23:52	26°♄19'06	-1°-7'-8		-1967 Oct 13 j 21:21	15°♁	
min. Earth dist.	-1973 Dec 03 j 13:34	26°♄21'13	8.04744 AU	retrograde	-1967 Dec 13 j 11:14	18°♁00'27	
direct	-1972 Feb 09 j 06:59	22°♄49'23			-1966 Feb 15 j 15:17	15°♁	
	-1972 May 16 j 16:15	0°♁		opposition	-1966 Feb 19 j 15:03	14°♁41'43	2°24'37
evening set	-1972 May 25 j 09:22	1°♁05'19		min. Earth dist.	-1966 Feb 19 j 12:44	14°♁42'10	8.79563 AU
				direct	-1966 May 01 j 10:48	11°♁17'08	
conjunction	-1972 Jun 12 j 13:40	3°♁25'19	0°-37'-17		-1966 Jul 10 j 22:55	15°♁	
minimum elong	-1972 Jun 12 j 13:42	3°♁25'20	0°37'16	evening set	-1966 Aug 14 j 11:34	18°♁44'22	
max. Earth dist.	-1972 Jun 13 j 02:42	3°♁29'32	10.09624 AU				
morning rise	-1972 Jun 30 j 15:24	5°♁44'28		conjunction	-1966 Aug 31 j 12:46	20°♁45'59	2°05'43
retrograde	-1972 Oct 11 j 12:02	13°♁44'59		minimum elong	-1966 Aug 31 j 12:44	20°♁45'58	2°05'45
opposition	-1972 Dec 16 j 23:28	10°♁18'40	0°-25'-49	max. Earth dist.	-1966 Aug 31 j 13:50	20°♁46'18	10.85326 AU
min. Earth dist.	-1972 Dec 16 j 13:27	10°♁20'43	8.14971 AU	morning rise	-1966 Sep 17 j 09:05	22°♁46'11	
direct	-1971 Feb 22 j 21:45	6°♁49'14		retrograde	-1966 Dec 25 j 08:21	29°♁49'09	
evening set	-1971 Jun 09 j 04:57	14°♁58'42		opposition	-1965 Mar 03 j 23:26	26°♁31'22	2°41'28
				min. Earth dist.	-1965 Mar 03 j 23:01	26°♁31'27	8.90899 AU
conjunction	-1971 Jun 27 j 06:54	17°♁16'12	0°-3'-43	direct	-1965 May 14 j 03:41	23°♁07'59	
minimum elong	-1971 Jun 27 j 06:53	17°♁16'11	0°03'43		-1965 Aug 22 j 15:20	0°♁	
behind sun begin	-1971 Jun 26 j 23:39	17°♁13'54		evening set	-1965 Aug 26 j 14:28	0°♁27'26	
behind sun end	-1971 Jun 27 j 14:08	17°♁18'29					
max. Earth dist.	-1971 Jun 27 j 18:53	17°♁20'00	10.20852 AU	conjunction	-1965 Sep 12 j 11:07	2°♁26'32	2°16'50
morning rise	-1971 Jul 15 j 05:00	19°♁32'29		minimum elong	-1965 Sep 12 j 11:05	2°♁26'31	2°16'52
asc. node	-1971 Aug 07 j 18:27	22°♁21'15		max. Earth dist.	-1965 Sep 12 j 10:12	2°♁26'15	10.95795 AU
retrograde	-1971 Oct 25 j 00:49	27°♁21'25		morning rise	-1965 Sep 29 j 03:18	4°♁24'23	
opposition	-1971 Dec 30 j 16:26	23°♁56'47	0°15'50	retrograde	-1964 Jan 06 j 01:36	11°♁22'11	
min. Earth dist.	-1971 Dec 30 j 07:38	23°♁58'33	8.26946 AU	opposition	-1964 Mar 15 j 03:24	8°♁05'06	2°51'20
direct	-1970 Mar 09 j 05:26	20°♁27'58		min. Earth dist.	-1964 Mar 15 j 05:34	8°♁04'42	9.00501 AU
evening set	-1970 Jun 23 j 14:18	28°♁29'42		direct	-1964 May 25 j 13:36	4°♁42'51	
	-1970 Jul 05 j 15:58	0°♁		evening set	-1964 Sep 06 j 09:03	11°♁55'25	
conjunction	-1970 Jul 11 j 12:22	0°♁44'11	0°29'22	conjunction	-1964 Sep 23 j 01:45	13°♁52'29	2°22'15
minimum elong	-1970 Jul 11 j 12:21	0°♁44'11	0°29'23	minimum elong	-1964 Sep 23 j 01:44	13°♁52'29	2°22'16
max. Earth dist.	-1970 Jul 11 j 22:36	0°♁47'24	10.33455 AU	max. Earth dist.	-1964 Sep 22 j 21:55	13°♁51'21	11.04358 AU
morning rise	-1970 Jul 29 j 05:49	2°♁57'14		morning rise	-1964 Oct 09 j 14:51	15°♁48'31	
retrograde	-1970 Nov 07 j 04:54	10°♁34'55		retrograde	-1963 Jan 16 j 13:33	22°♁42'43	
opposition	-1969 Jan 13 j 02:21	7°♁11'59	0°55'24	opposition	-1963 Mar 27 j 03:50	19°♁26'04	2°54'18
min. Earth dist.	-1969 Jan 12 j 19:23	7°♁13'23	8.40012 AU	min. Earth dist.	-1963 Mar 27 j 07:55	19°♁25'18	9.08027 AU
direct	-1969 Mar 23 j 06:02	3°♁44'02		direct	-1963 Jun 06 j 16:55	16°♁04'53	
evening set	-1969 Jul 07 j 12:40	11°♁37'19		evening set	-1963 Sep 17 j 20:41	23°♁11'36	
conjunction	-1969 Jul 25 j 05:51	13°♁48'30	0°59'59	conjunction	-1963 Oct 04 j 10:30	25°♁07'11	2°22'04
minimum elong	-1969 Jul 25 j 05:48	13°♁48'29	1°00'01	minimum elong	-1963 Oct 04 j 10:30	25°♁07'11	2°22'03
max. Earth dist.	-1969 Jul 25 j 13:34	13°♁50'53	10.46814 AU	max. Earth dist.	-1963 Oct 04 j 04:40	25°♁05'29	11.10733 AU
morning rise	-1969 Aug 11 j 18:01	15°♁58'07		morning rise	-1963 Oct 20 j 21:29	27°♁01'58	
retrograde	-1969 Nov 19 j 22:23	23°♁25'16			-1963 Nov 17 j 10:14	0°♁	
opposition	-1968 Jan 26 j 05:03	20°♁03'57	1°30'55	retrograde	-1962 Jan 28 j 01:53	3°♁54'12	
min. Earth dist.	-1968 Jan 26 j 00:07	20°♁04'55	8.53555 AU	opposition	-1962 Apr 08 j 01:45	0°♁37'41	2°50'36
direct	-1968 Apr 04 j 23:51	16°♁37'00		min. Earth dist.	-1962 Apr 08 j 06:44	0°♁36'46	9.13229 AU
evening set	-1968 Jul 19 j 23:35	24°♁21'31			-1962 Apr 16 j 15:45	30°♁	
				direct	-1962 Jun 18 j 17:25	27°♁17'29	
conjunction	-1968 Aug 06 j 11:19	26°♁29'17	1°26'50		-1962 Aug 17 j 17:00	0°♁	
minimum elong	-1968 Aug 06 j 11:16	26°♁29'16	1°26'52	evening set	-1962 Sep 29 j 02:59	4°♁19'31	
max. Earth dist.	-1968 Aug 06 j 15:59	26°♁30'43	10.60315 AU				
morning rise	-1968 Aug 23 j 18:01	28°♁35'31		conjunction	-1962 Oct 15 j 15:02	6°♁14'12	2°16'28
	-1968 Sep 04 j 17:27	0°♁		minimum elong	-1962 Oct 15 j 15:03	6°♁14'13	2°16'27
retrograde	-1968 Dec 01 j 07:31	5°♁53'15		max. Earth dist.	-1962 Oct 15 j 08:31	6°♁12'18	11.14704 AU
opposition	-1967 Feb 07 j 01:09	2°♁33'20	2°00'57	morning rise	-1962 Nov 01 j 00:48	8°♁08'18	
min. Earth dist.	-1967 Feb 06 j 21:35	2°♁34'02	8.66940 AU	retrograde	-1961 Feb 08 j 14:51	15°♁00'07	
	-1967 Mar 16 j 10:10	30°♁		opposition	-1961 Apr 19 j 22:21	11°♁43'31	2°40'34
direct	-1967 Apr 18 j 10:10	29°♁07'32		min. Earth dist.	-1961 Apr 20 j 04:23	11°♁42'24	9.15924 AU
	-1967 May 21 j 03:36	0°♁		direct	-1961 Jun 30 j 11:30	8°♁24'10	
evening set	-1967 Aug 01 j 22:58	6°♁43'15		evening set	-1961 Oct 10 j 06:02	15°♁22'50	
conjunction	-1967 Aug 19 j 05:13	8°♁47'46	1°48'57	conjunction	-1961 Oct 26 j 17:04	17°♁17'09	2°05'49

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Attention, astronomical year style is used: The year -1961 in astronomical counting style is the year 1962 BCE in historical counting style.

minimum elong	-1961 Oct 26 j 17:07	17°♄17'10	2°05'47	conjunction	-1954 Jan 01 j 03:44	25°♃32'48	0°-16'-27
max. Earth dist.	-1961 Oct 26 j 09:05	17°♄14'49	11.16134 AU	minimum elong	-1954 Jan 01 j 03:43	25°♃32'48	0°16'30
morning rise	-1961 Nov 12 j 02:38	19°♄11'08		max. Earth dist.	-1955 Dec 31 j 18:09	25°♃29'54	10.74595 AU
retrograde	-1960 Feb 20 j 03:29	26°♄04'07		morning rise	-1954 Jan 18 j 02:59	27°♃35'58	
opposition	-1960 Apr 30 j 18:52	22°♄47'13	2°24'38		-1954 Feb 08 j 01:58	0°♃	
min. Earth dist.	-1960 May 01 j 02:35	22°♄45'48	9.16030 AU	retrograde	-1954 May 02 j 19:33	5°♃08'26	
direct	-1960 Jul 11 j 02:38	19°♄28'31		opposition	-1954 Jul 12 j 10:29	1°♃44'56	0°-38'-49
evening set	-1960 Oct 20 j 07:34	26°♄25'15		min. Earth dist.	-1954 Jul 12 j 18:03	1°♃43'30	8.68139 AU
					-1954 Aug 05 j 14:23	30°♃♂	
conjunction	-1960 Nov 05 j 18:21	28°♄19'43	1°50'27	direct	-1954 Sep 19 j 01:23	28°♃25'18	
minimum elong	-1960 Nov 05 j 18:23	28°♄19'44	1°50'26		-1954 Nov 01 j 00:30	0°♃	
max. Earth dist.	-1960 Nov 05 j 08:28	28°♄16'50	11.14985 AU	evening set	-1954 Dec 27 j 15:09	5°♃42'31	
	-1960 Nov 20 j 03:31	0°♃					
morning rise	-1960 Nov 22 j 04:46	0°♃14'07		conjunction	-1953 Jan 13 j 13:32	7°♃46'59	0°-45'-56
retrograde	-1959 Mar 02 j 19:29	7°♃09'55		minimum elong	-1953 Jan 13 j 13:30	7°♃46'59	0°45'59
opposition	-1959 May 12 j 16:33	3°♃52'26	2°03'18	max. Earth dist.	-1953 Jan 13 j 05:46	7°♃44'35	10.61611 AU
min. Earth dist.	-1959 May 13 j 01:33	3°♃50'48	9.13554 AU	morning rise	-1953 Jan 30 j 16:09	9°♃52'51	
direct	-1959 Jul 22 j 18:05	0°♃34'11		retrograde	-1953 May 16 j 05:35	17°♃36'11	
evening set	-1959 Oct 31 j 09:08	7°♃30'25		opposition	-1953 Jul 25 j 12:06	14°♃11'06	-1°-14'-43
				min. Earth dist.	-1953 Jul 25 j 17:53	14°♃09'59	8.54809 AU
conjunction	-1959 Nov 16 j 20:36	9°♃25'33	1°30'53	direct	-1953 Oct 01 j 12:41	10°♃50'28	
minimum elong	-1959 Nov 16 j 20:39	9°♃25'34	1°30'52	evening set	-1952 Jan 09 j 08:36	18°♃16'16	
max. Earth dist.	-1959 Nov 16 j 10:10	9°♃22'29	11.11290 AU				
morning rise	-1959 Dec 03 j 08:36	11°♃20'53		conjunction	-1952 Jan 26 j 10:06	20°♃23'27	-1°-14'-2
	-1958 Jan 06 j 22:46	15°♃		minimum elong	-1952 Jan 26 j 10:03	20°♃23'27	1°14'04
retrograde	-1958 Mar 14 j 14:59	18°♃21'06		max. Earth dist.	-1952 Jan 26 j 03:55	20°♃21'31	10.48023 AU
opposition	-1958 May 24 j 16:19	15°♃02'46	1°37'10	morning rise	-1952 Feb 12 j 16:14	22°♃32'10	
min. Earth dist.	-1958 May 25 j 01:17	15°♃01'08	9.08566 AU		-1952 May 06 j 00:45	0°♃	
	-1958 May 25 j 07:25	15°♃♂		retrograde	-1952 May 29 j 01:05	0°♃26'51	
direct	-1958 Aug 03 j 09:08	11°♃44'45			-1952 Jun 21 j 04:17	30°♃♂	
	-1958 Oct 07 j 13:29	15°♃		opposition	-1952 Aug 06 j 20:54	27°♃00'11	-1°-48'-7
evening set	-1958 Nov 11 j 13:01	18°♃42'02		min. Earth dist.	-1952 Aug 07 j 00:54	26°♃59'24	8.41170 AU
				direct	-1952 Oct 13 j 07:51	23°♃38'22	
conjunction	-1958 Nov 28 j 01:53	20°♃38'18	1°07'40		-1951 Jan 11 j 12:03	0°♃	
minimum elong	-1958 Nov 28 j 01:55	20°♃38'19	1°07'38	evening set	-1951 Jan 21 j 14:00	1°♃13'52	
max. Earth dist.	-1958 Nov 27 j 15:50	20°♃35'20	11.05150 AU				
morning rise	-1958 Dec 14 j 15:56	22°♃35'00		conjunction	-1951 Feb 07 j 18:48	3°♃23'55	-1°-39'-10
retrograde	-1957 Mar 26 j 18:35	29°♃41'11		minimum elong	-1951 Feb 07 j 18:45	3°♃23'54	1°39'12
opposition	-1957 Jun 05 j 19:14	26°♃21'49	1°06'55	max. Earth dist.	-1951 Feb 07 j 13:37	3°♃22'16	10.34407 AU
min. Earth dist.	-1957 Jun 06 j 03:52	26°♃20'13	9.01224 AU	morning rise	-1951 Feb 25 j 04:39	5°♃35'35	
direct	-1957 Aug 15 j 02:13	23°♃03'47		retrograde	-1951 Jun 12 j 06:01	13°♃41'27	
evening set	-1957 Nov 22 j 21:00	0°♃03'41		opposition	-1951 Aug 20 j 12:54	10°♃13'22	-2°-16'-59
	-1957 Nov 22 j 08:20	0°♃♂		min. Earth dist.	-1951 Aug 20 j 15:35	10°♃12'49	8.27853 AU
				direct	-1951 Oct 26 j 10:43	6°♃50'12	
conjunction	-1957 Dec 09 j 11:38	2°♃01'30	0°41'28	evening set	-1950 Feb 04 j 07:48	14°♃36'09	
minimum elong	-1957 Dec 09 j 11:39	2°♃01'30	0°41'25		-1950 Feb 07 j 11:21	15°♃	
max. Earth dist.	-1957 Dec 09 j 01:22	1°♃58'27	10.96773 AU				
morning rise	-1957 Dec 26 j 04:21	4°♃00'01		conjunction	-1950 Feb 21 j 16:14	16°♃49'06	-1°-59'-40
retrograde	-1956 Apr 07 j 02:56	11°♃13'38		minimum elong	-1950 Feb 21 j 16:12	16°♃49'05	1°59'42
opposition	-1956 Jun 17 j 02:47	7°♃53'03	0°33'25	max. Earth dist.	-1950 Feb 21 j 12:46	16°♃47'59	10.21485 AU
min. Earth dist.	-1956 Jun 17 j 11:22	7°♃51'27	8.91794 AU	morning rise	-1950 Mar 11 j 05:51	19°♃03'42	
direct	-1956 Aug 25 j 19:44	4°♃34'45		retrograde	-1950 Jun 26 j 18:59	27°♃19'48	
evening set	-1956 Dec 03 j 10:47	11°♃38'52		opposition	-1950 Sep 03 j 11:56	23°♃50'30	-2°-39'-9
				min. Earth dist.	-1950 Sep 03 j 13:04	23°♃50'16	8.15647 AU
conjunction	-1956 Dec 20 j 03:33	13°♃38'34	0°13'08	direct	-1950 Nov 08 j 23:09	20°♃25'56	
minimum elong	-1956 Dec 20 j 03:33	13°♃38'34	0°13'05	evening set	-1949 Feb 18 j 13:42	28°♃22'15	
behind sun begin	-1956 Dec 19 j 23:15	13°♃37'18			-1949 Mar 03 j 05:08	0°♃	
behind sun end	-1956 Dec 20 j 07:51	13°♃39'51					
max. Earth dist.	-1956 Dec 19 j 16:54	13°♃35'23	10.86464 AU	conjunction	-1949 Mar 08 j 02:03	0°♃38'01	-2°-13'-54
morning rise	-1955 Jan 05 j 23:28	15°♃39'16		minimum elong	-1949 Mar 08 j 02:01	0°♃38'00	2°13'56
retrograde	-1955 Apr 19 j 18:19	23°♃01'45		max. Earth dist.	-1949 Mar 08 j 01:21	0°♃37'47	10.10084 AU
desc. node	-1955 Jun 06 j 04:13	21°♃20'48		morning rise	-1949 Mar 25 j 19:17	2°♃55'20	
opposition	-1955 Jun 29 j 15:43	19°♃39'46	0°-2'-15	retrograde	-1949 Jul 11 j 12:48	11°♃19'45	
min. Earth dist.	-1955 Jun 30 j 00:19	19°♃38'09	8.80627 AU	opposition	-1949 Sep 17 j 17:00	7°♃49'29	-2°-52'-37
direct	-1955 Sep 06 j 19:43	16°♃20'55		min. Earth dist.	-1949 Sep 17 j 16:04	7°♃49'41	8.05363 AU
evening set	-1955 Dec 15 j 08:19	23°♃30'50		direct	-1949 Nov 22 j 21:52	4°♃23'31	
				evening set	-1948 Mar 04 j 06:45	12°♃29'20	

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Attention, astronomical year style is used: The year -1948 in astronomical counting style is the year 1949 BCE in historical counting style.

conjunction	-1948 Mar 21 j 23:16	14° K 47'38	-2°-20'-29	morning rise	-1942 Jul 09 j 00:05	13° II 30'56	
minimum elong	-1948 Mar 21 j 23:16	14° K 47'38	2°20'31	retrograde	-1942 Oct 19 j 06:23	21° II 25'28	
max. Earth dist.	-1948 Mar 22 j 02:04	14° K 48'33	10.00991 AU	opposition	-1942 Dec 24 j 20:33	17° II 59'32	0°-3'-16
morning rise	-1948 Apr 08 j 20:01	17° K 07'19		min. Earth dist.	-1942 Dec 24 j 12:00	18° II 01'17	8.20047 AU
retrograde	-1948 Jul 25 j 10:33	25° K 37'10		asc. node	-1941 Jan 23 j 16:44	15° II 45'29	
opposition	-1948 Oct 01 j 02:33	22° K 06'18	-2°-55'-49	direct	-1941 Mar 03 j 03:04	14° II 29'51	
min. Earth dist.	-1948 Sep 30 j 23:09	22° K 07'00	7.97703 AU	evening set	-1941 Jun 17 j 10:42	22° II 35'31	
direct	-1948 Dec 06 j 04:02	18° K 39'01					
evening set	-1947 Mar 19 j 08:55	26° K 52'37		conjunction	-1941 Jul 05 j 10:42	24° II 51'34	0°14'19
				minimum elong	-1941 Jul 05 j 10:41	24° II 51'33	0°14'21
conjunction	-1947 Apr 06 j 05:37	29° K 13'03	-2°-18'-30	behind sun begin	-1941 Jul 05 j 07:31	24° II 50'34	
minimum elong	-1947 Apr 06 j 05:39	29° K 13'03	2°18'31	behind sun end	-1941 Jul 05 j 13:52	24° II 52'33	
max. Earth dist.	-1947 Apr 06 j 11:55	29° K 15'07	9.94834 AU	max. Earth dist.	-1941 Jul 05 j 20:53	24° II 54'47	10.26292 AU
	-1947 Apr 12 j 04:00	0° V		morning rise	-1941 Jul 23 j 06:43	27° II 06'18	
morning rise	-1947 Apr 24 j 05:31	1° V 34'32			-1941 Aug 16 j 18:08	0° E	
retrograde	-1947 Aug 09 j 09:58	10° V 06'17		retrograde	-1941 Nov 01 j 13:55	4° E 49'22	
opposition	-1947 Oct 15 j 14:48	6° V 35'15	-2°-47'-56	opposition	-1940 Jan 07 j 09:28	1° E 25'06	0°37'32
min. Earth dist.	-1947 Oct 15 j 08:53	6° V 36'29	7.93185 AU	min. Earth dist.	-1940 Jan 07 j 01:17	1° E 26'45	8.32717 AU
direct	-1947 Dec 20 j 16:10	3° V 06'49			-1940 Jan 25 j 13:50	30° R II	
evening set	-1946 Apr 03 j 17:21	11° V 25'49		direct	-1940 Mar 16 j 07:34	27° II 56'12	
					-1940 May 05 j 06:57	0° E	
conjunction	-1946 Apr 21 j 17:44	13° V 47'43	-2°-7'-43	evening set	-1940 Jun 30 j 14:04	5° E 53'39	
minimum elong	-1946 Apr 21 j 17:47	13° V 47'44	2°07'43				
max. Earth dist.	-1946 Apr 22 j 02:55	13° V 50'45	9.92034 AU	conjunction	-1940 Jul 18 j 09:44	8° E 06'29	0°46'13
morning rise	-1946 May 09 j 20:07	16° V 10'16		minimum elong	-1940 Jul 18 j 09:42	8° E 06'28	0°46'15
retrograde	-1946 Aug 24 j 08:09	24° V 40'10		max. Earth dist.	-1940 Jul 18 j 18:42	8° E 09'17	10.39512 AU
opposition	-1946 Oct 30 j 03:33	21° V 09'24	-2°-29'-11	morning rise	-1940 Aug 05 j 00:37	10° E 17'49	
min. Earth dist.	-1946 Oct 29 j 19:45	21° V 11'02	7.92117 AU	retrograde	-1940 Nov 13 j 11:36	17° E 49'53	
direct	-1945 Jan 04 j 08:18	17° V 40'04		opposition	-1939 Jan 19 j 15:10	14° E 27'20	1°15'06
evening set	-1945 Apr 19 j 04:35	26° V 01'39		min. Earth dist.	-1939 Jan 19 j 07:52	14° E 28'47	8.46314 AU
				direct	-1939 Mar 30 j 04:38	10° E 59'29	
conjunction	-1945 May 07 j 07:50	28° V 24'11	-1°-48'-45	evening set	-1939 Jul 14 j 06:03	18° E 48'09	
minimum elong	-1945 May 07 j 07:54	28° V 24'12	1°48'45				
max. Earth dist.	-1945 May 07 j 19:05	28° V 27'54	9.92783 AU	conjunction	-1939 Jul 31 j 20:34	20° E 57'35	1°14'57
	-1945 May 19 j 11:15	0° E		minimum elong	-1939 Jul 31 j 20:31	20° E 57'34	1°14'58
morning rise	-1945 May 25 j 11:46	0° E 46'56		max. Earth dist.	-1939 Aug 01 j 04:14	20° E 59'57	10.53278 AU
retrograde	-1945 Sep 08 j 02:31	9° E 11'26		morning rise	-1939 Aug 18 j 05:48	23° E 05'25	
opposition	-1945 Nov 13 j 14:42	5° E 41'22	-2°00'-54		-1939 Nov 03 j 11:01	0° E	
min. Earth dist.	-1945 Nov 13 j 05:51	5° E 43'14	7.94570 AU	retrograde	-1939 Nov 26 j 01:44	0° E 27'29	
direct	-1944 Jan 19 j 03:44	2° E 11'25			-1939 Dec 18 j 20:54	30° R E	
evening set	-1944 May 03 j 15:03	10° E 32'39		opposition	-1938 Feb 01 j 14:10	27° E 06'35	1°47'47
				min. Earth dist.	-1938 Feb 01 j 08:41	27° E 07'39	8.60135 AU
conjunction	-1944 May 21 j 19:55	12° E 54'53	-1°-22'-59	direct	-1938 Apr 12 j 16:50	23° E 39'58	
minimum elong	-1944 May 21 j 19:59	12° E 54'55	1°22'58		-1938 Jul 16 j 01:53	0° E	
max. Earth dist.	-1944 May 22 j 08:11	12° E 58'55	9.97002 AU	evening set	-1938 Jul 27 j 10:25	1° E 19'44	
	-1944 Jun 06 j 19:36	15° E					
morning rise	-1944 Jun 09 j 00:07	15° E 16'54		conjunction	-1938 Aug 13 j 19:23	3° E 25'48	1°39'19
retrograde	-1944 Sep 21 j 12:52	23° E 33'03		minimum elong	-1938 Aug 13 j 19:20	3° E 25'47	1°39'21
opposition	-1944 Nov 26 j 22:16	20° E 04'07	-1°-25'-17	max. Earth dist.	-1938 Aug 14 j 00:51	3° E 27'28	10.66909 AU
min. Earth dist.	-1944 Nov 26 j 13:15	20° E 05'59	8.00343 AU	morning rise	-1938 Aug 30 j 23:06	5° E 30'18	
direct	-1943 Feb 01 j 23:16	16° E 33'53		retrograde	-1938 Dec 08 j 08:46	12° E 43'36	
evening set	-1943 May 18 j 21:30	24° E 52'03		opposition	-1937 Feb 14 j 06:42	9° E 24'11	2°14'27
				min. Earth dist.	-1937 Feb 14 j 03:31	9° E 24'48	8.73519 AU
conjunction	-1943 Jun 06 j 02:20	27° E 13'01	0°-52'-24	direct	-1937 Apr 25 j 20:00	5° E 58'55	
minimum elong	-1943 Jun 06 j 02:23	27° E 13'02	0°52'23	evening set	-1937 Aug 09 j 03:59	13° E 30'03	
max. Earth dist.	-1943 Jun 06 j 14:26	27° E 16'56	10.04355 AU		-1937 Aug 21 j 17:45	15° E	
morning rise	-1943 Jun 24 j 05:15	29° E 33'19					
	-1943 Jun 27 j 17:35	0° E		conjunction	-1937 Aug 26 j 07:29	15° E 33'01	1°58'36
retrograde	-1943 Oct 05 j 14:12	7° E 39'10		minimum elong	-1937 Aug 26 j 07:26	15° E 33'00	1°58'37
opposition	-1943 Dec 11 j 00:36	4° E 11'38	0°-45'-6	max. Earth dist.	-1937 Aug 26 j 09:52	15° E 33'44	10.79787 AU
min. Earth dist.	-1943 Dec 10 j 15:51	4° E 13'26	8.09026 AU	morning rise	-1937 Sep 12 j 06:08	17° E 34'30	
direct	-1942 Feb 16 j 15:56	0° E 41'30		retrograde	-1937 Dec 20 j 06:38	24° E 40'24	
evening set	-1942 Jun 02 j 20:50	8° E 54'18		opposition	-1936 Feb 26 j 17:22	21° E 22'15	2°34'27
				min. Earth dist.	-1936 Feb 26 j 16:09	21° E 22'29	8.85869 AU
conjunction	-1942 Jun 20 j 23:58	11° E 13'07	0°-19'-15	direct	-1936 May 07 j 17:26	17° E 58'22	
minimum elong	-1942 Jun 20 j 23:59	11° E 13'08	0°19'14	evening set	-1936 Aug 20 j 11:26	25° E 21'27	
max. Earth dist.	-1942 Jun 21 j 11:10	11° E 16'43	10.14333 AU				

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Attention, astronomical year style is used: The year -1936 in astronomical counting style is the year 1937 BCE in historical counting style.

conjunction	-1936 Sep 06 j 10:01	27°♄21'39	2°12'20	conjunction	-1930 Nov 12 j 05:49	4°♃38'27	1°40'10
minimum elong	-1936 Sep 06 j 09:58	27°♄21'38	2°12'21	minimum elong	-1930 Nov 12 j 05:51	4°♃38'28	1°40'10
max. Earth dist.	-1936 Sep 06 j 09:51	27°♄21'36	10.91371 AU	max. Earth dist.	-1930 Nov 11 j 19:16	4°♃35'22	11.13864 AU
morning rise	-1936 Sep 23 j 04:11	29°♄20'32		morning rise	-1930 Nov 28 j 16:52	6°♃33'16	
	-1936 Sep 28 j 20:49	0°♄		retrograde	-1929 Mar 09 j 17:00	13°♃31'18	
retrograde	-1936 Dec 31 j 02:07	6°♄20'35		opposition	-1929 May 19 j 15:07	10°♃13'42	1°49'29
opposition	-1935 Mar 09 j 23:22	3°♄03'25	2°47'30	min. Earth dist.	-1929 May 20 j 00:55	10°♃11'54	9.11505 AU
min. Earth dist.	-1935 Mar 09 j 23:20	3°♄03'25	8.96676 AU	direct	-1929 Jul 29 j 11:19	6°♃55'49	
	-1935 Apr 30 j 05:51	30°♄		evening set	-1929 Nov 06 j 21:41	13°♃52'36	
direct	-1935 May 20 j 07:35	29°♄40'55			-1929 Nov 16 j 13:28	15°♃	
	-1935 Jun 09 j 04:29	0°♄		conjunction	-1929 Nov 23 j 09:44	15°♃48'18	1°18'32
evening set	-1935 Sep 01 j 09:47	6°♄56'37		minimum elong	-1929 Nov 23 j 09:46	15°♃48'18	1°18'31
				max. Earth dist.	-1929 Nov 22 j 21:30	15°♃44'42	11.08372 AU
conjunction	-1935 Sep 18 j 04:16	8°♄54'33	2°20'21	morning rise	-1929 Dec 09 j 22:48	17°♃44'20	
minimum elong	-1935 Sep 18 j 04:15	8°♄54'33	2°20'22	retrograde	-1928 Mar 20 j 16:13	24°♃47'44	
max. Earth dist.	-1935 Sep 18 j 02:49	8°♄54'08	11.01205 AU	opposition	-1928 May 30 j 16:59	21°♃29'01	1°21'01
morning rise	-1935 Oct 04 j 18:42	10°♄51'20		min. Earth dist.	-1928 May 31 j 03:44	21°♃27'02	9.04735 AU
retrograde	-1934 Jan 11 j 18:04	17°♄47'04		direct	-1928 Aug 09 j 04:05	18°♃11'02	
opposition	-1934 Mar 22 j 01:31	14°♄30'35	2°53'36	evening set	-1928 Nov 17 j 03:49	25°♃09'47	
min. Earth dist.	-1934 Mar 22 j 03:15	14°♄30'16	9.05523 AU				
direct	-1934 Jun 01 j 13:11	11°♄09'22		conjunction	-1928 Dec 03 j 17:30	27°♃06'53	0°53'36
evening set	-1934 Sep 13 j 00:46	18°♄18'39		minimum elong	-1928 Dec 03 j 17:32	27°♃06'54	0°53'34
				max. Earth dist.	-1928 Dec 03 j 05:17	27°♃03'16	11.00500 AU
conjunction	-1934 Sep 29 j 15:58	20°♄14'50	2°22'42	morning rise	-1928 Dec 20 j 09:04	29°♃04'35	
minimum elong	-1934 Sep 29 j 15:58	20°♄14'50	2°22'42		-1928 Dec 28 j 10:26	0°♄	
max. Earth dist.	-1934 Sep 29 j 12:36	20°♄13'51	11.08918 AU	retrograde	-1927 Apr 01 j 20:58	6°♄14'52	
morning rise	-1934 Oct 16 j 03:42	22°♄10'05		opposition	-1927 Jun 11 j 22:37	2°♄54'47	0°48'53
retrograde	-1933 Jan 23 j 06:51	29°♄03'00		min. Earth dist.	-1927 Jun 12 j 09:00	2°♄52'52	8.95727 AU
opposition	-1933 Apr 03 j 00:40	25°♄46'55	2°52'54		-1927 Jul 30 j 00:02	30°♄	
min. Earth dist.	-1933 Apr 03 j 04:53	25°♄46'09	9.12083 AU	direct	-1927 Aug 20 j 22:20	29°♃36'27	
direct	-1933 Jun 13 j 14:16	22°♄26'46			-1927 Sep 11 j 13:48	0°♄	
evening set	-1933 Sep 24 j 09:54	29°♄30'48		evening set	-1927 Nov 28 j 14:48	6°♄38'46	
	-1933 Sep 28 j 15:37	0°♄					
				conjunction	-1927 Dec 15 j 06:42	8°♄37'40	0°26'08
conjunction	-1933 Oct 10 j 22:37	1°♄25'47	2°19'33	minimum elong	-1927 Dec 15 j 06:43	8°♄37'40	0°26'04
minimum elong	-1933 Oct 10 j 22:38	1°♄25'48	2°19'32	max. Earth dist.	-1927 Dec 14 j 19:34	8°♄34'20	10.90529 AU
max. Earth dist.	-1933 Oct 10 j 16:18	1°♄23'57	11.14221 AU	morning rise	-1926 Jan 01 j 01:06	10°♄37'24	
morning rise	-1933 Oct 27 j 08:50	3°♄20'05		retrograde	-1926 Apr 14 j 10:10	17°♄56'03	
retrograde	-1932 Feb 03 j 18:21	10°♄11'46		opposition	-1926 Jun 24 j 09:02	14°♄34'24	0°14'03
opposition	-1932 Apr 13 j 22:07	6°♄55'46	2°45'43	min. Earth dist.	-1926 Jun 24 j 18:12	14°♄32'41	8.84806 AU
min. Earth dist.	-1932 Apr 14 j 04:37	6°♄54'34	9.16085 AU	direct	-1926 Sep 01 j 20:52	11°♄15'29	
direct	-1932 Jun 24 j 11:07	3°♄36'30		desc. node	-1926 Nov 18 j 13:35	15°♄54'44	
evening set	-1932 Oct 04 j 14:37	10°♄36'32		evening set	-1926 Dec 10 j 08:47	18°♄22'58	
conjunction	-1932 Oct 21 j 01:52	12°♄30'52	2°11'09	conjunction	-1926 Dec 27 j 03:07	20°♄24'02	0°-3'-4
minimum elong	-1932 Oct 21 j 01:54	12°♄30'53	2°11'08	minimum elong	-1926 Dec 27 j 03:06	20°♄24'01	0°03'09
max. Earth dist.	-1932 Oct 20 j 17:27	12°♄28'25	11.16878 AU	behind sun begin	-1926 Dec 26 j 20:06	20°♄21'56	
morning rise	-1932 Nov 06 j 11:30	14°♄24'47		behind sun end	-1926 Dec 27 j 10:05	20°♄26'07	
retrograde	-1931 Feb 14 j 06:30	21°♄16'56		max. Earth dist.	-1926 Dec 26 j 16:27	20°♄20'49	10.78825 AU
opposition	-1931 Apr 25 j 18:53	18°♄00'40	2°32'25	morning rise	-1925 Jan 13 j 00:42	22°♄26'09	
min. Earth dist.	-1931 Apr 26 j 02:27	17°♄59'17	9.17331 AU	retrograde	-1925 Apr 27 j 08:21	29°♄54'25	
direct	-1931 Jul 06 j 05:28	14°♄42'07		opposition	-1925 Jul 07 j 01:10	26°♄31'09	0°-22'-17
evening set	-1931 Oct 15 j 16:52	21°♄39'33		min. Earth dist.	-1925 Jul 07 j 09:27	26°♄29'34	8.72390 AU
				direct	-1925 Sep 13 j 22:22	23°♄11'25	
conjunction	-1931 Nov 01 j 03:45	23°♄33'50	1°57'53		-1925 Dec 18 j 21:23	0°♄	
minimum elong	-1931 Nov 01 j 03:47	23°♄33'51	1°57'53	evening set	-1925 Dec 22 j 11:22	0°♄25'40	
max. Earth dist.	-1931 Oct 31 j 18:28	23°♄31'08	11.16750 AU				
morning rise	-1931 Nov 17 j 13:37	25°♄27'55		conjunction	-1924 Jan 08 j 08:18	2°♄29'09	0°-32'-42
	-1930 Jan 01 j 14:36	0°♄		minimum elong	-1924 Jan 08 j 08:17	2°♄29'08	0°32'46
retrograde	-1930 Feb 25 j 23:02	2°♄22'13		max. Earth dist.	-1924 Jan 07 j 22:07	2°♄26'01	10.65855 AU
	-1930 Apr 25 j 01:24	30°♄		morning rise	-1924 Jan 25 j 09:26	4°♄33'57	
opposition	-1930 May 07 j 16:06	29°♄05'26	2°13'30	retrograde	-1924 May 09 j 13:36	12°♄12'53	
min. Earth dist.	-1930 May 08 j 00:34	29°♄03'53	9.15771 AU	opposition	-1924 Jul 19 j 00:01	8°♄47'57	0°-58'-45
direct	-1930 Jul 17 j 21:17	25°♄47'21		min. Earth dist.	-1924 Jul 19 j 07:26	8°♄46'32	8.58992 AU
	-1930 Oct 01 j 14:13	0°♄		direct	-1924 Sep 25 j 06:16	5°♄27'11	
evening set	-1930 Oct 26 j 18:37	2°♄43'41		evening set	-1923 Jan 02 j 23:55	12°♄49'40	

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Attention, astronomical year style is used: The year -1912 in astronomical counting style is the year 1913 BCE in historical counting style.

asc. node	-1912 Jul 01 j 16:18	19°II35'01		minimum elong	-1906 Sep 13 j 13:30	4°♎13'02	2°17'38
morning rise	-1912 Jul 16 j 11:40	21°II27'19		max. Earth dist.	-1906 Sep 13 j 11:18	4°♎12'23	10.96004 AU
retrograde	-1912 Oct 26 j 06:41	29°II15'09		morning rise	-1906 Sep 30 j 05:35	6°♎10'50	
opposition	-1912 Dec 31 j 21:54	25°II50'38	0°19'58	retrograde	-1905 Jan 07 j 03:30	13°♎08'44	
min. Earth dist.	-1912 Dec 31 j 13:45	25°II52'17	8.28188 AU	opposition	-1905 Mar 17 j 06:47	9°♎51'43	2°51'54
direct	-1911 Mar 10 j 11:26	22°II21'52		min. Earth dist.	-1905 Mar 17 j 09:36	9°♎51'12	9.00561 AU
	-1911 Jun 21 j 18:24	0°♌		direct	-1905 May 27 j 16:19	6°♎29'34	
evening set	-1911 Jun 24 j 20:40	0°♌22'45		evening set	-1905 Sep 08 j 11:38	13°♎42'08	
conjunction	-1911 Jul 12 j 18:17	2°♌36'56	0°32'35	conjunction	-1905 Sep 25 j 04:09	15°♎39'11	2°22'24
minimum elong	-1911 Jul 12 j 18:15	2°♌36'55	0°32'36	minimum elong	-1905 Sep 25 j 04:09	15°♎39'11	2°22'25
max. Earth dist.	-1911 Jul 13 j 03:40	2°♌39'52	10.34713 AU	max. Earth dist.	-1905 Sep 24 j 23:32	15°♎37'49	11.04255 AU
morning rise	-1911 Jul 30 j 11:23	4°♌49'41		morning rise	-1905 Oct 11 j 17:12	17°♎35'14	
retrograde	-1911 Nov 08 j 08:00	12°♌26'19		retrograde	-1904 Jan 18 j 17:01	24°♎29'44	
opposition	-1910 Jan 14 j 07:03	9°♌03'32	0°59'11	opposition	-1904 Mar 28 j 07:15	21°♎13'05	2°54'08
min. Earth dist.	-1910 Jan 14 j 00:46	9°♌04'48	8.41264 AU	min. Earth dist.	-1904 Mar 28 j 11:15	21°♎12'21	9.07763 AU
direct	-1910 Mar 24 j 12:55	5°♌35'39		direct	-1904 Jun 07 j 21:45	17°♎51'58	
evening set	-1910 Jul 08 j 17:58	13°♌28'09		evening set	-1904 Sep 18 j 23:14	24°♎58'49	
conjunction	-1910 Jul 26 j 10:39	15°♌39'00	1°02'52	conjunction	-1904 Oct 05 j 13:05	26°♎54'28	2°21'36
minimum elong	-1910 Jul 26 j 10:37	15°♌38'59	1°02'54	minimum elong	-1904 Oct 05 j 13:05	26°♎54'28	2°21'36
max. Earth dist.	-1910 Jul 26 j 17:11	15°♌41'02	10.48013 AU	max. Earth dist.	-1904 Oct 05 j 07:27	26°♎52'49	11.10306 AU
morning rise	-1910 Aug 12 j 22:30	17°♌48'20		morning rise	-1904 Oct 21 j 23:57	28°♎49'18	
retrograde	-1910 Nov 21 j 01:00	25°♌14'42			-1904 Nov 01 j 11:03	0°♎	
opposition	-1909 Jan 27 j 09:08	21°♌53'31	1°34'11	retrograde	-1903 Jan 29 j 06:28	5°♎41'58	
min. Earth dist.	-1909 Jan 27 j 04:15	21°♌54'28	8.54692 AU	opposition	-1903 Apr 09 j 05:37	2°♎25'26	2°49'42
direct	-1909 Apr 07 j 05:53	18°♌26'40		min. Earth dist.	-1903 Apr 09 j 10:37	2°♎24'31	9.12637 AU
evening set	-1909 Jul 22 j 03:48	26°♌10'29			-1903 May 16 j 03:57	30°♎	
conjunction	-1909 Aug 08 j 15:10	28°♌18'01	1°29'17	direct	-1903 Jun 19 j 20:00	29°♎05'16	
minimum elong	-1909 Aug 08 j 15:07	28°♌18'00	1°29'19		-1903 Jul 23 j 21:47	0°♎	
max. Earth dist.	-1909 Aug 08 j 19:23	28°♌19'18	10.61350 AU	evening set	-1903 Sep 30 j 05:44	6°♎07'32	
	-1909 Aug 22 j 13:43	0°♏		conjunction	-1903 Oct 16 j 17:47	8°♎02'20	2°15'26
morning rise	-1909 Aug 25 j 21:29	0°♏23'59		minimum elong	-1903 Oct 16 j 17:49	8°♎02'20	2°15'24
retrograde	-1909 Dec 03 j 11:13	7°♏41'11		max. Earth dist.	-1903 Oct 16 j 11:04	8°♎00'22	11.13960 AU
opposition	-1908 Feb 09 j 04:41	4°♏21'23	2°03'37	morning rise	-1903 Nov 02 j 03:33	9°♎56'33	
min. Earth dist.	-1908 Feb 09 j 01:00	4°♏22'06	8.67868 AU	retrograde	-1902 Feb 09 j 18:28	16°♎48'58	
direct	-1908 Apr 19 j 13:59	0°♏55'43		opposition	-1902 Apr 21 j 02:49	13°♎32'17	2°38'58
evening set	-1908 Aug 03 j 02:32	8°♏30'54		min. Earth dist.	-1902 Apr 21 j 09:38	13°♎31'02	9.15029 AU
conjunction	-1908 Aug 20 j 08:32	10°♏35'15	1°50'52	direct	-1902 Jul 01 j 14:23	10°♎12'54	
minimum elong	-1908 Aug 20 j 08:29	10°♏35'14	1°50'54	evening set	-1902 Oct 11 j 09:10	17°♎11'57	
max. Earth dist.	-1908 Aug 20 j 11:13	10°♏36'04	10.74134 AU	conjunction	-1902 Oct 27 j 20:11	19°♎06'25	2°04'12
morning rise	-1908 Sep 06 j 09:21	12°♏38'05		minimum elong	-1902 Oct 27 j 20:14	19°♎06'26	2°04'11
	-1908 Sep 27 j 04:37	15°♏		max. Earth dist.	-1902 Oct 27 j 11:14	19°♎03'48	11.15103 AU
retrograde	-1908 Dec 14 j 14:00	19°♏47'24		morning rise	-1902 Nov 13 j 06:00	21°♎00'34	
opposition	-1907 Feb 20 j 18:18	16°♏28'48	2°26'37	retrograde	-1901 Feb 21 j 08:32	27°♎54'18	
min. Earth dist.	-1907 Feb 20 j 16:31	16°♏29'08	8.80226 AU	opposition	-1901 May 02 j 23:48	24°♎37'15	2°22'22
	-1907 Mar 12 j 19:50	15°♎♏		min. Earth dist.	-1901 May 03 j 08:12	24°♎35'43	9.14863 AU
direct	-1907 May 02 j 14:12	13°♏04'20		direct	-1901 Jul 13 j 07:19	21°♎18'28	
	-1907 Jun 21 j 06:03	15°♏		evening set	-1901 Oct 22 j 11:07	28°♎15'42	
evening set	-1907 Aug 15 j 14:43	20°♏31'16			-1901 Nov 06 j 10:36	0°♎	
conjunction	-1907 Sep 01 j 15:35	22°♏32'44	2°07'04	conjunction	-1901 Nov 07 j 22:03	0°♎10'22	1°48'19
minimum elong	-1907 Sep 01 j 15:33	22°♏32'43	2°07'06	minimum elong	-1901 Nov 07 j 22:06	0°♎10'23	1°48'18
max. Earth dist.	-1907 Sep 01 j 16:15	22°♏32'56	10.85837 AU	max. Earth dist.	-1901 Nov 07 j 11:58	0°♎07'25	11.13696 AU
morning rise	-1907 Sep 18 j 11:33	24°♏32'48		morning rise	-1901 Nov 24 j 08:44	2°♎05'00	
	-1907 Nov 12 j 20:02	0°♎		retrograde	-1900 Mar 04 j 00:13	9°♎01'40	
retrograde	-1907 Dec 26 j 11:50	1°♎35'40		opposition	-1900 May 13 j 22:04	5°♎43'59	2°00'25
	-1906 Feb 09 j 10:47	30°♎♏		min. Earth dist.	-1900 May 14 j 06:50	5°♎42'23	9.12138 AU
opposition	-1906 Mar 05 j 02:47	28°♏18'00	2°42'45	direct	-1900 Jul 23 j 22:42	2°♎25'37	
min. Earth dist.	-1906 Mar 05 j 03:28	28°♏17'52	8.91268 AU	evening set	-1900 Nov 01 j 13:17	9°♎22'29	
direct	-1906 May 15 j 06:39	24°♏54'43		conjunction	-1900 Nov 18 j 01:02	11°♎17'51	1°28'16
	-1906 Aug 07 j 17:15	0°♎		minimum elong	-1900 Nov 18 j 01:05	11°♎17'52	1°28'15
evening set	-1906 Aug 27 j 17:15	2°♎14'01		max. Earth dist.	-1900 Nov 17 j 15:17	11°♎14'59	11.09767 AU
conjunction	-1906 Sep 13 j 13:31	4°♎13'03	2°17'36	morning rise	-1900 Dec 04 j 13:10	13°♎13'25	

Attention, astronomical year style is used: The year -1900 in astronomical counting style is the year 1901 BCE in historical counting style.

-1900 Dec 20 j 10:57 15°♄