

Planetary Phenomena of Uranus 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.

opposition	-2400 Feb 10 j 06:48	1°♄55'08	0°48'33	min. Earth dist.	-2393 Mar 16 j 08:30	4°♃59'24	17.55668 AU
min. Earth dist.	-2400 Feb 11 j 02:13	1°♄53'01	17.29806 AU	direct	-2393 Jun 01 j 05:49	2°♃55'46	
	-2400 Apr 06 j 04:28	30°♃♂					
direct	-2400 Apr 27 j 03:01	29°♃♂48'38		conjunction	-2393 Sep 20 j 07:53	7°♃21'28	0°44'43
	-2400 May 17 j 21:20	0°♄		minimum elong	-2393 Sep 20 j 07:53	7°♃21'28	0°44'44
				max. Earth dist.	-2393 Sep 19 j 22:38	7°♃20'01	19.58207 AU
conjunction	-2400 Aug 17 j 14:30	4°♄21'06	0°44'10	retrograde	-2392 Jan 05 j 05:34	11°♃39'19	
minimum elong	-2400 Aug 17 j 14:30	4°♄21'06	0°44'12	opposition	-2392 Mar 20 j 00:19	9°♃38'24	0°49'12
max. Earth dist.	-2400 Aug 16 j 16:54	4°♄17'41	19.30860 AU	min. Earth dist.	-2392 Mar 20 j 06:51	9°♃37'42	17.60843 AU
retrograde	-2400 Dec 02 j 17:10	8°♄43'25		direct	-2392 Jun 05 j 07:59	7°♃34'03	
opposition	-2399 Feb 14 j 09:22	6°♄41'38	0°49'51				
min. Earth dist.	-2399 Feb 15 j 04:11	6°♄39'36	17.32135 AU	conjunction	-2392 Sep 24 j 03:24	11°♃58'21	0°43'35
direct	-2399 May 02 j 06:41	4°♄35'21		minimum elong	-2392 Sep 24 j 03:24	11°♃58'21	0°43'37
				max. Earth dist.	-2392 Sep 23 j 21:27	11°♃57'26	19.63545 AU
conjunction	-2399 Aug 22 j 15:46	9°♄07'15	0°45'11	retrograde	-2391 Jan 09 j 01:00	16°♃15'22	
minimum elong	-2399 Aug 22 j 15:46	9°♄07'15	0°45'14	opposition	-2391 Mar 25 j 01:06	14°♃14'31	0°47'47
max. Earth dist.	-2399 Aug 21 j 19:56	9°♄04'07	19.33475 AU	min. Earth dist.	-2391 Mar 25 j 06:19	14°♃13'58	17.66339 AU
retrograde	-2399 Dec 07 j 17:26	13°♄29'06		direct	-2391 Jun 10 j 08:41	12°♃10'30	
opposition	-2398 Feb 19 j 11:45	11°♄27'29	0°50'49				
min. Earth dist.	-2398 Feb 20 j 04:20	11°♄25'42	17.35001 AU	conjunction	-2391 Sep 28 j 21:47	16°♃33'19	0°42'11
direct	-2398 May 07 j 12:09	9°♄21'27		minimum elong	-2391 Sep 28 j 21:47	16°♃33'19	0°42'11
				max. Earth dist.	-2391 Sep 28 j 17:04	16°♃32'34	19.69218 AU
conjunction	-2398 Aug 27 j 16:29	13°♄52'39	0°45'53	retrograde	-2390 Jan 13 j 21:01	20°♃49'28	
minimum elong	-2398 Aug 27 j 16:29	13°♄52'39	0°45'55	opposition	-2390 Mar 30 j 01:07	18°♃48'42	0°46'04
max. Earth dist.	-2398 Aug 26 j 22:31	13°♄49'49	19.36591 AU	min. Earth dist.	-2390 Mar 30 j 03:29	18°♃48'27	17.72184 AU
	-2398 Sep 14 j 14:15	15°♄		direct	-2390 Jun 15 j 08:30	16°♃45'01	
retrograde	-2398 Dec 12 j 15:45	18°♄13'59					
opposition	-2397 Feb 24 j 14:30	16°♄12'31	0°51'25	conjunction	-2390 Oct 03 j 15:24	21°♃06'19	0°40'32
min. Earth dist.	-2397 Feb 25 j 06:34	16°♄10'48	17.38357 AU	minimum elong	-2390 Oct 03 j 15:24	21°♃06'19	0°40'32
	-2397 Mar 26 j 16:47	15°♃♄		max. Earth dist.	-2390 Oct 03 j 14:13	21°♃06'08	19.75237 AU
direct	-2397 May 12 j 15:42	14°♄06'45		retrograde	-2389 Jan 18 j 15:50	25°♃21'36	
	-2397 Jun 27 j 05:37	15°♄		opposition	-2389 Apr 04 j 00:48	23°♃20'56	0°44'04
				min. Earth dist.	-2389 Apr 04 j 01:15	23°♃20'53	17.78370 AU
conjunction	-2397 Sep 01 j 16:19	18°♄37'05	0°46'17	direct	-2389 Jun 20 j 08:26	21°♃17'38	
minimum elong	-2397 Sep 01 j 16:19	18°♄37'05	0°46'19				
max. Earth dist.	-2397 Aug 31 j 23:44	18°♄34'28	19.40175 AU	conjunction	-2389 Oct 08 j 07:47	25°♃37'22	0°38'38
retrograde	-2397 Dec 17 j 15:33	22°♄57'50		minimum elong	-2389 Oct 08 j 07:47	25°♃37'22	0°38'39
opposition	-2396 Feb 29 j 17:01	20°♄56'31	0°51'40	max. Earth dist.	-2389 Oct 08 j 08:00	25°♃37'24	19.81599 AU
min. Earth dist.	-2396 Mar 01 j 06:29	20°♄55'05	17.42141 AU	retrograde	-2388 Jan 23 j 10:30	29°♃51'50	
direct	-2396 May 16 j 21:05	18°♄51'02		opposition	-2388 Apr 07 j 23:44	27°♃51'16	0°41'49
				min. Earth dist.	-2388 Apr 07 j 21:28	27°♃51'30	17.84896 AU
conjunction	-2396 Sep 05 j 15:35	23°♄20'23	0°46'21	direct	-2388 Jun 24 j 06:14	25°♃48'23	
minimum elong	-2396 Sep 05 j 15:35	23°♄20'23	0°46'23		-2388 Oct 10 j 05:13	0°♂	
max. Earth dist.	-2396 Sep 05 j 01:22	23°♄18'08	19.44155 AU				
retrograde	-2396 Dec 21 j 12:47	27°♄40'28		conjunction	-2388 Oct 11 j 23:33	0°♂06'33	0°36'32
opposition	-2395 Mar 05 j 19:20	25°♄39'17	0°51'34	minimum elong	-2388 Oct 11 j 23:33	0°♂06'33	0°36'31
min. Earth dist.	-2395 Mar 06 j 08:16	25°♄37'54	17.46312 AU	max. Earth dist.	-2388 Oct 12 j 03:13	0°♂07'07	19.88272 AU
direct	-2395 May 21 j 23:41	23°♄34'04		retrograde	-2387 Jan 27 j 04:21	4°♂20'08	
				opposition	-2387 Apr 12 j 21:53	2°♂19'45	0°39'21
conjunction	-2395 Sep 10 j 13:55	28°♄02'19	0°46'07	min. Earth dist.	-2387 Apr 12 j 17:34	2°♂20'11	17.91689 AU
minimum elong	-2395 Sep 10 j 13:55	28°♄02'19	0°46'08	direct	-2387 Jun 29 j 05:09	0°♂17'19	
max. Earth dist.	-2395 Sep 10 j 00:44	28°♄00'15	19.48511 AU				
	-2395 Oct 12 j 18:55	0°♃		conjunction	-2387 Oct 16 j 14:18	4°♂33'54	0°34'13
retrograde	-2395 Dec 26 j 11:46	2°♃21'43		minimum elong	-2387 Oct 16 j 14:18	4°♂33'54	0°34'13
opposition	-2394 Mar 10 j 21:19	0°♃20'38	0°51'07	max. Earth dist.	-2387 Oct 16 j 19:13	4°♂34'39	19.95186 AU
min. Earth dist.	-2394 Mar 11 j 07:33	0°♃19'33	17.50828 AU	retrograde	-2386 Jan 31 j 21:24	8°♂46'40	
	-2394 Mar 19 j 00:52	30°♃♄		opposition	-2386 Apr 17 j 19:34	6°♂46'25	0°36'39
direct	-2394 May 27 j 03:58	28°♄15'42		min. Earth dist.	-2386 Apr 17 j 13:03	6°♂47'06	17.98704 AU
	-2394 Jul 31 j 02:21	0°♃		direct	-2386 Jul 04 j 01:21	4°♂44'28	
conjunction	-2394 Sep 15 j 11:26	2°♃42'44	0°45'34	conjunction	-2386 Oct 21 j 04:13	8°♂59'27	0°31'42
minimum elong	-2394 Sep 15 j 11:26	2°♃42'44	0°45'36	minimum elong	-2386 Oct 21 j 04:13	8°♂59'27	0°31'42
max. Earth dist.	-2394 Sep 15 j 01:06	2°♃41'07	19.53192 AU	max. Earth dist.	-2386 Oct 21 j 12:20	9°♂00'42	20.02276 AU
retrograde	-2394 Dec 31 j 07:56	7°♃01'22		retrograde	-2385 Feb 05 j 13:58	13°♂11'23	
opposition	-2393 Mar 15 j 23:09	5°♃00'23	0°50'19	opposition	-2385 Apr 22 j 16:39	11°♂11'19	0°33'45

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Attention, astronomical year style is used: The year -2385 in astronomical counting style is the year 2386 BCE in historical counting style.

min. Earth dist.	-2385 Apr 22 j 07:55	11°♄12'13	18.05839 AU	minimum elong	-2378 Nov 23 j 16:49	13°♌18'20	0°07'06
direct	-2385 Jul 08 j 23:03	9°♄09'52		behind sun begin	-2378 Nov 23 j 10:46	13°♌17'28	
				behind sun end	-2378 Nov 23 j 22:51	13°♌19'13	
conjunction	-2385 Oct 25 j 17:19	13°♄23'14	0°29'02	max. Earth dist.	-2378 Nov 24 j 13:28	13°♌21'24	20.56594 AU
minimum elong	-2385 Oct 25 j 17:20	13°♄23'14	0°29'01		-2378 Dec 23 j 01:14	15°♌	
max. Earth dist.	-2385 Oct 26 j 02:36	13°♄24'39	20.09451 AU	retrograde	-2377 Mar 12 j 02:16	17°♌23'58	
retrograde	-2384 Feb 10 j 05:42	17°♄34'21		opposition	-2377 May 28 j 14:50	15°♌24'34	0°05'59
opposition	-2384 Apr 26 j 12:59	15°♄34'26	0°30'40	min. Earth dist.	-2377 May 27 j 17:35	15°♌26'43	18.59593 AU
min. Earth dist.	-2384 Apr 26 j 02:40	15°♄35'30	18.13043 AU		-2377 Jun 07 j 20:58	15°♌	
direct	-2384 Jul 12 j 17:14	13°♄33'26		direct	-2377 Aug 13 j 09:11	13°♌26'04	
					-2377 Oct 14 j 11:28	15°♌	
conjunction	-2384 Oct 29 j 05:46	17°♄45'14	0°26'12	conjunction	-2377 Nov 28 j 00:16	17°♌27'22	0°03'49
minimum elong	-2384 Oct 29 j 05:46	17°♄45'14	0°26'11	minimum elong	-2377 Nov 28 j 00:15	17°♌27'22	0°03'47
max. Earth dist.	-2384 Oct 29 j 17:40	17°♄47'02	20.16646 AU	behind sun begin	-2377 Nov 27 j 17:48	17°♌26'26	
retrograde	-2383 Feb 13 j 20:42	21°♄55'31		behind sun end	-2377 Nov 28 j 06:43	17°♌28'18	
opposition	-2383 May 01 j 08:36	19°♄55'46	0°27'26	max. Earth dist.	-2377 Nov 28 j 22:01	17°♌30'35	20.62544 AU
min. Earth dist.	-2383 Apr 30 j 20:08	19°♄57'02	18.20202 AU	retrograde	-2376 Mar 15 j 12:18	21°♌32'20	
direct	-2383 Jul 17 j 12:56	17°♄55'12		min. Earth dist.	-2376 May 31 j 07:27	19°♌35'08	18.65471 AU
				opposition	-2376 Jun 01 j 05:01	19°♌32'58	0°02'17
conjunction	-2383 Nov 02 j 17:19	22°♄05'25	0°23'14	direct	-2376 Aug 16 j 19:45	17°♌34'45	
minimum elong	-2383 Nov 02 j 17:19	22°♄05'25	0°23'12				
max. Earth dist.	-2383 Nov 03 j 06:09	22°♄07'21	20.23758 AU	conjunction	-2376 Dec 01 j 07:14	21°♌34'47	0°00'26
retrograde	-2382 Feb 18 j 11:04	26°♄14'54		minimum elong	-2376 Dec 01 j 07:13	21°♌34'47	0°00'23
opposition	-2382 May 06 j 03:38	24°♄15'16	0°24'04	behind sun begin	-2376 Dec 01 j 00:43	21°♌33'51	
min. Earth dist.	-2382 May 05 j 14:04	24°♄16'38	18.27266 AU	behind sun end	-2376 Dec 01 j 13:43	21°♌35'43	
direct	-2382 Jul 22 j 05:25	22°♄15'07		max. Earth dist.	-2376 Dec 02 j 06:37	21°♌38'13	20.68333 AU
				desc. node	-2375 Jan 16 j 16:10	24°♌06'58	
conjunction	-2382 Nov 07 j 04:21	26°♄23'46	0°20'09	retrograde	-2375 Mar 19 j 23:37	25°♌39'08	
minimum elong	-2382 Nov 07 j 04:21	26°♄23'46	0°20'08	opposition	-2375 Jun 05 j 18:23	23°♌39'49	0°-1'-23
max. Earth dist.	-2382 Nov 07 j 19:23	26°♄26'02	20.30746 AU	min. Earth dist.	-2375 Jun 04 j 18:34	23°♌42'12	18.71166 AU
	-2381 Jan 18 j 09:44	0°♌		direct	-2375 Aug 21 j 08:16	21°♌41'54	
retrograde	-2381 Feb 23 j 01:01	0°♌32'27					
	-2381 Mar 31 j 20:14	30°♌		conjunction	-2375 Dec 05 j 13:31	25°♌40'45	0°-2'-57
opposition	-2381 May 10 j 21:52	28°♄32'55	0°20'35	minimum elong	-2375 Dec 05 j 13:31	25°♌40'45	0°03'01
min. Earth dist.	-2381 May 10 j 06:08	28°♄34'31	18.34159 AU	behind sun begin	-2375 Dec 05 j 07:00	25°♌39'49	
direct	-2381 Jul 26 j 23:12	26°♄33'10		behind sun end	-2375 Dec 05 j 20:01	25°♌41'41	
	-2381 Oct 31 j 09:59	0°♌		max. Earth dist.	-2375 Dec 06 j 13:55	25°♌44'20	20.73922 AU
				retrograde	-2374 Mar 24 j 09:02	29°♌44'34	
conjunction	-2381 Nov 11 j 14:28	0°♌40'15	0°16'59	min. Earth dist.	-2374 Jun 09 j 07:20	27°♌47'42	18.76663 AU
minimum elong	-2381 Nov 11 j 14:28	0°♌40'15	0°16'57	opposition	-2374 Jun 10 j 07:17	27°♌45'19	0°-5'-2
max. Earth dist.	-2381 Nov 12 j 06:22	0°♌42'38	20.37536 AU	direct	-2374 Aug 25 j 17:22	25°♌47'42	
retrograde	-2380 Feb 27 j 13:56	4°♌48'09					
opposition	-2380 May 14 j 15:26	2°♌48'41	0°17'00	conjunction	-2374 Dec 09 j 19:34	29°♌45'27	0°-6'-14
min. Earth dist.	-2380 May 13 j 23:03	2°♌50'20	18.40850 AU	minimum elong	-2374 Dec 09 j 19:34	29°♌45'27	0°06'18
direct	-2380 Jul 30 j 13:44	0°♌49'16		behind sun begin	-2374 Dec 09 j 13:23	29°♌44'34	
				behind sun end	-2374 Dec 10 j 01:46	29°♌46'20	
conjunction	-2380 Nov 15 j 00:04	4°♌54'51	0°13'45	max. Earth dist.	-2374 Dec 10 j 21:19	29°♌49'13	20.79309 AU
minimum elong	-2380 Nov 15 j 00:04	4°♌54'51	0°13'43		-2374 Dec 13 j 22:47	0°♌	
behind sun begin	-2380 Nov 14 j 20:25	4°♌54'19		retrograde	-2373 Mar 28 j 19:50	3°♌48'47	
behind sun end	-2380 Nov 15 j 03:43	4°♌55'23		opposition	-2373 Jun 14 j 19:18	1°♌49'37	0°-8'-39
max. Earth dist.	-2380 Nov 15 j 17:50	4°♌57'30	20.44111 AU	min. Earth dist.	-2373 Jun 13 j 17:22	1°♌52'12	18.81924 AU
retrograde	-2379 Mar 03 j 02:50	9°♌01'57			-2373 Aug 12 j 14:57	30°♌	
opposition	-2379 May 19 j 07:52	7°♌02'31	0°13'22	direct	-2373 Aug 30 j 03:56	29°♌52'19	
min. Earth dist.	-2379 May 18 j 13:23	7°♌04'23	18.47302 AU		-2373 Sep 16 j 11:21	0°♌	
direct	-2379 Aug 04 j 06:01	5°♌03'26					
				conjunction	-2373 Dec 14 j 01:13	3°♌49'04	0°-9'-27
conjunction	-2379 Nov 19 j 08:48	9°♌07'32	0°10'28	minimum elong	-2373 Dec 14 j 01:12	3°♌49'04	0°09'31
minimum elong	-2379 Nov 19 j 08:48	9°♌07'32	0°10'25	behind sun begin	-2373 Dec 13 j 19:44	3°♌48'17	
behind sun begin	-2379 Nov 19 j 03:37	9°♌06'47		behind sun end	-2373 Dec 14 j 06:41	3°♌49'50	
behind sun end	-2379 Nov 19 j 13:59	9°♌08'17		max. Earth dist.	-2373 Dec 15 j 03:41	3°♌52'55	20.84423 AU
max. Earth dist.	-2379 Nov 20 j 03:32	9°♌10'19	20.50450 AU	retrograde	-2372 Apr 01 j 05:02	7°♌51'57	
retrograde	-2378 Mar 07 j 14:11	13°♌13'53		min. Earth dist.	-2372 Jun 17 j 05:19	5°♌55'26	18.86892 AU
opposition	-2378 May 23 j 23:50	11°♌14'28	0°09'41	opposition	-2372 Jun 18 j 06:55	5°♌52'53	0°-12'-13
min. Earth dist.	-2378 May 23 j 04:53	11°♌16'23	18.53546 AU	direct	-2372 Sep 02 j 11:55	3°♌55'53	
direct	-2378 Aug 08 j 18:34	9°♌15'41					
				conjunction	-2372 Dec 17 j 06:40	7°♌51'42	0°-12'-38
conjunction	-2378 Nov 23 j 16:49	13°♌18'20	0°07'09				

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Attention, astronomical year style is used: The year -2372 in astronomical counting style is the year 2373 BCE in historical counting style.

minimum elong	-2372 Dec 17 j 06:40	7°♂51'42	0°12'43	opposition	-2364 Jul 21 j 08:26	7°♂51'35	0°-36'-46
behind sun begin	-2372 Dec 17 j 02:27	7°♂51'07		direct	-2364 Oct 04 j 19:56	5°♂55'37	
behind sun end	-2372 Dec 17 j 10:52	7°♂52'18					
max. Earth dist.	-2372 Dec 18 j 09:59	7°♂55'41	20.89223 AU	conjunction	-2363 Jan 17 j 22:16	9°♂46'56	0°-34'-22
retrograde	-2371 Apr 05 j 15:25	11°♂54'13		minimum elong	-2363 Jan 17 j 22:16	9°♂46'56	0°34'27
opposition	-2371 Jun 22 j 17:41	9°♂55'14	0°-15'-42	max. Earth dist.	-2363 Jan 19 j 01:02	9°♂50'45	21.10298 AU
min. Earth dist.	-2371 Jun 21 j 14:33	9°♂57'56	18.91507 AU	retrograde	-2363 May 08 j 10:31	13°♂47'56	
direct	-2371 Sep 06 j 20:53	7°♂58'31		opposition	-2363 Jul 25 j 15:31	11°♂48'43	0°-39'-9
				min. Earth dist.	-2363 Jul 24 j 14:15	11°♂51'15	19.10600 AU
conjunction	-2371 Dec 21 j 11:53	11°♂53'30	0°-15'-44	direct	-2363 Oct 09 j 02:34	9°♂52'43	
minimum elong	-2371 Dec 21 j 11:53	11°♂53'30	0°15'49				
behind sun begin	-2371 Dec 21 j 10:23	11°♂53'18		conjunction	-2362 Jan 22 j 03:10	13°♂43'52	0°-36'-26
behind sun end	-2371 Dec 21 j 13:22	11°♂53'43		minimum elong	-2362 Jan 22 j 03:10	13°♂43'52	0°36'31
max. Earth dist.	-2371 Dec 22 j 15:34	11°♂57'31	20.93634 AU	max. Earth dist.	-2362 Jan 23 j 05:36	13°♂47'38	21.10708 AU
retrograde	-2370 Apr 09 j 23:51	15°♂55'42		retrograde	-2362 May 12 j 16:53	17°♂44'55	
min. Earth dist.	-2370 Jun 26 j 01:52	13°♂59'25	18.95716 AU	opposition	-2362 Jul 29 j 22:28	15°♂45'35	0°-41'-20
opposition	-2370 Jun 27 j 04:14	13°♂56'47	0°-19'-6	min. Earth dist.	-2362 Jul 28 j 22:35	15°♂47'59	19.10817 AU
direct	-2370 Sep 11 j 04:21	12°♂00'20		direct	-2362 Oct 13 j 06:22	13°♂49'34	
conjunction	-2370 Dec 25 j 16:59	15°♂54'33	0°-18'-46	conjunction	-2361 Jan 26 j 08:16	17°♂40'38	0°-38'-20
minimum elong	-2370 Dec 25 j 16:59	15°♂54'33	0°18'50	minimum elong	-2361 Jan 26 j 08:16	17°♂40'38	0°38'24
max. Earth dist.	-2370 Dec 26 j 21:04	15°♂58'37	20.97617 AU	max. Earth dist.	-2361 Jan 27 j 10:15	17°♂44'20	21.10738 AU
retrograde	-2369 Apr 14 j 10:31	19°♂56'27		retrograde	-2361 May 17 j 01:31	21°♂41'48	
min. Earth dist.	-2369 Jun 30 j 10:38	18°♂00'20	18.99453 AU	min. Earth dist.	-2361 Aug 02 j 04:47	19°♂44'50	19.10649 AU
opposition	-2369 Jul 01 j 14:06	17°♂57'36	0°-22'-23	opposition	-2361 Aug 03 j 05:03	19°♂42'24	0°-43'-20
direct	-2369 Sep 15 j 12:16	16°♂01'20		direct	-2361 Oct 17 j 11:55	17°♂46'19	
conjunction	-2369 Dec 29 j 22:04	19°♂54'54	0°-21'-42	conjunction	-2360 Jan 30 j 13:39	21°♂37'26	0°-40'-3
minimum elong	-2369 Dec 29 j 22:04	19°♂54'54	0°21'46	minimum elong	-2360 Jan 30 j 13:39	21°♂37'26	0°40'06
max. Earth dist.	-2369 Dec 31 j 02:02	19°♂58'56	21.01083 AU	max. Earth dist.	-2360 Jan 31 j 15:02	21°♂41'03	21.10364 AU
retrograde	-2368 Apr 17 j 17:44	23°♂56'33		retrograde	-2360 May 20 j 08:24	25°♂38'46	
opposition	-2368 Jul 04 j 23:27	21°♂57'43	0°-25'-34	opposition	-2360 Aug 06 j 11:25	23°♂39'18	0°-45'-7
min. Earth dist.	-2368 Jul 03 j 21:15	22°♂00'19	19.02657 AU	min. Earth dist.	-2360 Aug 05 j 12:45	23°♂41'35	19.10081 AU
direct	-2368 Sep 18 j 19:03	20°♂01'37		direct	-2360 Oct 20 j 15:26	21°♂43'12	
conjunction	-2367 Jan 02 j 03:07	23°♂54'34	0°-24'-30	conjunction	-2359 Feb 02 j 19:20	25°♂34'28	0°-41'-34
minimum elong	-2367 Jan 02 j 03:07	23°♂54'34	0°24'34	minimum elong	-2359 Feb 02 j 19:20	25°♂34'28	0°41'38
max. Earth dist.	-2367 Jan 03 j 06:56	23°♂58'34	21.04011 AU	max. Earth dist.	-2359 Feb 03 j 19:58	25°♂37'58	21.09612 AU
retrograde	-2367 Apr 22 j 04:08	27°♂56'00		retrograde	-2359 May 24 j 17:18	29°♂36'03	
min. Earth dist.	-2367 Jul 08 j 05:24	25°♂59'50	19.05297 AU	opposition	-2359 Aug 10 j 17:42	27°♂36'32	0°-46'-42
opposition	-2367 Jul 09 j 08:20	25°♂57'08	0°-28'-36	min. Earth dist.	-2359 Aug 09 j 18:55	27°♂38'50	19.09122 AU
direct	-2367 Sep 23 j 02:35	24°♂01'09		direct	-2359 Oct 24 j 20:20	25°♂40'22	
conjunction	-2366 Jan 06 j 07:51	27°♂53'34	0°-27'-12	conjunction	-2358 Feb 07 j 01:15	29°♂31'53	0°-42'-54
minimum elong	-2366 Jan 06 j 07:51	27°♂53'34	0°27'17	minimum elong	-2358 Feb 07 j 01:15	29°♂31'53	0°42'57
max. Earth dist.	-2366 Jan 07 j 11:24	27°♂57'31	21.06358 AU	max. Earth dist.	-2358 Feb 08 j 01:08	29°♂35'17	21.08440 AU
retrograde	-2366 Feb 13 j 21:55	0°♂			-2358 Feb 15 j 07:13	0°♂	
retrograde	-2366 Apr 26 j 10:28	1°♂54'50		retrograde	-2358 May 29 j 00:50	3°♂33'47	
	-2366 Jul 11 j 23:56	30°R♂		min. Earth dist.	-2358 Aug 14 j 03:07	1°♂36'21	19.07736 AU
opposition	-2366 Jul 13 j 16:57	29°♂55'54	0°-31'-29	opposition	-2358 Aug 15 j 00:04	1°♂34'14	0°-48'-4
min. Earth dist.	-2366 Jul 12 j 15:22	29°♂58'28	19.07370 AU		-2358 Sep 29 j 05:54	30°R♂	
direct	-2366 Sep 27 j 08:12	27°♂59'58		direct	-2358 Oct 28 j 23:57	29°♂38'01	
	-2366 Dec 07 j 16:21	0°♂			-2358 Nov 27 j 05:13	0°♂	
conjunction	-2365 Jan 10 j 12:43	1°♂51'55	0°-29'-44	conjunction	-2357 Feb 11 j 07:53	3°♂29'53	0°-44'-2
minimum elong	-2365 Jan 10 j 12:43	1°♂51'55	0°29'48	minimum elong	-2357 Feb 11 j 07:53	3°♂29'53	0°44'06
max. Earth dist.	-2365 Jan 11 j 16:04	1°♂55'50	21.08170 AU	max. Earth dist.	-2357 Feb 12 j 06:37	3°♂33'07	21.06843 AU
retrograde	-2365 Apr 30 j 19:53	5°♂53'02		retrograde	-2357 Jun 02 j 10:30	7°♂32'09	
min. Earth dist.	-2365 Jul 16 j 22:41	3°♂56'38	19.08919 AU	min. Earth dist.	-2357 Aug 18 j 09:37	5°♂34'38	19.05902 AU
opposition	-2365 Jul 18 j 00:49	3°♂54'01	0°-34'-13	opposition	-2357 Aug 19 j 06:09	5°♂32'33	0°-49'-12
direct	-2365 Oct 01 j 15:32	1°♂58'05		direct	-2357 Nov 02 j 04:56	3°♂36'15	
conjunction	-2364 Jan 14 j 17:30	5°♂49'40	0°-32'-8	conjunction	-2356 Feb 15 j 15:01	7°♂28'35	0°-44'-57
minimum elong	-2364 Jan 14 j 17:30	5°♂49'40	0°32'13	minimum elong	-2356 Feb 15 j 15:01	7°♂28'35	0°45'01
max. Earth dist.	-2364 Jan 15 j 20:31	5°♂53'32	21.09460 AU	max. Earth dist.	-2356 Feb 16 j 12:29	7°♂31'39	21.04758 AU
retrograde	-2364 May 04 j 01:54	9°♂50'43		retrograde	-2356 Jun 05 j 18:19	11°♂31'17	
min. Earth dist.	-2364 Jul 20 j 07:44	7°♂54'03	19.09977 AU	opposition	-2356 Aug 22 j 12:29	9°♂31'38	0°-50'-6

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Attention, astronomical year style is used: The year -2356 in astronomical counting style is the year 2357 BCE in historical counting style.

min. Earth dist.	-2356 Aug 21 j 18:13	9°≈33'29	19.03562 AU	max. Earth dist.	-2348 Mar 20 j 04:38	9°✕51'04	20.70763 AU
direct	-2356 Nov 05 j 08:45	7°≈35'13		retrograde	-2348 Jul 09 j 03:43	13°✕57'17	
conjunction	-2355 Feb 18 j 22:37	11°≈28'05	0°-45'-39	opposition	-2348 Sep 23 j 19:08	11°✕56'24	0°-48'-18
minimum elong	-2355 Feb 18 j 22:37	11°≈28'05	0°45'43	min. Earth dist.	-2348 Sep 23 j 13:35	11°✕56'59	18.67919 AU
max. Earth dist.	-2355 Feb 19 j 18:26	11°≈30'55	21.02166 AU	direct	-2348 Dec 07 j 07:40	9°✕57'43	
retrograde	-2355 May 05 j 00:31	15°≈		conjunction	-2347 Mar 24 j 09:41	13°✕57'38	0°-43'-3
	-2355 Jun 10 j 04:49	15°≈31'15		minimum elong	-2347 Mar 24 j 09:41	13°✕57'38	0°43'05
	-2355 Jul 16 j 20:44	15°≈		max. Earth dist.	-2347 Mar 24 j 14:57	13°✕58'23	20.65024 AU
opposition	-2355 Aug 26 j 18:51	13°≈31'31	0°-50'-46	retrograde	-2347 Jul 13 j 17:26	18°✕05'43	
min. Earth dist.	-2355 Aug 26 j 01:19	13°≈33'18	19.00698 AU	opposition	-2347 Sep 28 j 03:09	16°✕04'40	0°-46'-56
direct	-2355 Nov 09 j 14:24	11°≈34'56		min. Earth dist.	-2347 Sep 27 j 22:38	16°✕05'08	18.62088 AU
	-2354 Feb 14 j 23:09	15°≈		direct	-2347 Dec 11 j 16:02	14°✕05'39	
conjunction	-2354 Feb 23 j 06:54	15°≈28'26	0°-46'-8	conjunction	-2346 Mar 28 j 23:22	18°✕06'49	0°-41'-41
minimum elong	-2354 Feb 23 j 06:54	15°≈28'26	0°46'12	minimum elong	-2346 Mar 28 j 23:22	18°✕06'49	0°41'43
max. Earth dist.	-2354 Feb 24 j 01:08	15°≈31'02	20.99024 AU	max. Earth dist.	-2346 Mar 29 j 03:23	18°✕07'24	20.59104 AU
retrograde	-2354 Jun 14 j 12:43	19°≈32'05		retrograde	-2346 Jul 18 j 05:23	22°✕15'41	
min. Earth dist.	-2354 Aug 30 j 10:15	17°≈33'47	18.97284 AU	opposition	-2346 Oct 02 j 11:36	20°✕14'31	0°-45'-19
opposition	-2354 Aug 31 j 01:21	17°≈32'15	0°-51'-10	min. Earth dist.	-2346 Oct 02 j 09:08	20°✕14'47	18.56086 AU
direct	-2354 Nov 13 j 18:47	15°≈35'27		direct	-2346 Dec 15 j 22:57	18°✕15'11	
conjunction	-2353 Feb 27 j 15:46	19°≈29'38	0°-46'-24	conjunction	-2345 Apr 02 j 13:54	22°✕17'40	0°-40'-6
minimum elong	-2353 Feb 27 j 15:46	19°≈29'38	0°46'27	minimum elong	-2345 Apr 02 j 13:54	22°✕17'40	0°40'08
max. Earth dist.	-2353 Feb 28 j 07:57	19°≈31'56	20.95359 AU	max. Earth dist.	-2345 Apr 02 j 15:16	22°✕17'52	20.53040 AU
retrograde	-2353 Jun 18 j 23:42	23°≈33'48		retrograde	-2345 Jul 22 j 20:20	26°✕27'23	
opposition	-2353 Sep 04 j 07:53	21°≈33'48	0°-51'-20	opposition	-2345 Oct 06 j 20:34	24°✕26'07	0°-43'-26
min. Earth dist.	-2353 Sep 03 j 17:46	21°≈35'15	18.93351 AU	min. Earth dist.	-2345 Oct 06 j 19:28	24°✕26'14	18.49940 AU
direct	-2353 Nov 18 j 01:01	19°≈36'45		direct	-2345 Dec 20 j 08:37	22°✕26'27	
conjunction	-2352 Mar 03 j 01:12	23°≈31'42	0°-46'-25	conjunction	-2344 Apr 06 j 05:21	26°✕30'20	0°-38'-17
minimum elong	-2352 Mar 03 j 01:12	23°≈31'42	0°46'29	minimum elong	-2344 Apr 06 j 05:21	26°✕30'20	0°38'18
max. Earth dist.	-2352 Mar 03 j 15:45	23°≈33'46	20.91176 AU	max. Earth dist.	-2344 Apr 06 j 05:29	26°✕30'21	20.46806 AU
retrograde	-2352 Jun 22 j 08:04	27°≈36'25			-2344 Jun 15 j 19:32	0°♀	
opposition	-2352 Sep 07 j 14:30	25°≈36'15	0°-51'-14	retrograde	-2344 Jul 26 j 09:43	0°♀40'54	
min. Earth dist.	-2352 Sep 07 j 02:47	25°≈37'27	18.88937 AU		-2344 Sep 05 j 10:42	30°♀	
direct	-2352 Nov 21 j 06:07	23°≈38'54		opposition	-2344 Oct 10 j 06:07	28°✕39'33	0°-41'-19
conjunction	-2351 Mar 07 j 11:08	27°≈34'40	0°-46'-13	min. Earth dist.	-2344 Oct 10 j 07:08	28°✕39'27	18.43621 AU
minimum elong	-2351 Mar 07 j 11:08	27°≈34'40	0°46'15	direct	-2344 Dec 23 j 17:18	26°✕39'35	
max. Earth dist.	-2351 Mar 07 j 23:38	27°≈36'27	20.86570 AU		-2343 Mar 29 j 00:50	0°♀	
retrograde	-2351 Apr 21 j 16:10	0°✕		conjunction	-2343 Apr 10 j 21:42	0°♀44'55	0°-36'-15
	-2351 Jun 26 j 19:20	1°✕39'59		minimum elong	-2343 Apr 10 j 21:42	0°♀44'55	0°36'16
	-2351 Sep 03 j 14:27	30°♀		max. Earth dist.	-2343 Apr 10 j 18:49	0°♀44'30	20.40416 AU
opposition	-2351 Sep 11 j 21:16	29°≈39'37	0°-50'-53	retrograde	-2343 Jul 31 j 01:26	4°♀56'22	
min. Earth dist.	-2351 Sep 11 j 10:29	29°≈40'44	18.84136 AU	opposition	-2343 Oct 14 j 16:15	2°♀54'55	0°-38'-57
direct	-2351 Nov 25 j 12:41	27°≈41'56		min. Earth dist.	-2343 Oct 14 j 19:00	2°♀54'38	18.37142 AU
	-2350 Feb 10 j 09:55	0°✕		direct	-2343 Dec 28 j 04:10	0°♀54'36	
conjunction	-2350 Mar 11 j 21:41	1°✕38'37	0°-45'-46	conjunction	-2342 Apr 15 j 15:11	5°♀01'27	0°-34'00
minimum elong	-2350 Mar 11 j 21:41	1°✕38'37	0°45'49	minimum elong	-2342 Apr 15 j 15:11	5°♀01'27	0°34'00
max. Earth dist.	-2350 Mar 12 j 08:47	1°✕40'13	20.81587 AU	max. Earth dist.	-2342 Apr 15 j 10:52	5°♀00'50	20.33832 AU
retrograde	-2350 Jul 01 j 04:51	5°✕44'34		retrograde	-2342 Aug 04 j 16:27	9°♀13'47	
opposition	-2350 Sep 16 j 04:21	3°✕44'01	0°-50'-17	opposition	-2342 Oct 19 j 03:07	7°♀12'15	0°-36'-21
min. Earth dist.	-2350 Sep 15 j 19:45	3°✕44'54	18.78988 AU	min. Earth dist.	-2342 Oct 19 j 08:03	7°♀11'43	18.30453 AU
direct	-2350 Nov 29 j 18:20	1°✕46'01		direct	-2341 Jan 01 j 15:18	5°♀11'34	
conjunction	-2349 Mar 16 j 09:01	5°✕43'41	0°-45'-6	conjunction	-2341 Apr 20 j 09:33	9°♀19'56	0°-31'-32
minimum elong	-2349 Mar 16 j 09:01	5°✕43'41	0°45'08	minimum elong	-2341 Apr 20 j 09:33	9°♀19'56	0°31'31
max. Earth dist.	-2349 Mar 16 j 17:55	5°✕44'58	20.76307 AU	max. Earth dist.	-2341 Apr 20 j 01:44	9°♀18'48	20.27051 AU
retrograde	-2349 Jul 05 j 17:07	9°✕50'18		retrograde	-2341 Aug 09 j 08:36	13°♀33'09	
opposition	-2349 Sep 20 j 11:28	7°✕49'34	0°-49'-25	opposition	-2341 Oct 23 j 14:34	11°♀31'29	0°-33'-31
min. Earth dist.	-2349 Sep 20 j 03:53	7°✕50'21	18.73573 AU	min. Earth dist.	-2341 Oct 23 j 21:30	11°♀30'45	18.23581 AU
direct	-2349 Dec 04 j 01:37	5°✕51'12		direct	-2340 Jan 06 j 03:35	9°♀30'24	
conjunction	-2348 Mar 19 j 21:05	9°✕49'59	0°-44'-11	conjunction	-2340 Apr 24 j 04:56	13°♀40'21	0°-28'-52
minimum elong	-2348 Mar 19 j 21:05	9°✕49'59	0°44'13	minimum elong	-2340 Apr 24 j 04:56	13°♀40'21	0°28'53

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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 Apr 23 j 19:45	13° $\Upsilon$ 39'00	20.20087 AU	retrograde	-2333 Sep 14 j 10:35	19° $\text{C}$ 14'21	
retrograde	-2340 Aug 13 j 01:12	17° $\Upsilon$ 54'24		opposition	-2333 Nov 27 j 11:12	17° $\text{C}$ 11'45	0°-4'-33
opposition	-2340 Oct 27 j 02:47	15° $\Upsilon$ 52'36	0°-30'-28	min. Earth dist.	-2333 Nov 28 j 06:39	17° $\text{C}$ 09'38	17.69064 AU
min. Earth dist.	-2340 Oct 27 j 11:35	15° $\Upsilon$ 51'40	18.16542 AU	direct	-2332 Feb 10 j 14:50	15° $\text{C}$ 07'20	
direct	-2339 Jan 09 j 17:06	13° $\Upsilon$ 51'06		conjunction	-2332 May 31 j 19:26	19° $\text{C}$ 29'54	0°-2'-18
conjunction	-2339 Apr 29 j 00:49	18° $\Upsilon$ 02'36	0°-26'-1	minimum elong	-2332 May 31 j 19:26	19° $\text{C}$ 29'54	0°02'17
minimum elong	-2339 Apr 29 j 00:49	18° $\Upsilon$ 02'36	0°26'01	behind sun begin	-2332 May 31 j 12:39	19° $\text{C}$ 28'54	
max. Earth dist.	-2339 Apr 28 j 12:14	18° $\Upsilon$ 00'45	20.13003 AU	behind sun end	-2332 Jun 01 j 02:14	19° $\text{C}$ 30'55	
retrograde	-2339 Aug 17 j 17:42	22° $\Upsilon$ 17'32		max. Earth dist.	-2332 May 30 j 20:03	19° $\text{C}$ 26'21	19.66156 AU
opposition	-2339 Oct 31 j 15:37	20° $\Upsilon$ 15'34	0°-27'-13	retrograde	-2332 Sep 18 j 09:11	23° $\text{C}$ 50'16	
min. Earth dist.	-2339 Nov 01 j 02:28	20° $\Upsilon$ 14'24	18.09422 AU	opposition	-2332 Dec 01 j 05:09	21° $\text{C}$ 47'40	0°00'-27
direct	-2338 Jan 14 j 06:55	18° $\Upsilon$ 13'37		min. Earth dist.	-2332 Dec 02 j 00:44	21° $\text{C}$ 45'32	17.63357 AU
conjunction	-2338 May 03 j 21:55	22° $\Upsilon$ 26'43	0°-23'00	asc. node	-2331 Jan 11 j 08:37	20° $\text{C}$ 12'58	
minimum elong	-2338 May 03 j 21:55	22° $\Upsilon$ 26'43	0°23'00	direct	-2331 Feb 14 j 11:41	19° $\text{C}$ 42'58	
max. Earth dist.	-2338 May 03 j 08:17	22° $\Upsilon$ 24'42	20.05859 AU	conjunction	-2331 Jun 05 j 21:23	24° $\text{C}$ 07'01	0°01'31
retrograde	-2338 Aug 22 j 11:39	26° $\Upsilon$ 42'27		minimum elong	-2331 Jun 05 j 21:24	24° $\text{C}$ 07'01	0°01'34
opposition	-2338 Nov 05 j 05:00	24° $\Upsilon$ 40'21	0°-23'-47	behind sun begin	-2331 Jun 05 j 14:36	24° $\text{C}$ 06'01	
min. Earth dist.	-2338 Nov 05 j 17:23	24° $\Upsilon$ 39'01	18.02275 AU	behind sun end	-2331 Jun 06 j 04:12	24° $\text{C}$ 08'02	
direct	-2337 Jan 18 j 22:32	22° $\Upsilon$ 37'57		max. Earth dist.	-2331 Jun 04 j 20:14	24° $\text{C}$ 03'11	19.60636 AU
conjunction	-2337 May 08 j 19:38	26° $\Upsilon$ 52'39	0°-19'-50	retrograde	-2331 Sep 23 j 06:32	28° $\text{C}$ 28'04	
minimum elong	-2337 May 08 j 19:38	26° $\Upsilon$ 52'39	0°19'49	opposition	-2331 Dec 06 j 00:05	26° $\text{C}$ 25'30	0°03'41
max. Earth dist.	-2337 May 08 j 02:47	26° $\Upsilon$ 50'08	19.98739 AU	min. Earth dist.	-2331 Dec 06 j 21:35	26° $\text{C}$ 23'09	17.58032 AU
retrograde	-2337 Jul 05 j 22:50	0° $\text{C}$		direct	-2330 Feb 19 j 07:15	24° $\text{C}$ 20'32	
opposition	-2337 Aug 27 j 04:48	1° $\text{C}$ 09'13		max. Earth dist.	-2330 Jun 09 j 22:24	28° $\text{C}$ 42'04	19.55494 AU
min. Earth dist.	-2337 Oct 19 j 14:39	30° $\text{R}$ $\Upsilon$		conjunction	-2330 Jun 11 j 00:13	28° $\text{C}$ 46'02	0°05'16
direct	-2337 Nov 09 j 19:11	29° $\Upsilon$ 06'57	0°-20'-11	minimum elong	-2330 Jun 11 j 00:12	28° $\text{C}$ 46'02	0°05'18
conjunction	-2336 May 12 j 18:06	1° $\text{C}$ 20'24	0°-16'-31	behind sun begin	-2330 Jun 10 j 17:39	28° $\text{C}$ 45'03	
minimum elong	-2336 May 12 j 18:06	1° $\text{C}$ 20'24	0°16'30	behind sun end	-2330 Jun 11 j 06:46	28° $\text{C}$ 47'01	
max. Earth dist.	-2336 May 12 j 00:39	1° $\text{C}$ 17'47	19.91722 AU	retrograde	-2330 Jul 01 j 06:42	0° $\text{II}$	
retrograde	-2336 Aug 30 j 23:52	5° $\text{C}$ 37'45		opposition	-2330 Sep 28 j 06:52	3° $\text{II}$ 07'41	
opposition	-2336 Nov 13 j 10:01	3° $\text{C}$ 35'22	0°-16'-27	min. Earth dist.	-2330 Dec 10 j 19:39	1° $\text{II}$ 05'10	0°07'51
min. Earth dist.	-2336 Nov 14 j 01:20	3° $\text{C}$ 33'43	17.88268 AU	direct	-2329 Jan 05 j 22:52	30° $\text{R}$ $\text{C}$	
direct	-2335 Jan 27 j 07:44	1° $\text{C}$ 32'06		max. Earth dist.	-2329 Feb 24 j 06:17	28° $\text{C}$ 59'57	
conjunction	-2335 May 17 j 17:16	5° $\text{C}$ 49'58	0°-13'-6	conjunction	-2329 Jun 16 j 03:35	3° $\text{II}$ 26'49	0°08'58
minimum elong	-2335 May 17 j 17:16	5° $\text{C}$ 49'58	0°13'05	minimum elong	-2329 Jun 16 j 03:35	3° $\text{II}$ 26'49	0°09'02
behind sun begin	-2335 May 17 j 13:22	5° $\text{C}$ 49'24		behind sun begin	-2329 Jun 15 j 21:50	3° $\text{II}$ 25'57	
behind sun end	-2335 May 17 j 21:10	5° $\text{C}$ 50'33		behind sun end	-2329 Jun 16 j 09:19	3° $\text{II}$ 27'41	
max. Earth dist.	-2335 May 16 j 21:01	5° $\text{C}$ 46'56	19.84889 AU	retrograde	-2329 Oct 03 j 04:52	7° $\text{II}$ 49'01	
retrograde	-2335 Sep 04 j 18:04	10° $\text{C}$ 08'08		opposition	-2329 Dec 15 j 16:21	5° $\text{II}$ 46'32	0°11'59
opposition	-2335 Nov 18 j 01:35	8° $\text{C}$ 05'37	0°-12'-35	min. Earth dist.	-2329 Dec 16 j 15:50	5° $\text{II}$ 43'58	17.48452 AU
min. Earth dist.	-2335 Nov 18 j 18:47	8° $\text{C}$ 03'46	17.81568 AU	direct	-2328 Feb 29 j 03:15	3° $\text{II}$ 41'05	
direct	-2334 Feb 01 j 00:53	6° $\text{C}$ 01'55		max. Earth dist.	-2328 Jun 19 j 03:10	8° $\text{II}$ 04'51	19.46249 AU
conjunction	-2334 May 22 j 17:21	10° $\text{C}$ 21'24	0°-9'-34	conjunction	-2328 Jun 20 j 07:12	8° $\text{II}$ 09'11	0°12'39
minimum elong	-2334 May 22 j 17:21	10° $\text{C}$ 21'24	0°09'33	minimum elong	-2328 Jun 20 j 07:12	8° $\text{II}$ 09'11	0°12'42
behind sun begin	-2334 May 22 j 11:46	10° $\text{C}$ 20'35		behind sun begin	-2328 Jun 20 j 03:02	8° $\text{II}$ 08'34	
behind sun end	-2334 May 22 j 22:56	10° $\text{C}$ 22'13		behind sun end	-2328 Jun 20 j 11:21	8° $\text{II}$ 09'49	
max. Earth dist.	-2334 May 21 j 20:39	10° $\text{C}$ 18'17	19.78317 AU	retrograde	-2328 Oct 07 j 05:47	12° $\text{II}$ 31'52	
retrograde	-2334 Sep 09 j 14:47	14° $\text{C}$ 40'18		opposition	-2328 Dec 19 j 13:39	10° $\text{II}$ 29'25	0°16'04
opposition	-2334 Nov 22 j 17:57	12° $\text{C}$ 37'45	0°-8'-37	min. Earth dist.	-2328 Dec 20 j 12:57	10° $\text{II}$ 26'51	17.44180 AU
min. Earth dist.	-2334 Nov 23 j 11:38	12° $\text{C}$ 35'49	17.75143 AU	direct	-2327 Mar 05 j 04:33	8° $\text{II}$ 23'44	
direct	-2333 Feb 05 j 20:16	10° $\text{C}$ 33'40		max. Earth dist.	-2327 Jun 24 j 06:48	12° $\text{II}$ 48'31	19.42140 AU
conjunction	-2333 May 27 j 18:00	14° $\text{C}$ 54'42	0°-5'-59	conjunction	-2327 Jun 25 j 11:25	12° $\text{II}$ 52'57	0°16'16
minimum elong	-2333 May 27 j 18:00	14° $\text{C}$ 54'42	0°05'57	minimum elong	-2327 Jun 25 j 11:25	12° $\text{II}$ 52'57	0°16'19
behind sun begin	-2333 May 27 j 11:32	14° $\text{C}$ 53'45		retrograde	-2327 Oct 12 j 04:03	17° $\text{II}$ 16'01	
behind sun end	-2333 May 28 j 00:28	14° $\text{C}$ 55'39		opposition	-2327 Dec 24 j 11:43	15° $\text{II}$ 13'35	0°20'04
max. Earth dist.	-2333 May 26 j 18:57	14° $\text{C}$ 51'12	19.72051 AU	min. Earth dist.	-2327 Dec 25 j 12:44	15° $\text{II}$ 10'50	17.40261 AU
retrograde	-2333 May 29 j 04:55	15° $\text{C}$		direct	-2326 Mar 10 j 03:38	13° $\text{II}$ 07'39	
				max. Earth dist.	-2326 Jun 29 j 10:01	17° $\text{II}$ 33'14	19.38410 AU

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Attention, astronomical year style is used: The year -2326 in astronomical counting style is the year 2327 BCE in historical counting style.

conjunction	-2326 Jun 30 j 15:51	17°II37'53	0°19'47	minimum elong	-2318 Aug 08 j 23:44	25°☾55'53	0°41'27
minimum elong	-2326 Jun 30 j 15:51	17°II37'53	0°19'51	max. Earth dist.	-2318 Aug 07 j 22:50	25°☾51'57	19.27252 AU
retrograde	-2326 Oct 17 j 04:58	22°II01'15			-2318 Oct 29 j 07:54	0°♈	
opposition	-2326 Dec 29 j 10:25	19°II58'49	0°23'56	retrograde	-2318 Nov 24 j 06:36	0°♈19'03	
min. Earth dist.	-2326 Dec 30 j 11:03	19°II56'07	17.36727 AU		-2318 Dec 20 j 16:08	30°♈	
direct	-2325 Mar 15 j 07:09	17°II52'40		opposition	-2317 Feb 05 j 18:07	28°☾17'01	0°47'06
				min. Earth dist.	-2317 Feb 06 j 15:20	28°☾14'43	17.27953 AU
conjunction	-2325 Jul 05 j 20:24	22°II23'46	0°23'11	direct	-2317 Apr 23 j 11:32	26°☾10'24	
minimum elong	-2325 Jul 05 j 20:24	22°II23'46	0°23'14		-2317 Aug 02 j 15:06	0°♈	
max. Earth dist.	-2325 Jul 04 j 14:59	22°II19'10	19.35073 AU	max. Earth dist.	-2317 Aug 13 j 03:35	0°♈39'50	19.28723 AU
retrograde	-2325 Oct 22 j 03:26	26°II47'21					
opposition	-2324 Jan 03 j 09:52	24°II44'54	0°27'39	conjunction	-2317 Aug 14 j 02:13	0°♈43'25	0°42'59
min. Earth dist.	-2324 Jan 04 j 11:40	24°II42'05	17.33615 AU	minimum elong	-2317 Aug 14 j 02:13	0°♈43'25	0°43'02
direct	-2324 Mar 19 j 08:17	22°II38'33		retrograde	-2317 Nov 29 j 08:15	5°♈06'16	
max. Earth dist.	-2324 Jul 08 j 18:28	27°II05'36	19.32201 AU	opposition	-2316 Feb 10 j 20:37	3°♈04'24	0°48'42
				min. Earth dist.	-2316 Feb 11 j 16:06	3°♈02'18	17.29712 AU
conjunction	-2324 Jul 10 j 00:52	27°II10'22	0°26'26	direct	-2316 Apr 27 j 16:17	0°♈58'00	
minimum elong	-2324 Jul 10 j 00:52	27°II10'22	0°26'30	max. Earth dist.	-2316 Aug 17 j 06:41	5°♈27'12	19.30772 AU
	-2324 Aug 27 j 15:53	0°☾					
retrograde	-2324 Oct 26 j 04:22	1°☾34'06		conjunction	-2316 Aug 18 j 04:16	5°♈30'37	0°44'16
	-2324 Dec 27 j 12:13	30°♈		minimum elong	-2316 Aug 18 j 04:15	5°♈30'37	0°44'19
opposition	-2323 Jan 07 j 09:38	29°II31'38	0°31'11	retrograde	-2316 Dec 03 j 07:44	9°♈53'06	
min. Earth dist.	-2323 Jan 08 j 10:48	29°II28'53	17.30994 AU	opposition	-2315 Feb 14 j 23:11	7°♈51'24	0°49'57
direct	-2323 Mar 24 j 12:56	27°II25'06		min. Earth dist.	-2315 Feb 15 j 18:06	7°♈49'22	17.32042 AU
	-2323 Jun 13 j 00:57	0°☾		direct	-2315 May 02 j 19:36	5°♈45'12	
max. Earth dist.	-2323 Jul 14 j 00:16	1°☾52'55	19.29831 AU	max. Earth dist.	-2315 Aug 22 j 09:59	10°♈14'09	19.33361 AU
conjunction	-2323 Jul 15 j 05:25	1°☾57'30	0°29'30	conjunction	-2315 Aug 23 j 05:48	10°♈17'17	0°45'15
minimum elong	-2323 Jul 15 j 05:25	1°☾57'30	0°29'34	minimum elong	-2315 Aug 23 j 05:47	10°♈17'17	0°45'17
retrograde	-2323 Oct 31 j 03:39	6°☾21'17		retrograde	-2315 Dec 08 j 08:37	14°♈39'18	
opposition	-2322 Jan 12 j 10:07	4°☾18'50	0°34'30	opposition	-2314 Feb 20 j 01:54	12°♈37'47	0°50'51
min. Earth dist.	-2322 Jan 13 j 11:46	4°☾16'02	17.28893 AU	min. Earth dist.	-2314 Feb 20 j 18:41	12°♈35'59	17.34861 AU
direct	-2322 Mar 29 j 15:42	2°☾12'08		direct	-2314 May 08 j 01:24	10°♈31'50	
max. Earth dist.	-2322 Jul 19 j 03:52	6°☾40'17	19.28017 AU		-2314 Aug 27 j 10:20	15°♈	
conjunction	-2322 Jul 20 j 09:37	6°☾44'58	0°32'22	conjunction	-2314 Aug 28 j 06:37	15°♈03'12	0°45'54
minimum elong	-2322 Jul 20 j 09:37	6°☾44'58	0°32'26	minimum elong	-2314 Aug 28 j 06:37	15°♈03'12	0°45'57
retrograde	-2322 Nov 05 j 04:19	11°☾08'46		max. Earth dist.	-2314 Aug 27 j 12:26	15°♈00'20	19.36410 AU
opposition	-2321 Jan 17 j 10:54	9°☾06'19	0°37'35	retrograde	-2314 Dec 13 j 06:48	19°♈24'43	
min. Earth dist.	-2321 Jan 18 j 11:39	9°☾03'37	17.27386 AU	opposition	-2313 Feb 25 j 04:45	17°♈23'19	0°51'24
direct	-2321 Apr 03 j 20:20	6°☾59'30		min. Earth dist.	-2313 Feb 25 j 20:59	17°♈21'35	17.38137 AU
max. Earth dist.	-2321 Jul 24 j 09:59	11°☾28'17	19.26817 AU	direct	-2313 May 13 j 04:56	15°♈17'38	
conjunction	-2321 Jul 25 j 13:44	11°☾32'39	0°35'00	conjunction	-2313 Sep 02 j 06:44	19°♈48'08	0°46'14
minimum elong	-2321 Jul 25 j 13:44	11°☾32'39	0°35'04	minimum elong	-2313 Sep 02 j 06:44	19°♈48'08	0°46'16
retrograde	-2321 Nov 10 j 04:38	15°☾56'22		max. Earth dist.	-2313 Sep 01 j 14:01	19°♈45'30	19.39905 AU
opposition	-2320 Jan 22 j 12:19	13°☾53'58	0°40'24	retrograde	-2313 Dec 18 j 06:39	24°♈09'03	
min. Earth dist.	-2320 Jan 23 j 12:34	13°☾51'19	17.26509 AU	opposition	-2312 Mar 01 j 07:18	22°♈07'47	0°51'36
direct	-2320 Apr 08 j 00:04	11°☾47'07		min. Earth dist.	-2312 Mar 01 j 21:00	22°♈06'19	17.41825 AU
				direct	-2312 May 17 j 10:53	20°♈02'21	
conjunction	-2320 Jul 29 j 17:15	16°☾20'25	0°37'24	conjunction	-2312 Sep 06 j 06:02	24°♈31'52	0°46'16
minimum elong	-2320 Jul 29 j 17:15	16°☾20'25	0°37'27	minimum elong	-2312 Sep 06 j 06:02	24°♈31'52	0°46'17
max. Earth dist.	-2320 Jul 28 j 13:32	16°☾16'02	19.26279 AU	max. Earth dist.	-2312 Sep 05 j 15:32	24°♈29'35	19.43788 AU
retrograde	-2320 Nov 14 j 05:07	20°☾44'01		retrograde	-2312 Dec 22 j 03:39	28°♈52'06	
opposition	-2319 Jan 26 j 13:56	18°☾41'41	0°42'56	opposition	-2311 Mar 06 j 09:47	26°♈50'56	0°51'26
min. Earth dist.	-2319 Jan 27 j 13:09	18°☾39'10	17.26319 AU	min. Earth dist.	-2311 Mar 06 j 22:54	26°♈49'33	17.45895 AU
direct	-2319 Apr 13 j 03:59	16°☾34'50		direct	-2311 May 22 j 13:57	24°♈45'46	
conjunction	-2319 Aug 03 j 20:44	21°☾08'11	0°39'33	conjunction	-2311 Sep 11 j 04:27	29°♈14'09	0°45'58
minimum elong	-2319 Aug 03 j 20:44	21°☾08'11	0°39'36	minimum elong	-2311 Sep 11 j 04:27	29°♈14'09	0°46'00
max. Earth dist.	-2319 Aug 02 j 19:17	21°☾04'09	19.26430 AU	max. Earth dist.	-2311 Sep 10 j 15:09	29°♈12'04	19.48050 AU
retrograde	-2319 Nov 19 j 06:19	25°☾31'35			-2311 Sep 23 j 08:31	0°♈	
opposition	-2318 Jan 31 j 15:49	23°☾29'24	0°45'10	retrograde	-2311 Dec 27 j 02:16	3°♈33'40	
min. Earth dist.	-2318 Feb 01 j 13:53	23°☾27'00	17.26799 AU	opposition	-2310 Mar 11 j 11:44	1°♈32'36	0°50'55
direct	-2318 Apr 18 j 08:14	21°☾22'38		min. Earth dist.	-2310 Mar 11 j 22:05	1°♈31'30	17.50329 AU
conjunction	-2318 Aug 08 j 23:45	25°☾55'53	0°41'25		-2310 Apr 21 j 12:28	30°♈	

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Attention, astronomical year style is used: The year -2310 in astronomical counting style is the year 2311 BCE in historical counting style.

direct	-2310 May 27 j 18:34	29°♄27'40		min. Earth dist.	-2302 Apr 18 j 03:38	7°♅59'38	17.98800 AU
	-2310 Jul 02 j 01:26	0°♃		direct	-2302 Jul 04 j 16:16	5°♅57'00	
conjunction	-2310 Sep 16 j 02:03	3°♃54'49	0°45'22	conjunction	-2302 Oct 21 j 19:15	10°♅12'01	0°31'10
minimum elong	-2310 Sep 16 j 02:03	3°♃54'49	0°45'23	minimum elong	-2302 Oct 21 j 19:15	10°♅12'01	0°31'09
max. Earth dist.	-2310 Sep 15 j 15:35	3°♃53'11	19.52670 AU	max. Earth dist.	-2302 Oct 22 j 03:20	10°♅13'15	20.02388 AU
retrograde	-2310 Dec 31 j 22:24	8°♃13'33		retrograde	-2301 Feb 06 j 04:49	14°♅23'56	
opposition	-2309 Mar 16 j 13:35	6°♃12'33	0°50'04	opposition	-2301 Apr 23 j 07:26	12°♅23'54	0°33'07
min. Earth dist.	-2309 Mar 16 j 23:01	6°♃11'33	17.55131 AU	min. Earth dist.	-2301 Apr 22 j 22:52	12°♅24'47	18.05958 AU
direct	-2309 Jun 01 j 20:03	4°♃07'53		direct	-2301 Jul 09 j 12:56	10°♅22'27	
conjunction	-2309 Sep 20 j 22:22	8°♃33'40	0°44'28	conjunction	-2301 Oct 26 j 08:22	14°♅35'50	0°28'27
minimum elong	-2309 Sep 20 j 22:22	8°♃33'41	0°44'30	minimum elong	-2301 Oct 26 j 08:22	14°♅35'50	0°28'26
max. Earth dist.	-2309 Sep 20 j 13:13	8°♃32'14	19.57670 AU	max. Earth dist.	-2301 Oct 26 j 17:26	14°♅37'13	20.09564 AU
retrograde	-2308 Jan 05 j 20:15	12°♃51'36		retrograde	-2300 Feb 10 j 20:47	18°♅46'57	
opposition	-2308 Mar 20 j 14:46	10°♃50'38	0°48'54	opposition	-2300 Apr 27 j 03:54	16°♅47'03	0°30'00
min. Earth dist.	-2308 Mar 20 j 21:09	10°♃49'58	17.60315 AU	min. Earth dist.	-2300 Apr 26 j 17:39	16°♅48'05	18.13138 AU
direct	-2308 Jun 05 j 22:45	8°♃46'15		direct	-2300 Jul 13 j 08:02	14°♅46'02	
conjunction	-2308 Sep 24 j 17:58	13°♃10'37	0°43'17	conjunction	-2300 Oct 29 j 20:56	18°♅57'50	0°25'35
minimum elong	-2308 Sep 24 j 17:58	13°♃10'37	0°43'17	minimum elong	-2300 Oct 29 j 20:57	18°♅57'50	0°25'33
max. Earth dist.	-2308 Sep 24 j 12:07	13°♃09'42	19.63044 AU	max. Earth dist.	-2300 Oct 30 j 08:39	18°♅59'37	20.16714 AU
retrograde	-2307 Jan 09 j 15:05	17°♃27'40		retrograde	-2299 Feb 14 j 12:19	23°♅08'06	
opposition	-2307 Mar 25 j 15:24	15°♃26'47	0°47'25	opposition	-2299 May 01 j 23:28	21°♅08'21	0°26'44
min. Earth dist.	-2307 Mar 25 j 20:29	15°♃26'15	17.65880 AU	min. Earth dist.	-2299 May 01 j 11:20	21°♅09'35	18.20240 AU
direct	-2307 Jun 10 j 22:39	13°♃22'42		direct	-2299 Jul 18 j 03:28	19°♅07'47	
conjunction	-2307 Sep 29 j 12:26	17°♃45'35	0°41'50	conjunction	-2299 Nov 03 j 08:37	23°♅18'00	0°22'36
minimum elong	-2307 Sep 29 j 12:26	17°♃45'35	0°41'51	minimum elong	-2299 Nov 03 j 08:37	23°♅18'00	0°22'35
max. Earth dist.	-2307 Sep 29 j 07:55	17°♃44'53	19.68813 AU	max. Earth dist.	-2299 Nov 03 j 21:08	23°♅19'53	20.23762 AU
retrograde	-2306 Jan 14 j 11:59	22°♃01'46		retrograde	-2298 Feb 19 j 02:12	27°♅27'27	
opposition	-2306 Mar 30 j 15:32	20°♃00'58	0°45'39	opposition	-2298 May 06 j 18:33	25°♅27'48	0°23'21
min. Earth dist.	-2306 Mar 30 j 17:31	20°♃00'46	17.71844 AU	min. Earth dist.	-2298 May 06 j 05:12	25°♅29'09	18.27231 AU
direct	-2306 Jun 15 j 23:35	17°♃57'15		direct	-2298 Jul 22 j 20:30	23°♅27'38	
conjunction	-2306 Oct 04 j 06:01	22°♃18'36	0°40'09	conjunction	-2298 Nov 07 j 19:33	27°♅36'16	0°19'30
minimum elong	-2306 Oct 04 j 06:01	22°♃18'36	0°40'09	minimum elong	-2298 Nov 07 j 19:33	27°♅36'16	0°19'28
max. Earth dist.	-2306 Oct 04 j 05:04	22°♃18'27	19.74966 AU	max. Earth dist.	-2298 Nov 08 j 10:27	27°♅38'31	20.30672 AU
retrograde	-2305 Jan 19 j 06:01	26°♃33'55		retrograde	-2298 Dec 20 j 00:43	0°♃	
opposition	-2305 Apr 04 j 15:15	24°♃33'14	0°43'37	retrograde	-2297 Feb 23 j 16:35	1°♃44'54	
min. Earth dist.	-2305 Apr 04 j 15:28	24°♃33'13	17.78170 AU	retrograde	-2297 May 05 j 11:58	30°♃	
direct	-2305 Jun 20 j 22:24	22°♃29'56		opposition	-2297 May 11 j 12:45	29°♅45'20	0°19'51
conjunction	-2305 Oct 08 j 22:34	26°♃49'42	0°38'13	min. Earth dist.	-2297 May 10 j 21:23	29°♅46'54	18.34047 AU
minimum elong	-2305 Oct 08 j 22:35	26°♃49'42	0°38'13	direct	-2297 Jul 27 j 14:30	27°♅45'33	
max. Earth dist.	-2305 Oct 08 j 22:57	26°♃49'45	19.81471 AU	direct	-2297 Oct 10 j 21:01	0°♃	
retrograde	-2305 Dec 05 j 12:10	0°♅		conjunction	-2297 Nov 12 j 05:42	1°♃52'37	0°16'19
retrograde	-2304 Jan 24 j 01:27	1°♅04'10		minimum elong	-2297 Nov 12 j 05:42	1°♃52'37	0°16'18
retrograde	-2304 Mar 16 j 01:28	30°♃		max. Earth dist.	-2297 Nov 12 j 21:23	1°♃54'58	20.37398 AU
opposition	-2304 Apr 08 j 14:07	29°♃03'37	0°41'20	retrograde	-2296 Feb 28 j 04:38	6°♃00'27	
min. Earth dist.	-2304 Apr 08 j 11:34	29°♃03'53	17.84831 AU	opposition	-2296 May 15 j 06:02	4°♃00'56	0°16'16
direct	-2304 Jun 24 j 21:25	27°♃00'44		min. Earth dist.	-2296 May 14 j 13:52	4°♃02'34	18.40693 AU
retrograde	-2304 Sep 20 j 23:23	0°♅		direct	-2296 Jul 31 j 05:18	2°♃01'28	
conjunction	-2304 Oct 12 j 14:23	1°♅18'57	0°36'04	conjunction	-2296 Nov 15 j 15:08	6°♃07'02	0°13'05
minimum elong	-2304 Oct 12 j 14:23	1°♅18'57	0°36'04	minimum elong	-2296 Nov 15 j 15:08	6°♃07'02	0°13'02
max. Earth dist.	-2304 Oct 12 j 18:10	1°♅19'32	19.88265 AU	behind sun begin	-2296 Nov 15 j 11:06	6°♃06'26	
retrograde	-2303 Jan 27 j 18:35	5°♅32'34		behind sun end	-2296 Nov 15 j 19:11	6°♃07'37	
opposition	-2303 Apr 13 j 12:31	3°♅32'11	0°38'48	max. Earth dist.	-2296 Nov 16 j 08:58	6°♃09'42	20.43954 AU
min. Earth dist.	-2303 Apr 13 j 08:08	3°♅32'38	17.91726 AU	retrograde	-2295 Mar 03 j 17:28	10°♃14'04	
direct	-2303 Jun 29 j 19:11	1°♅29'47		opposition	-2295 May 19 j 22:29	8°♃14'35	0°12'38
conjunction	-2303 Oct 17 j 05:07	5°♅46'23	0°33'42	min. Earth dist.	-2295 May 19 j 04:08	8°♃16'27	18.47156 AU
minimum elong	-2303 Oct 17 j 05:07	5°♅46'23	0°33'41	direct	-2295 Aug 04 j 21:00	6°♃15'27	
max. Earth dist.	-2303 Oct 17 j 10:04	5°♅47'08	19.95259 AU	conjunction	-2295 Nov 19 j 23:35	10°♃19'30	0°09'48
retrograde	-2302 Feb 01 j 12:23	9°♅59'09		minimum elong	-2295 Nov 19 j 23:35	10°♃19'30	0°09'46
opposition	-2302 Apr 18 j 10:16	7°♅58'56	0°36'04	behind sun begin	-2295 Nov 19 j 18:11	10°♃18'43	

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Attention, astronomical year style is used: The year -2295 in astronomical counting style is the year 2296 BCE in historical counting style.

behind sun end	-2295 Nov 20 j 04:59	10°M.20'17		behind sun end	-2289 Dec 14 j 20:57	5°Z01'27	
max. Earth dist.	-2295 Nov 20 j 18:26	10°M.22'19	20.50333 AU	max. Earth dist.	-2289 Dec 15 j 18:09	5°Z04'34	20.85182 AU
retrograde	-2294 Mar 08 j 04:20	14°M.25'48		retrograde	-2288 Apr 01 j 18:55	9°Z03'30	
opposition	-2294 May 24 j 14:18	12°M.26'21	0°08'57	opposition	-2288 Jun 18 j 20:47	7°Z04'29	0°-12'-51
min. Earth dist.	-2294 May 23 j 19:11	12°M.28'16	18.53477 AU	min. Earth dist.	-2288 Jun 17 j 19:09	7°Z07'03	18.87694 AU
direct	-2294 Aug 09 j 10:03	10°M.27'30		direct	-2288 Sep 03 j 01:51	5°Z07'32	
conjunction	-2294 Nov 24 j 07:36	14°M.30'09	0°06'30	conjunction	-2288 Dec 17 j 21:09	9°Z03'17	0°-13'-12
minimum elong	-2294 Nov 24 j 07:36	14°M.30'09	0°06'27	minimum elong	-2288 Dec 17 j 21:09	9°Z03'17	0°13'16
behind sun begin	-2294 Nov 24 j 01:27	14°M.29'15		behind sun begin	-2288 Dec 17 j 17:15	9°Z02'44	
behind sun end	-2294 Nov 24 j 13:45	14°M.31'02		behind sun end	-2288 Dec 18 j 01:03	9°Z03'50	
max. Earth dist.	-2294 Nov 25 j 04:33	14°M.33'15	20.56584 AU	max. Earth dist.	-2288 Dec 19 j 00:35	9°Z07'17	20.90061 AU
retrograde	-2294 Dec 02 j 16:42	15°M.		retrograde	-2287 Apr 06 j 05:40	13°Z05'40	
retrograde	-2293 Mar 12 j 16:12	18°M.35'43		min. Earth dist.	-2287 Jun 22 j 04:35	11°Z09'26	18.92368 AU
min. Earth dist.	-2293 May 28 j 07:37	16°M.38'28	18.59660 AU	opposition	-2287 Jun 23 j 07:38	11°Z06'44	0°-16'-19
opposition	-2293 May 29 j 05:05	16°M.36'18	0°05'16	direct	-2287 Sep 07 j 11:45	9°Z10'03	
direct	-2293 Jul 14 j 17:07	15°R.M.		conjunction	-2287 Dec 22 j 02:15	13°Z04'56	0°-16'-17
direct	-2293 Aug 13 j 23:25	14°M.37'46		minimum elong	-2287 Dec 22 j 02:14	13°Z04'56	0°16'22
direct	-2293 Sep 12 j 11:27	15°M.		max. Earth dist.	-2287 Dec 23 j 05:50	13°Z08'56	20.94506 AU
conjunction	-2293 Nov 28 j 14:52	18°M.39'04	0°03'10	retrograde	-2286 Apr 10 j 13:50	17°Z06'58	
minimum elong	-2293 Nov 28 j 14:52	18°M.39'04	0°03'08	opposition	-2286 Jun 27 j 18:12	15°Z08'05	0°-19'-41
behind sun begin	-2293 Nov 28 j 08:22	18°M.38'08		min. Earth dist.	-2286 Jun 26 j 16:00	15°Z10'42	18.96590 AU
behind sun end	-2293 Nov 28 j 21:23	18°M.40'00		direct	-2286 Sep 11 j 18:19	13°Z11'38	
max. Earth dist.	-2293 Nov 29 j 12:47	18°M.42'18	20.62690 AU	conjunction	-2286 Dec 26 j 07:27	17°Z05'44	0°-19'-17
retrograde	-2292 Mar 16 j 02:20	22°M.43'59		minimum elong	-2286 Dec 26 j 07:26	17°Z05'44	0°19'21
opposition	-2292 Jun 01 j 19:15	20°M.44'37	0°01'35	max. Earth dist.	-2286 Dec 27 j 11:28	17°Z09'47	20.98481 AU
min. Earth dist.	-2292 May 31 j 21:17	20°M.46'49	18.65704 AU	retrograde	-2285 Apr 14 j 23:32	21°Z07'26	
direct	-2292 Aug 17 j 10:24	18°M.46'24		min. Earth dist.	-2285 Jul 01 j 00:42	19°Z11'18	19.00305 AU
desc. node	-2292 Nov 07 j 13:26	21°M.21'59		opposition	-2285 Jul 02 j 03:54	19°Z08'35	0°-22'-57
conjunction	-2292 Dec 01 j 21:41	22°M.46'26	0°00'-13	direct	-2285 Sep 16 j 03:25	17°Z12'19	
minimum elong	-2292 Dec 01 j 21:43	22°M.46'26	0°00'16	conjunction	-2285 Dec 30 j 12:24	21°Z05'42	0°-22'-11
behind sun begin	-2292 Dec 01 j 15:14	22°M.45'30		minimum elong	-2285 Dec 30 j 12:24	21°Z05'42	0°22'15
behind sun end	-2292 Dec 02 j 04:11	22°M.47'21		max. Earth dist.	-2285 Dec 31 j 16:06	21°Z09'42	21.01916 AU
max. Earth dist.	-2292 Dec 02 j 21:24	22°M.49'55	20.68651 AU	retrograde	-2284 Apr 18 j 07:25	25°Z07'08	
retrograde	-2291 Mar 20 j 13:41	26°M.50'44		min. Earth dist.	-2284 Jul 04 j 11:20	23°Z10'52	19.03473 AU
min. Earth dist.	-2291 Jun 05 j 08:20	24°M.53'52	18.71571 AU	opposition	-2284 Jul 05 j 13:21	23°Z08'16	0°-26'-5
opposition	-2291 Jun 06 j 08:29	24°M.51'27	0°-2'-5	direct	-2284 Sep 19 j 09:13	21°Z12'08	
direct	-2291 Aug 21 j 22:17	22°M.53'34		conjunction	-2283 Jan 02 j 17:12	25°Z04'53	0°-24'-58
conjunction	-2291 Dec 06 j 04:03	26°M.52'24	0°-3'-35	minimum elong	-2283 Jan 02 j 17:12	25°Z04'53	0°25'03
minimum elong	-2291 Dec 06 j 04:02	26°M.52'24	0°03'39	max. Earth dist.	-2283 Jan 03 j 21:00	25°Z08'53	21.04814 AU
behind sun begin	-2291 Dec 05 j 21:34	26°M.51'28		retrograde	-2283 Apr 22 j 16:12	29°Z06'04	
behind sun end	-2291 Dec 06 j 10:31	26°M.53'19		opposition	-2283 Jul 09 j 22:05	27°Z07'09	0°-29'-5
max. Earth dist.	-2291 Dec 07 j 04:33	26°M.56'00	20.74414 AU	min. Earth dist.	-2283 Jul 08 j 19:14	27°Z09'50	19.06097 AU
retrograde	-2290 Feb 04 j 20:19	0°Z		direct	-2283 Sep 23 j 17:09	25°Z11'06	
retrograde	-2290 Mar 24 j 23:05	0°Z56'09		conjunction	-2282 Jan 06 j 21:51	29°Z03'17	0°-27'-37
retrograde	-2290 May 14 j 05:14	30°R.M.		minimum elong	-2282 Jan 06 j 21:51	29°Z03'17	0°27'41
opposition	-2290 Jun 10 j 21:20	28°M.56'57	0°-5'-43	max. Earth dist.	-2282 Jan 08 j 01:19	29°Z07'14	21.07174 AU
min. Earth dist.	-2290 Jun 09 j 21:04	28°M.59'23	18.77234 AU	retrograde	-2282 Jan 23 j 12:18	0°Z	
direct	-2290 Aug 26 j 07:27	26°M.59'24		retrograde	-2282 Apr 26 j 23:26	3°Z04'17	
direct	-2290 Nov 24 j 00:34	0°Z		min. Earth dist.	-2282 Jul 13 j 04:54	1°Z07'52	19.08215 AU
conjunction	-2290 Dec 10 j 09:59	0°Z57'07	0°-6'-50	opposition	-2282 Jul 14 j 06:30	1°Z05'18	0°-31'-56
minimum elong	-2290 Dec 10 j 09:59	0°Z57'07	0°06'54	retrograde	-2282 Aug 12 j 05:15	30°R.Z	
behind sun begin	-2290 Dec 10 j 03:53	0°Z56'15		direct	-2282 Sep 27 j 22:31	29°Z09'18	
behind sun end	-2290 Dec 10 j 16:04	0°Z57'59		direct	-2282 Nov 11 j 23:47	0°Z	
max. Earth dist.	-2290 Dec 11 j 11:59	1°Z00'55	20.79953 AU	conjunction	-2281 Jan 11 j 02:27	3°Z01'01	0°-30'-7
retrograde	-2289 Mar 29 j 10:28	5°Z00'21		minimum elong	-2281 Jan 11 j 02:27	3°Z01'01	0°30'12
min. Earth dist.	-2289 Jun 14 j 07:14	3°Z03'52	18.82627 AU	max. Earth dist.	-2281 Jan 12 j 06:02	3°Z04'58	21.09059 AU
opposition	-2289 Jun 15 j 09:21	3°Z01'15	0°-9'-19	retrograde	-2281 May 01 j 08:07	7°Z01'52	
direct	-2289 Aug 30 j 18:13	1°Z04'01		min. Earth dist.	-2281 Jul 17 j 11:52	5°Z05'26	19.09868 AU
conjunction	-2289 Dec 14 j 15:40	5°Z00'42	0°-10'-3	opposition	-2281 Jul 18 j 14:15	5°Z02'48	0°-34'-37
minimum elong	-2289 Dec 14 j 15:40	5°Z00'42	0°10'07	direct	-2281 Oct 02 j 04:55	3°Z06'49	
behind sun begin	-2289 Dec 14 j 10:22	4°Z59'57					

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Attention, astronomical year style is used: The year -2280 in astronomical counting style is the year 2281 BCE in historical counting style.

conjunction	-2280 Jan 15 j 07:02	6°☾58'10	0°-32'-28	conjunction	-2272 Feb 16 j 03:33	8°≈35'49	0°-45'00
minimum elong	-2280 Jan 15 j 07:02	6°☾58'10	0°32'32	minimum elong	-2272 Feb 16 j 03:33	8°≈35'49	0°45'03
max. Earth dist.	-2280 Jan 16 j 10:13	7°☾02'03	21.10482 AU	max. Earth dist.	-2272 Feb 17 j 00:41	8°≈38'49	21.06796 AU
retrograde	-2280 May 04 j 14:29	10°☾58'56		retrograde	-2272 Jun 06 j 06:45	12°≈38'18	
opposition	-2280 Jul 21 j 21:35	8°☾59'49	0°-37'-7	min. Earth dist.	-2272 Aug 22 j 06:56	10°≈40'37	19.05557 AU
min. Earth dist.	-2280 Jul 20 j 20:32	9°☾02'19	19.11089 AU	opposition	-2272 Aug 23 j 00:53	10°≈38'48	0°-50'-7
direct	-2280 Oct 05 j 09:48	7°☾03'51		direct	-2272 Nov 05 j 21:24	8°≈42'31	
conjunction	-2279 Jan 18 j 11:41	10°☾54'56	0°-34'-40	conjunction	-2271 Feb 19 j 11:09	12°≈35'10	0°-45'-39
minimum elong	-2279 Jan 18 j 11:41	10°☾54'56	0°34'44	minimum elong	-2271 Feb 19 j 11:09	12°≈35'10	0°45'43
max. Earth dist.	-2279 Jan 19 j 14:52	10°☾58'49	21.11507 AU	max. Earth dist.	-2271 Feb 20 j 06:41	12°≈37'57	21.04104 AU
retrograde	-2279 May 08 j 23:33	14°☾55'42			-2271 Apr 05 j 20:06	15°≈	
min. Earth dist.	-2279 Jul 25 j 02:46	12°☾59'05	19.11915 AU	retrograde	-2271 Jun 10 j 16:35	16°≈38'05	
opposition	-2279 Jul 26 j 04:33	12°☾56'30	0°-39'-27		-2271 Aug 18 j 10:03	15°≈	
direct	-2279 Oct 09 j 15:14	11°☾00'33		opposition	-2271 Aug 27 j 07:08	14°≈38'28	0°-50'-44
conjunction	-2278 Jan 22 j 16:17	14°☾51'29	0°-36'-42	min. Earth dist.	-2271 Aug 26 j 13:50	14°≈40'13	19.02573 AU
minimum elong	-2278 Jan 22 j 16:17	14°☾51'29	0°36'46	direct	-2271 Nov 10 j 03:11	12°≈41'58	
max. Earth dist.	-2278 Jan 23 j 19:02	14°☾55'18	21.12128 AU		-2270 Jan 26 j 04:27	15°≈	
retrograde	-2278 May 13 j 05:42	18°☾52'19		conjunction	-2270 Feb 23 j 19:11	16°≈35'12	0°-46'-6
min. Earth dist.	-2278 Jul 29 j 11:04	16°☾55'31	19.12344 AU	minimum elong	-2270 Feb 23 j 19:11	16°≈35'12	0°46'09
opposition	-2278 Jul 30 j 11:25	16°☾53'04	0°-41'-36	max. Earth dist.	-2270 Feb 24 j 12:55	16°≈37'44	21.00836 AU
direct	-2278 Oct 13 j 19:14	14°☾57'07		retrograde	-2270 Jun 15 j 00:45	20°≈38'35	
conjunction	-2277 Jan 26 j 21:18	18°☾48'00	0°-38'-33	opposition	-2270 Aug 31 j 13:34	18°≈38'48	0°-51'-6
minimum elong	-2277 Jan 26 j 21:18	18°☾48'00	0°38'36	min. Earth dist.	-2270 Aug 30 j 22:44	18°≈40'18	18.99029 AU
max. Earth dist.	-2277 Jan 27 j 23:47	18°☾51'46	21.12366 AU	direct	-2270 Nov 14 j 07:26	16°≈42'04	
retrograde	-2277 May 17 j 15:06	22°☾48'57		conjunction	-2269 Feb 28 j 03:53	20°≈35'56	0°-46'-19
opposition	-2277 Aug 03 j 17:43	20°☾49'40	0°-43'-33	minimum elong	-2269 Feb 28 j 03:53	20°≈35'56	0°46'22
min. Earth dist.	-2277 Aug 02 j 17:01	20°☾52'09	19.12375 AU	max. Earth dist.	-2269 Feb 28 j 19:50	20°≈38'13	20.97050 AU
direct	-2277 Oct 18 j 00:31	18°☾53'43		retrograde	-2269 Jun 19 j 10:51	24°≈39'48	
conjunction	-2276 Jan 31 j 02:31	22°☾44'40	0°-40'-14	opposition	-2269 Sep 04 j 19:46	22°≈39'50	0°-51'-13
minimum elong	-2276 Jan 31 j 02:31	22°☾44'40	0°40'18	min. Earth dist.	-2269 Sep 04 j 05:45	22°≈41'16	18.94993 AU
max. Earth dist.	-2276 Feb 01 j 04:11	22°☾48'19	21.12184 AU	direct	-2269 Nov 18 j 13:39	20°≈42'48	
retrograde	-2276 May 20 j 21:15	26°☾45'49		conjunction	-2268 Mar 03 j 13:03	24°≈37'25	0°-46'-18
min. Earth dist.	-2276 Aug 06 j 01:11	24°☾48'49	19.11982 AU	minimum elong	-2268 Mar 03 j 13:03	24°≈37'25	0°46'20
opposition	-2276 Aug 07 j 00:08	24°☾46'31	0°-45'-18	max. Earth dist.	-2268 Mar 04 j 03:20	24°≈39'27	20.92787 AU
direct	-2276 Oct 21 j 03:32	22°☾50'33		retrograde	-2268 Jun 22 j 19:25	28°≈41'48	
conjunction	-2275 Feb 03 j 07:58	26°☾41'39	0°-41'-43	opposition	-2268 Sep 08 j 02:19	26°≈41'38	0°-51'-5
minimum elong	-2275 Feb 03 j 07:58	26°☾41'39	0°41'47	min. Earth dist.	-2268 Sep 07 j 14:39	26°≈42'50	18.90523 AU
max. Earth dist.	-2275 Feb 04 j 09:04	26°☾45'13	21.11580 AU	direct	-2268 Nov 21 j 18:14	24°≈44'18	
	-2275 Apr 12 j 10:39	0°≈		conjunction	-2267 Mar 07 j 22:38	28°≈39'44	0°-46'-3
retrograde	-2275 May 25 j 06:51	0°≈43'04		minimum elong	-2267 Mar 07 j 22:38	28°≈39'44	0°46'06
	-2275 Jul 07 j 22:41	30°≈		max. Earth dist.	-2267 Mar 08 j 11:16	28°≈41'32	20.88141 AU
min. Earth dist.	-2275 Aug 10 j 07:21	28°☾46'03	19.11145 AU		-2267 Mar 31 j 18:13	0°≈	
opposition	-2275 Aug 11 j 06:20	28°☾43'44	0°-46'-50	retrograde	-2267 Jun 27 j 06:28	2°≈44'43	
direct	-2275 Oct 25 j 09:07	26°☾47'45		opposition	-2267 Sep 12 j 08:56	0°≈44'20	0°-50'-41
	-2274 Jan 27 j 01:58	0°≈		min. Earth dist.	-2267 Sep 11 j 22:00	0°≈45'28	18.85699 AU
conjunction	-2274 Feb 07 j 13:56	0°≈39'06	0°-43'-1	direct	-2267 Sep 30 j 17:58	30°≈	
minimum elong	-2274 Feb 07 j 13:56	0°≈39'06	0°43'05		-2267 Nov 26 j 00:57	28°≈46'40	
max. Earth dist.	-2274 Feb 08 j 13:54	0°≈42'31	21.10502 AU		-2266 Jan 19 j 08:40	0°≈	
retrograde	-2274 May 29 j 13:29	4°≈40'50		conjunction	-2266 Mar 12 j 09:03	2°≈43'01	0°-45'-34
opposition	-2274 Aug 15 j 12:32	2°≈41'28	0°-48'-10	minimum elong	-2266 Mar 12 j 09:03	2°≈43'01	0°45'36
min. Earth dist.	-2274 Aug 14 j 15:43	2°≈43'34	19.09823 AU	max. Earth dist.	-2266 Mar 12 j 20:09	2°≈44'36	20.83151 AU
direct	-2274 Oct 29 j 12:08	0°≈45'26		retrograde	-2266 Jul 01 j 15:49	6°≈48'38	
conjunction	-2273 Feb 11 j 20:32	4°≈37'08	0°-44'-7	opposition	-2266 Sep 16 j 15:47	4°≈48'05	0°-50'-3
minimum elong	-2273 Feb 11 j 20:32	4°≈37'08	0°44'10	min. Earth dist.	-2266 Sep 16 j 07:08	4°≈48'59	18.80563 AU
max. Earth dist.	-2273 Feb 12 j 19:19	4°≈40'23	21.08931 AU	direct	-2266 Nov 30 j 06:13	2°≈50'06	
retrograde	-2273 Jun 02 j 23:21	8°≈39'13		conjunction	-2265 Mar 16 j 20:12	6°≈47'27	0°-44'-52
opposition	-2273 Aug 19 j 18:40	6°≈39'48	0°-49'-15	minimum elong	-2265 Mar 16 j 20:12	6°≈47'27	0°44'54
min. Earth dist.	-2273 Aug 18 j 22:17	6°≈41'52	19.07976 AU	max. Earth dist.	-2265 Mar 17 j 05:21	6°≈48'45	20.77893 AU
direct	-2273 Nov 02 j 17:45	4°≈43'40		retrograde	-2265 Jul 06 j 03:53	10°≈53'45	
				opposition	-2265 Sep 20 j 22:53	8°≈53'02	0°-49'-9

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Attention, astronomical year style is used: The year -2265 in astronomical counting style is the year 2266 BCE in historical counting style.

min. Earth dist.	-2265 Sep 20 j 15:05	8°♃53'50	18.75174 AU	min. Earth dist.	-2257 Oct 24 j 08:34	12°♃32'36	18.24371 AU
direct	-2265 Dec 04 j 13:24	6°♃54'43		direct	-2256 Jan 06 j 14:46	10°♃32'20	
conjunction	-2264 Mar 20 j 07:57	10°♃53'10	0°-43'-56	conjunction	-2256 Apr 24 j 14:56	14°♃42'07	0°-28'-24
minimum elong	-2264 Mar 20 j 07:57	10°♃53'10	0°43'58	minimum elong	-2256 Apr 24 j 14:56	14°♃42'07	0°28'23
max. Earth dist.	-2264 Mar 20 j 15:39	10°♃54'16	20.72378 AU	max. Earth dist.	-2256 Apr 24 j 05:19	14°♃40'42	20.20766 AU
retrograde	-2264 Jul 09 j 14:28	15°♃00'13		retrograde	-2256 Aug 13 j 11:13	18°♃56'05	
opposition	-2264 Sep 24 j 06:27	12°♃59'22	0°-48'00	opposition	-2256 Oct 27 j 13:29	16°♃54'18	0°-29'-56
min. Earth dist.	-2264 Sep 24 j 00:49	12°♃59'57	18.69551 AU	min. Earth dist.	-2256 Oct 27 j 22:37	16°♃53'19	18.17111 AU
direct	-2264 Dec 07 j 19:39	11°♃00'44		direct	-2255 Jan 10 j 02:49	14°♃52'49	
conjunction	-2263 Mar 24 j 20:33	15°♃00'23	0°-42'-46	conjunction	-2255 Apr 29 j 10:48	19°♃04'10	0°-25'-32
minimum elong	-2263 Mar 24 j 20:33	15°♃00'23	0°42'48	minimum elong	-2255 Apr 29 j 10:48	19°♃04'10	0°25'33
max. Earth dist.	-2263 Mar 25 j 02:07	15°♃01'11	20.66671 AU	max. Earth dist.	-2255 Apr 28 j 21:57	19°♃02'16	20.13480 AU
retrograde	-2263 Jul 14 j 03:34	19°♃08'13		retrograde	-2255 Aug 18 j 04:38	23°♃19'00	
opposition	-2263 Sep 28 j 14:18	17°♃07'14	0°-46'-36	opposition	-2255 Nov 01 j 02:02	21°♃17'01	0°-26'-40
min. Earth dist.	-2263 Sep 28 j 09:39	17°♃07'43	18.63744 AU	min. Earth dist.	-2255 Nov 01 j 12:59	21°♃15'51	18.09811 AU
direct	-2263 Dec 12 j 03:28	15°♃08'19		direct	-2254 Jan 14 j 17:51	19°♃15'04	
conjunction	-2262 Mar 29 j 10:04	19°♃09'14	0°-41'-22	conjunction	-2254 May 04 j 07:43	23°♃28'02	0°-22'-30
minimum elong	-2262 Mar 29 j 10:04	19°♃09'14	0°41'25	minimum elong	-2254 May 04 j 07:43	23°♃28'01	0°22'30
max. Earth dist.	-2262 Mar 29 j 14:09	19°♃09'49	20.60762 AU	max. Earth dist.	-2254 May 03 j 17:52	23°♃25'58	20.06173 AU
retrograde	-2262 Jul 18 j 15:54	23°♃17'54		retrograde	-2254 Aug 22 j 21:03	27°♃43'41	
opposition	-2262 Oct 02 j 22:46	21°♃16'50	0°-44'-56	opposition	-2254 Nov 05 j 15:23	25°♃41'32	0°-23'-14
min. Earth dist.	-2262 Oct 02 j 20:24	21°♃17'05	18.57730 AU	min. Earth dist.	-2254 Nov 06 j 03:55	25°♃40'11	18.02521 AU
direct	-2262 Dec 16 j 10:52	19°♃17'37		direct	-2253 Jan 19 j 08:19	23°♃39'07	
conjunction	-2261 Apr 03 j 00:31	23°♃19'54	0°-39'-45	conjunction	-2253 May 09 j 05:11	27°♃53'40	0°-19'-20
minimum elong	-2261 Apr 03 j 00:31	23°♃19'54	0°39'46	minimum elong	-2253 May 09 j 05:11	27°♃53'40	0°19'19
max. Earth dist.	-2261 Apr 03 j 02:01	23°♃20'07	20.54661 AU	max. Earth dist.	-2253 May 08 j 12:17	27°♃51'09	19.98927 AU
retrograde	-2261 Jul 23 j 06:22	27°♃29'26		retrograde	-2253 Jun 14 j 22:02	0°♂	
opposition	-2261 Oct 07 j 07:34	25°♃28'17	0°-43'-2	retrograde	-2253 Aug 27 j 14:56	2°♂10'10	
min. Earth dist.	-2261 Oct 07 j 06:33	25°♃28'24	18.51521 AU	opposition	-2253 Nov 10 j 05:22	0°♂07'51	0°-19'-38
direct	-2261 Dec 20 j 19:55	23°♃28'46		min. Earth dist.	-2253 Nov 10 j 19:37	0°♂06'19	17.95345 AU
conjunction	-2260 Apr 06 j 15:57	27°♃32'28	0°-37'-55	direct	-2252 Jan 24 j 00:44	28°♃04'58	
minimum elong	-2260 Apr 06 j 15:57	27°♃32'28	0°37'56	direct	-2252 Apr 01 j 18:15	0°♂	
max. Earth dist.	-2260 Apr 06 j 15:49	27°♃32'27	20.48335 AU	max. Earth dist.	-2252 May 12 j 10:10	2°♂18'32	19.91823 AU
retrograde	-2260 May 21 j 16:19	0°♃		conjunction	-2252 May 13 j 03:36	2°♂21'08	0°-16'-1
retrograde	-2260 Jul 26 j 20:08	1°♃42'54		minimum elong	-2252 May 13 j 03:36	2°♂21'08	0°16'01
retrograde	-2260 Oct 03 j 10:40	30°♃		retrograde	-2252 Aug 31 j 09:07	6°♂38'26	
opposition	-2260 Oct 10 j 17:08	29°♃41'41	0°-40'-53	opposition	-2252 Nov 13 j 20:07	4°♂35'59	0°-15'-53
min. Earth dist.	-2260 Oct 10 j 18:29	29°♃41'32	18.45081 AU	min. Earth dist.	-2252 Nov 14 j 11:25	4°♂34'20	17.88341 AU
direct	-2260 Dec 24 j 04:33	27°♃41'50		direct	-2251 Jan 27 j 17:29	2°♂32'41	
direct	-2259 Mar 10 j 19:43	0°♃		max. Earth dist.	-2251 May 17 j 06:23	6°♂47'24	19.84936 AU
conjunction	-2259 Apr 11 j 08:09	1°♃47'00	0°-35'-51	conjunction	-2251 May 18 j 02:35	6°♂50'26	0°-12'-36
minimum elong	-2259 Apr 11 j 08:09	1°♃47'00	0°35'51	minimum elong	-2251 May 18 j 02:34	6°♂50'26	0°12'34
max. Earth dist.	-2259 Apr 11 j 05:00	1°♃46'33	20.41787 AU	behind sun begin	-2251 May 17 j 22:21	6°♂49'49	
retrograde	-2259 Jul 31 j 12:03	5°♃58'21		behind sun end	-2251 May 18 j 06:48	6°♂51'03	
opposition	-2259 Oct 15 j 03:18	3°♃57'01	0°-38'-29	retrograde	-2251 Sep 05 j 03:59	11°♂08'34	
min. Earth dist.	-2259 Oct 15 j 06:17	3°♃56'42	18.38408 AU	opposition	-2251 Nov 18 j 11:42	9°♂06'00	0°-12'-2
direct	-2259 Dec 28 j 15:27	1°♃56'48		min. Earth dist.	-2251 Nov 19 j 04:41	9°♂04'09	17.81592 AU
conjunction	-2258 Apr 16 j 01:38	6°♃03'29	0°-33'-34	direct	-2250 Feb 01 j 11:01	7°♂02'16	
minimum elong	-2258 Apr 16 j 01:38	6°♃03'29	0°33'34	max. Earth dist.	-2250 May 22 j 06:06	11°♂18'33	19.78321 AU
max. Earth dist.	-2258 Apr 15 j 20:44	6°♃02'47	20.34984 AU	conjunction	-2250 May 23 j 02:39	11°♂21'39	0°-9'-5
retrograde	-2258 Aug 05 j 02:58	10°♃15'43		minimum elong	-2250 May 23 j 02:38	11°♂21'39	0°09'04
opposition	-2258 Oct 19 j 14:01	8°♃14'15	0°-35'-51	behind sun begin	-2250 May 22 j 20:54	11°♂20'48	
min. Earth dist.	-2258 Oct 19 j 19:23	8°♃13'41	18.31485 AU	behind sun end	-2250 May 23 j 08:22	11°♂22'29	
direct	-2257 Jan 02 j 01:40	6°♃13'39		retrograde	-2250 Aug 01 j 21:32	15°♂	
conjunction	-2257 Apr 20 j 19:52	10°♃21'53	0°-31'-5	retrograde	-2250 Sep 10 j 00:22	15°♂40'32	
minimum elong	-2257 Apr 20 j 19:52	10°♃21'53	0°31'05	retrograde	-2250 Oct 19 j 16:15	15°♃	
max. Earth dist.	-2257 Apr 20 j 11:36	10°♃20'40	20.27964 AU	opposition	-2250 Nov 23 j 03:58	13°♂37'55	0°-8'-4
retrograde	-2257 Aug 09 j 19:43	14°♃35'00		min. Earth dist.	-2250 Nov 23 j 21:38	13°♂36'00	17.75127 AU
opposition	-2257 Oct 24 j 01:26	12°♃33'22	0°-33'00	direct	-2249 Feb 06 j 05:49	11°♂33'50	

Attention, astronomical year style is used: The year -2249 in astronomical counting style is the year 2250 BCE in historical counting style.

	-2249 May 13 j 00:13	15°♄		retrograde	-2243 Oct 12 j 14:34	18°♁16'28	
max. Earth dist.	-2249 May 27 j 04:19	15°♄51'19	19.72019 AU	opposition	-2243 Dec 24 j 22:05	16°♁13'55	0°20'30
				min. Earth dist.	-2243 Dec 25 j 23:25	16°♁11'09	17.39103 AU
conjunction	-2249 May 28 j 03:18	15°♄54'48	0°-5'-30	direct	-2242 Mar 10 j 14:25	14°♁07'54	
minimum elong	-2249 May 28 j 03:17	15°♄54'48	0°05'28	max. Earth dist.	-2242 Jun 29 j 19:39	18°♁33'36	19.37157 AU
behind sun begin	-2249 May 27 j 20:45	15°♄53'50					
behind sun end	-2249 May 28 j 09:50	15°♄55'46		conjunction	-2242 Jul 01 j 01:37	18°♁38'16	0°20'10
retrograde	-2249 Sep 14 j 20:33	20°♄14'28		minimum elong	-2242 Jul 01 j 01:37	18°♁38'16	0°20'13
opposition	-2249 Nov 27 j 21:15	18°♄11'50	0°-4'-1	retrograde	-2242 Oct 17 j 15:11	23°♁01'50	
min. Earth dist.	-2249 Nov 28 j 16:38	18°♄09'43	17.69003 AU	opposition	-2242 Dec 29 j 20:46	20°♁59'17	0°24'21
direct	-2248 Feb 11 j 00:28	16°♄07'25		min. Earth dist.	-2242 Dec 30 j 21:34	20°♁56'34	17.35389 AU
max. Earth dist.	-2248 May 31 j 05:27	20°♄26'25	19.66061 AU	direct	-2241 Mar 15 j 16:47	18°♁53'02	
				max. Earth dist.	-2241 Jul 05 j 00:39	23°♁19'40	19.33670 AU
conjunction	-2248 Jun 01 j 04:39	20°♄29'57	0°-1'-49				
minimum elong	-2248 Jun 01 j 04:38	20°♄29'56	0°01'47	conjunction	-2241 Jul 06 j 06:18	23°♁24'18	0°23'33
behind sun begin	-2248 May 31 j 21:51	20°♄28'56		minimum elong	-2241 Jul 06 j 06:17	23°♁24'18	0°23'36
behind sun end	-2248 Jun 01 j 11:26	20°♄30'57		retrograde	-2241 Oct 22 j 14:36	27°♁48'07	
retrograde	-2248 Sep 18 j 19:01	24°♄50'21		opposition	-2240 Jan 03 j 20:17	25°♁45'34	0°28'02
asc. node	-2248 Nov 25 j 00:20	23°♄05'01		min. Earth dist.	-2240 Jan 04 j 22:10	25°♁42'43	17.32159 AU
opposition	-2248 Dec 01 j 15:16	22°♄47'43	0°00'04	direct	-2240 Mar 19 j 18:24	23°♁39'07	
min. Earth dist.	-2248 Dec 02 j 11:02	22°♄45'34	17.63208 AU	max. Earth dist.	-2240 Jul 09 j 04:24	28°♁06'22	19.30708 AU
direct	-2247 Feb 14 j 21:13	20°♄43'02					
max. Earth dist.	-2247 Jun 05 j 05:30	25°♄03'13	19.60427 AU	conjunction	-2240 Jul 10 j 10:42	28°♁11'07	0°26'45
				minimum elong	-2240 Jul 10 j 10:41	28°♁11'07	0°26'48
conjunction	-2247 Jun 06 j 06:48	25°♄07'05	0°02'00				
minimum elong	-2247 Jun 06 j 06:48	25°♄07'05	0°02'02	retrograde	-2240 Aug 09 j 03:20	0°♄	
behind sun begin	-2247 Jun 06 j 00:00	25°♄06'04		opposition	-2239 Jan 07 j 20:09	0°♄32'33	0°31'31
behind sun end	-2247 Jun 06 j 13:35	25°♄08'06		min. Earth dist.	-2239 Jan 08 j 21:08	0°♄29'48	17.29475 AU
retrograde	-2247 Sep 23 j 16:26	29°♄28'11					
opposition	-2247 Dec 06 j 10:08	27°♄25'35	0°04'13	direct	-2239 Jan 20 j 08:38	30°♁♁	
min. Earth dist.	-2247 Dec 07 j 07:54	27°♄23'13	17.57747 AU				
direct	-2246 Feb 19 j 17:27	25°♄20'37		max. Earth dist.	-2239 Mar 24 j 22:18	28°♁25'54	
max. Earth dist.	-2246 Jun 10 j 07:49	29°♄42'09	19.55116 AU				
conjunction	-2246 Jun 11 j 09:45	29°♄46'08	0°05'44	conjunction	-2239 Jul 15 j 15:22	2°♄58'33	0°29'47
minimum elong	-2246 Jun 11 j 09:45	29°♄46'08	0°05'47	minimum elong	-2239 Jul 15 j 15:22	2°♄58'32	0°29'51
behind sun begin	-2246 Jun 11 j 03:16	29°♄45'10		retrograde	-2239 Oct 31 j 14:27	7°♄22'37	
behind sun end	-2246 Jun 11 j 16:14	29°♄47'07		opposition	-2238 Jan 12 j 20:37	5°♄20'04	0°34'48
	-2246 Jun 15 j 03:48	0°♁		min. Earth dist.	-2238 Jan 13 j 22:05	5°♄17'17	17.27380 AU
retrograde	-2246 Sep 28 j 16:16	4°♁07'53		direct	-2238 Mar 30 j 01:38	3°♄13'17	
opposition	-2246 Dec 11 j 05:54	2°♁05'19	0°08'22	conjunction	-2238 Jul 20 j 19:43	7°♄46'23	0°32'37
min. Earth dist.	-2246 Dec 12 j 03:51	2°♁02'55	17.52589 AU	minimum elong	-2238 Jul 20 j 19:43	7°♄46'23	0°32'40
direct	-2245 Feb 24 j 16:09	0°♁00'05		max. Earth dist.	-2238 Jul 19 j 14:17	7°♄41'45	19.26533 AU
max. Earth dist.	-2245 Jun 15 j 09:33	4°♁22'43	19.50102 AU	retrograde	-2238 Nov 05 j 15:02	12°♄10'29	
				opposition	-2237 Jan 17 j 21:35	10°♄07'58	0°37'51
conjunction	-2245 Jun 16 j 13:05	4°♁26'58	0°09'25	min. Earth dist.	-2237 Jan 18 j 21:50	10°♄05'19	17.25945 AU
minimum elong	-2245 Jun 16 j 13:05	4°♁26'58	0°09'28	direct	-2237 Apr 04 j 06:26	8°♄01'06	
behind sun begin	-2245 Jun 16 j 07:28	4°♁26'07					
behind sun end	-2245 Jun 16 j 18:41	4°♁27'49		conjunction	-2237 Jul 25 j 23:52	12°♄34'32	0°35'14
retrograde	-2245 Oct 03 j 14:52	8°♁49'17		minimum elong	-2237 Jul 25 j 23:52	12°♄34'32	0°35'16
opposition	-2245 Dec 16 j 02:37	6°♁46'44	0°12'29	max. Earth dist.	-2237 Jul 24 j 20:32	12°♄30'13	19.25431 AU
min. Earth dist.	-2245 Dec 17 j 02:27	6°♁44'08	17.47747 AU	retrograde	-2237 Nov 10 j 15:16	16°♄58'34	
direct	-2244 Feb 29 j 14:17	4°♁41'14		opposition	-2236 Jan 22 j 23:05	14°♄56'09	0°40'38
				min. Earth dist.	-2236 Jan 23 j 22:59	14°♄53'32	17.25186 AU
conjunction	-2244 Jun 20 j 16:56	9°♁09'24	0°13'05	direct	-2236 Apr 08 j 10:13	12°♄49'16	
minimum elong	-2244 Jun 20 j 16:56	9°♁09'24	0°13'08	max. Earth dist.	-2236 Jul 29 j 00:20	17°♄18'33	19.25026 AU
behind sun begin	-2244 Jun 20 j 13:02	9°♁08'48					
behind sun end	-2244 Jun 20 j 20:49	9°♁09'59		conjunction	-2236 Jul 30 j 03:44	17°♄22'52	0°37'35
max. Earth dist.	-2244 Jun 19 j 12:37	9°♁05'00	19.45424 AU	minimum elong	-2236 Jul 30 j 03:44	17°♄22'52	0°37'39
retrograde	-2244 Oct 07 j 15:22	13°♁32'13		retrograde	-2236 Nov 14 j 16:27	21°♄46'48	
opposition	-2244 Dec 19 j 23:53	11°♁29'40	0°16'32	opposition	-2235 Jan 27 j 00:42	19°♄44'28	0°43'08
min. Earth dist.	-2244 Dec 20 j 23:33	11°♁27'05	17.43240 AU	min. Earth dist.	-2235 Jan 27 j 23:27	19°♄41'59	17.25132 AU
direct	-2243 Mar 05 j 14:42	9°♁23'54		direct	-2235 Apr 13 j 14:22	17°♄37'38	
				max. Earth dist.	-2235 Aug 03 j 06:23	22°♄07'20	19.25307 AU
conjunction	-2243 Jun 25 j 21:11	13°♁53'14	0°16'41				
minimum elong	-2243 Jun 25 j 21:11	13°♁53'14	0°16'44	conjunction	-2235 Aug 04 j 07:30	22°♄11'18	0°39'42
max. Earth dist.	-2243 Jun 24 j 16:05	13°♁48'43	19.41088 AU	minimum elong	-2235 Aug 04 j 07:30	22°♄11'18	0°39'44

Attention, astronomical year style is used: The year -2235 in astronomical counting style is the year 2236 BCE in historical counting style.

retrograde	-2235 Nov 19 j 17:38	26°♄35'02		conjunction	-2227 Sep 11 j 16:58	0°♃20'31	0°45'47
opposition	-2234 Feb 01 j 02:53	24°♄32'52	0°45'20	minimum elong	-2227 Sep 11 j 16:58	0°♃20'31	0°45'48
min. Earth dist.	-2234 Feb 02 j 00:46	24°♄30'29	17.25728 AU	max. Earth dist.	-2227 Sep 11 j 03:33	0°♃18'24	19.46643 AU
direct	-2234 Apr 18 j 18:18	22°♄26'08		retrograde	-2227 Dec 27 j 15:18	4°♃40'12	
max. Earth dist.	-2234 Aug 08 j 09:52	26°♄55'46	19.26223 AU	opposition	-2226 Mar 12 j 00:04	2°♃38'59	0°50'42
conjunction	-2234 Aug 09 j 10:39	26°♄59'42	0°41'32	min. Earth dist.	-2226 Mar 12 j 10:33	2°♃37'53	17.48905 AU
minimum elong	-2234 Aug 09 j 10:39	26°♄59'42	0°41'35	direct	-2226 May 28 j 06:38	0°♃33'56	
retrograde	-2234 Sep 30 j 07:31	0°♃		conjunction	-2226 Sep 16 j 14:32	5°♃01'16	0°45'09
retrograde	-2234 Nov 24 j 18:49	1°♃23'11		minimum elong	-2226 Sep 16 j 14:32	5°♃01'16	0°45'11
opposition	-2233 Jan 22 j 00:51	30°♃		max. Earth dist.	-2226 Sep 16 j 03:59	4°♃59'37	19.51246 AU
min. Earth dist.	-2233 Feb 06 j 05:22	29°♄21'10	0°47'13	retrograde	-2225 Jan 01 j 11:07	9°♃20'11	
direct	-2233 Feb 07 j 02:19	29°♄18'54	17.26952 AU	opposition	-2225 Mar 17 j 02:00	7°♃19'03	0°49'49
direct	-2233 Apr 23 j 22:09	27°♄14'35		min. Earth dist.	-2225 Mar 17 j 11:28	7°♃18'03	17.53722 AU
	-2233 Jul 16 j 10:06	0°♃		direct	-2225 Jun 02 j 08:32	5°♃14'16	
conjunction	-2233 Aug 14 j 13:33	1°♃47'54	0°43'04	conjunction	-2225 Sep 21 j 11:04	9°♃40'16	0°44'13
minimum elong	-2233 Aug 14 j 13:32	1°♃47'54	0°43'07	minimum elong	-2225 Sep 21 j 11:04	9°♃40'16	0°44'13
max. Earth dist.	-2233 Aug 13 j 14:59	1°♃44'19	19.27736 AU	max. Earth dist.	-2225 Sep 21 j 02:06	9°♃38'52	19.56289 AU
retrograde	-2233 Nov 29 j 20:05	6°♃11'02		retrograde	-2224 Jan 06 j 08:55	13°♃58'22	
opposition	-2232 Feb 11 j 08:02	4°♃09'11	0°48'46	opposition	-2224 Mar 21 j 03:11	11°♃57'19	0°48'36
min. Earth dist.	-2232 Feb 12 j 03:35	4°♃07'04	17.28729 AU	min. Earth dist.	-2224 Mar 21 j 09:28	11°♃56'39	17.58981 AU
direct	-2232 Apr 28 j 03:04	2°♃02'47		direct	-2224 Jun 06 j 11:12	9°♃52'50	
conjunction	-2232 Aug 18 j 15:47	6°♃35'40	0°44'19	conjunction	-2224 Sep 25 j 06:48	14°♃17'27	0°43'00
minimum elong	-2232 Aug 18 j 15:47	6°♃35'40	0°44'21	minimum elong	-2224 Sep 25 j 06:48	14°♃17'27	0°43'01
max. Earth dist.	-2232 Aug 17 j 17:57	6°♃32'12	19.29775 AU	max. Earth dist.	-2224 Sep 25 j 01:08	14°♃16'34	19.61766 AU
retrograde	-2232 Dec 03 j 19:59	10°♃58'24		retrograde	-2223 Jan 10 j 04:06	18°♃34'43	
opposition	-2231 Feb 15 j 10:56	8°♃56'41	0°49'59	opposition	-2223 Mar 26 j 04:08	16°♃33'47	0°47'05
min. Earth dist.	-2231 Feb 16 j 05:50	8°♃54'39	17.31021 AU	min. Earth dist.	-2223 Mar 26 j 09:03	16°♃33'16	17.64672 AU
direct	-2231 May 03 j 06:56	6°♃50'29		direct	-2223 Jun 11 j 11:39	14°♃29'40	
conjunction	-2231 Aug 23 j 17:34	11°♃22'47	0°45'15	conjunction	-2223 Sep 30 j 01:22	18°♃52'48	0°41'31
minimum elong	-2231 Aug 23 j 17:34	11°♃22'47	0°45'17	minimum elong	-2223 Sep 30 j 01:22	18°♃52'48	0°41'31
max. Earth dist.	-2231 Aug 22 j 21:37	11°♃19'38	19.32302 AU	max. Earth dist.	-2223 Sep 29 j 21:11	18°♃52'09	19.67677 AU
retrograde	-2231 Oct 29 j 11:47	15°♃		retrograde	-2222 Jan 15 j 00:46	23°♃09'15	
retrograde	-2231 Dec 08 j 20:44	15°♃45'02		opposition	-2222 Mar 31 j 04:25	21°♃08'27	0°45'17
opposition	-2230 Jan 19 j 11:49	15°♃		min. Earth dist.	-2222 Mar 31 j 06:05	21°♃08'17	17.70782 AU
min. Earth dist.	-2230 Feb 20 j 13:46	13°♃43'28	0°50'50	direct	-2222 Jun 16 j 11:44	19°♃04'44	
direct	-2230 Feb 21 j 06:46	13°♃41'38	17.33761 AU	conjunction	-2222 Oct 04 j 19:14	23°♃26'23	0°39'47
direct	-2230 May 08 j 12:56	11°♃37'28		minimum elong	-2222 Oct 04 j 19:14	23°♃26'23	0°39'47
	-2230 Aug 10 j 10:01	15°♃		max. Earth dist.	-2222 Oct 04 j 18:35	23°♃26'17	19.73982 AU
conjunction	-2230 Aug 28 j 18:40	16°♃09'03	0°45'51	retrograde	-2221 Jan 19 j 19:33	27°♃41'59	
minimum elong	-2230 Aug 28 j 18:40	16°♃09'03	0°45'53	opposition	-2221 Apr 05 j 04:18	25°♃41'21	0°43'12
max. Earth dist.	-2230 Aug 28 j 00:04	16°♃06'06	19.35263 AU	min. Earth dist.	-2221 Apr 05 j 04:22	25°♃41'21	17.77256 AU
retrograde	-2230 Dec 13 j 19:13	20°♃30'45		direct	-2221 Jun 21 j 11:05	23°♃38'06	
opposition	-2229 Feb 25 j 16:48	18°♃29'18	0°51'20	conjunction	-2221 Oct 09 j 11:56	27°♃58'11	0°37'49
min. Earth dist.	-2229 Feb 26 j 09:11	18°♃27'32	17.36941 AU	minimum elong	-2221 Oct 09 j 11:56	27°♃58'11	0°37'50
direct	-2229 May 13 j 16:44	16°♃23'31		max. Earth dist.	-2221 Oct 09 j 12:34	27°♃58'17	19.80621 AU
conjunction	-2229 Sep 02 j 18:52	20°♃54'14	0°46'09	retrograde	-2221 Nov 12 j 12:36	0°♄	
minimum elong	-2229 Sep 02 j 18:52	20°♃54'14	0°46'11	retrograde	-2220 Jan 24 j 15:16	2°♄12'57	
max. Earth dist.	-2229 Sep 02 j 01:56	20°♃51'33	19.38657 AU	opposition	-2220 Apr 09 j 03:26	0°♄12'29	0°40'52
retrograde	-2229 Dec 18 j 19:12	25°♃15'19		min. Earth dist.	-2220 Apr 09 j 00:40	0°♄12'47	17.84028 AU
opposition	-2228 Mar 01 j 19:28	23°♃13'57	0°51'28	direct	-2220 Apr 14 j 03:52	30°♃	
min. Earth dist.	-2228 Mar 02 j 09:26	23°♃12'28	17.40524 AU	direct	-2220 Jun 25 j 09:06	28°♃09'41	
direct	-2228 May 17 j 22:40	21°♃08'25		direct	-2220 Aug 31 j 15:27	0°♄	
conjunction	-2228 Sep 06 j 18:24	25°♃38'07	0°46'08	conjunction	-2220 Oct 13 j 04:00	2°♄28'13	0°35'38
minimum elong	-2228 Sep 06 j 18:24	25°♃38'07	0°46'09	minimum elong	-2220 Oct 13 j 04:00	2°♄28'13	0°35'37
max. Earth dist.	-2228 Sep 06 j 03:29	25°♃35'46	19.42442 AU	max. Earth dist.	-2220 Oct 13 j 07:58	2°♄28'50	19.87505 AU
retrograde	-2228 Dec 22 j 16:15	29°♃58'31		retrograde	-2219 Jan 28 j 08:58	6°♄42'07	
opposition	-2227 Mar 06 j 21:54	27°♃57'15	0°51'16	opposition	-2219 Apr 14 j 01:58	4°♄41'50	0°38'18
min. Earth dist.	-2227 Mar 07 j 11:16	27°♃55'50	17.44512 AU	min. Earth dist.	-2219 Apr 13 j 21:39	4°♄42'17	17.90998 AU
direct	-2227 May 23 j 01:35	25°♃51'56		direct	-2219 Jun 30 j 07:55	2°♄39'32	
	-2227 Sep 06 j 06:51	0°♃					

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Attention, astronomical year style is used: The year -2219 in astronomical counting style is the year 2220 BCE in historical counting style.

conjunction	-2219 Oct 17 j 19:04	6°♁56'27	0°33'14	opposition	-2211 May 20 j 12:43	9°♃26'35	0°11'56
minimum elong	-2219 Oct 17 j 19:04	6°♁56'27	0°33'14	min. Earth dist.	-2211 May 19 j 18:14	9°♃28'28	18.46371 AU
max. Earth dist.	-2219 Oct 18 j 00:04	6°♁57'13	19.94557 AU	direct	-2211 Aug 05 j 11:57	7°♃27'19	
retrograde	-2218 Feb 02 j 03:12	11°♁09'30					
opposition	-2218 Apr 19 j 00:00	9°♁09'22	0°35'31	conjunction	-2211 Nov 20 j 14:14	11°♃31'24	0°09'10
min. Earth dist.	-2218 Apr 18 j 17:19	9°♁10'04	17.98110 AU	minimum elong	-2211 Nov 20 j 14:14	11°♃31'24	0°09'07
direct	-2218 Jul 05 j 04:45	7°♁07'31		behind sun begin	-2211 Nov 20 j 08:39	11°♃30'35	
				behind sun end	-2211 Nov 20 j 19:49	11°♃32'12	
conjunction	-2218 Oct 22 j 09:21	11°♁22'49	0°30'40	max. Earth dist.	-2211 Nov 21 j 09:12	11°♃34'13	20.49612 AU
minimum elong	-2218 Oct 22 j 09:21	11°♁22'49	0°30'38		-2210 Jan 29 j 00:36	15°♃	
max. Earth dist.	-2218 Oct 22 j 17:27	11°♁24'03	20.01700 AU	retrograde	-2210 Mar 08 j 18:49	15°♃37'40	
retrograde	-2217 Feb 06 j 19:35	15°♁34'59			-2210 Apr 17 j 21:48	15°♃♃	
opposition	-2217 Apr 23 j 21:23	13°♁35'02	0°32'33	min. Earth dist.	-2210 May 24 j 09:03	13°♃40'04	18.52833 AU
min. Earth dist.	-2217 Apr 23 j 13:02	13°♁35'53	18.05263 AU	opposition	-2210 May 25 j 04:30	13°♃38'06	0°08'16
direct	-2217 Jul 10 j 02:36	11°♁33'38		direct	-2210 Aug 10 j 00:20	11°♃39'09	
					-2210 Nov 13 j 03:51	15°♃	
conjunction	-2217 Oct 26 j 22:48	15°♁47'17	0°27'55				
minimum elong	-2217 Oct 26 j 22:48	15°♁47'17	0°27'54	conjunction	-2210 Nov 24 j 22:10	15°♃41'48	0°05'52
max. Earth dist.	-2217 Oct 27 j 07:40	15°♁48'38	20.08852 AU	minimum elong	-2210 Nov 24 j 22:11	15°♃41'48	0°05'50
retrograde	-2216 Feb 11 j 12:03	19°♁58'36		behind sun begin	-2210 Nov 24 j 15:56	15°♃40'54	
opposition	-2216 Apr 27 j 17:51	17°♁58'44	0°29'24	behind sun end	-2210 Nov 25 j 04:26	15°♃42'42	
min. Earth dist.	-2216 Apr 27 j 07:45	17°♁59'46	18.12404 AU	max. Earth dist.	-2210 Nov 25 j 19:29	15°♃44'57	20.56020 AU
direct	-2216 Jul 13 j 21:41	15°♁57'45		retrograde	-2209 Mar 13 j 06:31	19°♃47'21	
				opposition	-2209 May 29 j 19:19	17°♃47'51	0°04'34
conjunction	-2216 Oct 30 j 11:35	20°♁09'47	0°25'01	min. Earth dist.	-2209 May 28 j 21:38	17°♃50'02	18.59180 AU
minimum elong	-2216 Oct 30 j 11:35	20°♁09'47	0°25'01	direct	-2209 Aug 14 j 14:34	15°♃49'14	
max. Earth dist.	-2216 Oct 30 j 23:04	20°♁11'32	20.15951 AU				
retrograde	-2215 Feb 15 j 02:32	24°♁20'12		conjunction	-2209 Nov 29 j 05:32	19°♃50'33	0°02'33
opposition	-2215 May 02 j 13:42	22°♁20'28	0°26'06	minimum elong	-2209 Nov 29 j 05:31	19°♃50'33	0°02'30
min. Earth dist.	-2215 May 02 j 01:50	22°♁21'40	18.19446 AU	behind sun begin	-2209 Nov 28 j 23:00	19°♃49'37	
direct	-2215 Jul 18 j 17:51	20°♁19'53		behind sun end	-2209 Nov 29 j 12:03	19°♃51'29	
				max. Earth dist.	-2209 Nov 30 j 03:38	19°♃53'49	20.62298 AU
conjunction	-2215 Nov 03 j 23:15	24°♁30'15	0°22'01	retrograde	-2208 Mar 16 j 16:46	23°♃55'26	
minimum elong	-2215 Nov 03 j 23:15	24°♁30'15	0°21'59	min. Earth dist.	-2208 Jun 01 j 11:10	21°♃58'16	18.65395 AU
max. Earth dist.	-2215 Nov 04 j 11:27	24°♁32'06	20.22937 AU	opposition	-2208 Jun 02 j 09:22	21°♃56'02	0°00'53
retrograde	-2214 Feb 19 j 17:20	28°♁39'50		direct	-2208 Aug 18 j 00:59	19°♃57'46	
opposition	-2214 May 07 j 08:51	26°♁40'08	0°22'41	desc. node	-2208 Aug 30 j 18:33	20°♃01'55	
min. Earth dist.	-2214 May 06 j 19:35	26°♁41'29	18.26377 AU				
direct	-2214 Jul 23 j 11:01	24°♁39'54		conjunction	-2208 Dec 02 j 12:26	23°♃57'49	0°00'-51
				minimum elong	-2208 Dec 02 j 12:26	23°♃57'49	0°00'55
conjunction	-2214 Nov 08 j 10:21	28°♁48'40	0°18'54	behind sun begin	-2208 Dec 02 j 05:55	23°♃56'53	
minimum elong	-2214 Nov 08 j 10:21	28°♁48'40	0°18'53	behind sun end	-2208 Dec 02 j 18:57	23°♃58'45	
max. Earth dist.	-2214 Nov 09 j 01:02	28°♁50'52	20.29798 AU	max. Earth dist.	-2208 Dec 03 j 12:29	24°♃01'22	20.68426 AU
	-2214 Nov 28 j 08:42	0°♃		retrograde	-2207 Mar 21 j 03:59	28°♃02'06	
retrograde	-2213 Feb 24 j 06:22	2°♃57'21		opposition	-2207 Jun 06 j 22:45	26°♃02'49	0°-2'-46
min. Earth dist.	-2213 May 11 j 11:46	0°♃59'15	18.33163 AU	min. Earth dist.	-2207 Jun 05 j 22:29	26°♃05'15	18.71418 AU
opposition	-2213 May 12 j 02:58	0°♃57'42	0°19'10	direct	-2207 Aug 22 j 13:09	24°♃04'55	
	-2213 Jun 05 j 20:03	30°♃♁					
direct	-2213 Jul 28 j 05:00	28°♁57'48		conjunction	-2207 Dec 06 j 18:39	28°♃03'46	0°-4'-11
	-2213 Sep 16 j 00:40	0°♃		minimum elong	-2207 Dec 06 j 18:39	28°♃03'47	0°04'14
				behind sun begin	-2207 Dec 06 j 12:13	28°♃02'51	
conjunction	-2213 Nov 12 j 20:22	3°♃04'57	0°15'42	behind sun end	-2207 Dec 07 j 01:05	28°♃04'42	
minimum elong	-2213 Nov 12 j 20:22	3°♃04'57	0°15'40	max. Earth dist.	-2207 Dec 07 j 19:23	28°♃07'24	20.74331 AU
behind sun begin	-2213 Nov 12 j 18:30	3°♃04'41			-2206 Jan 10 j 02:20	0°♁	
behind sun end	-2213 Nov 12 j 22:14	3°♃05'13		retrograde	-2206 Mar 25 j 13:37	2°♁07'32	
max. Earth dist.	-2213 Nov 13 j 11:52	3°♃07'16	20.36518 AU	min. Earth dist.	-2206 Jun 10 j 11:18	0°♁10'47	18.77206 AU
retrograde	-2212 Feb 28 j 19:15	7°♃12'48		opposition	-2206 Jun 11 j 11:40	0°♁08'21	0°-6'-24
opposition	-2212 May 15 j 20:21	5°♃13'10	0°15'34		-2206 Jun 14 j 23:05	30°♃♃	
min. Earth dist.	-2212 May 15 j 04:03	5°♃14'49	18.39828 AU	direct	-2206 Aug 26 j 22:20	28°♃10'47	
direct	-2212 Jul 31 j 19:48	3°♃13'35			-2206 Nov 02 j 11:16	0°♁	
conjunction	-2212 Nov 16 j 05:44	7°♃19'10	0°12'27	conjunction	-2206 Dec 11 j 00:46	2°♁08'33	0°-7'-26
minimum elong	-2212 Nov 16 j 05:44	7°♃19'10	0°12'25	minimum elong	-2206 Dec 11 j 00:46	2°♁08'33	0°07'30
behind sun begin	-2212 Nov 16 j 01:21	7°♃18'32		behind sun begin	-2206 Dec 10 j 18:47	2°♁07'42	
behind sun end	-2212 Nov 16 j 10:06	7°♃19'48		behind sun end	-2206 Dec 11 j 06:44	2°♁09'24	
max. Earth dist.	-2212 Nov 16 j 23:42	7°♃21'51	20.43119 AU	max. Earth dist.	-2206 Dec 12 j 02:58	2°♁12'23	20.79972 AU
retrograde	-2211 Mar 04 j 07:23	11°♃26'11		retrograde	-2205 Mar 30 j 00:19	6°♁11'47	

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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.

opposition	-2205 Jun 15 j 23:37	4°♁12'44	0°-9'-59	conjunction	-2197 Jan 11 j 16:44	4°♁12'19	0°-30'-31
min. Earth dist.	-2205 Jun 14 j 21:35	4°♁15'20	18.82683 AU	minimum elong	-2197 Jan 11 j 16:44	4°♁12'19	0°30'34
direct	-2205 Aug 31 j 08:36	2°♁15'31		max. Earth dist.	-2197 Jan 12 j 20:39	4°♁16'19	21.09109 AU
				retrograde	-2197 May 01 j 21:54	8°♁13'04	
conjunction	-2205 Dec 15 j 06:27	6°♁12'15	0°-10'-38	min. Earth dist.	-2197 Jul 18 j 01:26	6°♁16'38	19.09987 AU
minimum elong	-2205 Dec 15 j 06:26	6°♁12'15	0°10'42	opposition	-2197 Jul 19 j 04:01	6°♁13'58	0°-35'-1
behind sun begin	-2205 Dec 15 j 01:21	6°♁11'32		direct	-2197 Oct 02 j 19:41	4°♁17'57	
behind sun end	-2205 Dec 15 j 11:32	6°♁12'59					
max. Earth dist.	-2205 Dec 16 j 08:51	6°♁16'06	20.85263 AU	conjunction	-2196 Jan 15 j 21:09	8°♁09'14	0°-32'-49
retrograde	-2204 Apr 02 j 09:25	10°♁15'03		minimum elong	-2196 Jan 15 j 21:09	8°♁09'14	0°32'54
min. Earth dist.	-2204 Jun 18 j 09:39	8°♁18'38	18.87790 AU	max. Earth dist.	-2196 Jan 17 j 00:36	8°♁13'10	21.10677 AU
opposition	-2204 Jun 19 j 11:13	8°♁16'05	0°-13'-30	retrograde	-2196 May 05 j 04:15	12°♁09'54	
direct	-2204 Sep 03 j 16:40	6°♁19'10		min. Earth dist.	-2196 Jul 21 j 10:03	10°♁13'17	19.11370 AU
				opposition	-2196 Jul 22 j 11:22	10°♁10'45	0°-37'-29
conjunction	-2204 Dec 18 j 11:53	10°♁14'58	0°-13'-47	direct	-2196 Oct 05 j 23:17	8°♁14'46	
minimum elong	-2204 Dec 18 j 11:53	10°♁14'58	0°13'51				
behind sun begin	-2204 Dec 18 j 08:21	10°♁14'28		conjunction	-2195 Jan 19 j 01:33	12°♁05'46	0°-34'-59
behind sun end	-2204 Dec 18 j 15:25	10°♁15'28		minimum elong	-2195 Jan 19 j 01:33	12°♁05'46	0°35'03
max. Earth dist.	-2204 Dec 19 j 15:16	10°♁18'57	20.90154 AU	max. Earth dist.	-2195 Jan 20 j 05:14	12°♁09'43	21.11873 AU
retrograde	-2203 Apr 06 j 19:43	14°♁17'22		retrograde	-2195 May 09 j 12:32	16°♁06'25	
opposition	-2203 Jun 23 j 22:07	12°♁18'29	0°-16'-57	opposition	-2195 Jul 26 j 18:17	14°♁07'14	0°-39'-47
min. Earth dist.	-2203 Jun 22 j 19:11	12°♁21'10	18.92452 AU	min. Earth dist.	-2195 Jul 25 j 16:10	14°♁09'50	19.12371 AU
direct	-2203 Sep 08 j 01:47	10°♁21'49		direct	-2195 Oct 10 j 05:45	12°♁11'16	
conjunction	-2203 Dec 22 j 17:07	14°♁16'44	0°-16'-51	conjunction	-2194 Jan 23 j 06:12	16°♁02'07	0°-36'-59
minimum elong	-2203 Dec 22 j 17:07	14°♁16'44	0°16'55	minimum elong	-2194 Jan 23 j 06:12	16°♁02'07	0°37'02
max. Earth dist.	-2203 Dec 23 j 20:21	14°♁20'41	20.94570 AU	max. Earth dist.	-2194 Jan 24 j 09:12	16°♁05'58	21.12674 AU
retrograde	-2202 Apr 11 j 04:01	18°♁18'47		retrograde	-2194 May 13 j 19:23	20°♁02'49	
min. Earth dist.	-2202 Jun 27 j 06:34	16°♁22'31	18.96631 AU	min. Earth dist.	-2194 Jul 30 j 00:24	18°♁06'03	19.12981 AU
opposition	-2202 Jun 28 j 08:37	16°♁19'56	0°-20'-17	opposition	-2194 Jul 31 j 01:00	18°♁03'35	0°-41'-53
direct	-2202 Sep 12 j 09:07	14°♁23'29		direct	-2194 Oct 14 j 08:58	16°♁07'39	
conjunction	-2202 Dec 26 j 22:15	18°♁17'36	0°-19'-49	conjunction	-2193 Jan 27 j 11:08	19°♁58'26	0°-38'-48
minimum elong	-2202 Dec 26 j 22:15	18°♁17'36	0°19'53	minimum elong	-2193 Jan 27 j 11:08	19°♁58'26	0°38'52
max. Earth dist.	-2202 Dec 28 j 02:01	18°♁21'37	20.98488 AU	max. Earth dist.	-2193 Jan 28 j 13:59	20°♁02'15	21.13088 AU
retrograde	-2201 Apr 15 j 14:18	22°♁19'18		retrograde	-2193 May 18 j 03:51	23°♁59'15	
opposition	-2201 Jul 02 j 18:23	20°♁20'27	0°-23'-31	min. Earth dist.	-2193 Aug 03 j 06:24	22°♁02'31	19.13176 AU
min. Earth dist.	-2201 Jul 01 j 15:18	20°♁23'09	19.00278 AU	opposition	-2193 Aug 04 j 07:23	22°♁00'01	0°-43'-48
direct	-2201 Sep 16 j 17:26	18°♁24'10		direct	-2193 Oct 18 j 14:17	20°♁04'05	
conjunction	-2201 Dec 31 j 03:06	22°♁17'33	0°-22'-41	conjunction	-2192 Jan 31 j 16:14	23°♁54'55	0°-40'-26
minimum elong	-2201 Dec 31 j 03:06	22°♁17'33	0°22'46	minimum elong	-2192 Jan 31 j 16:14	23°♁54'55	0°40'30
max. Earth dist.	-2200 Jan 01 j 06:27	22°♁21'30	21.01862 AU	max. Earth dist.	-2192 Feb 01 j 18:05	23°♁58'35	21.13055 AU
retrograde	-2200 Apr 18 j 21:06	26°♁18'56		retrograde	-2192 May 21 j 10:53	27°♁55'55	
min. Earth dist.	-2200 Jul 05 j 01:42	24°♁22'39	19.03398 AU	opposition	-2192 Aug 07 j 13:45	25°♁56'40	0°-45'-31
opposition	-2200 Jul 06 j 03:37	24°♁20'04	0°-26'-37	min. Earth dist.	-2192 Aug 06 j 14:36	25°♁58'59	19.12919 AU
direct	-2200 Sep 19 j 23:50	22°♁23'53		direct	-2192 Oct 21 j 17:38	24°♁00'45	
conjunction	-2199 Jan 03 j 07:49	26°♁16'36	0°-25'-26	conjunction	-2191 Feb 03 j 21:50	27°♁51'43	0°-41'-54
minimum elong	-2199 Jan 03 j 07:49	26°♁16'36	0°25'30	minimum elong	-2191 Feb 03 j 21:50	27°♁51'43	0°41'58
max. Earth dist.	-2199 Jan 04 j 11:37	26°♁20'36	21.04737 AU	max. Earth dist.	-2191 Feb 04 j 23:09	27°♁55'19	21.12573 AU
	-2199 Mar 27 j 02:43	0°♁			-2191 Mar 15 j 12:29	0°≈	
retrograde	-2199 Apr 23 j 06:58	0°♁17'43		retrograde	-2191 May 25 j 19:57	1°≈52'59	
	-2199 May 20 j 18:54	30°R♁			-2191 Aug 09 j 05:16	30°R♁	
min. Earth dist.	-2199 Jul 09 j 09:22	28°♁21'28	19.06028 AU	opposition	-2191 Aug 11 j 19:56	29°♁53'42	0°-47'-1
opposition	-2199 Jul 10 j 12:16	28°♁18'47	0°-29'-35	min. Earth dist.	-2191 Aug 10 j 20:47	29°♁56'02	19.12183 AU
direct	-2199 Sep 24 j 07:34	26°♁22'41		direct	-2191 Oct 25 j 22:26	27°♁57'45	
	-2198 Jan 03 j 04:56	0°♁			-2190 Jan 05 j 23:56	0°≈	
conjunction	-2198 Jan 07 j 12:11	0°♁14'49	0°-28'-2	conjunction	-2190 Feb 08 j 03:47	1°≈48'59	0°-43'-9
minimum elong	-2198 Jan 07 j 12:11	0°♁14'49	0°28'07	minimum elong	-2190 Feb 08 j 03:46	1°≈48'59	0°43'12
max. Earth dist.	-2198 Jan 08 j 15:43	0°♁18'46	21.07132 AU	max. Earth dist.	-2190 Feb 09 j 03:41	1°≈52'22	21.11571 AU
retrograde	-2198 Apr 27 j 13:05	4°♁15'44		retrograde	-2190 May 30 j 03:21	5°≈50'32	
opposition	-2198 Jul 14 j 20:33	2°♁16'43	0°-32'-23	min. Earth dist.	-2190 Aug 15 j 05:21	3°≈53'20	19.10910 AU
min. Earth dist.	-2198 Jul 13 j 18:49	2°♁19'17	19.08213 AU	opposition	-2190 Aug 16 j 02:13	3°≈51'14	0°-48'-17
direct	-2198 Sep 28 j 12:27	0°♁20'39		direct	-2190 Oct 30 j 02:01	1°≈55'14	

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Attention, astronomical year style is used: The year -2189 in astronomical counting style is the year 2190 BCE in historical counting style.

conjunction	-2189 Feb 12 j 10:24	5° <del>46</del> '47	0°-44'-13	min. Earth dist.	-2182 Sep 16 j 19:42	5° <del>56</del> '17	18.82017 AU
minimum elong	-2189 Feb 12 j 10:24	5° <del>46</del> '47	0°44'16	direct	-2182 Nov 30 j 19:11	3° <del>57</del> '29	
max. Earth dist.	-2189 Feb 13 j 09:10	5° <del>50</del> '01	21.10022 AU				
retrograde	-2189 Jun 03 j 13:02	9° <del>48</del> '41		conjunction	-2181 Mar 17 j 08:38	7° <del>54</del> '41	0°-44'-40
min. Earth dist.	-2189 Aug 19 j 11:48	7° <del>51</del> '22	19.09063 AU	minimum elong	-2181 Mar 17 j 08:38	7° <del>54</del> '41	0°44'42
opposition	-2189 Aug 20 j 08:11	7° <del>49</del> '18	0°-49'-20	max. Earth dist.	-2181 Mar 17 j 18:12	7° <del>56</del> '03	20.79407 AU
direct	-2189 Nov 03 j 07:15	5° <del>53</del> '11		retrograde	-2181 Jul 06 j 16:12	12° <del>00</del> '50	
				opposition	-2181 Sep 21 j 11:33	10° <del>00</del> '15	0°-48'-55
conjunction	-2188 Feb 16 j 17:21	9° <del>45</del> '10	0°-45'-3	min. Earth dist.	-2181 Sep 21 j 03:19	10° <del>01</del> '06	18.76751 AU
minimum elong	-2188 Feb 16 j 17:21	9° <del>45</del> '10	0°45'06	direct	-2181 Dec 05 j 02:26	8° <del>02</del> '05	
max. Earth dist.	-2188 Feb 17 j 14:16	9° <del>48</del> '08	21.07874 AU				
retrograde	-2188 Jun 06 j 20:18	13° <del>47</del> '27		conjunction	-2180 Mar 20 j 20:19	12° <del>00</del> '23	0°-43'-43
opposition	-2188 Aug 23 j 14:28	11° <del>47</del> '58	0°-50'-9	minimum elong	-2180 Mar 20 j 20:20	12° <del>00</del> '23	0°43'44
min. Earth dist.	-2188 Aug 22 j 20:32	11° <del>49</del> '47	19.06621 AU	max. Earth dist.	-2180 Mar 21 j 04:11	12° <del>01</del> '30	20.74015 AU
direct	-2188 Nov 06 j 10:53	9° <del>51</del> '42		retrograde	-2180 Jul 10 j 02:39	16° <del>07</del> '17	
				opposition	-2180 Sep 24 j 19:05	14° <del>06</del> '35	0°-47'-44
conjunction	-2187 Feb 20 j 00:41	13° <del>44</del> '09	0°-45'-41	min. Earth dist.	-2180 Sep 24 j 13:10	14° <del>07</del> '12	18.71240 AU
minimum elong	-2187 Feb 20 j 00:41	13° <del>44</del> '09	0°45'43	direct	-2180 Dec 08 j 07:52	12° <del>08</del> '08	
max. Earth dist.	-2187 Feb 20 j 20:17	13° <del>46</del> '56	21.05157 AU				
	-2187 Mar 14 j 14:40	15° <del>00</del> '00		conjunction	-2179 Mar 25 j 08:46	16° <del>07</del> '37	0°-42'-31
retrograde	-2187 Jun 11 j 06:30	17° <del>46</del> '51		minimum elong	-2179 Mar 25 j 08:46	16° <del>07</del> '37	0°42'33
opposition	-2187 Aug 27 j 20:37	15° <del>47</del> '14	0°-50'-43	max. Earth dist.	-2179 Mar 25 j 14:40	16° <del>08</del> '28	20.68403 AU
min. Earth dist.	-2187 Aug 27 j 03:17	15° <del>49</del> '00	19.03615 AU	retrograde	-2179 Jul 14 j 16:23	20° <del>15</del> '20	
	-2187 Sep 16 j 19:08	15° <del>00</del> '00		opposition	-2179 Sep 29 j 02:55	18° <del>14</del> '31	0°-46'-18
direct	-2187 Nov 10 j 16:58	13° <del>50</del> '46		min. Earth dist.	-2179 Sep 28 j 21:58	18° <del>15</del> '02	18.65501 AU
	-2186 Jan 02 j 12:29	15° <del>00</del> '00		direct	-2179 Dec 12 j 16:10	16° <del>15</del> '46	
conjunction	-2186 Feb 24 j 08:36	17° <del>43</del> '47	0°-46'-5	conjunction	-2178 Mar 29 j 22:18	20° <del>16</del> '31	0°-41'-6
minimum elong	-2186 Feb 24 j 08:36	17° <del>43</del> '47	0°46'08	minimum elong	-2178 Mar 29 j 22:18	20° <del>16</del> '31	0°41'06
max. Earth dist.	-2186 Feb 25 j 02:20	17° <del>46</del> '18	21.01882 AU	max. Earth dist.	-2178 Mar 30 j 02:23	20° <del>17</del> '07	20.62536 AU
retrograde	-2186 Jun 15 j 13:37	21° <del>46</del> '56		retrograde	-2178 Jul 19 j 04:11	24° <del>25</del> '03	
min. Earth dist.	-2186 Aug 31 j 11:59	19° <del>48</del> '40	19.00087 AU	opposition	-2178 Oct 03 j 11:14	22° <del>24</del> '09	0°-44'-36
opposition	-2186 Sep 01 j 02:47	19° <del>47</del> '09	0°-51'-3	min. Earth dist.	-2178 Oct 03 j 08:53	22° <del>24</del> '24	18.59504 AU
direct	-2186 Nov 14 j 20:49	17° <del>50</del> '26		direct	-2178 Dec 16 j 22:52	20° <del>25</del> '06	
conjunction	-2185 Feb 28 j 17:05	21° <del>44</del> '06	0°-46'-15	conjunction	-2177 Apr 03 j 12:47	24° <del>27</del> '12	0°-39'-26
minimum elong	-2185 Feb 28 j 17:05	21° <del>44</del> '06	0°46'18	minimum elong	-2177 Apr 03 j 12:47	24° <del>27</del> '12	0°39'28
max. Earth dist.	-2185 Mar 01 j 09:20	21° <del>46</del> '25	20.98132 AU	max. Earth dist.	-2177 Apr 03 j 14:20	24° <del>27</del> '26	20.56419 AU
retrograde	-2185 Jun 20 j 00:10	25° <del>47</del> '45		retrograde	-2177 Jul 23 j 19:08	28° <del>36</del> '36	
opposition	-2185 Sep 05 j 08:56	23° <del>47</del> '48	0°-51'-7	opposition	-2177 Oct 07 j 20:07	26° <del>35</del> '35	0°-42'-40
min. Earth dist.	-2185 Sep 04 j 18:46	23° <del>49</del> '15	18.96108 AU	min. Earth dist.	-2177 Oct 07 j 19:07	26° <del>35</del> '41	18.53244 AU
direct	-2185 Nov 19 j 03:15	21° <del>50</del> '48		direct	-2177 Dec 21 j 08:25	24° <del>36</del> '12	
conjunction	-2184 Mar 04 j 01:54	25° <del>45</del> '13	0°-46'-12	conjunction	-2176 Apr 07 j 04:04	28° <del>39</del> '42	0°-37'-34
minimum elong	-2184 Mar 04 j 01:54	25° <del>45</del> '13	0°46'15	minimum elong	-2176 Apr 07 j 04:04	28° <del>39</del> '42	0°37'34
max. Earth dist.	-2184 Mar 04 j 16:26	25° <del>47</del> '17	20.93941 AU	max. Earth dist.	-2176 Apr 07 j 03:42	28° <del>39</del> '39	20.50007 AU
retrograde	-2184 Jun 23 j 07:55	29° <del>49</del> '25			-2176 Apr 30 j 13:17	0° <del>00</del> '00	
opposition	-2184 Sep 08 j 15:21	27° <del>49</del> '17	0°-50'-57	retrograde	-2176 Jul 27 j 08:29	2° <del>49</del> '57	
min. Earth dist.	-2184 Sep 08 j 03:32	27° <del>50</del> '30	18.91730 AU	opposition	-2176 Oct 11 j 05:44	0° <del>48</del> '50	0°-40'-28
direct	-2184 Nov 22 j 07:41	25° <del>52</del> '00		min. Earth dist.	-2176 Oct 11 j 07:20	0° <del>48</del> '40	18.46688 AU
					-2176 Oct 31 j 02:51	30° <del>00</del> '00	
conjunction	-2183 Mar 08 j 11:28	29° <del>47</del> '15	0°-45'-55	direct	-2176 Dec 24 j 17:10	28° <del>49</del> '05	
minimum elong	-2183 Mar 08 j 11:28	29° <del>47</del> '15	0°45'57		-2175 Feb 15 j 22:11	0° <del>00</del> '00	
max. Earth dist.	-2183 Mar 09 j 00:30	29° <del>49</del> '07	20.89403 AU				
	-2183 Mar 12 j 04:41	0° <del>00</del> '00		conjunction	-2175 Apr 11 j 20:23	2° <del>54</del> '01	0°-35'-28
retrograde	-2183 Jun 27 j 18:58	3° <del>52</del> '04		minimum elong	-2175 Apr 11 j 20:23	2° <del>54</del> '01	0°35'29
opposition	-2183 Sep 12 j 21:46	1° <del>51</del> '46	0°-50'-31	max. Earth dist.	-2175 Apr 11 j 17:04	2° <del>53</del> '32	20.43320 AU
min. Earth dist.	-2183 Sep 12 j 10:33	1° <del>52</del> '55	18.87026 AU	retrograde	-2175 Aug 01 j 00:00	7° <del>05</del> '08	
	-2183 Nov 11 j 13:28	30° <del>00</del> '00		opposition	-2175 Oct 15 j 15:43	5° <del>03</del> '51	0°-38'-3
direct	-2183 Nov 26 j 14:17	29° <del>54</del> '11		min. Earth dist.	-2175 Oct 15 j 18:54	5° <del>03</del> '31	18.39861 AU
	-2183 Dec 11 j 10:12	0° <del>00</del> '00		direct	-2175 Dec 29 j 04:09	3° <del>03</del> '42	
conjunction	-2182 Mar 12 j 21:40	3° <del>50</del> '21	0°-45'-25	conjunction	-2174 Apr 16 j 13:43	7° <del>10</del> '07	0°-33'-9
minimum elong	-2182 Mar 12 j 21:40	3° <del>50</del> '21	0°45'27	minimum elong	-2174 Apr 16 j 13:43	7° <del>10</del> '07	0°33'10
max. Earth dist.	-2182 Mar 13 j 08:58	3° <del>51</del> '58	20.84539 AU	max. Earth dist.	-2174 Apr 16 j 08:30	7° <del>09</del> '21	20.36357 AU
retrograde	-2182 Jul 02 j 04:11	7° <del>55</del> '49		retrograde	-2174 Aug 05 j 14:40	11° <del>22</del> '06	
opposition	-2182 Sep 17 j 04:38	5° <del>55</del> '22	0°-49'-51	opposition	-2174 Oct 20 j 02:28	9° <del>20</del> '39	0°-35'-23

Attention, astronomical year style is used: The year -2174 in astronomical counting style is the year 2175 BCE in historical counting style.

min. Earth dist.	-2174 Oct 20 j 08:08	9° $\Upsilon$ 20'02	18.32779 AU	minimum elong	-2166 May 23 j 13:19	12° $\text{C}$ 24'25	0°08'34
direct	-2173 Jan 02 j 15:04	7° $\Upsilon$ 20'03		behind sun begin	-2166 May 23 j 07:26	12° $\text{C}$ 23'33	
				behind sun end	-2166 May 23 j 19:12	12° $\text{C}$ 25'17	
conjunction	-2173 Apr 21 j 07:43	11° $\Upsilon$ 27'58	0°-30'-39	max. Earth dist.	-2166 May 22 j 17:00	12° $\text{C}$ 21'21	19.79426 AU
minimum elong	-2173 Apr 21 j 07:43	11° $\Upsilon$ 27'59	0°30'39		-2166 Jul 08 j 06:56	15° $\text{C}$	
max. Earth dist.	-2173 Apr 20 j 23:24	11° $\Upsilon$ 26'45	20.29188 AU	retrograde	-2166 Sep 10 j 11:35	16° $\text{C}$ 43'13	
retrograde	-2173 Aug 10 j 06:35	15° $\Upsilon$ 40'49			-2166 Nov 16 j 05:13	15° $\text{R}$ $\text{C}$	
opposition	-2173 Oct 24 j 13:38	13° $\Upsilon$ 39'11	0°-32'-30	opposition	-2166 Nov 23 j 15:20	14° $\text{C}$ 40'42	0°-7'-31
min. Earth dist.	-2173 Oct 24 j 20:52	13° $\Upsilon$ 38'24	18.25531 AU	min. Earth dist.	-2166 Nov 24 j 08:53	14° $\text{C}$ 38'47	17.76236 AU
direct	-2172 Jan 07 j 03:25	11° $\Upsilon$ 38'08		direct	-2165 Feb 06 j 16:16	12° $\text{C}$ 36'45	
					-2165 Apr 25 j 04:06	15° $\text{C}$	
conjunction	-2172 Apr 25 j 02:40	15° $\Upsilon$ 47'36	0°-27'-57	conjunction	-2165 May 28 j 13:46	16° $\text{C}$ 57'35	0°-5'00
minimum elong	-2172 Apr 25 j 02:40	15° $\Upsilon$ 47'36	0°27'58	minimum elong	-2165 May 28 j 13:46	16° $\text{C}$ 57'35	0°05'00
max. Earth dist.	-2172 Apr 24 j 16:56	15° $\Upsilon$ 46'10	20.21876 AU	behind sun begin	-2165 May 28 j 07:10	16° $\text{C}$ 56'36	
retrograde	-2172 Aug 13 j 22:34	20° $\Upsilon$ 01'18		behind sun end	-2165 May 28 j 20:23	16° $\text{C}$ 58'33	
opposition	-2172 Oct 28 j 01:29	17° $\Upsilon$ 59'28	0°-29'-25	max. Earth dist.	-2165 May 27 j 14:53	16° $\text{C}$ 54'06	19.73123 AU
min. Earth dist.	-2172 Oct 28 j 10:49	17° $\Upsilon$ 58'28	18.18181 AU	retrograde	-2165 Sep 15 j 07:38	21° $\text{C}$ 17'13	
direct	-2171 Jan 10 j 16:11	15° $\Upsilon$ 57'58		opposition	-2165 Nov 28 j 08:31	19° $\text{C}$ 14'41	0°-3'-28
				min. Earth dist.	-2165 Nov 29 j 03:45	19° $\text{C}$ 12'35	17.70084 AU
conjunction	-2171 Apr 29 j 22:17	20° $\Upsilon$ 09'00	0°-25'-4	direct	-2164 Feb 11 j 11:25	17° $\text{C}$ 10'25	
minimum elong	-2171 Apr 29 j 22:17	20° $\Upsilon$ 09'00	0°25'03				
max. Earth dist.	-2171 Apr 29 j 09:31	20° $\Upsilon$ 07'07	20.14519 AU	conjunction	-2164 Jun 01 j 15:14	21° $\text{C}$ 32'51	0°-1'-19
retrograde	-2171 Aug 18 j 15:10	24° $\Upsilon$ 23'35		minimum elong	-2164 Jun 01 j 15:14	21° $\text{C}$ 32'51	0°01'17
opposition	-2171 Nov 01 j 13:57	22° $\Upsilon$ 21'33	0°-26'-9	behind sun begin	-2164 Jun 01 j 08:27	21° $\text{C}$ 31'50	
min. Earth dist.	-2171 Nov 02 j 00:49	22° $\Upsilon$ 20'23	18.10826 AU	behind sun end	-2164 Jun 01 j 22:02	21° $\text{C}$ 33'51	
direct	-2170 Jan 15 j 05:58	20° $\Upsilon$ 19'34		max. Earth dist.	-2164 May 31 j 16:01	21° $\text{C}$ 29'19	19.67104 AU
				retrograde	-2164 Sep 19 j 05:53	25° $\text{C}$ 53'14	
conjunction	-2170 May 04 j 18:58	24° $\Upsilon$ 32'13	0°-22'-2	asc. node	-2164 Oct 07 j 18:00	25° $\text{C}$ 43'56	
minimum elong	-2170 May 04 j 18:59	24° $\Upsilon$ 32'13	0°22'02	opposition	-2164 Dec 02 j 02:23	23° $\text{C}$ 50'43	0°00'37
max. Earth dist.	-2170 May 04 j 05:12	24° $\Upsilon$ 30'11	20.07173 AU	min. Earth dist.	-2164 Dec 02 j 22:19	23° $\text{C}$ 48'33	17.64199 AU
retrograde	-2170 Aug 23 j 08:34	28° $\Upsilon$ 47'38		direct	-2163 Feb 15 j 07:56	21° $\text{C}$ 46'10	
opposition	-2170 Nov 06 j 03:03	26° $\Upsilon$ 45'28	0°-22'-42				
min. Earth dist.	-2170 Nov 06 j 15:36	26° $\Upsilon$ 44'07	18.03519 AU	conjunction	-2163 Jun 06 j 17:21	26° $\text{C}$ 10'07	0°02'29
direct	-2169 Jan 19 j 20:31	24° $\Upsilon$ 43'03		minimum elong	-2163 Jun 06 j 17:21	26° $\text{C}$ 10'07	0°02'32
				behind sun begin	-2163 Jun 06 j 10:34	26° $\text{C}$ 09'07	
conjunction	-2169 May 09 j 16:16	28° $\Upsilon$ 57'19	0°-18'-51	behind sun end	-2163 Jun 07 j 00:08	26° $\text{C}$ 11'08	
minimum elong	-2169 May 09 j 16:17	28° $\Upsilon$ 57'19	0°18'50	max. Earth dist.	-2163 Jun 05 j 15:41	26° $\text{C}$ 06'12	19.61345 AU
max. Earth dist.	-2169 May 08 j 23:35	28° $\Upsilon$ 54'50	19.99930 AU		-2163 Aug 21 j 06:14	0° $\text{II}$	
	-2169 May 27 j 07:49	0° $\text{C}$		retrograde	-2163 Sep 24 j 03:19	0° $\text{III}$ 31'13	
retrograde	-2169 Aug 28 j 02:00	3° $\text{C}$ 13'36			-2163 Oct 28 j 12:25	30° $\text{R}$ $\text{C}$	
opposition	-2169 Nov 10 j 16:59	1° $\text{C}$ 11'16	0°-19'-6	opposition	-2163 Dec 06 j 21:21	28° $\text{C}$ 28'42	0°04'45
min. Earth dist.	-2169 Nov 11 j 06:56	1° $\text{C}$ 09'46	17.96361 AU	min. Earth dist.	-2163 Dec 07 j 19:14	28° $\text{C}$ 26'19	17.58580 AU
	-2169 Dec 10 j 01:38	30° $\text{R}$ $\Upsilon$		direct	-2162 Feb 20 j 04:23	26° $\text{C}$ 23'50	
direct	-2168 Jan 24 j 12:04	29° $\Upsilon$ 08'25			-2162 May 29 j 10:11	0° $\text{II}$	
	-2168 Mar 09 j 06:40	0° $\text{C}$					
conjunction	-2168 May 13 j 14:23	3° $\text{C}$ 24'19	0°-15'-32	conjunction	-2162 Jun 11 j 20:14	0° $\text{II}$ 49'16	0°06'12
minimum elong	-2168 May 13 j 14:23	3° $\text{C}$ 24'19	0°15'31	minimum elong	-2162 Jun 11 j 20:14	0° $\text{II}$ 49'16	0°06'15
behind sun begin	-2168 May 13 j 13:17	3° $\text{C}$ 24'10		behind sun begin	-2162 Jun 11 j 13:50	0° $\text{II}$ 48'18	
behind sun end	-2168 May 13 j 15:29	3° $\text{C}$ 24'29		behind sun end	-2162 Jun 12 j 02:39	0° $\text{II}$ 50'14	
max. Earth dist.	-2168 May 12 j 21:12	3° $\text{C}$ 21'45	19.92854 AU	max. Earth dist.	-2162 Jun 10 j 18:01	0° $\text{II}$ 45'14	19.55848 AU
retrograde	-2168 Aug 31 j 20:41	7° $\text{C}$ 41'28		retrograde	-2162 Sep 29 j 03:32	5° $\text{II}$ 10'59	
opposition	-2168 Nov 14 j 07:40	5° $\text{C}$ 39'02	0°-15'-21	opposition	-2162 Dec 11 j 17:02	3° $\text{II}$ 08'28	0°08'53
min. Earth dist.	-2168 Nov 14 j 22:49	5° $\text{C}$ 37'24	17.89391 AU	min. Earth dist.	-2162 Dec 12 j 15:14	3° $\text{II}$ 06'03	17.53216 AU
direct	-2167 Jan 28 j 04:22	3° $\text{C}$ 35'47		direct	-2161 Feb 25 j 03:22	1° $\text{II}$ 03'18	
conjunction	-2167 May 18 j 13:20	7° $\text{C}$ 53'20	0°-12'-7	conjunction	-2161 Jun 16 j 23:34	5° $\text{II}$ 30'05	0°09'53
minimum elong	-2167 May 18 j 13:20	7° $\text{C}$ 53'20	0°12'07	minimum elong	-2161 Jun 16 j 23:34	5° $\text{II}$ 30'05	0°09'56
behind sun begin	-2167 May 18 j 08:51	7° $\text{C}$ 52'41		behind sun begin	-2161 Jun 16 j 18:07	5° $\text{II}$ 29'16	
behind sun end	-2167 May 18 j 17:50	7° $\text{C}$ 54'00		behind sun end	-2161 Jun 17 j 05:01	5° $\text{II}$ 30'54	
max. Earth dist.	-2167 May 17 j 17:22	7° $\text{C}$ 50'20	19.86007 AU	max. Earth dist.	-2161 Jun 15 j 19:30	5° $\text{II}$ 25'45	19.50621 AU
retrograde	-2167 Sep 05 j 15:19	12° $\text{C}$ 11'20		retrograde	-2161 Oct 04 j 01:23	9° $\text{II}$ 52'22	
opposition	-2167 Nov 18 j 23:03	10° $\text{C}$ 08'49	0°-11'-29	opposition	-2161 Dec 16 j 13:39	7° $\text{II}$ 49'50	0°12'59
min. Earth dist.	-2167 Nov 19 j 15:42	10° $\text{C}$ 07'01	17.82681 AU	min. Earth dist.	-2161 Dec 17 j 13:42	7° $\text{II}$ 47'12	17.48156 AU
direct	-2166 Feb 01 j 21:51	8° $\text{C}$ 05'12		direct	-2160 Mar 01 j 00:47	5° $\text{II}$ 44'21	
				max. Earth dist.	-2160 Jun 19 j 22:39	10° $\text{II}$ 07'58	19.45723 AU
conjunction	-2166 May 23 j 13:19	12° $\text{C}$ 24'25	0°-8'-36				

Attention, astronomical year style is used: The year -2160 in astronomical counting style is the year 2161 BCE in historical counting style.

conjunction	-2160 Jun 21 j 03:16	10°II12'24	0°13'32	max. Earth dist.	-2152 Jul 29 j 10:20	18°☾19'05	19.24733 AU
minimum elong	-2160 Jun 21 j 03:16	10°II12'24	0°13'34				
behind sun begin	-2160 Jun 20 j 23:41	10°II11'51		conjunction	-2152 Jul 30 j 13:38	18°☾23'24	0°37'46
behind sun end	-2160 Jun 21 j 06:51	10°II12'56		minimum elong	-2152 Jul 30 j 13:38	18°☾23'24	0°37'49
retrograde	-2160 Oct 08 j 02:36	14°II35'10		retrograde	-2152 Nov 15 j 02:50	22°☾47'23	
opposition	-2160 Dec 20 j 10:52	12°II32'35	0°17'01	opposition	-2151 Jan 27 j 10:56	20°☾45'03	0°43'19
min. Earth dist.	-2160 Dec 21 j 10:49	12°II29'58	17.43428 AU	min. Earth dist.	-2151 Jan 28 j 09:36	20°☾42'35	17.24833 AU
direct	-2159 Mar 06 j 01:54	10°II26'48		direct	-2151 Apr 14 j 00:22	18°☾38'13	
max. Earth dist.	-2159 Jun 25 j 01:53	14°II51'24	19.41178 AU				
				conjunction	-2151 Aug 04 j 17:30	23°☾11'58	0°39'51
conjunction	-2159 Jun 26 j 07:28	14°II56'00	0°17'06	minimum elong	-2151 Aug 04 j 17:30	23°☾11'58	0°39'54
minimum elong	-2159 Jun 26 j 07:28	14°II55'59	0°17'09	max. Earth dist.	-2151 Aug 03 j 16:28	23°☾08'00	19.24998 AU
retrograde	-2159 Oct 13 j 00:34	19°II19'09		retrograde	-2151 Nov 20 j 03:47	27°☾35'48	
opposition	-2159 Dec 25 j 08:50	17°II16'33	0°20'57	opposition	-2150 Feb 01 j 13:10	25°☾33'38	0°45'29
min. Earth dist.	-2159 Dec 26 j 10:25	17°II13'44	17.39099 AU	min. Earth dist.	-2150 Feb 02 j 11:16	25°☾31'14	17.25396 AU
direct	-2158 Mar 11 j 01:04	15°II10'27		direct	-2150 Apr 19 j 04:26	23°☾26'56	
max. Earth dist.	-2158 Jun 30 j 05:43	19°II35'59	19.37073 AU				
				conjunction	-2150 Aug 09 j 20:53	28°☾00'37	0°41'39
conjunction	-2158 Jul 01 j 11:50	19°II40'41	0°20'34	minimum elong	-2150 Aug 09 j 20:53	28°☾00'37	0°41'41
minimum elong	-2158 Jul 01 j 11:50	19°II40'41	0°20'37	max. Earth dist.	-2150 Aug 08 j 19:59	27°☾56'40	19.25862 AU
retrograde	-2158 Oct 18 j 01:45	24°II04'11			-2150 Sep 11 j 07:44	0°♁	
opposition	-2158 Dec 30 j 07:26	22°II01'31	0°24'46	retrograde	-2150 Nov 25 j 05:09	2°♁24'14	
min. Earth dist.	-2158 Dec 31 j 08:22	21°II58'47	17.35231 AU	opposition	-2149 Feb 06 j 15:46	0°♁22'14	0°47'19
direct	-2157 Mar 16 j 04:01	19°II55'11		min. Earth dist.	-2149 Feb 07 j 12:48	0°♁19'58	17.26554 AU
max. Earth dist.	-2157 Jul 05 j 10:22	24°II21'38	19.33451 AU		-2149 Feb 15 j 05:51	30°R☾	
				direct	-2149 Apr 24 j 08:42	28°☾15'40	
conjunction	-2157 Jul 06 j 16:11	24°II26'18	0°23'54		-2149 Jun 28 j 02:10	0°♁	
minimum elong	-2157 Jul 06 j 16:11	24°II26'18	0°23'56				
retrograde	-2157 Oct 22 j 23:58	28°II50'02		conjunction	-2149 Aug 14 j 23:49	2°♁49'08	0°43'09
opposition	-2156 Jan 04 j 06:47	26°II47'21	0°28'24	minimum elong	-2149 Aug 14 j 23:49	2°♁49'08	0°43'12
min. Earth dist.	-2156 Jan 05 j 08:48	26°II44'30	17.31891 AU	max. Earth dist.	-2149 Aug 14 j 01:12	2°♁45'33	19.27288 AU
direct	-2156 Mar 20 j 04:53	24°II40'46		retrograde	-2149 Nov 30 j 06:35	7°♁12'26	
				opposition	-2148 Feb 11 j 18:35	5°♁10'36	0°48'50
conjunction	-2156 Jul 10 j 20:37	29°II12'39	0°27'04	min. Earth dist.	-2148 Feb 12 j 14:27	5°♁08'27	17.28229 AU
minimum elong	-2156 Jul 10 j 20:36	29°II12'39	0°27'08	direct	-2148 Apr 28 j 13:08	3°♁04'13	
max. Earth dist.	-2156 Jul 09 j 14:24	29°II07'55	19.30401 AU	max. Earth dist.	-2148 Aug 18 j 04:08	7°♁33'45	19.29216 AU
	-2156 Jul 23 j 11:36	0°☾					
retrograde	-2156 Oct 27 j 01:12	3°☾36'34		conjunction	-2148 Aug 19 j 02:17	7°♁37'16	0°44'21
opposition	-2155 Jan 08 j 06:24	1°☾33'52	0°31'51	minimum elong	-2148 Aug 19 j 02:17	7°♁37'16	0°44'24
min. Earth dist.	-2155 Jan 09 j 07:23	1°☾31'08	17.29145 AU	retrograde	-2148 Dec 04 j 07:06	12°♁00'10	
	-2155 Feb 17 j 12:36	30°RII		opposition	-2147 Feb 15 j 21:26	9°♁58'28	0°50'00
direct	-2155 Mar 25 j 09:15	29°II27'07		min. Earth dist.	-2147 Feb 16 j 16:32	9°♁56'25	17.30406 AU
	-2155 Apr 29 j 18:04	0°☾		direct	-2147 May 03 j 17:22	7°♁52'15	
max. Earth dist.	-2155 Jul 14 j 20:13	3°☾55'05	19.27960 AU	max. Earth dist.	-2147 Aug 23 j 08:08	12°♁21'35	19.31629 AU
conjunction	-2155 Jul 16 j 01:12	3°☾59'38	0°30'04	conjunction	-2147 Aug 24 j 04:14	12°♁24'46	0°45'15
minimum elong	-2155 Jul 16 j 01:12	3°☾59'38	0°30'07	minimum elong	-2147 Aug 24 j 04:14	12°♁24'46	0°45'16
retrograde	-2155 Nov 01 j 00:07	8°☾23'40			-2147 Oct 06 j 15:00	15°♁	
opposition	-2154 Jan 13 j 06:54	6°☾21'00	0°35'06	retrograde	-2147 Dec 09 j 07:49	16°♁47'11	
min. Earth dist.	-2154 Jan 14 j 08:22	6°☾18'12	17.27035 AU		-2146 Feb 15 j 10:20	15°R♁	
direct	-2154 Mar 30 j 11:31	4°☾14'07		opposition	-2146 Feb 21 j 00:26	14°♁45'37	0°50'49
max. Earth dist.	-2154 Jul 20 j 00:13	8°☾42'32	19.26191 AU	min. Earth dist.	-2146 Feb 21 j 17:43	14°♁43'45	17.33034 AU
				direct	-2146 May 08 j 22:37	12°♁39'36	
conjunction	-2154 Jul 21 j 05:25	8°☾47'08	0°32'52		-2146 Jul 24 j 03:59	15°♁	
minimum elong	-2154 Jul 21 j 05:25	8°☾47'08	0°32'55	max. Earth dist.	-2146 Aug 28 j 10:24	17°♁08'23	19.34485 AU
retrograde	-2154 Nov 06 j 01:26	13°☾11'13					
opposition	-2153 Jan 18 j 07:46	11°☾08'37	0°38'06	conjunction	-2146 Aug 29 j 05:18	17°♁11'22	0°45'49
min. Earth dist.	-2153 Jan 19 j 07:50	11°☾05'59	17.25615 AU	minimum elong	-2146 Aug 29 j 05:18	17°♁11'22	0°45'51
direct	-2153 Apr 04 j 16:23	9°☾01'41		retrograde	-2146 Dec 14 j 06:53	21°♁33'15	
max. Earth dist.	-2153 Jul 25 j 06:32	13°☾30'48	19.25115 AU	opposition	-2145 Feb 26 j 03:29	19°♁31'46	0°51'16
				min. Earth dist.	-2145 Feb 26 j 19:59	19°♁30'00	17.36119 AU
conjunction	-2153 Jul 26 j 09:44	13°☾35'05	0°35'26	direct	-2145 May 14 j 02:52	17°♁25'57	
minimum elong	-2153 Jul 26 j 09:44	13°☾35'05	0°35'29				
retrograde	-2153 Nov 11 j 01:27	17°☾59'09		conjunction	-2145 Sep 03 j 05:43	21°♁56'51	0°46'04
opposition	-2152 Jan 23 j 09:11	15°☾56'40	0°40'51	minimum elong	-2145 Sep 03 j 05:42	21°♁56'51	0°46'05
min. Earth dist.	-2152 Jan 24 j 09:06	15°☾54'03	17.24885 AU	max. Earth dist.	-2145 Sep 02 j 12:43	21°♁54'10	19.37799 AU
direct	-2152 Apr 08 j 19:40	13°☾49'45		retrograde	-2145 Dec 19 j 06:17	26°♁18'05	

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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.

opposition	-2144 Mar 02 j 06:03	24°♈16'41	0°51'22	retrograde	-2136 Jan 25 j 02:50	3°♌17'15	
min. Earth dist.	-2144 Mar 02 j 20:11	24°♈15'11	17.39640 AU	opposition	-2136 Apr 09 j 14:25	1°♌16'49	0°40'28
direct	-2144 May 18 j 08:42	22°♈11'06		min. Earth dist.	-2136 Apr 09 j 11:47	1°♌17'05	17.83631 AU
					-2136 May 12 j 21:42	30°♌	
conjunction	-2144 Sep 07 j 05:16	26°♈40'58	0°46'00	direct	-2136 Jun 25 j 21:00	29°♌	14'02
minimum elong	-2144 Sep 07 j 05:16	26°♈40'58	0°46'02		-2136 Aug 07 j 08:39	0°♌	
max. Earth dist.	-2144 Sep 06 j 14:12	26°♈38'36	19.41544 AU				
	-2144 Nov 05 j 13:59	0°♌		conjunction	-2136 Oct 13 j 15:44	3°♌32'43	0°35'15
retrograde	-2144 Dec 23 j 03:36	1°♌01'31		minimum elong	-2136 Oct 13 j 15:44	3°♌32'43	0°35'16
	-2143 Feb 10 j 21:41	30°♌		max. Earth dist.	-2136 Oct 13 j 19:26	3°♌33'17	19.87094 AU
opposition	-2143 Mar 07 j 08:38	29°♌00'11	0°51'06	retrograde	-2135 Jan 28 j 20:29	7°♌46'42	
min. Earth dist.	-2143 Mar 07 j 21:58	28°♌58'46	17.43609 AU	opposition	-2135 Apr 14 j 13:17	5°♌46'27	0°37'53
direct	-2143 May 23 j 12:23	26°♌54'48		min. Earth dist.	-2135 Apr 14 j 09:21	5°♌46'52	17.90561 AU
	-2143 Aug 20 j 17:32	0°♌		direct	-2135 Jun 30 j 18:39	3°♌44'09	
conjunction	-2143 Sep 12 j 03:46	1°♌23'32	0°45'37	conjunction	-2135 Oct 18 j 06:55	8°♌01'12	0°32'50
minimum elong	-2143 Sep 12 j 03:46	1°♌23'32	0°45'39	minimum elong	-2135 Oct 18 j 06:55	8°♌01'12	0°32'49
max. Earth dist.	-2143 Sep 11 j 14:33	1°♌21'27	19.45747 AU	max. Earth dist.	-2135 Oct 18 j 11:34	8°♌01'55	19.94082 AU
retrograde	-2143 Dec 28 j 01:55	5°♌43'20		retrograde	-2134 Feb 02 j 14:50	12°♌14'21	
opposition	-2142 Mar 12 j 10:47	3°♌42'04	0°50'30	opposition	-2134 Apr 19 j 11:29	10°♌14'15	0°35'04
min. Earth dist.	-2142 Mar 12 j 21:09	3°♌40'58	17.48031 AU	min. Earth dist.	-2134 Apr 19 j 05:05	10°♌14'55	17.97590 AU
direct	-2142 May 28 j 17:22	1°♌36'56		direct	-2134 Jul 05 j 16:31	8°♌12'23	
conjunction	-2142 Sep 17 j 01:26	6°♌04'25	0°44'57	conjunction	-2134 Oct 22 j 21:31	12°♌27'50	0°30'14
minimum elong	-2142 Sep 17 j 01:26	6°♌04'25	0°44'58	minimum elong	-2134 Oct 22 j 21:31	12°♌27'50	0°30'14
max. Earth dist.	-2142 Sep 16 j 14:59	6°♌02'46	19.50406 AU	max. Earth dist.	-2134 Oct 23 j 05:10	12°♌29'00	20.01123 AU
retrograde	-2141 Jan 01 j 22:07	10°♌23'25		retrograde	-2133 Feb 07 j 07:28	16°♌40'07	
opposition	-2141 Mar 17 j 12:42	8°♌22'14	0°49'34	opposition	-2133 Apr 24 j 08:55	14°♌40'09	0°32'04
min. Earth dist.	-2141 Mar 17 j 21:56	8°♌21'15	17.52933 AU	min. Earth dist.	-2133 Apr 24 j 01:07	14°♌40'57	18.04628 AU
direct	-2141 Jun 02 j 19:06	6°♌17'23		direct	-2133 Jul 10 j 13:21	12°♌38'43	
conjunction	-2141 Sep 21 j 21:57	10°♌43'31	0°43'59	conjunction	-2133 Oct 27 j 11:06	16°♌52'32	0°27'28
minimum elong	-2141 Sep 21 j 21:57	10°♌43'31	0°44'00	minimum elong	-2133 Oct 27 j 11:06	16°♌52'32	0°27'27
max. Earth dist.	-2141 Sep 21 j 13:15	10°♌42'09	19.55552 AU	max. Earth dist.	-2133 Oct 27 j 19:25	16°♌53'48	20.08150 AU
retrograde	-2140 Jan 06 j 19:52	15°♌01'43		retrograde	-2132 Feb 11 j 23:52	21°♌03'57	
opposition	-2140 Mar 21 j 13:58	13°♌00'38	0°48'20	opposition	-2132 Apr 28 j 05:37	19°♌04'05	0°28'53
min. Earth dist.	-2140 Mar 21 j 19:55	13°♌00'00	17.58303 AU	min. Earth dist.	-2132 Apr 27 j 19:52	19°♌05'05	18.11634 AU
direct	-2140 Jun 06 j 22:09	10°♌56'07		direct	-2132 Jul 14 j 09:10	17°♌03'03	
conjunction	-2140 Sep 25 j 17:46	15°♌20'51	0°42'44	conjunction	-2132 Oct 30 j 23:55	21°♌15'15	0°24'33
minimum elong	-2140 Sep 25 j 17:46	15°♌20'51	0°42'44	minimum elong	-2132 Oct 30 j 23:55	21°♌15'15	0°24'32
max. Earth dist.	-2140 Sep 25 j 12:12	15°♌19'59	19.61149 AU	max. Earth dist.	-2132 Oct 31 j 11:00	21°♌16'56	20.15112 AU
retrograde	-2139 Jan 10 j 15:01	19°♌38'14		retrograde	-2131 Feb 15 j 15:20	25°♌25'47	
opposition	-2139 Mar 26 j 14:53	17°♌37'17	0°46'47	opposition	-2131 May 03 j 01:32	23°♌26'00	0°25'34
min. Earth dist.	-2139 Mar 26 j 19:34	17°♌36'48	17.64113 AU	min. Earth dist.	-2131 May 02 j 14:11	23°♌27'10	18.18545 AU
direct	-2139 Jun 11 j 21:48	15°♌33'10		direct	-2131 Jul 19 j 05:03	21°♌25'22	
conjunction	-2139 Sep 30 j 12:32	19°♌56'27	0°41'14	conjunction	-2131 Nov 04 j 11:45	25°♌35'55	0°21'31
minimum elong	-2139 Sep 30 j 12:32	19°♌56'27	0°41'14	minimum elong	-2131 Nov 04 j 11:45	25°♌35'55	0°21'31
max. Earth dist.	-2139 Sep 30 j 08:28	19°♌55'49	19.67178 AU	max. Earth dist.	-2131 Nov 04 j 23:34	25°♌37'42	20.21986 AU
retrograde	-2138 Jan 15 j 12:24	24°♌12'59		retrograde	-2130 Feb 20 j 05:29	29°♌45'36	
opposition	-2138 Mar 31 j 15:17	22°♌12'12	0°44'57	opposition	-2130 May 07 j 20:44	27°♌45'52	0°22'08
min. Earth dist.	-2138 Mar 31 j 16:43	22°♌12'03	17.70325 AU	min. Earth dist.	-2130 May 07 j 07:44	27°♌47'11	18.25382 AU
direct	-2138 Jun 16 j 22:58	20°♌08'30		direct	-2130 Jul 23 j 22:44	25°♌45'34	
conjunction	-2138 Oct 05 j 06:26	24°♌30'17	0°39'28	conjunction	-2130 Nov 08 j 22:47	29°♌54'29	0°18'24
minimum elong	-2138 Oct 05 j 06:26	24°♌30'17	0°39'28	minimum elong	-2130 Nov 08 j 22:47	29°♌54'29	0°18'22
max. Earth dist.	-2138 Oct 05 j 05:45	24°♌30'11	19.73561 AU	max. Earth dist.	-2130 Nov 09 j 13:24	29°♌56'41	20.28777 AU
retrograde	-2137 Jan 20 j 06:53	28°♌46'00			-2130 Nov 10 j 11:15	0°♌	
opposition	-2137 Apr 05 j 15:17	26°♌45'23	0°42'50	retrograde	-2129 Feb 24 j 19:31	4°♌03'18	
min. Earth dist.	-2137 Apr 05 j 15:26	26°♌45'23	17.76853 AU	opposition	-2129 May 12 j 14:59	2°♌03'37	0°18'36
direct	-2137 Jun 21 j 21:24	24°♌42'09		min. Earth dist.	-2129 May 12 j 00:05	2°♌05'08	18.32126 AU
				direct	-2129 Jul 28 j 17:00	0°♌03'40	
conjunction	-2137 Oct 09 j 23:25	29°♌02'23	0°37'28	conjunction	-2129 Nov 13 j 08:54	4°♌10'59	0°15'12
minimum elong	-2137 Oct 09 j 23:25	29°♌02'23	0°37'28	minimum elong	-2129 Nov 13 j 08:54	4°♌10'59	0°15'10
max. Earth dist.	-2137 Oct 09 j 23:55	29°♌02'28	19.80229 AU	behind sun begin	-2129 Nov 13 j 06:26	4°♌10'38	
	-2137 Oct 25 j 13:23	0°♌					

Attention, astronomical year style is used: The year -2129 in astronomical counting style is the year 2130 BCE in historical counting style.

behind sun end	-2129 Nov 13 j 11:22	4°M11'21		retrograde	-2122 Mar 26 j 03:14	3°Z16'35	
max. Earth dist.	-2129 Nov 14 j 00:20	4°M13'18	20.35484 AU	min. Earth dist.	-2122 Jun 11 j 00:12	1°Z19'54	18.76688 AU
retrograde	-2128 Feb 29 j 07:49	8°M18'59		opposition	-2122 Jun 12 j 00:34	1°Z17'28	0°-6'-58
opposition	-2128 May 16 j 08:18	6°M19'19	0°15'01		-2122 Jul 17 j 05:08	30°RM	
min. Earth dist.	-2128 May 15 j 16:01	6°M20'58	18.38814 AU	direct	-2122 Aug 27 j 10:41	29°M19'57	
direct	-2128 Aug 01 j 08:09	4°M19'42			-2122 Oct 06 j 07:55	0°Z	
conjunction	-2128 Nov 16 j 18:24	8°M25'30	0°11'57	conjunction	-2122 Dec 11 j 14:12	3°Z17'54	0°-7'-57
minimum elong	-2128 Nov 16 j 18:24	8°M25'30	0°11'54	minimum elong	-2122 Dec 11 j 14:12	3°Z17'54	0°08'00
behind sun begin	-2128 Nov 16 j 13:47	8°M24'49		behind sun begin	-2122 Dec 11 j 08:20	3°Z17'04	
behind sun end	-2128 Nov 16 j 23:01	8°M26'10		behind sun end	-2122 Dec 11 j 20:03	3°Z18'45	
max. Earth dist.	-2128 Nov 17 j 12:31	8°M28'12	20.42140 AU	max. Earth dist.	-2122 Dec 12 j 16:20	3°Z21'44	20.79454 AU
retrograde	-2127 Mar 04 j 20:19	12°M32'41		retrograde	-2121 Mar 30 j 14:04	7°Z21'18	
min. Earth dist.	-2127 May 20 j 06:24	10°M34'57	18.45438 AU	min. Earth dist.	-2121 Jun 15 j 10:55	5°Z24'51	18.82155 AU
opposition	-2127 May 21 j 00:54	10°M33'05	0°11'22	opposition	-2121 Jun 16 j 12:46	5°Z22'16	0°-10'-33
direct	-2127 Aug 06 j 00:01	8°M33'48		direct	-2121 Aug 31 j 21:58	3°Z25'04	
conjunction	-2127 Nov 21 j 02:56	12°M38'07	0°08'40	conjunction	-2121 Dec 15 j 20:01	7°Z21'58	0°-11'-9
minimum elong	-2127 Nov 21 j 02:55	12°M38'07	0°08'38	minimum elong	-2121 Dec 15 j 20:01	7°Z21'58	0°11'13
behind sun begin	-2127 Nov 20 j 21:13	12°M37'17		behind sun begin	-2121 Dec 15 j 15:08	7°Z21'16	
behind sun end	-2127 Nov 21 j 08:38	12°M38'57		behind sun end	-2121 Dec 16 j 00:55	7°Z22'39	
max. Earth dist.	-2127 Nov 21 j 21:57	12°M40'57	20.48732 AU	max. Earth dist.	-2121 Dec 16 j 22:09	7°Z25'46	20.84713 AU
retrograde	-2126 Jan 02 j 06:20	15°M		retrograde	-2120 Apr 02 j 23:02	11°Z24'52	
retrograde	-2126 Mar 09 j 07:53	16°M44'34		min. Earth dist.	-2120 Jun 18 j 23:04	9°Z28'26	18.87213 AU
opposition	-2126 May 25 j 16:49	14°M45'02	0°07'41	opposition	-2120 Jun 20 j 00:26	9°Z25'54	0°-14'-3
min. Earth dist.	-2126 May 24 j 21:08	14°M47'01	18.52009 AU	direct	-2120 Sep 04 j 05:42	7°Z28'58	
direct	-2126 Aug 10 j 13:02	12°M46'07		conjunction	-2120 Dec 19 j 01:43	11°Z24'53	0°-14'-16
conjunction	-2126 Nov 25 j 11:06	16°M49'01	0°05'21	minimum elong	-2120 Dec 19 j 01:43	11°Z24'53	0°14'20
minimum elong	-2126 Nov 25 j 11:06	16°M49'01	0°05'19	behind sun begin	-2120 Dec 18 j 22:32	11°Z24'26	
behind sun begin	-2126 Nov 25 j 04:47	16°M48'06		behind sun end	-2120 Dec 19 j 04:54	11°Z25'20	
behind sun end	-2126 Nov 25 j 17:25	16°M49'56		max. Earth dist.	-2120 Dec 20 j 04:54	11°Z28'50	20.89543 AU
max. Earth dist.	-2126 Nov 26 j 08:32	16°M52'12	20.55253 AU	retrograde	-2119 Apr 07 j 09:13	15°Z27'20	
retrograde	-2125 Mar 13 j 19:23	20°M54'45		min. Earth dist.	-2119 Jun 23 j 08:51	13°Z31'04	18.91804 AU
min. Earth dist.	-2125 May 29 j 09:53	18°M57'31	18.58468 AU	opposition	-2119 Jun 24 j 11:28	13°Z28'25	0°-17'-29
opposition	-2125 May 30 j 07:38	18°M55'20	0°04'00	direct	-2119 Sep 08 j 16:01	11°Z31'41	
direct	-2125 Aug 15 j 02:29	16°M56'46		conjunction	-2119 Dec 23 j 06:57	15°Z26'41	0°-17'-19
conjunction	-2125 Nov 29 j 18:31	20°M58'19	0°02'01	minimum elong	-2119 Dec 23 j 06:56	15°Z26'41	0°17'23
minimum elong	-2125 Nov 29 j 18:31	20°M58'19	0°01'59	max. Earth dist.	-2119 Dec 24 j 09:50	15°Z30'35	20.93882 AU
behind sun begin	-2125 Nov 29 j 11:59	20°M57'23		retrograde	-2118 Apr 11 j 17:34	19°Z28'44	
behind sun end	-2125 Nov 30 j 01:03	20°M59'16		opposition	-2118 Jun 28 j 22:03	17°Z29'48	0°-20'-48
max. Earth dist.	-2125 Nov 30 j 16:35	21°M01'35	20.61639 AU	min. Earth dist.	-2118 Jun 27 j 20:16	17°Z32'23	18.95901 AU
retrograde	-2124 Mar 17 j 06:11	25°M03'25		direct	-2118 Sep 12 j 22:55	15°Z33'15	
opposition	-2124 Jun 02 j 21:59	23°M04'05	0°00'19	conjunction	-2118 Dec 27 j 12:09	19°Z27'24	0°-20'-16
min. Earth dist.	-2124 Jun 01 j 23:36	23°M06'20	18.64779 AU	minimum elong	-2118 Dec 27 j 12:08	19°Z27'24	0°20'20
desc. node	-2124 Jul 04 j 09:35	21°M53'17		max. Earth dist.	-2118 Dec 28 j 15:45	19°Z31'24	20.97728 AU
direct	-2124 Aug 18 j 13:24	21°M05'53		retrograde	-2117 Apr 16 j 02:33	23°Z29'03	
conjunction	-2124 Dec 03 j 01:30	25°M06'10	0°-1'-23	min. Earth dist.	-2117 Jul 02 j 04:49	21°Z32'47	18.99495 AU
minimum elong	-2124 Dec 03 j 01:28	25°M06'10	0°01'26	opposition	-2117 Jul 03 j 07:36	21°Z30'07	0°-24'00
behind sun begin	-2124 Dec 02 j 18:56	25°M05'14		direct	-2117 Sep 17 j 07:59	19°Z33'41	
behind sun end	-2124 Dec 03 j 08:00	25°M07'06		conjunction	-2117 Dec 31 j 16:52	23°Z27'04	0°-23'-6
max. Earth dist.	-2124 Dec 04 j 01:36	25°M09'44	20.67846 AU	minimum elong	-2117 Dec 31 j 16:52	23°Z27'04	0°23'10
retrograde	-2123 Mar 21 j 17:14	29°M10'39		max. Earth dist.	-2116 Jan 01 j 20:05	23°Z31'00	21.01079 AU
min. Earth dist.	-2123 Jun 06 j 11:15	27°M13'52	18.70866 AU	retrograde	-2116 Apr 19 j 10:12	27°Z28'24	
opposition	-2123 Jun 07 j 11:33	27°M11'26	0°-3'-20	opposition	-2116 Jul 06 j 16:53	25°Z29'24	0°-27'-4
direct	-2123 Aug 23 j 01:40	25°M13'35		min. Earth dist.	-2116 Jul 05 j 15:02	25°Z31'58	19.02627 AU
conjunction	-2123 Dec 07 j 07:58	29°M12'40	0°-4'-42	direct	-2116 Sep 20 j 13:52	23°Z33'04	
minimum elong	-2123 Dec 07 j 07:57	29°M12'40	0°04'46	conjunction	-2115 Jan 03 j 21:23	27°Z25'46	0°-25'-49
behind sun begin	-2123 Dec 07 j 01:34	29°M11'45		minimum elong	-2115 Jan 03 j 21:23	27°Z25'46	0°25'53
behind sun end	-2123 Dec 07 j 14:21	29°M13'35		max. Earth dist.	-2115 Jan 05 j 01:23	27°Z29'48	21.03994 AU
max. Earth dist.	-2123 Dec 08 j 08:32	29°M16'16	20.73801 AU	retrograde	-2115 Feb 21 j 08:12	0°Z	
	-2123 Dec 20 j 19:35	0°Z			-2115 Apr 23 j 18:33	1°Z26'49	
					-2115 Jun 27 j 10:12	30°RM	

Attention, astronomical year style is used: The year -2115 in astronomical counting style is the year 2116 BCE in historical counting style.

min. Earth dist.	-2115 Jul 09 j 22:30	29° $\overline{23}^{\circ}30'27$	19.05332 AU	opposition	-2107 Aug 12 j 09:15	1° $\approx$ 02'53	0°-47'-5
opposition	-2115 Jul 11 j 01:29	29° $\overline{27}^{\circ}27'46$	0°-29'-59		-2107 Sep 08 j 21:29	30° $\overline{R}^{\circ}$	
direct	-2115 Sep 24 j 21:26	27° $\overline{27}^{\circ}31'31$		direct	-2107 Oct 26 j 12:01	29° $\overline{2}^{\circ}07'01$	
	-2115 Dec 14 j 06:54	0° $\overline{2}$			-2107 Dec 11 j 11:07	0° $\approx$	
conjunction	-2114 Jan 08 j 01:47	1° $\overline{23}^{\circ}38$	0°-28'-23	conjunction	-2106 Feb 08 j 17:19	2° $\approx$ 58'15	0°-43'-13
minimum elong	-2114 Jan 08 j 01:47	1° $\overline{23}^{\circ}38$	0°28'26	minimum elong	-2106 Feb 08 j 17:19	2° $\approx$ 58'15	0°43'16
max. Earth dist.	-2114 Jan 09 j 05:24	1° $\overline{27}^{\circ}36$	21.06494 AU	max. Earth dist.	-2106 Feb 09 j 17:03	3° $\approx$ 01'37	21.11941 AU
retrograde	-2114 Apr 28 j 01:38	5° $\overline{24}^{\circ}29$		retrograde	-2106 May 30 j 17:00	6° $\approx$ 59'48	
min. Earth dist.	-2114 Jul 14 j 07:39	3° $\overline{27}^{\circ}58$	19.07652 AU	opposition	-2106 Aug 16 j 15:26	5° $\approx$ 00'32	0°-48'-19
opposition	-2114 Jul 15 j 09:37	3° $\overline{25}^{\circ}22$	0°-32'-45	min. Earth dist.	-2106 Aug 15 j 18:46	5° $\approx$ 02'37	19.11270 AU
direct	-2114 Sep 29 j 02:25	1° $\overline{29}^{\circ}12$		direct	-2106 Oct 30 j 14:58	3° $\approx$ 04'35	
conjunction	-2113 Jan 12 j 06:15	5° $\overline{20}^{\circ}52$	0°-30'-49	conjunction	-2105 Feb 12 j 23:52	6° $\approx$ 56'07	0°-44'-13
minimum elong	-2113 Jan 12 j 06:15	5° $\overline{20}^{\circ}52$	0°30'53	minimum elong	-2105 Feb 12 j 23:52	6° $\approx$ 56'07	0°44'16
max. Earth dist.	-2113 Jan 13 j 10:27	5° $\overline{24}^{\circ}54$	21.08626 AU	max. Earth dist.	-2105 Feb 13 j 22:33	6° $\approx$ 59'21	21.10363 AU
retrograde	-2113 May 02 j 10:19	9° $\overline{21}^{\circ}34$		retrograde	-2105 Jun 04 j 02:12	10° $\approx$ 57'58	
opposition	-2113 Jul 19 j 17:11	7° $\overline{22}^{\circ}25$	0°-35'-20	opposition	-2105 Aug 20 j 21:31	8° $\approx$ 58'37	0°-49'-20
min. Earth dist.	-2113 Jul 18 j 14:14	7° $\overline{25}^{\circ}07$	19.09594 AU	min. Earth dist.	-2105 Aug 20 j 01:13	9° $\approx$ 00'40	19.09387 AU
direct	-2113 Oct 03 j 08:27	5° $\overline{26}^{\circ}19$		direct	-2105 Nov 03 j 20:59	7° $\approx$ 02'30	
conjunction	-2112 Jan 16 j 10:31	9° $\overline{17}^{\circ}37$	0°-33'-6	conjunction	-2104 Feb 17 j 06:32	10° $\approx$ 54'24	0°-45'-1
minimum elong	-2112 Jan 16 j 10:31	9° $\overline{17}^{\circ}37$	0°33'09	minimum elong	-2104 Feb 17 j 06:32	10° $\approx$ 54'24	0°45'05
max. Earth dist.	-2112 Jan 17 j 14:10	9° $\overline{21}^{\circ}34$	21.10372 AU	max. Earth dist.	-2104 Feb 18 j 03:18	10° $\approx$ 57'21	21.08187 AU
retrograde	-2112 May 05 j 16:47	13° $\overline{18}^{\circ}16$		retrograde	-2104 Jun 07 j 09:28	14° $\approx$ 56'36	
min. Earth dist.	-2112 Jul 21 j 22:47	11° $\overline{21}^{\circ}41$	19.11160 AU	min. Earth dist.	-2104 Aug 23 j 09:48	12° $\approx$ 58'55	19.06930 AU
opposition	-2112 Jul 23 j 00:32	11° $\overline{19}^{\circ}06$	0°-37'-46	opposition	-2104 Aug 24 j 03:43	12° $\approx$ 57'06	0°-50'-6
direct	-2112 Oct 06 j 12:51	9° $\overline{23}^{\circ}05$		direct	-2104 Nov 07 j 00:43	11° $\approx$ 00'49	
conjunction	-2111 Jan 19 j 15:03	13° $\overline{14}^{\circ}07$	0°-35'-13	conjunction	-2103 Feb 20 j 13:51	14° $\approx$ 53'09	0°-45'-36
minimum elong	-2111 Jan 19 j 15:03	13° $\overline{14}^{\circ}07$	0°35'17	minimum elong	-2103 Feb 20 j 13:51	14° $\approx$ 53'09	0°45'39
max. Earth dist.	-2111 Jan 20 j 19:05	13° $\overline{18}^{\circ}08$	21.11755 AU	max. Earth dist.	-2103 Feb 21 j 09:34	14° $\approx$ 55'57	21.05478 AU
retrograde	-2111 May 10 j 02:15	17° $\overline{14}^{\circ}46$			-2103 Feb 22 j 14:01	15° $\approx$	
min. Earth dist.	-2111 Jul 26 j 04:57	15° $\overline{18}^{\circ}15$	19.12343 AU	retrograde	-2103 Jun 11 j 18:33	18° $\approx$ 55'43	
opposition	-2111 Jul 27 j 07:26	15° $\overline{15}^{\circ}36$	0°-40'-1	opposition	-2103 Aug 28 j 09:38	16° $\approx$ 56'03	0°-50'-37
direct	-2111 Oct 10 j 18:12	13° $\overline{19}^{\circ}39$		min. Earth dist.	-2103 Aug 27 j 16:10	16° $\approx$ 57'49	19.03962 AU
conjunction	-2110 Jan 23 j 19:36	17° $\overline{10}^{\circ}32$	0°-37'-11	direct	-2103 Nov 06 j 22:28	15° $\overline{R}^{\circ}$	
minimum elong	-2110 Jan 23 j 19:36	17° $\overline{10}^{\circ}32$	0°37'15		-2103 Nov 11 j 06:27	14° $\approx$ 59'31	
max. Earth dist.	-2110 Jan 24 j 22:51	17° $\overline{14}^{\circ}25$	21.12733 AU		-2103 Nov 15 j 13:21	15° $\approx$	
retrograde	-2110 May 14 j 08:33	21° $\overline{11}^{\circ}16$		conjunction	-2102 Feb 24 j 21:31	18° $\approx$ 52'23	0°-45'-58
opposition	-2110 Jul 31 j 14:16	19° $\overline{12}^{\circ}05$	0°-42'-6	minimum elong	-2102 Feb 24 j 21:31	18° $\approx$ 52'23	0°46'01
min. Earth dist.	-2110 Jul 30 j 13:21	19° $\overline{14}^{\circ}35$	19.13114 AU	max. Earth dist.	-2102 Feb 25 j 15:22	18° $\approx$ 54'55	21.02271 AU
direct	-2110 Oct 14 j 21:40	17° $\overline{16}^{\circ}12$		retrograde	-2102 Jun 16 j 02:18	22° $\approx$ 55'22	
conjunction	-2109 Jan 28 j 00:36	21° $\overline{07}^{\circ}02$	0°-38'-58	opposition	-2102 Sep 01 j 15:44	20° $\approx$ 55'32	0°-50'-54
minimum elong	-2109 Jan 28 j 00:36	21° $\overline{07}^{\circ}02$	0°39'01	min. Earth dist.	-2102 Sep 01 j 00:39	20° $\approx$ 57'04	19.00533 AU
max. Earth dist.	-2109 Jan 29 j 03:48	21° $\overline{10}^{\circ}54$	21.13288 AU	direct	-2102 Nov 15 j 10:30	18° $\approx$ 58'45	
retrograde	-2109 May 18 j 18:08	25° $\overline{07}^{\circ}53$		conjunction	-2101 Mar 01 j 05:46	22° $\approx$ 52'14	0°-46'-6
opposition	-2109 Aug 04 j 20:33	23° $\overline{08}^{\circ}43$	0°-43'-58	minimum elong	-2101 Mar 01 j 05:46	22° $\approx$ 52'14	0°46'09
min. Earth dist.	-2109 Aug 03 j 19:24	23° $\overline{11}^{\circ}14$	19.13434 AU	max. Earth dist.	-2101 Mar 01 j 22:30	22° $\approx$ 54'37	20.98643 AU
direct	-2109 Oct 19 j 03:13	21° $\overline{12}^{\circ}52$		retrograde	-2101 Jun 20 j 11:52	26° $\approx$ 55'41	
conjunction	-2108 Feb 01 j 05:45	25° $\overline{03}^{\circ}45$	0°-40'-34	opposition	-2101 Sep 05 j 21:39	24° $\approx$ 55'41	0°-50'-56
minimum elong	-2108 Feb 01 j 05:45	25° $\overline{03}^{\circ}45$	0°40'39	min. Earth dist.	-2101 Sep 05 j 06:59	24° $\approx$ 57'11	18.96706 AU
max. Earth dist.	-2108 Feb 02 j 07:43	25° $\overline{07}^{\circ}27$	21.13365 AU	direct	-2101 Nov 19 j 16:24	22° $\approx$ 58'38	
retrograde	-2108 May 22 j 00:37	29° $\overline{04}^{\circ}48$		conjunction	-2100 Mar 04 j 14:29	26° $\approx$ 52'51	0°-46'-1
min. Earth dist.	-2108 Aug 07 j 03:50	27° $\overline{07}^{\circ}57$	19.13264 AU	minimum elong	-2100 Mar 04 j 14:29	26° $\approx$ 52'51	0°46'03
opposition	-2108 Aug 08 j 03:02	27° $\overline{05}^{\circ}37$	0°-45'-38	max. Earth dist.	-2100 Mar 05 j 05:25	26° $\approx$ 54'58	20.94633 AU
direct	-2108 Oct 22 j 05:53	25° $\overline{09}^{\circ}47$			-2100 May 05 j 18:44	0° $\overline{K}^{\circ}$	
conjunction	-2107 Feb 04 j 11:17	29° $\overline{00}^{\circ}48$	0°-41'-59	retrograde	-2100 Jun 23 j 20:09	0° $\overline{K}^{\circ}56'50$	
minimum elong	-2107 Feb 04 j 11:17	29° $\overline{00}^{\circ}48$	0°42'02		-2100 Aug 13 j 00:22	30° $\overline{R}^{\circ}$	
max. Earth dist.	-2107 Feb 05 j 12:47	29° $\overline{04}^{\circ}26$	21.12938 AU	opposition	-2100 Sep 09 j 03:56	28° $\approx$ 56'39	0°-50'-44
retrograde	-2107 May 26 j 10:02	3° $\approx$ 02'05		min. Earth dist.	-2100 Sep 08 j 15:35	28° $\approx$ 57'55	18.92530 AU
min. Earth dist.	-2107 Aug 11 j 10:11	1° $\approx$ 05'12	19.12557 AU	direct	-2100 Nov 22 j 20:31	26° $\approx$ 59'21	
					-2099 Feb 21 j 00:04	0° $\overline{K}^{\circ}$	

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Attention, astronomical year style is used: The year -2099 in astronomical counting style is the year 2100 BCE in historical counting style.

conjunction	-2099 Mar 08 j 23:48	0°♄54'22	0°-45'-42	conjunction	-2091 Apr 12 j 08:03	3°♃58'50	0°-35'-3
minimum elong	-2099 Mar 08 j 23:48	0°♄54'22	0°45'45	minimum elong	-2091 Apr 12 j 08:03	3°♃58'50	0°35'03
max. Earth dist.	-2099 Mar 09 j 13:31	0°♄56'19	20.90309 AU	max. Earth dist.	-2091 Apr 12 j 04:34	3°♃58'20	20.44890 AU
retrograde	-2099 Jun 28 j 07:06	4°♄58'56		retrograde	-2091 Aug 01 j 11:33	8°♃09'46	
opposition	-2099 Sep 13 j 10:16	2°♄58'37	0°-50'-16	opposition	-2091 Oct 16 j 03:43	6°♃08'33	0°-37'-34
min. Earth dist.	-2099 Sep 12 j 22:25	2°♄59'50	18.88045 AU	min. Earth dist.	-2091 Oct 16 j 06:53	6°♃08'13	18.41375 AU
direct	-2099 Nov 27 j 02:56	1°♄01'02		direct	-2091 Dec 29 j 16:55	4°♃08'29	
conjunction	-2098 Mar 13 j 09:55	4°♄56'59	0°-45'-10	conjunction	-2090 Apr 17 j 01:09	8°♃14'40	0°-32'-43
minimum elong	-2098 Mar 13 j 09:55	4°♄56'59	0°45'11	minimum elong	-2090 Apr 17 j 01:09	8°♃14'40	0°32'44
max. Earth dist.	-2098 Mar 13 j 21:43	4°♄58'40	20.85671 AU	max. Earth dist.	-2090 Apr 16 j 19:39	8°♃13'52	20.37825 AU
retrograde	-2098 Jul 02 j 16:09	9°♄02'12		retrograde	-2090 Aug 06 j 01:23	12°♃26'26	
opposition	-2098 Sep 17 j 16:55	7°♄01'46	0°-49'-33	opposition	-2090 Oct 20 j 14:11	10°♃25'03	0°-34'-53
min. Earth dist.	-2098 Sep 17 j 07:31	7°♄02'44	18.83263 AU	min. Earth dist.	-2090 Oct 20 j 19:57	10°♃24'27	18.34205 AU
direct	-2098 Dec 01 j 07:35	5°♄03'55		direct	-2089 Jan 03 j 02:35	8°♃24'33	
conjunction	-2097 Mar 17 j 20:47	9°♄00'52	0°-44'-24	conjunction	-2089 Apr 21 j 18:58	12°♃32'13	0°-30'-12
minimum elong	-2097 Mar 17 j 20:47	9°♄00'52	0°44'26	minimum elong	-2089 Apr 21 j 18:58	12°♃32'13	0°30'13
max. Earth dist.	-2097 Mar 18 j 07:02	9°♄02'20	20.80763 AU	max. Earth dist.	-2089 Apr 21 j 10:39	12°♃31'00	20.30587 AU
retrograde	-2097 Jul 07 j 04:25	13°♄06'48		retrograde	-2089 Aug 10 j 18:20	16°♃44'52	
opposition	-2097 Sep 21 j 23:52	11°♄06'16	0°-48'-36	opposition	-2089 Oct 25 j 01:13	14°♃43'17	0°-32'00
min. Earth dist.	-2097 Sep 21 j 15:09	11°♄07'10	18.78209 AU	min. Earth dist.	-2089 Oct 25 j 08:17	14°♃42'32	18.26905 AU
direct	-2097 Dec 05 j 14:42	9°♄08'10		direct	-2088 Jan 07 j 15:31	12°♃42'18	
conjunction	-2096 Mar 21 j 08:14	13°♄06'14	0°-43'-25	conjunction	-2088 Apr 25 j 13:33	16°♃51'31	0°-27'-30
minimum elong	-2096 Mar 21 j 08:14	13°♄06'14	0°43'27	minimum elong	-2088 Apr 25 j 13:33	16°♃51'31	0°27'29
max. Earth dist.	-2096 Mar 21 j 16:35	13°♄07'25	20.75566 AU	max. Earth dist.	-2088 Apr 25 j 03:49	16°♃50'06	20.23237 AU
retrograde	-2096 Jul 10 j 14:43	17°♄12'55		retrograde	-2088 Aug 14 j 09:13	21°♃05'02	
opposition	-2096 Sep 25 j 07:23	15°♄12'18	0°-47'-23	opposition	-2088 Oct 28 j 12:58	19°♃03'15	0°-28'-55
min. Earth dist.	-2096 Sep 25 j 01:14	15°♄12'56	18.72867 AU	min. Earth dist.	-2088 Oct 28 j 22:13	19°♃02'16	18.19533 AU
direct	-2096 Dec 08 j 20:26	13°♄13'57		direct	-2087 Jan 11 j 02:53	17°♃01'49	
conjunction	-2095 Mar 25 j 20:47	17°♄13'12	0°-42'-12	conjunction	-2087 Apr 30 j 09:02	21°♃12'36	0°-24'-37
minimum elong	-2095 Mar 25 j 20:47	17°♄13'12	0°42'13	minimum elong	-2087 Apr 30 j 09:02	21°♃12'36	0°24'37
max. Earth dist.	-2095 Mar 26 j 03:10	17°♄14'07	20.70093 AU	max. Earth dist.	-2087 Apr 29 j 20:31	21°♃10'45	20.15873 AU
retrograde	-2095 Jul 15 j 04:07	21°♄20'42		retrograde	-2087 Aug 19 j 02:54	25°♃26'59	
opposition	-2095 Sep 29 j 15:05	19°♄20'00	0°-45'-55	opposition	-2087 Nov 02 j 01:09	23°♃25'01	0°-25'-38
min. Earth dist.	-2095 Sep 29 j 10:00	19°♄20'32	18.67235 AU	min. Earth dist.	-2087 Nov 02 j 11:44	23°♃23'52	18.12188 AU
direct	-2095 Dec 13 j 04:34	17°♄21'23		direct	-2086 Jan 15 j 17:29	21°♃23'06	
conjunction	-2094 Mar 30 j 10:18	21°♄21'56	0°-40'-45	conjunction	-2086 May 05 j 05:31	25°♃35'30	0°-21'-34
minimum elong	-2094 Mar 30 j 10:18	21°♄21'56	0°40'47	minimum elong	-2086 May 05 j 05:31	25°♃35'30	0°21'34
max. Earth dist.	-2094 Mar 30 j 14:27	21°♄22'31	20.64292 AU	max. Earth dist.	-2086 May 04 j 15:58	25°♃33'30	20.08549 AU
retrograde	-2094 Jul 19 j 15:58	25°♄30'16		retrograde	-2086 Aug 23 j 18:52	29°♃50'44	
opposition	-2094 Oct 03 j 23:31	23°♄29'29	0°-44'-12	opposition	-2086 Nov 06 j 14:16	27°♄48'37	0°-22'-11
min. Earth dist.	-2094 Oct 03 j 21:15	23°♄29'43	18.61266 AU	min. Earth dist.	-2086 Nov 07 j 02:37	27°♄47'17	18.04916 AU
direct	-2094 Dec 17 j 11:36	21°♄30'34		direct	-2085 Jan 20 j 07:04	25°♄46'17	
				max. Earth dist.	-2085 May 09 j 10:14	29°♄57'52	20.01349 AU
conjunction	-2093 Apr 04 j 00:38	25°♄32'26	0°-39'-4	conjunction	-2085 May 10 j 02:29	0°♃00'17	0°-18'-24
minimum elong	-2093 Apr 04 j 00:38	25°♄32'26	0°39'04	minimum elong	-2085 May 10 j 02:29	0°♃00'17	0°18'23
max. Earth dist.	-2093 Apr 04 j 02:16	25°♄32'40	20.58161 AU				
retrograde	-2093 Jul 24 j 06:35	29°♄41'38					
opposition	-2093 Oct 08 j 08:19	27°♄40'45	0°-42'-14	retrograde	-2085 Aug 28 j 13:08	4°♃16'24	
min. Earth dist.	-2093 Oct 08 j 07:20	27°♄40'51	18.54957 AU	opposition	-2085 Nov 11 j 04:01	2°♃14'08	0°-18'-35
direct	-2093 Dec 21 j 21:17	25°♄41'29		min. Earth dist.	-2085 Nov 11 j 17:34	2°♃12'40	17.97806 AU
				direct	-2084 Jan 24 j 22:59	0°♃11'22	
				max. Earth dist.	-2084 May 13 j 07:43	4°♃24'31	19.94324 AU
conjunction	-2092 Apr 07 j 15:55	29°♄44'45	0°-37'-10	conjunction	-2084 May 14 j 00:34	4°♃27'02	0°-15'-5
minimum elong	-2092 Apr 07 j 15:56	29°♄44'45	0°37'11	minimum elong	-2084 May 14 j 00:34	4°♃27'02	0°15'05
max. Earth dist.	-2092 Apr 07 j 15:16	29°♄44'39	20.51677 AU	behind sun begin	-2084 May 13 j 22:36	4°♃26'44	
retrograde	-2092 Jul 27 j 19:31	3°♃54'49		behind sun end	-2084 May 14 j 02:33	4°♃27'19	
opposition	-2092 Oct 11 j 17:48	1°♃53'47	0°-40'-1	retrograde	-2084 Sep 01 j 06:55	8°♃43'59	
min. Earth dist.	-2092 Oct 11 j 19:34	1°♃53'35	18.48310 AU	opposition	-2084 Nov 14 j 18:31	6°♃41'38	0°-14'-51
				min. Earth dist.	-2084 Nov 15 j 09:31	6°♃40'01	17.90883 AU
direct	-2092 Dec 25 j 05:32	29°♄54'08		direct	-2083 Jan 28 j 15:03	4°♃38'30	
	-2091 Jan 09 j 03:00	0°♃					

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

conjunction	-2083 May 18 j 23:26	8°♄55'48	0°-11'-40	conjunction	-2077 Jun 17 j 09:22	6°♃30'53	0°10'17
minimum elong	-2083 May 18 j 23:26	8°♄55'48	0°11'38	minimum elong	-2077 Jun 17 j 09:21	6°♃30'53	0°10'19
behind sun begin	-2083 May 18 j 18:43	8°♄55'07		behind sun begin	-2077 Jun 17 j 04:03	6°♃30'05	
behind sun end	-2083 May 19 j 04:10	8°♄56'30		behind sun end	-2077 Jun 17 j 14:40	6°♃31'41	
max. Earth dist.	-2083 May 18 j 03:47	8°♄52'51	19.87518 AU	retrograde	-2077 Oct 04 j 11:19	10°♃53'01	
retrograde	-2083 Sep 06 j 02:05	13°♄13'38		opposition	-2077 Dec 17 j 00:07	8°♃50'26	0°13'26
opposition	-2083 Nov 19 j 09:53	11°♄11'13	0°-10'-59	min. Earth dist.	-2077 Dec 18 j 00:25	8°♃47'47	17.48738 AU
min. Earth dist.	-2083 Nov 20 j 02:18	11°♄09'26	17.84195 AU	direct	-2076 Mar 01 j 12:11	6°♃44'56	
direct	-2082 Feb 02 j 08:19	9°♄07'43		max. Earth dist.	-2076 Jun 20 j 08:15	11°♃08'18	19.46205 AU
conjunction	-2082 May 23 j 23:18	13°♄26'41	0°-8'-9	conjunction	-2076 Jun 21 j 13:04	11°♃12'46	0°13'54
minimum elong	-2082 May 23 j 23:18	13°♄26'41	0°08'08	minimum elong	-2076 Jun 21 j 13:04	11°♃12'46	0°13'57
behind sun begin	-2082 May 23 j 17:18	13°♄25'48		behind sun begin	-2076 Jun 21 j 09:47	11°♃12'16	
behind sun end	-2082 May 24 j 05:18	13°♄27'34		behind sun end	-2076 Jun 21 j 16:20	11°♃13'15	
max. Earth dist.	-2082 May 23 j 03:13	13°♄23'39	19.80932 AU	retrograde	-2076 Oct 08 j 11:20	15°♃35'23	
retrograde	-2082 Jun 19 j 05:22	15°♄		opposition	-2076 Dec 20 j 21:03	13°♃32'46	0°17'26
opposition	-2082 Sep 10 j 22:05	17°♄45'20		min. Earth dist.	-2076 Dec 21 j 21:17	13°♃30'07	17.43816 AU
min. Earth dist.	-2082 Nov 24 j 02:04	15°♄42'54	0°-7'-1	direct	-2075 Mar 06 j 12:32	11°♃26'56	
direct	-2082 Nov 24 j 19:42	15°♄40'59	17.77719 AU	max. Earth dist.	-2075 Jun 25 j 11:10	15°♃51'18	19.41482 AU
	-2082 Dec 10 j 21:29	15°♄		conjunction	-2075 Jun 26 j 17:06	15°♃55'57	0°17'27
	-2081 Feb 07 j 02:45	13°♄39'05		minimum elong	-2075 Jun 26 j 17:06	15°♃55'57	0°17'29
	-2081 Apr 04 j 19:01	15°♄		retrograde	-2075 Oct 13 j 10:25	20°♃19'01	
conjunction	-2081 May 28 j 23:51	17°♄59'40	0°-4'-33	opposition	-2075 Dec 25 j 18:57	18°♃16'20	0°21'20
minimum elong	-2081 May 28 j 23:51	17°♄59'40	0°04'31	min. Earth dist.	-2075 Dec 26 j 20:41	18°♃13'31	17.39328 AU
behind sun begin	-2081 May 28 j 17:11	17°♄58'41		direct	-2074 Mar 11 j 11:52	16°♃10'13	
behind sun end	-2081 May 29 j 06:30	18°♄00'39		conjunction	-2074 Jul 01 j 21:12	20°♃40'17	0°20'53
max. Earth dist.	-2081 May 28 j 00:58	17°♄56'12	19.74570 AU	minimum elong	-2074 Jul 01 j 21:12	20°♃40'17	0°20'55
retrograde	-2081 Sep 15 j 18:27	22°♄19'08		max. Earth dist.	-2074 Jun 30 j 15:07	20°♃35'36	19.37232 AU
opposition	-2081 Nov 28 j 19:10	20°♄16'41	0°-2'-58	retrograde	-2074 Oct 18 j 11:02	25°♃03'43	
min. Earth dist.	-2081 Nov 29 j 14:31	20°♄14'35	17.71477 AU	opposition	-2074 Dec 30 j 17:22	23°♃01'00	0°25'06
direct	-2080 Feb 11 j 21:36	18°♄12'31		min. Earth dist.	-2074 Dec 31 j 18:22	22°♃58'15	17.35335 AU
max. Earth dist.	-2080 Jun 01 j 01:57	22°♄31'10	19.68423 AU	direct	-2073 Mar 16 j 13:59	20°♃54'36	
conjunction	-2080 Jun 02 j 01:18	22°♄34'43	0°00'-51	max. Earth dist.	-2073 Jul 05 j 19:33	25°♃20'56	19.33507 AU
minimum elong	-2080 Jun 02 j 01:16	22°♄34'43	0°00'49	conjunction	-2073 Jul 07 j 01:33	25°♃25'37	0°24'11
behind sun begin	-2080 Jun 01 j 18:29	22°♄33'42		minimum elong	-2073 Jul 07 j 01:32	25°♃25'37	0°24'14
behind sun end	-2080 Jun 02 j 08:03	22°♄35'43		retrograde	-2073 Oct 23 j 10:10	29°♃49'20	
asc. node	-2080 Aug 24 j 15:32	26°♄36'27		opposition	-2072 Jan 04 j 16:31	27°♃46'36	0°28'42
retrograde	-2080 Sep 19 j 16:22	26°♄54'56		min. Earth dist.	-2072 Jan 05 j 18:33	27°♃43'44	17.31914 AU
opposition	-2080 Dec 02 j 13:09	24°♄52'28	0°01'07	direct	-2072 Mar 20 j 14:28	25°♃39'59	
min. Earth dist.	-2080 Dec 03 j 09:26	24°♄50'15	17.65429 AU		-2072 Jul 08 j 02:35	0°♄	
direct	-2079 Feb 15 j 18:23	22°♄47'59		max. Earth dist.	-2072 Jul 09 j 23:43	0°♄07'05	19.30393 AU
max. Earth dist.	-2079 Jun 06 j 01:23	27°♄07'43	19.62475 AU	conjunction	-2072 Jul 11 j 05:51	0°♄11'49	0°27'19
conjunction	-2079 Jun 07 j 03:26	27°♄11'42	0°02'56	minimum elong	-2072 Jul 11 j 05:51	0°♄11'49	0°27'22
minimum elong	-2079 Jun 07 j 03:25	27°♄11'42	0°02'59	retrograde	-2072 Oct 27 j 10:50	4°♄35'45	
behind sun begin	-2079 Jun 06 j 20:39	27°♄10'41		opposition	-2071 Jan 08 j 16:11	2°♄33'01	0°32'07
behind sun end	-2079 Jun 07 j 10:11	27°♄12'42		min. Earth dist.	-2071 Jan 09 j 17:00	2°♄30'18	17.29116 AU
retrograde	-2079 Jul 26 j 14:27	0°♃		direct	-2071 Mar 25 j 18:08	0°♄26'15	
	-2079 Sep 24 j 13:43	1°♃32'37		max. Earth dist.	-2071 Jul 15 j 05:17	4°♄54'12	19.27913 AU
	-2079 Nov 25 j 19:26	30°♄		conjunction	-2071 Jul 16 j 10:22	4°♄58'46	0°30'17
opposition	-2079 Dec 07 j 07:58	29°♄30'08	0°05'14	minimum elong	-2071 Jul 16 j 10:21	4°♄58'46	0°30'20
min. Earth dist.	-2079 Dec 08 j 06:08	29°♄27'42	17.59604 AU	retrograde	-2071 Nov 01 j 10:19	9°♄22'51	
direct	-2078 Feb 20 j 15:06	27°♄25'17		opposition	-2070 Jan 13 j 16:35	7°♄20'11	0°35'19
max. Earth dist.	-2078 May 12 j 09:40	0°♃		min. Earth dist.	-2070 Jan 14 j 17:55	7°♄17'25	17.26978 AU
	-2078 Jun 11 j 03:47	1°♃46'25	19.56761 AU	direct	-2070 Mar 30 j 20:23	5°♄13'20	
conjunction	-2078 Jun 12 j 06:18	1°♃50'29	0°06'38	max. Earth dist.	-2070 Jul 20 j 09:28	9°♄41'48	19.26124 AU
minimum elong	-2078 Jun 12 j 06:17	1°♃50'29	0°06'40	conjunction	-2070 Jul 21 j 14:40	9°♄46'24	0°33'03
behind sun begin	-2078 Jun 11 j 23:58	1°♃49'32		minimum elong	-2070 Jul 21 j 14:39	9°♄46'24	0°33'05
behind sun end	-2078 Jun 12 j 12:37	1°♃51'26		retrograde	-2070 Nov 06 j 11:16	14°♄10'35	
retrograde	-2078 Sep 29 j 12:57	6°♃12'02		opposition	-2069 Jan 18 j 17:24	12°♄08'00	0°38'17
opposition	-2078 Dec 12 j 03:38	4°♃09'30	0°09'21	min. Earth dist.	-2069 Jan 19 j 17:17	12°♄05'23	17.25529 AU
min. Earth dist.	-2078 Dec 13 j 02:13	4°♃07'02	17.54017 AU	direct	-2069 Apr 05 j 01:16	10°♄01'08	
direct	-2077 Feb 25 j 13:55	2°♃04'20					
max. Earth dist.	-2077 Jun 16 j 04:52	6°♃26'29	19.51312 AU				

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Attention, astronomical year style is used: The year -2069 in astronomical counting style is the year 2070 BCE in historical counting style.

conjunction	-2069 Jul 26 j 18:52	14° $\mathfrak{E}$ 34'37	0°35'35	min. Earth dist.	-2061 Feb 27 j 06:11	20° $\mathfrak{Q}$ 30'48	17.34667 AU
minimum elong	-2069 Jul 26 j 18:52	14° $\mathfrak{E}$ 34'37	0°35'37	direct	-2061 May 14 j 12:48	18° $\mathfrak{Q}$ 26'37	
max. Earth dist.	-2069 Jul 25 j 15:34	14° $\mathfrak{E}$ 30'18	19.25005 AU				
retrograde	-2069 Nov 11 j 11:20	18° $\mathfrak{E}$ 58'49		conjunction	-2061 Sep 03 j 15:47	22° $\mathfrak{Q}$ 57'38	0°45'54
opposition	-2068 Jan 23 j 18:53	16° $\mathfrak{E}$ 56'22	0°40'59	minimum elong	-2061 Sep 03 j 15:47	22° $\mathfrak{Q}$ 57'38	0°45'56
min. Earth dist.	-2068 Jan 24 j 18:54	16° $\mathfrak{E}$ 53'45	17.24734 AU	max. Earth dist.	-2061 Sep 02 j 22:34	22° $\mathfrak{Q}$ 54'55	19.36282 AU
direct	-2068 Apr 09 j 04:34	14° $\mathfrak{E}$ 49'32		retrograde	-2061 Dec 19 j 16:34	27° $\mathfrak{Q}$ 19'00	
				opposition	-2060 Mar 02 j 16:05	25° $\mathfrak{Q}$ 17'26	0°51'10
conjunction	-2068 Jul 30 j 22:56	19° $\mathfrak{E}$ 23'17	0°37'53	min. Earth dist.	-2060 Mar 03 j 06:32	25° $\mathfrak{Q}$ 15'53	17.38070 AU
minimum elong	-2068 Jul 30 j 22:56	19° $\mathfrak{E}$ 23'17	0°37'56	direct	-2060 May 18 j 18:52	23° $\mathfrak{Q}$ 11'39	
max. Earth dist.	-2068 Jul 29 j 19:25	19° $\mathfrak{E}$ 18'56	19.24534 AU				
retrograde	-2068 Nov 15 j 12:49	23° $\mathfrak{E}$ 47'25		conjunction	-2060 Sep 07 j 15:21	27° $\mathfrak{Q}$ 41'40	0°45'48
opposition	-2067 Jan 27 j 20:33	21° $\mathfrak{E}$ 45'07	0°43'25	minimum elong	-2060 Sep 07 j 15:21	27° $\mathfrak{Q}$ 41'40	0°45'49
min. Earth dist.	-2067 Jan 28 j 19:21	21° $\mathfrak{E}$ 42'38	17.24569 AU	max. Earth dist.	-2060 Sep 07 j 00:02	27° $\mathfrak{Q}$ 39'15	19.39941 AU
direct	-2067 Apr 14 j 09:36	19° $\mathfrak{E}$ 38'20			-2060 Oct 15 j 22:18	0° $\mathfrak{M}$	
max. Earth dist.	-2067 Aug 04 j 01:34	24° $\mathfrak{E}$ 08'12	19.24658 AU	retrograde	-2060 Dec 23 j 13:36	2° $\mathfrak{M}$ 02'21	
				opposition	-2059 Mar 07 j 18:38	0° $\mathfrak{M}$ 00'51	0°50'52
conjunction	-2067 Aug 05 j 02:56	24° $\mathfrak{E}$ 12'13	0°39'55	min. Earth dist.	-2059 Mar 08 j 08:03	29° $\mathfrak{Q}$ 59'25	17.41992 AU
minimum elong	-2067 Aug 05 j 02:56	24° $\mathfrak{E}$ 12'13	0°39'57		-2059 Mar 08 j 02:33	30° $\mathfrak{R}$ $\mathfrak{Q}$	
retrograde	-2067 Nov 20 j 13:50	28° $\mathfrak{E}$ 36'12		direct	-2059 May 23 j 21:47	27° $\mathfrak{Q}$ 55'17	
opposition	-2066 Feb 01 j 22:58	26° $\mathfrak{E}$ 34'03	0°45'32		-2059 Aug 03 j 09:53	0° $\mathfrak{M}$	
min. Earth dist.	-2066 Feb 02 j 21:27	26° $\mathfrak{E}$ 31'37	17.24972 AU	conjunction	-2059 Sep 12 j 14:00	2° $\mathfrak{M}$ 24'12	0°45'24
direct	-2066 Apr 19 j 13:41	24° $\mathfrak{E}$ 27'22		minimum elong	-2059 Sep 12 j 14:00	2° $\mathfrak{M}$ 24'12	0°45'24
max. Earth dist.	-2066 Aug 09 j 04:56	28° $\mathfrak{E}$ 57'08	19.25339 AU	max. Earth dist.	-2059 Sep 12 j 00:54	2° $\mathfrak{M}$ 22'08	19.44135 AU
				retrograde	-2059 Dec 28 j 12:46	6° $\mathfrak{M}$ 44'09	
conjunction	-2066 Aug 10 j 06:19	29° $\mathfrak{E}$ 01'10	0°41'41	opposition	-2058 Mar 12 j 20:53	4° $\mathfrak{M}$ 42'45	0°50'14
minimum elong	-2066 Aug 10 j 06:19	29° $\mathfrak{E}$ 01'10	0°41'44	min. Earth dist.	-2058 Mar 13 j 07:12	4° $\mathfrak{M}$ 41'39	17.46443 AU
	-2066 Aug 25 j 19:59	0° $\mathfrak{Q}$		direct	-2058 May 29 j 03:10	2° $\mathfrak{M}$ 37'28	
retrograde	-2066 Nov 25 j 15:16	3° $\mathfrak{Q}$ 24'56					
opposition	-2065 Feb 07 j 01:36	1° $\mathfrak{Q}$ 22'55	0°47'21	conjunction	-2058 Sep 17 j 11:39	7° $\mathfrak{M}$ 05'09	0°44'41
min. Earth dist.	-2065 Feb 07 j 22:55	1° $\mathfrak{Q}$ 20'36	17.25927 AU	minimum elong	-2058 Sep 17 j 11:39	7° $\mathfrak{M}$ 05'09	0°44'42
	-2065 Mar 13 j 19:55	30° $\mathfrak{R}$ $\mathfrak{E}$		max. Earth dist.	-2058 Sep 17 j 01:16	7° $\mathfrak{M}$ 03'31	19.48855 AU
direct	-2065 Apr 24 j 18:09	29° $\mathfrak{E}$ 16'19		retrograde	-2057 Jan 02 j 08:38	11° $\mathfrak{M}$ 24'23	
	-2065 Jun 04 j 18:06	0° $\mathfrak{Q}$		opposition	-2057 Mar 17 j 22:53	9° $\mathfrak{M}$ 23'05	0°49'16
max. Earth dist.	-2065 Aug 14 j 10:23	3° $\mathfrak{Q}$ 46'14	19.26549 AU	min. Earth dist.	-2057 Mar 18 j 07:57	9° $\mathfrak{M}$ 22'07	17.51432 AU
				direct	-2057 Jun 03 j 04:45	7° $\mathfrak{M}$ 18'08	
conjunction	-2065 Aug 15 j 09:31	3° $\mathfrak{Q}$ 49'54	0°43'09				
minimum elong	-2065 Aug 15 j 09:31	3° $\mathfrak{Q}$ 49'54	0°43'11	conjunction	-2057 Sep 22 j 08:29	11° $\mathfrak{M}$ 44'32	0°43'41
retrograde	-2065 Nov 30 j 16:34	8° $\mathfrak{Q}$ 13'20		minimum elong	-2057 Sep 22 j 08:29	11° $\mathfrak{M}$ 44'32	0°43'41
opposition	-2064 Feb 12 j 04:22	6° $\mathfrak{Q}$ 11'26	0°48'49	max. Earth dist.	-2057 Sep 22 j 00:02	11° $\mathfrak{M}$ 43'13	19.54112 AU
min. Earth dist.	-2064 Feb 13 j 00:47	6° $\mathfrak{Q}$ 09'14	17.27380 AU	retrograde	-2056 Jan 07 j 06:50	16° $\mathfrak{M}$ 02'59	
direct	-2064 Apr 28 j 23:01	4° $\mathfrak{Q}$ 04'58		opposition	-2056 Mar 22 j 00:08	14° $\mathfrak{M}$ 01'50	0°48'00
				min. Earth dist.	-2056 Mar 22 j 05:56	14° $\mathfrak{M}$ 01'14	17.56923 AU
conjunction	-2064 Aug 19 j 12:08	8° $\mathfrak{Q}$ 38'09	0°44'19	direct	-2056 Jun 07 j 08:04	11° $\mathfrak{M}$ 57'17	
minimum elong	-2064 Aug 19 j 12:08	8° $\mathfrak{Q}$ 38'09	0°44'21				
max. Earth dist.	-2064 Aug 18 j 13:17	8° $\mathfrak{Q}$ 34'32	19.28252 AU	conjunction	-2056 Sep 26 j 04:32	16° $\mathfrak{M}$ 22'20	0°42'25
retrograde	-2064 Dec 04 j 16:53	13° $\mathfrak{Q}$ 01'11		minimum elong	-2056 Sep 26 j 04:32	16° $\mathfrak{M}$ 22'20	0°42'26
opposition	-2063 Feb 16 j 07:22	10° $\mathfrak{Q}$ 59'23	0°49'56	max. Earth dist.	-2056 Sep 25 j 23:07	16° $\mathfrak{M}$ 21'29	19.59838 AU
min. Earth dist.	-2063 Feb 17 j 02:48	10° $\mathfrak{Q}$ 57'17	17.29330 AU	retrograde	-2055 Jan 11 j 02:04	20° $\mathfrak{M}$ 39'59	
direct	-2063 May 04 j 03:05	8° $\mathfrak{Q}$ 53'03		opposition	-2055 Mar 27 j 01:19	18° $\mathfrak{M}$ 39'02	0°46'25
				min. Earth dist.	-2055 Mar 27 j 05:56	18° $\mathfrak{M}$ 38'33	17.62863 AU
conjunction	-2063 Aug 24 j 14:08	13° $\mathfrak{Q}$ 25'41	0°45'10	direct	-2055 Jun 12 j 08:19	16° $\mathfrak{M}$ 34'54	
minimum elong	-2063 Aug 24 j 14:08	13° $\mathfrak{Q}$ 25'41	0°45'12				
max. Earth dist.	-2063 Aug 23 j 17:35	13° $\mathfrak{Q}$ 22'25	19.30444 AU	conjunction	-2055 Sep 30 j 23:25	20° $\mathfrak{M}$ 58'31	0°40'53
	-2063 Sep 18 j 20:56	15° $\mathfrak{Q}$		minimum elong	-2055 Sep 30 j 23:25	20° $\mathfrak{M}$ 58'31	0°40'53
retrograde	-2063 Dec 09 j 17:51	17° $\mathfrak{Q}$ 48'13		max. Earth dist.	-2055 Sep 30 j 19:39	20° $\mathfrak{M}$ 57'56	19.65985 AU
opposition	-2062 Feb 21 j 10:25	15° $\mathfrak{Q}$ 46'31	0°50'42	retrograde	-2054 Jan 15 j 23:25	25° $\mathfrak{M}$ 15'22	
min. Earth dist.	-2062 Feb 22 j 04:10	15° $\mathfrak{Q}$ 44'36	17.31748 AU	opposition	-2054 Apr 01 j 01:55	23° $\mathfrak{M}$ 14'36	0°44'33
	-2062 Mar 11 j 21:04	15° $\mathfrak{R}$ $\mathfrak{Q}$		min. Earth dist.	-2054 Apr 01 j 03:17	23° $\mathfrak{M}$ 14'28	17.69179 AU
direct	-2062 May 09 j 09:07	13° $\mathfrak{Q}$ 40'21		direct	-2054 Jun 17 j 09:14	21° $\mathfrak{M}$ 10'56	
	-2062 Jul 04 j 12:15	15° $\mathfrak{Q}$					
conjunction	-2062 Aug 29 j 15:23	18° $\mathfrak{Q}$ 12'15	0°45'41	conjunction	-2054 Oct 05 j 17:40	25° $\mathfrak{M}$ 33'04	0°39'05
minimum elong	-2062 Aug 29 j 15:23	18° $\mathfrak{Q}$ 12'15	0°45'43	minimum elong	-2054 Oct 05 j 17:40	25° $\mathfrak{M}$ 33'04	0°39'06
max. Earth dist.	-2062 Aug 28 j 19:55	18° $\mathfrak{Q}$ 09'10	19.33111 AU	max. Earth dist.	-2054 Oct 05 j 17:06	25° $\mathfrak{M}$ 32'59	19.72458 AU
retrograde	-2062 Dec 14 j 16:25	22° $\mathfrak{Q}$ 34'15		retrograde	-2053 Jan 20 j 18:06	29° $\mathfrak{M}$ 49'04	
opposition	-2061 Feb 26 j 13:23	20° $\mathfrak{Q}$ 32'36	0°51'07	opposition	-2053 Apr 06 j 02:02	27° $\mathfrak{M}$ 48'30	0°42'24

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Attention, astronomical year style is used: The year -2053 in astronomical counting style is the year 2054 BCE in historical counting style.

min. Earth dist.	-2053 Apr 06 j 02:18	27° $\overline{\text{M}}$ 48'29	17.75787 AU	min. Earth dist.	-2045 May 12 j 11:44	3° $\overline{\text{M}}$ 11'14	18.31044 AU
direct	-2053 Jun 22 j 08:09	25° $\overline{\text{M}}$ 45'18		opposition	-2045 May 13 j 02:37	3° $\overline{\text{M}}$ 09'43	0°18'01
	-2053 Oct 08 j 20:58	0° $\overline{\text{A}}$		direct	-2045 Jul 29 j 04:42	1° $\overline{\text{M}}$ 09'39	
conjunction	-2053 Oct 10 j 10:51	0° $\overline{\text{A}}$ 05'53	0°37'04	conjunction	-2045 Nov 13 j 21:12	5° $\overline{\text{M}}$ 17'06	0°14'40
minimum elong	-2053 Oct 10 j 10:51	0° $\overline{\text{A}}$ 05'53	0°37'04	minimum elong	-2045 Nov 13 j 21:13	5° $\overline{\text{M}}$ 17'06	0°14'38
max. Earth dist.	-2053 Oct 10 j 11:25	0° $\overline{\text{A}}$ 05'59	19.79185 AU	behind sun begin	-2045 Nov 13 j 18:14	5° $\overline{\text{M}}$ 16'40	
retrograde	-2052 Jan 25 j 14:35	4° $\overline{\text{A}}$ 21'02		behind sun end	-2045 Nov 14 j 00:11	5° $\overline{\text{M}}$ 17'33	
opposition	-2052 Apr 10 j 01:30	2° $\overline{\text{A}}$ 20'40	0°40'00	max. Earth dist.	-2045 Nov 14 j 12:41	5° $\overline{\text{M}}$ 19'26	20.34459 AU
min. Earth dist.	-2052 Apr 09 j 22:53	2° $\overline{\text{A}}$ 20'56	17.82602 AU	retrograde	-2044 Feb 29 j 20:09	9° $\overline{\text{M}}$ 25'10	
direct	-2052 Jun 26 j 07:04	0° $\overline{\text{A}}$ 17'54		opposition	-2044 May 16 j 20:08	7° $\overline{\text{M}}$ 25'26	0°14'25
				min. Earth dist.	-2044 May 16 j 03:33	7° $\overline{\text{M}}$ 27'07	18.37855 AU
conjunction	-2052 Oct 14 j 03:18	4° $\overline{\text{A}}$ 36'55	0°34'49	direct	-2044 Aug 01 j 20:00	5° $\overline{\text{M}}$ 25'43	
minimum elong	-2052 Oct 14 j 03:18	4° $\overline{\text{A}}$ 36'55	0°34'48				
max. Earth dist.	-2052 Oct 14 j 06:56	4° $\overline{\text{A}}$ 37'28	19.86067 AU	conjunction	-2044 Nov 17 j 06:42	9° $\overline{\text{M}}$ 31'39	0°11'25
retrograde	-2051 Jan 29 j 08:03	8° $\overline{\text{A}}$ 51'11		minimum elong	-2044 Nov 17 j 06:41	9° $\overline{\text{M}}$ 31'39	0°11'24
opposition	-2051 Apr 15 j 00:33	6° $\overline{\text{A}}$ 50'58	0°37'22	behind sun begin	-2044 Nov 17 j 01:52	9° $\overline{\text{M}}$ 30'57	
min. Earth dist.	-2051 Apr 14 j 20:47	6° $\overline{\text{A}}$ 51'22	17.89535 AU	behind sun end	-2044 Nov 17 j 11:31	9° $\overline{\text{M}}$ 32'21	
direct	-2051 Jul 01 j 05:29	4° $\overline{\text{A}}$ 48'41		max. Earth dist.	-2044 Nov 18 j 01:01	9° $\overline{\text{M}}$ 34'23	20.41248 AU
				retrograde	-2043 Mar 05 j 08:25	13° $\overline{\text{M}}$ 38'55	
conjunction	-2051 Oct 18 j 18:47	9° $\overline{\text{A}}$ 06'03	0°32'22	opposition	-2043 May 21 j 12:50	11° $\overline{\text{M}}$ 39'16	0°10'47
minimum elong	-2051 Oct 18 j 18:47	9° $\overline{\text{A}}$ 06'03	0°32'22	min. Earth dist.	-2043 May 20 j 18:12	11° $\overline{\text{M}}$ 41'10	18.44619 AU
max. Earth dist.	-2051 Oct 18 j 23:15	9° $\overline{\text{A}}$ 06'44	19.93045 AU	direct	-2043 Aug 06 j 11:53	9° $\overline{\text{M}}$ 39'57	
retrograde	-2050 Feb 03 j 03:18	13° $\overline{\text{A}}$ 19'26					
opposition	-2050 Apr 19 j 22:51	11° $\overline{\text{A}}$ 19'21	0°34'32	conjunction	-2043 Nov 21 j 15:25	13° $\overline{\text{M}}$ 44'23	0°08'08
min. Earth dist.	-2050 Apr 19 j 16:31	11° $\overline{\text{A}}$ 20'00	17.96538 AU	minimum elong	-2043 Nov 21 j 15:26	13° $\overline{\text{M}}$ 44'23	0°08'06
direct	-2050 Jul 06 j 03:09	9° $\overline{\text{A}}$ 17'28		behind sun begin	-2043 Nov 21 j 09:35	13° $\overline{\text{M}}$ 43'32	
				behind sun end	-2043 Nov 21 j 21:16	13° $\overline{\text{M}}$ 45'14	
conjunction	-2050 Oct 23 j 09:28	13° $\overline{\text{A}}$ 33'12	0°29'45	max. Earth dist.	-2043 Nov 22 j 10:33	13° $\overline{\text{M}}$ 47'14	20.47984 AU
minimum elong	-2050 Oct 23 j 09:28	13° $\overline{\text{A}}$ 33'12	0°29'43		-2043 Dec 13 j 01:19	15° $\overline{\text{M}}$	
max. Earth dist.	-2050 Oct 23 j 16:52	13° $\overline{\text{A}}$ 34'20	20.00046 AU	retrograde	-2042 Mar 09 j 20:29	17° $\overline{\text{M}}$ 50'56	
retrograde	-2049 Feb 07 j 19:20	17° $\overline{\text{A}}$ 45'41		min. Earth dist.	-2042 May 25 j 08:54	15° $\overline{\text{M}}$ 53'23	18.51326 AU
opposition	-2049 Apr 24 j 20:29	15° $\overline{\text{A}}$ 45'42	0°31'30	opposition	-2042 May 26 j 04:46	15° $\overline{\text{M}}$ 51'23	0°07'06
min. Earth dist.	-2049 Apr 24 j 12:56	15° $\overline{\text{A}}$ 46'29	18.03523 AU		-2042 Jun 17 j 03:16	15° $\overline{\text{R}}$ $\overline{\text{M}}$	
direct	-2049 Jul 11 j 00:39	13° $\overline{\text{A}}$ 44'15		direct	-2042 Aug 11 j 00:42	13° $\overline{\text{M}}$ 52'26	
					-2042 Oct 02 j 04:10	15° $\overline{\text{M}}$	
conjunction	-2049 Oct 27 j 23:11	17° $\overline{\text{A}}$ 58'17	0°26'57				
minimum elong	-2049 Oct 27 j 23:11	17° $\overline{\text{A}}$ 58'18	0°26'56	conjunction	-2042 Nov 25 j 23:40	17° $\overline{\text{M}}$ 55'29	0°04'49
max. Earth dist.	-2049 Oct 28 j 07:12	17° $\overline{\text{A}}$ 59'31	20.07018 AU	minimum elong	-2042 Nov 25 j 23:40	17° $\overline{\text{M}}$ 55'29	0°04'48
retrograde	-2048 Feb 12 j 12:32	22° $\overline{\text{A}}$ 09'52		behind sun begin	-2042 Nov 25 j 17:18	17° $\overline{\text{M}}$ 54'33	
opposition	-2048 Apr 28 j 17:09	20° $\overline{\text{A}}$ 09'58	0°28'19	behind sun end	-2042 Nov 26 j 06:03	17° $\overline{\text{M}}$ 56'24	
min. Earth dist.	-2048 Apr 28 j 07:30	20° $\overline{\text{A}}$ 10'57	18.10475 AU	max. Earth dist.	-2042 Nov 26 j 21:18	17° $\overline{\text{M}}$ 58'41	20.54629 AU
direct	-2048 Jul 14 j 20:52	18° $\overline{\text{A}}$ 08'52		retrograde	-2041 Mar 14 j 08:27	22° $\overline{\text{M}}$ 01'19	
				opposition	-2041 May 30 j 19:52	20° $\overline{\text{M}}$ 01'54	0°03'24
conjunction	-2048 Oct 31 j 12:09	22° $\overline{\text{A}}$ 21'15	0°24'02	min. Earth dist.	-2041 May 29 j 22:09	20° $\overline{\text{M}}$ 04'05	18.57889 AU
minimum elong	-2048 Oct 31 j 12:09	22° $\overline{\text{A}}$ 21'15	0°24'01	direct	-2041 Aug 15 j 14:52	18° $\overline{\text{M}}$ 03'20	
max. Earth dist.	-2048 Oct 31 j 23:01	22° $\overline{\text{A}}$ 22'54	20.13940 AU				
retrograde	-2047 Feb 16 j 02:40	26° $\overline{\text{A}}$ 31'54		conjunction	-2041 Nov 30 j 07:13	22° $\overline{\text{M}}$ 05'03	0°01'28
opposition	-2047 May 03 j 13:14	24° $\overline{\text{A}}$ 32'03	0°24'59	minimum elong	-2041 Nov 30 j 07:13	22° $\overline{\text{M}}$ 05'03	0°01'26
min. Earth dist.	-2047 May 03 j 02:04	24° $\overline{\text{A}}$ 33'12	18.17363 AU	behind sun begin	-2041 Nov 30 j 00:41	22° $\overline{\text{M}}$ 04'07	
direct	-2047 Jul 19 j 16:56	22° $\overline{\text{A}}$ 31'19		behind sun end	-2041 Nov 30 j 13:45	22° $\overline{\text{M}}$ 06'00	
				max. Earth dist.	-2041 Dec 01 j 05:20	22° $\overline{\text{M}}$ 08'19	20.61099 AU
conjunction	-2047 Nov 04 j 23:53	26° $\overline{\text{A}}$ 42'01	0°21'00	retrograde	-2040 Mar 17 j 19:15	26° $\overline{\text{M}}$ 10'15	
minimum elong	-2047 Nov 04 j 23:53	26° $\overline{\text{A}}$ 42'01	0°20'58	desc. node	-2040 May 06 j 11:13	25° $\overline{\text{M}}$ 14'48	
max. Earth dist.	-2047 Nov 05 j 11:35	26° $\overline{\text{A}}$ 43'47	20.20811 AU	min. Earth dist.	-2040 Jun 02 j 11:57	24° $\overline{\text{M}}$ 13'12	18.64266 AU
	-2046 Jan 06 j 14:36	0° $\overline{\text{M}}$		opposition	-2040 Jun 03 j 10:20	24° $\overline{\text{M}}$ 10'58	0°00'-16
retrograde	-2046 Feb 20 j 18:01	0° $\overline{\text{M}}$ 51'47		direct	-2040 Aug 19 j 01:56	22° $\overline{\text{M}}$ 12'47	
	-2046 Apr 08 j 18:26	30° $\overline{\text{R}}$ $\overline{\text{A}}$					
opposition	-2046 May 08 j 08:28	28° $\overline{\text{A}}$ 51'58	0°21'33	conjunction	-2040 Dec 03 j 14:28	26° $\overline{\text{M}}$ 13'14	0°-1'-56
min. Earth dist.	-2046 May 07 j 19:22	28° $\overline{\text{A}}$ 53'18	18.24222 AU	minimum elong	-2040 Dec 03 j 14:28	26° $\overline{\text{M}}$ 13'14	0°02'00
direct	-2046 Jul 24 j 10:54	26° $\overline{\text{A}}$ 51'33		behind sun begin	-2040 Dec 03 j 07:56	26° $\overline{\text{M}}$ 12'18	
	-2046 Oct 23 j 14:31	0° $\overline{\text{M}}$		behind sun end	-2040 Dec 03 j 20:59	26° $\overline{\text{M}}$ 14'10	
				max. Earth dist.	-2040 Dec 04 j 14:40	26° $\overline{\text{M}}$ 16'48	20.67353 AU
conjunction	-2046 Nov 09 j 11:03	1° $\overline{\text{M}}$ 00'37	0°17'52		-2039 Feb 23 j 12:33	0° $\overline{\text{A}}$	
minimum elong	-2046 Nov 09 j 11:03	1° $\overline{\text{M}}$ 00'37	0°17'51	retrograde	-2039 Mar 22 j 06:37	0° $\overline{\text{A}}$ 17'50	
max. Earth dist.	-2046 Nov 10 j 01:41	1° $\overline{\text{M}}$ 02'49	20.27648 AU		-2039 Apr 18 j 14:40	30° $\overline{\text{R}}$ $\overline{\text{M}}$	
retrograde	-2045 Feb 25 j 06:40	5° $\overline{\text{M}}$ 09'30		min. Earth dist.	-2039 Jun 07 j 00:04	28° $\overline{\text{M}}$ 21'04	18.70378 AU

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Attention, astronomical year style is used: The year -2039 in astronomical counting style is the year 2040 BCE in historical counting style.

opposition	-2039 Jun 08 j 00:06	28° $\mathbb{L}$ 18'40	0°-3'-56	conjunction	-2031 Jan 04 j 11:00	28° $\mathbb{Z}$ 35'11	0°-26'-13
direct	-2039 Aug 23 j 14:17	26° $\mathbb{L}$ 20'51		minimum elong	-2031 Jan 04 j 11:00	28° $\mathbb{Z}$ 35'11	0°26'16
	-2039 Dec 02 j 04:23	0° $\mathbb{Z}$		max. Earth dist.	-2031 Jan 05 j 15:09	28° $\mathbb{Z}$ 39'14	21.03023 AU
					-2031 Jan 29 j 12:38	0° $\mathbb{Z}$	
conjunction	-2039 Dec 07 j 21:04	0° $\mathbb{Z}$ 20'07	0°-5'-14	retrograde	-2031 Apr 24 j 08:19	2° $\mathbb{Z}$ 36'21	
minimum elong	-2039 Dec 07 j 21:05	0° $\mathbb{Z}$ 20'07	0°05'17	min. Earth dist.	-2031 Jul 10 j 11:40	0° $\mathbb{Z}$ 39'57	19.04399 AU
behind sun begin	-2039 Dec 07 j 14:45	0° $\mathbb{Z}$ 19'12		opposition	-2031 Jul 11 j 14:42	0° $\mathbb{Z}$ 37'15	0°-30'-24
behind sun end	-2039 Dec 08 j 03:25	0° $\mathbb{Z}$ 21'01			-2031 Jul 27 j 10:34	30° $\mathbb{R}$ $\mathbb{Z}$	
max. Earth dist.	-2039 Dec 08 j 21:28	0° $\mathbb{Z}$ 23'42	20.73306 AU	direct	-2031 Sep 25 j 10:43	28° $\mathbb{Z}$ 40'57	
retrograde	-2038 Mar 26 j 16:39	4° $\mathbb{Z}$ 24'10			-2031 Nov 21 j 06:52	0° $\mathbb{Z}$	
opposition	-2038 Jun 12 j 13:18	2° $\mathbb{Z}$ 25'06	0°-7'-33				
min. Earth dist.	-2038 Jun 11 j 13:11	2° $\mathbb{Z}$ 27'31	18.76171 AU	conjunction	-2030 Jan 08 j 15:22	2° $\mathbb{Z}$ 33'13	0°-28'-45
direct	-2038 Aug 28 j 00:07	0° $\mathbb{Z}$ 27'37		minimum elong	-2030 Jan 08 j 15:22	2° $\mathbb{Z}$ 33'13	0°28'50
				max. Earth dist.	-2030 Jan 09 j 19:05	2° $\mathbb{Z}$ 37'12	21.05603 AU
conjunction	-2038 Dec 12 j 03:37	4° $\mathbb{Z}$ 25'46	0°-8'-29	retrograde	-2030 Apr 28 j 15:06	6° $\mathbb{Z}$ 34'11	
minimum elong	-2038 Dec 12 j 03:36	4° $\mathbb{Z}$ 25'46	0°08'33	opposition	-2030 Jul 15 j 22:58	4° $\mathbb{Z}$ 35'03	0°-33'-8
behind sun begin	-2038 Dec 11 j 21:52	4° $\mathbb{Z}$ 24'56		min. Earth dist.	-2030 Jul 14 j 20:50	4° $\mathbb{Z}$ 37'39	19.06809 AU
behind sun end	-2038 Dec 12 j 09:20	4° $\mathbb{Z}$ 26'35		direct	-2030 Sep 29 j 15:09	2° $\mathbb{Z}$ 38'50	
max. Earth dist.	-2038 Dec 13 j 05:27	4° $\mathbb{Z}$ 29'33	20.78902 AU				
retrograde	-2037 Mar 31 j 03:09	8° $\mathbb{Z}$ 29'16		conjunction	-2029 Jan 12 j 19:53	6° $\mathbb{Z}$ 30'38	0°-31'-9
min. Earth dist.	-2037 Jun 16 j 00:07	6° $\mathbb{Z}$ 32'50	18.81559 AU	minimum elong	-2029 Jan 12 j 19:53	6° $\mathbb{Z}$ 30'38	0°31'12
opposition	-2037 Jun 17 j 01:31	6° $\mathbb{Z}$ 30'18	0°-11'-8	max. Earth dist.	-2029 Jan 14 j 00:21	6° $\mathbb{Z}$ 34'43	21.07832 AU
direct	-2037 Sep 01 j 10:40	4° $\mathbb{Z}$ 33'07		retrograde	-2029 May 02 j 23:39	10° $\mathbb{Z}$ 31'27	
				min. Earth dist.	-2029 Jul 19 j 03:27	8° $\mathbb{Z}$ 35'00	19.08851 AU
conjunction	-2037 Dec 16 j 09:37	8° $\mathbb{Z}$ 30'12	0°-11'-40	opposition	-2029 Jul 20 j 06:29	8° $\mathbb{Z}$ 32'17	0°-35'-42
minimum elong	-2037 Dec 16 j 09:37	8° $\mathbb{Z}$ 30'12	0°11'43	direct	-2029 Oct 03 j 22:18	6° $\mathbb{Z}$ 36'10	
behind sun begin	-2037 Dec 16 j 04:56	8° $\mathbb{Z}$ 29'32					
behind sun end	-2037 Dec 16 j 14:18	8° $\mathbb{Z}$ 30'52		conjunction	-2028 Jan 17 j 00:14	10° $\mathbb{Z}$ 27'36	0°-33'-24
max. Earth dist.	-2037 Dec 17 j 11:11	8° $\mathbb{Z}$ 33'56	20.84065 AU	minimum elong	-2028 Jan 17 j 00:14	10° $\mathbb{Z}$ 27'36	0°33'28
retrograde	-2036 Apr 03 j 12:22	12° $\mathbb{Z}$ 33'15		max. Earth dist.	-2028 Jan 18 j 04:00	10° $\mathbb{Z}$ 31'34	21.09684 AU
opposition	-2036 Jun 20 j 13:26	10° $\mathbb{Z}$ 34'19	0°-14'-37	retrograde	-2028 May 06 j 06:54	14° $\mathbb{Z}$ 28'21	
min. Earth dist.	-2036 Jun 19 j 12:24	10° $\mathbb{Z}$ 36'49	18.86505 AU	opposition	-2028 Jul 23 j 13:59	12° $\mathbb{Z}$ 29'11	0°-38'-5
direct	-2036 Sep 04 j 19:21	8° $\mathbb{Z}$ 37'22		min. Earth dist.	-2028 Jul 22 j 12:07	12° $\mathbb{Z}$ 31'46	19.10519 AU
				direct	-2028 Oct 07 j 01:49	10° $\mathbb{Z}$ 33'08	
conjunction	-2036 Dec 19 j 15:18	12° $\mathbb{Z}$ 33'28	0°-14'-47				
minimum elong	-2036 Dec 19 j 15:18	12° $\mathbb{Z}$ 33'28	0°14'50	conjunction	-2027 Jan 20 j 04:44	14° $\mathbb{Z}$ 24'18	0°-35'-29
behind sun begin	-2036 Dec 19 j 12:33	12° $\mathbb{Z}$ 33'05		minimum elong	-2027 Jan 20 j 04:43	14° $\mathbb{Z}$ 24'18	0°35'32
behind sun end	-2036 Dec 19 j 18:02	12° $\mathbb{Z}$ 33'52		max. Earth dist.	-2027 Jan 21 j 09:00	14° $\mathbb{Z}$ 28'20	21.11157 AU
max. Earth dist.	-2036 Dec 20 j 18:03	12° $\mathbb{Z}$ 37'22	20.88770 AU	retrograde	-2027 May 10 j 15:10	18° $\mathbb{Z}$ 25'02	
retrograde	-2035 Apr 07 j 22:18	16° $\mathbb{Z}$ 36'03		opposition	-2027 Jul 27 j 21:01	16° $\mathbb{Z}$ 25'52	0°-40'-18
min. Earth dist.	-2035 Jun 23 j 22:21	14° $\mathbb{Z}$ 39'46	18.90965 AU	min. Earth dist.	-2027 Jul 26 j 18:30	16° $\mathbb{Z}$ 28'31	19.11777 AU
opposition	-2035 Jun 25 j 00:35	14° $\mathbb{Z}$ 37'09	0°-18'-2	direct	-2027 Oct 11 j 08:11	14° $\mathbb{Z}$ 29'55	
direct	-2035 Sep 09 j 04:56	12° $\mathbb{Z}$ 40'24					
				conjunction	-2026 Jan 24 j 09:26	18° $\mathbb{Z}$ 20'54	0°-37'-25
conjunction	-2035 Dec 23 j 20:37	16° $\mathbb{Z}$ 35'34	0°-17'-48	minimum elong	-2026 Jan 24 j 09:26	18° $\mathbb{Z}$ 20'54	0°37'28
minimum elong	-2035 Dec 23 j 20:38	16° $\mathbb{Z}$ 35'34	0°17'51	max. Earth dist.	-2026 Jan 25 j 12:38	18° $\mathbb{Z}$ 24'46	21.12193 AU
max. Earth dist.	-2035 Dec 24 j 22:59	16° $\mathbb{Z}$ 39'23	20.92988 AU	retrograde	-2026 May 14 j 22:41	22° $\mathbb{Z}$ 21'42	
retrograde	-2034 Apr 12 j 06:29	20° $\mathbb{Z}$ 37'44		min. Earth dist.	-2026 Jul 31 j 02:58	20° $\mathbb{Z}$ 25'01	19.12590 AU
min. Earth dist.	-2034 Jun 28 j 09:33	18° $\mathbb{Z}$ 41'20	18.94957 AU	opposition	-2026 Aug 01 j 03:48	20° $\mathbb{Z}$ 22'31	0°-42'-20
opposition	-2034 Jun 29 j 11:05	18° $\mathbb{Z}$ 38'47	0°-21'-19	direct	-2026 Oct 15 j 11:28	18° $\mathbb{Z}$ 26'37	
direct	-2034 Sep 13 j 12:17	16° $\mathbb{Z}$ 42'11					
				conjunction	-2025 Jan 28 j 14:31	22° $\mathbb{Z}$ 17'33	0°-39'-10
conjunction	-2034 Dec 28 j 01:45	20° $\mathbb{Z}$ 36'30	0°-20'-44	minimum elong	-2025 Jan 28 j 14:31	22° $\mathbb{Z}$ 17'33	0°39'14
minimum elong	-2034 Dec 28 j 01:45	20° $\mathbb{Z}$ 36'30	0°20'47	max. Earth dist.	-2025 Jan 29 j 17:41	22° $\mathbb{Z}$ 21'25	21.12769 AU
max. Earth dist.	-2034 Dec 29 j 05:09	20° $\mathbb{Z}$ 40'27	20.96751 AU	retrograde	-2025 May 19 j 07:08	26° $\mathbb{Z}$ 18'27	
retrograde	-2033 Apr 16 j 16:01	24° $\mathbb{Z}$ 38'16		min. Earth dist.	-2025 Aug 04 j 09:18	24° $\mathbb{Z}$ 21'48	19.12907 AU
opposition	-2033 Jul 03 j 20:49	22° $\mathbb{Z}$ 39'16	0°-24'-29	opposition	-2025 Aug 05 j 10:19	24° $\mathbb{Z}$ 19'17	0°-44'-10
min. Earth dist.	-2033 Jul 02 j 18:10	22° $\mathbb{Z}$ 41'56	18.98496 AU	direct	-2025 Oct 19 j 16:51	22° $\mathbb{Z}$ 23'24	
direct	-2033 Sep 17 j 21:00	20° $\mathbb{Z}$ 42'47					
				conjunction	-2024 Feb 01 j 19:39	26° $\mathbb{Z}$ 14'21	0°-40'-44
conjunction	-2032 Jan 01 j 06:22	24° $\mathbb{Z}$ 36'19	0°-23'-32	minimum elong	-2024 Feb 01 j 19:39	26° $\mathbb{Z}$ 14'21	0°40'47
minimum elong	-2032 Jan 01 j 06:21	24° $\mathbb{Z}$ 36'19	0°23'36	max. Earth dist.	-2024 Feb 02 j 21:20	26° $\mathbb{Z}$ 18'01	21.12815 AU
max. Earth dist.	-2032 Jan 02 j 09:27	24° $\mathbb{Z}$ 40'13	21.00073 AU		-2024 Apr 27 j 04:34	0° $\approx$	
retrograde	-2032 Apr 19 j 23:01	28° $\mathbb{Z}$ 37'46		retrograde	-2024 May 22 j 14:27	0° $\approx$ 15'28	
min. Earth dist.	-2032 Jul 06 j 04:13	26° $\mathbb{Z}$ 41'18	19.01633 AU		-2024 Jun 17 j 06:37	30° $\mathbb{R}$ $\mathbb{Z}$	
opposition	-2032 Jul 07 j 06:07	26° $\mathbb{Z}$ 38'43	0°-27'-31	opposition	-2024 Aug 08 j 16:56	28° $\mathbb{Z}$ 16'15	0°-45'-47
direct	-2032 Sep 21 j 02:55	24° $\mathbb{Z}$ 42'20		min. Earth dist.	-2024 Aug 07 j 17:55	28° $\mathbb{Z}$ 18'34	19.12682 AU

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Attention, astronomical year style is used: The year -2024 in astronomical counting style is the year 2025 BCE in historical counting style.

direct	-2024 Oct 22 j 20:31	26°☾20'22		opposition	-2016 Sep 09 j 17:48	0°☿06'30	0°-50'-30
	-2023 Feb 01 j 17:04	0°♁		min. Earth dist.	-2016 Sep 09 j 05:11	0°☿07'48	18.91922 AU
					-2016 Sep 12 j 09:15	30°♁	
conjunction	-2023 Feb 05 j 01:26	0°♁11'26	0°-42'-6	direct	-2016 Nov 23 j 10:16	28°♁09'11	
minimum elong	-2023 Feb 05 j 01:26	0°♁11'26	0°42'10		-2015 Jan 30 j 12:11	0°☿	
max. Earth dist.	-2023 Feb 06 j 02:39	0°♁15'02	21.12309 AU				
retrograde	-2023 May 26 j 23:37	4°♁12'45		conjunction	-2015 Mar 09 j 13:36	2°☿04'18	0°-45'-29
opposition	-2023 Aug 12 j 23:10	2°♁13'29	0°-47'-12	minimum elong	-2015 Mar 09 j 13:36	2°☿04'18	0°45'30
min. Earth dist.	-2023 Aug 12 j 00:20	2°♁15'47	19.11877 AU	max. Earth dist.	-2015 Mar 10 j 03:43	2°☿06'19	20.89773 AU
direct	-2023 Oct 27 j 01:37	0°♁17'32		retrograde	-2015 Jun 28 j 21:01	6°☿09'00	
				min. Earth dist.	-2015 Sep 13 j 11:56	4°☿09'57	18.87585 AU
conjunction	-2022 Feb 09 j 07:28	4°♁08'49	0°-43'-17	opposition	-2015 Sep 14 j 00:06	4°☿08'42	0°-50'00
minimum elong	-2022 Feb 09 j 07:28	4°♁08'49	0°43'19	direct	-2015 Nov 27 j 16:46	2°☿11'08	
max. Earth dist.	-2022 Feb 10 j 06:45	4°♁12'07	21.11203 AU				
retrograde	-2022 May 31 j 06:40	8°♁10'23		conjunction	-2014 Mar 13 j 23:42	6°☿07'11	0°-44'-54
min. Earth dist.	-2022 Aug 16 j 09:01	6°♁13'06	19.10472 AU	minimum elong	-2014 Mar 13 j 23:42	6°☿07'12	0°44'57
opposition	-2022 Aug 17 j 05:31	6°♁11'02	0°-48'-23	max. Earth dist.	-2014 Mar 14 j 11:44	6°☿08'55	20.85286 AU
direct	-2022 Oct 31 j 05:25	4°♁14'58		retrograde	-2014 Jul 03 j 06:26	10°☿12'33	
				opposition	-2014 Sep 18 j 06:57	8°☿12'09	0°-49'-15
conjunction	-2021 Feb 13 j 13:57	8°♁06'31	0°-44'-15	min. Earth dist.	-2014 Sep 17 j 21:14	8°☿13'09	18.82949 AU
minimum elong	-2021 Feb 13 j 13:57	8°♁06'31	0°44'18	direct	-2014 Dec 01 j 21:28	6°☿14'22	
max. Earth dist.	-2021 Feb 14 j 12:28	8°♁09'43	21.09511 AU				
retrograde	-2021 Jun 04 j 16:12	12°♁08'22		conjunction	-2013 Mar 18 j 10:31	10°☿11'26	0°-44'-6
opposition	-2021 Aug 21 j 11:28	10°♁08'54	0°-49'-20	minimum elong	-2013 Mar 18 j 10:31	10°☿11'26	0°44'08
min. Earth dist.	-2021 Aug 20 j 15:17	10°♁10'56	19.08489 AU	max. Earth dist.	-2013 Mar 18 j 21:12	10°☿12'58	20.80514 AU
direct	-2021 Nov 04 j 10:59	8°♁12'41		retrograde	-2013 Jul 07 j 18:20	14°☿17'31	
				opposition	-2013 Sep 22 j 13:56	12°☿17'02	0°-48'-15
conjunction	-2020 Feb 17 j 20:38	12°♁04'35	0°-45'00	min. Earth dist.	-2013 Sep 22 j 04:52	12°☿17'58	18.78017 AU
minimum elong	-2020 Feb 17 j 20:37	12°♁04'35	0°45'03	direct	-2013 Dec 06 j 04:41	10°☿19'01	
max. Earth dist.	-2020 Feb 18 j 17:13	12°♁07'31	21.07264 AU				
	-2020 Apr 15 j 06:26	15°♁		conjunction	-2012 Mar 21 j 22:11	14°☿17'11	0°-43'-5
retrograde	-2020 Jun 07 j 22:58	16°♁06'47		minimum elong	-2012 Mar 21 j 22:11	14°☿17'11	0°43'07
	-2020 Aug 02 j 05:04	15°♁		max. Earth dist.	-2012 Mar 22 j 06:41	14°☿18'24	20.75426 AU
opposition	-2020 Aug 24 j 17:35	14°♁07'10	0°-50'-3	retrograde	-2012 Jul 11 j 04:59	18°☿24'01	
min. Earth dist.	-2020 Aug 23 j 23:44	14°♁08'58	19.05992 AU	opposition	-2012 Sep 25 j 21:28	16°☿23'27	0°-47'00
direct	-2020 Nov 07 j 14:20	12°♁10'45		min. Earth dist.	-2012 Sep 25 j 15:09	16°☿24'06	18.72769 AU
	-2019 Feb 02 j 11:09	15°♁		direct	-2012 Dec 09 j 10:11	14°☿25'11	
conjunction	-2019 Feb 21 j 03:48	16°♁03'06	0°-45'-32	conjunction	-2011 Mar 26 j 10:50	18°☿24'32	0°-41'-49
minimum elong	-2019 Feb 21 j 03:48	16°♁03'06	0°45'35	minimum elong	-2011 Mar 26 j 10:50	18°☿24'32	0°41'51
max. Earth dist.	-2019 Feb 21 j 23:41	16°♁05'56	21.04540 AU	max. Earth dist.	-2011 Mar 26 j 17:25	18°☿25'29	20.70019 AU
retrograde	-2019 Jun 12 j 08:52	20°♁05'41		retrograde	-2011 Jul 15 j 18:33	22°☿32'08	
opposition	-2019 Aug 28 j 23:29	18°♁05'55	0°-50'-31	opposition	-2011 Sep 30 j 05:20	20°☿31'29	0°-45'-29
min. Earth dist.	-2019 Aug 28 j 05:58	18°♁07'41	19.03037 AU	min. Earth dist.	-2011 Sep 30 j 00:05	20°☿32'02	18.67175 AU
direct	-2019 Nov 11 j 20:36	16°♁09'17		direct	-2011 Dec 13 j 18:42	18°☿32'55	
conjunction	-2018 Feb 25 j 11:26	20°♁02'11	0°-45'-51	conjunction	-2010 Mar 31 j 00:24	22°☿33'31	0°-40'-20
minimum elong	-2018 Feb 25 j 11:26	20°♁02'11	0°45'54	minimum elong	-2010 Mar 31 j 00:24	22°☿33'31	0°40'21
max. Earth dist.	-2018 Feb 26 j 05:22	20°♁04'44	21.01373 AU	max. Earth dist.	-2010 Mar 31 j 04:28	22°☿34'06	20.64232 AU
retrograde	-2018 Jun 16 j 15:50	24°♁05'12		retrograde	-2010 Jul 20 j 06:13	26°☿41'56	
opposition	-2018 Sep 02 j 05:26	22°♁05'17	0°-50'-45	opposition	-2010 Oct 04 j 13:45	24°☿41'10	0°-43'-44
min. Earth dist.	-2018 Sep 01 j 14:16	22°♁06'50	18.99677 AU	min. Earth dist.	-2010 Oct 04 j 11:27	24°☿41'24	18.61202 AU
direct	-2018 Nov 15 j 23:52	20°♁08'25		direct	-2010 Dec 18 j 01:40	22°☿42'16	
conjunction	-2017 Mar 01 j 19:38	24°♁01'58	0°-45'-57	conjunction	-2009 Apr 04 j 14:49	26°☿44'09	0°-38'-38
minimum elong	-2017 Mar 01 j 19:38	24°♁01'58	0°45'59	minimum elong	-2009 Apr 04 j 14:49	26°☿44'09	0°38'39
max. Earth dist.	-2017 Mar 02 j 12:42	24°♁04'24	20.97837 AU	max. Earth dist.	-2009 Apr 04 j 16:31	26°☿44'24	20.58088 AU
retrograde	-2017 Jun 21 j 02:07	28°♁05'29			-2009 Jun 08 j 01:28	0°♁	
opposition	-2017 Sep 06 j 11:26	26°♁05'25	0°-50'-45	retrograde	-2009 Jul 24 j 20:50	0°♁53'22	
min. Earth dist.	-2017 Sep 05 j 20:32	26°♁06'57	18.95961 AU		-2009 Sep 10 j 09:59	30°♁	
direct	-2017 Nov 20 j 06:20	24°♁08'20		opposition	-2009 Oct 08 j 22:39	28°☿52'27	0°-41'-44
				min. Earth dist.	-2009 Oct 08 j 21:32	28°☿52'34	18.54873 AU
				direct	-2009 Dec 22 j 11:24	26°☿53'11	
conjunction	-2016 Mar 05 j 04:09	28°♁02'37	0°-45'-50		-2008 Mar 22 j 22:36	0°♁	
minimum elong	-2016 Mar 05 j 04:09	28°♁02'37	0°45'52				
max. Earth dist.	-2016 Mar 05 j 19:20	28°♁04'47	20.93954 AU				
	-2016 Apr 09 j 21:44	0°☿		conjunction	-2008 Apr 08 j 05:56	0°♁56'25	0°-36'-42
retrograde	-2016 Jun 24 j 10:06	2°☿06'43		minimum elong	-2008 Apr 08 j 05:56	0°♁56'25	0°36'42

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Attention, astronomical year style is used: The year -2008 in astronomical counting style is the year 2009 BCE in historical counting style.

max. Earth dist.	-2008 Apr 08 j 05:16	0°♃56'19	20.51586 AU	behind sun begin	-2000 May 14 j 11:25	5°♃36'13	
retrograde	-2008 Jul 28 j 09:47	5°♃06'26		behind sun end	-2000 May 14 j 16:51	5°♃37'01	
opposition	-2008 Oct 12 j 08:09	3°♃05'21	0°-39'-29	max. Earth dist.	-2000 May 13 j 21:35	5°♃34'09	19.95054 AU
min. Earth dist.	-2008 Oct 12 j 09:55	3°♃05'10	18.48213 AU	retrograde	-2000 Sep 01 j 21:25	9°♃53'34	
direct	-2008 Dec 25 j 20:13	1°♃05'40		opposition	-2000 Nov 15 j 08:35	7°♃51'20	0°-14'-12
				min. Earth dist.	-2000 Nov 15 j 23:19	7°♃49'44	17.91665 AU
conjunction	-2007 Apr 12 j 22:04	5°♃10'16	0°-34'-33	direct	-1999 Jan 29 j 03:52	5°♃48'19	
minimum elong	-2007 Apr 12 j 22:04	5°♃10'16	0°34'34				
max. Earth dist.	-2007 Apr 12 j 18:52	5°♃09'48	20.44801 AU	conjunction	-1999 May 19 j 13:05	10°♃05'35	0°-11'-5
retrograde	-2007 Aug 02 j 00:55	9°♃21'07		minimum elong	-1999 May 19 j 13:05	10°♃05'35	0°11'04
opposition	-2007 Oct 16 j 17:55	7°♃19'50	0°-37'00	behind sun begin	-1999 May 19 j 08:06	10°♃04'51	
min. Earth dist.	-2007 Oct 16 j 20:57	7°♃19'31	18.41300 AU	behind sun end	-1999 May 19 j 18:05	10°♃06'19	
direct	-2007 Dec 30 j 07:15	5°♃19'43		max. Earth dist.	-1999 May 18 j 17:40	10°♃02'40	19.88343 AU
				retrograde	-1999 Sep 06 j 16:54	14°♃23'26	
conjunction	-2006 Apr 17 j 15:03	9°♃25'46	0°-32'-12	opposition	-1999 Nov 19 j 23:54	12°♃21'09	0°-10'-20
minimum elong	-2006 Apr 17 j 15:03	9°♃25'46	0°32'13	min. Earth dist.	-1999 Nov 20 j 16:05	12°♃19'24	17.85044 AU
max. Earth dist.	-2006 Apr 17 j 09:47	9°♃25'00	20.37778 AU	direct	-1998 Feb 02 j 21:50	10°♃17'48	
retrograde	-2006 Aug 06 j 15:06	13°♃37'26					
opposition	-2006 Oct 21 j 04:25	11°♃35'58	0°-34'-19	conjunction	-1998 May 24 j 13:05	14°♃36'45	0°-7'-34
min. Earth dist.	-2006 Oct 21 j 10:03	11°♃35'22	18.34194 AU	minimum elong	-1998 May 24 j 13:05	14°♃36'45	0°07'32
direct	-2005 Jan 03 j 17:40	9°♃35'24		behind sun begin	-1998 May 24 j 06:56	14°♃35'51	
				behind sun end	-1998 May 24 j 19:14	14°♃37'40	
conjunction	-2005 Apr 22 j 08:35	13°♃42'55	0°-29'-40	max. Earth dist.	-1998 May 23 j 17:03	14°♃33'44	19.81794 AU
minimum elong	-2005 Apr 22 j 08:36	13°♃42'55	0°29'40		-1998 May 30 j 23:01	15°♃	
max. Earth dist.	-2005 Apr 22 j 00:50	13°♃41'47	20.30619 AU	retrograde	-1998 Sep 11 j 12:38	18°♃55'26	
retrograde	-2005 Aug 11 j 07:02	17°♃55'27		opposition	-1998 Nov 24 j 16:15	16°♃53'09	0°-6'-21
opposition	-2005 Oct 25 j 15:22	15°♃53'47	0°-31'-24	min. Earth dist.	-1998 Nov 25 j 09:54	16°♃51'14	17.78574 AU
min. Earth dist.	-2005 Oct 25 j 22:06	15°♃53'04	18.26989 AU		-1997 Jan 18 j 17:03	15°♃	
direct	-2004 Jan 08 j 06:05	13°♃52'45		direct	-1997 Feb 07 j 15:26	14°♃49'28	
					-1997 Feb 27 j 13:06	15°♃	
conjunction	-2004 Apr 26 j 03:13	18°♃01'49	0°-26'-57				
minimum elong	-2004 Apr 26 j 03:13	18°♃01'49	0°26'57	conjunction	-1997 May 29 j 13:33	19°♃10'03	0°-3'-58
max. Earth dist.	-2004 Apr 25 j 17:54	18°♃00'27	20.23380 AU	minimum elong	-1997 May 29 j 13:33	19°♃10'03	0°03'57
retrograde	-2004 Aug 14 j 22:30	22°♃15'13		behind sun begin	-1997 May 29 j 06:51	19°♃09'03	
opposition	-2004 Oct 29 j 02:57	20°♃13'22	0°-28'-18	behind sun end	-1997 May 29 j 20:16	19°♃11'02	
min. Earth dist.	-2004 Oct 29 j 11:58	20°♃12'24	18.19746 AU	max. Earth dist.	-1997 May 28 j 14:37	19°♃06'34	19.75403 AU
direct	-2003 Jan 11 j 17:56	18°♃11'54		retrograde	-1997 Sep 16 j 09:07	23°♃29'33	
				opposition	-1997 Nov 29 j 09:26	21°♃27'13	0°-2'-19
conjunction	-2003 Apr 30 j 22:37	22°♃22'32	0°-24'-3	min. Earth dist.	-1997 Nov 30 j 04:44	21°♃25'07	17.72273 AU
minimum elong	-2003 Apr 30 j 22:37	22°♃22'32	0°24'03	direct	-1996 Feb 12 j 11:32	19°♃23'11	
max. Earth dist.	-2003 Apr 30 j 10:39	22°♃20'46	20.16153 AU				
retrograde	-2003 Aug 19 j 15:38	26°♃36'49		conjunction	-1996 Jun 02 j 15:09	23°♃45'21	0°00'-14
opposition	-2003 Nov 02 j 15:12	24°♃34'49	0°-25'-1	minimum elong	-1996 Jun 02 j 15:09	23°♃45'21	0°00'13
min. Earth dist.	-2003 Nov 03 j 01:17	24°♃33'44	18.12545 AU	behind sun begin	-1996 Jun 02 j 08:25	23°♃44'21	
direct	-2002 Jan 16 j 07:48	22°♃32'55		behind sun end	-1996 Jun 02 j 21:52	23°♃46'21	
				max. Earth dist.	-1996 Jun 01 j 15:38	23°♃41'47	19.69171 AU
conjunction	-2002 May 05 j 18:58	26°♃45'11	0°-21'-1	asc. node	-1996 Jun 27 j 13:31	25°♃14'55	
minimum elong	-2002 May 05 j 18:58	26°♃45'11	0°21'01	retrograde	-1996 Sep 20 j 06:28	28°♃05'35	
max. Earth dist.	-2002 May 05 j 05:51	26°♃43'14	20.08978 AU	opposition	-1996 Dec 03 j 03:21	26°♃03'13	0°01'46
	-2002 Jul 06 j 11:53	0°♃		min. Earth dist.	-1996 Dec 03 j 23:47	26°♃00'59	17.66126 AU
retrograde	-2002 Aug 24 j 08:38	1°♃00'20		direct	-1995 Feb 16 j 07:57	23°♃58'50	
	-2002 Oct 13 j 01:06	30°♃					
opposition	-2002 Nov 07 j 04:14	28°♃58'14	0°-21'-33	conjunction	-1995 Jun 07 j 17:16	28°♃22'30	0°03'31
min. Earth dist.	-2002 Nov 07 j 16:12	28°♃56'57	18.05426 AU	minimum elong	-1995 Jun 07 j 17:17	28°♃22'30	0°03'33
direct	-2001 Jan 20 j 21:11	26°♃55'56		behind sun begin	-1995 Jun 07 j 10:33	28°♃21'30	
	-2001 Apr 20 j 22:14	0°♃		behind sun end	-1995 Jun 08 j 00:01	28°♃23'31	
				max. Earth dist.	-1995 Jun 06 j 14:58	28°♃18'29	19.63119 AU
conjunction	-2001 May 10 j 16:03	1°♃09'51	0°-17'-49		-1995 Jul 04 j 20:15	0°♃	
minimum elong	-2001 May 10 j 16:03	1°♃09'51	0°17'49	retrograde	-1995 Sep 25 j 03:47	2°♃43'25	
max. Earth dist.	-2001 May 10 j 00:15	1°♃07'30	20.01938 AU	opposition	-1995 Dec 07 j 22:13	0°♃40'59	0°05'52
retrograde	-2001 Aug 29 j 02:54	5°♃25'55		min. Earth dist.	-1995 Dec 08 j 20:22	0°♃38'35	17.60192 AU
opposition	-2001 Nov 11 j 17:58	3°♃23'42	0°-17'-57		-1995 Dec 23 j 20:57	30°♃	
min. Earth dist.	-2001 Nov 12 j 07:01	3°♃22'18	17.98468 AU	direct	-1994 Feb 21 j 05:20	28°♃36'14	
direct	-2000 Jan 25 j 12:45	1°♃21'02			-1994 Apr 19 j 20:33	0°♃	
conjunction	-2000 May 14 j 14:08	5°♃36'37	0°-14'-30	conjunction	-1994 Jun 12 j 19:58	3°♃01'21	0°07'11
minimum elong	-2000 May 14 j 14:08	5°♃36'37	0°14'30	minimum elong	-1994 Jun 12 j 19:58	3°♃01'21	0°07'13

Attention, astronomical year style is used: The year -1994 in astronomical counting style is the year 1995 BCE in historical counting style.

behind sun begin	-1994 Jun 12 j 13:45	3°II00'25		opposition	-1986 Jan 14 j 06:07	8°♁29'13	0°35'40
behind sun end	-1994 Jun 13 j 02:11	3°II02'17		min. Earth dist.	-1986 Jan 15 j 07:17	8°♁26'27	17.27708 AU
max. Earth dist.	-1994 Jun 11 j 17:23	2°II57'16	19.57298 AU	direct	-1986 Mar 31 j 09:42	6°♁22'24	
retrograde	-1994 Sep 30 j 03:04	7°II22'52		max. Earth dist.	-1986 Jul 20 j 22:51	10°♁50'47	19.26887 AU
opposition	-1994 Dec 12 j 17:46	5°II20'23	0°09'58				
min. Earth dist.	-1994 Dec 13 j 16:26	5°II17'54	17.54507 AU	conjunction	-1986 Jul 22 j 03:38	10°♁55'19	0°33'20
direct	-1993 Feb 26 j 04:02	3°II15'15		minimum elong	-1986 Jul 22 j 03:38	10°♁55'19	0°33'23
				retrograde	-1986 Nov 07 j 01:09	15°♁19'25	
conjunction	-1993 Jun 17 j 23:04	7°II41'42	0°10'50	opposition	-1985 Jan 19 j 06:54	13°♁16'53	0°38'35
minimum elong	-1993 Jun 17 j 23:04	7°II41'42	0°10'52	min. Earth dist.	-1985 Jan 20 j 06:41	13°♁14'17	17.26305 AU
behind sun begin	-1993 Jun 17 j 17:59	7°II40'56		direct	-1985 Apr 05 j 14:17	11°♁10'04	
behind sun end	-1993 Jun 18 j 04:09	7°II42'28		max. Earth dist.	-1985 Jul 26 j 04:50	15°♁39'08	19.25785 AU
max. Earth dist.	-1993 Jun 16 j 18:26	7°II37'18	19.51768 AU				
retrograde	-1993 Oct 05 j 00:47	12°II03'47		conjunction	-1985 Jul 27 j 08:02	15°♁43'25	0°35'50
opposition	-1993 Dec 17 j 14:02	10°II01'13	0°14'01	minimum elong	-1985 Jul 27 j 08:02	15°♁43'25	0°35'53
min. Earth dist.	-1993 Dec 18 j 14:20	9°II58'33	17.49166 AU	retrograde	-1985 Nov 12 j 00:57	20°♁07'31	
direct	-1992 Mar 02 j 01:59	7°II55'43		opposition	-1984 Jan 24 j 08:14	18°♁05'08	0°41'15
max. Earth dist.	-1992 Jun 20 j 21:57	12°II18'59	19.46613 AU	min. Earth dist.	-1984 Jan 25 j 08:26	18°♁02'29	17.25501 AU
				direct	-1984 Apr 09 j 17:30	15°♁58'21	
conjunction	-1992 Jun 22 j 02:40	12°II23'26	0°14'25	max. Earth dist.	-1984 Jul 30 j 08:39	20°♁27'39	19.25271 AU
minimum elong	-1992 Jun 22 j 02:40	12°II23'26	0°14'27				
behind sun begin	-1992 Jun 21 j 23:51	12°II23'00		conjunction	-1984 Jul 31 j 12:10	20°♁32'00	0°38'06
behind sun end	-1992 Jun 22 j 05:28	12°II23'51		minimum elong	-1984 Jul 31 j 12:10	20°♁31'59	0°38'08
retrograde	-1992 Oct 09 j 01:37	16°II45'58		retrograde	-1984 Nov 16 j 02:34	24°♁56'03	
opposition	-1992 Dec 21 j 10:59	14°II43'20	0°17'59	opposition	-1983 Jan 28 j 10:02	22°♁53'48	0°43'38
min. Earth dist.	-1992 Dec 22 j 11:14	14°II40'40	17.44212 AU	min. Earth dist.	-1983 Jan 29 j 08:58	22°♁51'18	17.25265 AU
direct	-1991 Mar 07 j 02:32	12°II37'30		direct	-1983 Apr 14 j 22:46	20°♁47'03	
max. Earth dist.	-1991 Jun 26 j 00:40	17°II01'44	19.41877 AU				
				conjunction	-1983 Aug 05 j 16:08	25°♁20'49	0°40'05
conjunction	-1991 Jun 27 j 06:30	17°II06'22	0°17'55	minimum elong	-1983 Aug 05 j 16:08	25°♁20'49	0°40'08
minimum elong	-1991 Jun 27 j 06:30	17°II06'22	0°17'59	max. Earth dist.	-1983 Aug 04 j 14:36	25°♁16'47	19.25294 AU
retrograde	-1991 Oct 13 j 23:30	21°II29'19		retrograde	-1983 Nov 21 j 02:57	29°♁44'44	
opposition	-1991 Dec 26 j 08:43	19°II26'37	0°21'51	opposition	-1982 Feb 02 j 12:25	27°♁42'37	0°45'42
min. Earth dist.	-1991 Dec 27 j 10:18	19°II23'48	17.39733 AU	min. Earth dist.	-1982 Feb 03 j 11:12	27°♁40'08	17.25547 AU
direct	-1990 Mar 12 j 01:45	17°II20'27		direct	-1982 Apr 20 j 03:03	25°♁35'57	
max. Earth dist.	-1990 Jul 01 j 04:49	21°II45'44	19.37659 AU		-1982 Aug 08 j 06:41	0°♁	
				conjunction	-1982 Aug 10 j 19:38	0°♁09'40	0°41'48
conjunction	-1990 Jul 02 j 10:33	21°II50'22	0°21'19	minimum elong	-1982 Aug 10 j 19:38	0°♁09'39	0°41'50
minimum elong	-1990 Jul 02 j 10:33	21°II50'22	0°21'22	max. Earth dist.	-1982 Aug 09 j 17:56	0°♁05'35	19.25839 AU
retrograde	-1990 Oct 19 j 00:37	26°II13'40		retrograde	-1982 Nov 26 j 04:25	4°♁33'21	
opposition	-1990 Dec 31 j 07:05	24°II10'55	0°25'34	opposition	-1981 Feb 07 j 14:54	2°♁31'20	0°47'27
min. Earth dist.	-1989 Jan 01 j 07:52	24°II08'12	17.35794 AU	min. Earth dist.	-1981 Feb 08 j 12:27	2°♁29'00	17.26352 AU
direct	-1989 Mar 17 j 03:45	22°II04'30		direct	-1981 Apr 25 j 08:08	0°♁24'45	
max. Earth dist.	-1989 Jul 06 j 08:55	26°II30'42	19.34004 AU				
				conjunction	-1981 Aug 15 j 22:46	4°♁58'15	0°43'13
conjunction	-1989 Jul 07 j 14:39	26°II35'20	0°24'35	minimum elong	-1981 Aug 15 j 22:46	4°♁58'15	0°43'15
minimum elong	-1989 Jul 07 j 14:38	26°II35'20	0°24'37	max. Earth dist.	-1981 Aug 14 j 23:19	4°♁54'32	19.26888 AU
	-1989 Sep 07 j 11:13	0°♁		retrograde	-1981 Dec 01 j 05:05	9°♁21'37	
retrograde	-1989 Oct 23 j 22:58	0°♁58'55		opposition	-1980 Feb 12 j 17:41	7°♁19'43	0°48'51
	-1989 Dec 10 j 18:02	30°RII		min. Earth dist.	-1980 Feb 13 j 14:29	7°♁17'28	17.27635 AU
opposition	-1988 Jan 05 j 06:12	28°II56'10	0°29'08	direct	-1980 Apr 29 j 12:23	5°♁13'15	
min. Earth dist.	-1988 Jan 06 j 07:56	28°II53'20	17.32455 AU	max. Earth dist.	-1980 Aug 19 j 02:03	9°♁42'40	19.28423 AU
direct	-1988 Mar 21 j 04:21	26°II49'33					
	-1988 Jun 19 j 21:21	0°♁		conjunction	-1980 Aug 20 j 01:16	9°♁46'21	0°44'19
conjunction	-1988 Jul 11 j 18:58	1°♁21'12	0°27'42	minimum elong	-1980 Aug 20 j 01:16	9°♁46'21	0°44'21
minimum elong	-1988 Jul 11 j 18:58	1°♁21'12	0°27'44	retrograde	-1980 Dec 05 j 06:02	14°♁09'20	
max. Earth dist.	-1988 Jul 10 j 13:16	1°♁16'32	19.30983 AU	opposition	-1979 Feb 16 j 20:28	12°♁07'30	0°49'54
retrograde	-1988 Oct 28 j 00:20	5°♁45'00		min. Earth dist.	-1979 Feb 17 j 16:07	12°♁05'23	17.29423 AU
opposition	-1987 Jan 09 j 05:42	3°♁42'16	0°32'30	direct	-1979 May 04 j 17:07	10°♁01'08	
min. Earth dist.	-1987 Jan 10 j 06:14	3°♁39'35	17.29755 AU	max. Earth dist.	-1979 Aug 24 j 06:28	14°♁30'24	19.30466 AU
direct	-1987 Mar 26 j 07:54	1°♁35'32					
				conjunction	-1979 Aug 25 j 03:15	14°♁33'42	0°45'07
conjunction	-1987 Jul 16 j 23:28	6°♁07'53	0°30'37	minimum elong	-1979 Aug 25 j 03:15	14°♁33'42	0°45'08
minimum elong	-1987 Jul 16 j 23:28	6°♁07'53	0°30'39		-1979 Sep 01 j 01:11	15°♁	
max. Earth dist.	-1987 Jul 15 j 18:41	6°♁03'22	19.28604 AU	retrograde	-1979 Dec 10 j 06:14	18°♁56'11	
retrograde	-1987 Nov 01 j 23:24	10°♁31'51		opposition	-1978 Feb 21 j 23:23	16°♁54'26	0°50'37

Attention, astronomical year style is used: The year -1978 in astronomical counting style is the year 1979 BCE in historical counting style.

min. Earth dist.	-1978 Feb 22 j 17:27	16° $\Omega$ 52'30	17.31708 AU	retrograde	-1970 Jan 16 j 12:15	26° $\Upsilon$ 22'47	
	-1978 Apr 18 j 13:35	15° $\Upsilon$ $\Omega$		opposition	-1970 Apr 01 j 14:13	24° $\Upsilon$ 22'01	0°44'05
direct	-1978 May 09 j 21:29	14° $\Omega$ 48'14		min. Earth dist.	-1970 Apr 01 j 15:45	24° $\Upsilon$ 21'52	17.69100 AU
	-1978 May 31 j 01:30	15° $\Omega$		direct	-1970 Jun 17 j 21:43	22° $\Upsilon$ 18'21	
max. Earth dist.	-1978 Aug 29 j 08:27	19° $\Omega$ 16'56	19.33018 AU				
				conjunction	-1970 Oct 06 j 06:14	26° $\Upsilon$ 40'31	0°38'40
conjunction	-1978 Aug 30 j 04:11	19° $\Omega$ 20'04	0°45'35	minimum elong	-1970 Oct 06 j 06:14	26° $\Upsilon$ 40'31	0°38'40
minimum elong	-1978 Aug 30 j 04:11	19° $\Omega$ 20'04	0°45'37	max. Earth dist.	-1970 Oct 06 j 05:17	26° $\Upsilon$ 40'22	19.72342 AU
retrograde	-1978 Dec 15 j 05:56	23° $\Omega$ 42'01			-1970 Dec 06 j 03:34	0° $\Omega$	
opposition	-1977 Feb 27 j 02:10	21° $\Omega$ 40'18	0°50'58	retrograde	-1969 Jan 21 j 06:54	0° $\Omega$ 56'33	
min. Earth dist.	-1977 Feb 27 j 19:03	21° $\Omega$ 38'30	17.34529 AU		-1969 Mar 10 j 15:35	30° $\Upsilon$ $\Upsilon$	
direct	-1977 May 15 j 01:56	19° $\Omega$ 34'15		opposition	-1969 Apr 06 j 14:28	28° $\Upsilon$ 55'58	0°41'55
max. Earth dist.	-1977 Sep 03 j 11:17	24° $\Omega$ 02'30	19.36113 AU	min. Earth dist.	-1969 Apr 06 j 15:02	28° $\Upsilon$ 55'55	17.75626 AU
				direct	-1969 Jun 22 j 20:22	26° $\Upsilon$ 52'45	
conjunction	-1977 Sep 04 j 04:31	24° $\Omega$ 05'14	0°45'45		-1969 Sep 21 j 01:08	0° $\Omega$	
minimum elong	-1977 Sep 04 j 04:31	24° $\Omega$ 05'14	0°45'46	conjunction	-1969 Oct 10 j 23:34	1° $\Omega$ 13'22	0°36'37
retrograde	-1977 Dec 20 j 04:47	28° $\Omega$ 26'33		minimum elong	-1969 Oct 10 j 23:34	1° $\Omega$ 13'22	0°36'36
opposition	-1976 Mar 03 j 04:36	26° $\Omega$ 24'55	0°50'58	max. Earth dist.	-1969 Oct 10 j 23:46	1° $\Omega$ 13'24	19.78969 AU
min. Earth dist.	-1976 Mar 03 j 19:09	26° $\Omega$ 23'22	17.37885 AU	retrograde	-1968 Jan 26 j 03:01	5° $\Omega$ 28'31	
direct	-1976 May 19 j 06:56	24° $\Omega$ 19'04		opposition	-1968 Apr 10 j 13:54	3° $\Omega$ 28'07	0°39'29
				min. Earth dist.	-1968 Apr 10 j 11:36	3° $\Omega$ 28'21	17.82328 AU
conjunction	-1976 Sep 08 j 03:58	28° $\Omega$ 49'04	0°45'36	direct	-1968 Jun 26 j 20:24	1° $\Omega$ 25'19	
minimum elong	-1976 Sep 08 j 03:58	28° $\Omega$ 49'04	0°45'37				
max. Earth dist.	-1976 Sep 07 j 12:33	28° $\Omega$ 46'38	19.39753 AU	conjunction	-1968 Oct 14 j 16:12	5° $\Omega$ 44'22	0°34'20
	-1976 Sep 27 j 01:38	0° $\Upsilon$		minimum elong	-1968 Oct 14 j 16:12	5° $\Omega$ 44'22	0°34'20
retrograde	-1976 Dec 24 j 02:39	3° $\Upsilon$ 09'43		max. Earth dist.	-1968 Oct 14 j 19:21	5° $\Omega$ 44'51	19.85731 AU
opposition	-1975 Mar 08 j 07:06	1° $\Upsilon$ 08'09	0°50'37	retrograde	-1967 Jan 29 j 20:43	9° $\Omega$ 58'38	
min. Earth dist.	-1975 Mar 08 j 20:21	1° $\Upsilon$ 06'45	17.41816 AU	opposition	-1967 Apr 15 j 13:04	7° $\Omega$ 58'22	0°36'50
	-1975 Apr 05 j 10:18	30° $\Upsilon$ $\Omega$		min. Earth dist.	-1967 Apr 15 j 09:45	7° $\Omega$ 58'43	17.89135 AU
direct	-1975 May 24 j 10:39	29° $\Omega$ 02'33		direct	-1967 Jul 01 j 18:08	5° $\Omega$ 56'01	
	-1975 Jul 10 j 20:40	0° $\Upsilon$					
conjunction	-1975 Sep 13 j 02:26	3° $\Upsilon$ 31'27	0°45'09	conjunction	-1967 Oct 19 j 07:39	10° $\Omega$ 13'25	0°31'52
minimum elong	-1975 Sep 13 j 02:26	3° $\Upsilon$ 31'27	0°45'10	minimum elong	-1967 Oct 19 j 07:39	10° $\Omega$ 13'25	0°31'51
max. Earth dist.	-1975 Sep 12 j 13:31	3° $\Upsilon$ 29'25	19.43976 AU	max. Earth dist.	-1967 Oct 19 j 11:44	10° $\Omega$ 14'02	19.92578 AU
retrograde	-1975 Dec 29 j 00:48	7° $\Upsilon$ 51'24		retrograde	-1966 Feb 03 j 15:13	14° $\Omega$ 26'48	
opposition	-1974 Mar 13 j 09:15	5° $\Upsilon$ 49'57	0°49'56	opposition	-1966 Apr 20 j 11:23	12° $\Omega$ 26'39	0°33'58
min. Earth dist.	-1974 Mar 13 j 19:25	5° $\Upsilon$ 48'52	17.46310 AU	min. Earth dist.	-1966 Apr 20 j 05:25	12° $\Omega$ 27'16	17.96005 AU
direct	-1974 May 29 j 15:12	3° $\Upsilon$ 44'39		direct	-1966 Jul 06 j 16:22	10° $\Omega$ 24'42	
conjunction	-1974 Sep 18 j 00:09	8° $\Upsilon$ 12'21	0°44'24	conjunction	-1966 Oct 23 j 22:29	14° $\Omega$ 40'27	0°29'13
minimum elong	-1974 Sep 18 j 00:09	8° $\Upsilon$ 12'21	0°44'24	minimum elong	-1966 Oct 23 j 22:29	14° $\Omega$ 40'27	0°29'13
max. Earth dist.	-1974 Sep 17 j 13:43	8° $\Upsilon$ 10'43	19.48751 AU	max. Earth dist.	-1966 Oct 24 j 05:29	14° $\Omega$ 41'32	19.99456 AU
retrograde	-1973 Jan 02 j 21:21	12° $\Upsilon$ 31'35		retrograde	-1965 Feb 08 j 07:37	18° $\Omega$ 52'56	
opposition	-1973 Mar 18 j 11:01	10° $\Upsilon$ 30'16	0°48'56	opposition	-1965 Apr 25 j 08:52	16° $\Omega$ 52'52	0°30'55
min. Earth dist.	-1973 Mar 18 j 19:58	10° $\Upsilon$ 29'20	17.51356 AU	min. Earth dist.	-1965 Apr 25 j 01:48	16° $\Omega$ 53'36	18.02884 AU
direct	-1973 Jun 03 j 17:04	8° $\Upsilon$ 25'20		direct	-1965 Jul 11 j 13:12	14° $\Omega$ 51'18	
conjunction	-1973 Sep 22 j 20:57	12° $\Upsilon$ 51'46	0°43'22	conjunction	-1965 Oct 28 j 12:11	19° $\Omega$ 05'23	0°26'25
minimum elong	-1973 Sep 22 j 20:58	12° $\Upsilon$ 51'46	0°43'24	minimum elong	-1965 Oct 28 j 12:11	19° $\Omega$ 05'23	0°26'24
max. Earth dist.	-1973 Sep 22 j 12:34	12° $\Upsilon$ 50'27	19.54060 AU	max. Earth dist.	-1965 Oct 28 j 19:58	19° $\Omega$ 06'34	20.06346 AU
retrograde	-1972 Jan 07 j 19:09	17° $\Upsilon$ 10'13		retrograde	-1964 Feb 13 j 00:17	23° $\Omega$ 16'58	
opposition	-1972 Mar 22 j 12:24	15° $\Upsilon$ 09'05	0°47'37	opposition	-1964 Apr 29 j 05:38	21° $\Omega$ 16'58	0°27'42
min. Earth dist.	-1972 Mar 22 j 18:11	15° $\Upsilon$ 08'29	17.56883 AU	min. Earth dist.	-1964 Apr 28 j 20:10	21° $\Omega$ 17'56	18.09778 AU
direct	-1972 Jun 07 j 20:14	13° $\Upsilon$ 04'33		direct	-1964 Jul 15 j 09:14	19° $\Omega$ 15'46	
conjunction	-1972 Sep 26 j 16:56	17° $\Upsilon$ 29'38	0°42'04	conjunction	-1964 Nov 01 j 00:58	23° $\Omega$ 28'11	0°23'28
minimum elong	-1972 Sep 26 j 16:56	17° $\Upsilon$ 29'38	0°42'04	minimum elong	-1964 Nov 01 j 00:58	23° $\Omega$ 28'11	0°23'27
max. Earth dist.	-1972 Sep 26 j 11:22	17° $\Upsilon$ 28'46	19.59803 AU	max. Earth dist.	-1964 Nov 01 j 11:52	23° $\Omega$ 29'50	20.13238 AU
retrograde	-1971 Jan 11 j 14:47	21° $\Upsilon$ 47'18		retrograde	-1963 Feb 16 j 15:21	27° $\Omega$ 38'51	
opposition	-1971 Mar 27 j 13:36	19° $\Upsilon$ 46'22	0°46'00	opposition	-1963 May 04 j 01:41	25° $\Omega$ 38'55	0°24'22
min. Earth dist.	-1971 Mar 27 j 18:16	19° $\Upsilon$ 45'53	17.62822 AU	min. Earth dist.	-1963 May 03 j 14:41	25° $\Omega$ 40'02	18.16674 AU
direct	-1971 Jun 12 j 20:10	17° $\Upsilon$ 42'15		direct	-1963 Jul 20 j 05:09	23° $\Omega$ 38'05	
conjunction	-1971 Oct 01 j 12:00	22° $\Upsilon$ 05'55	0°40'29	conjunction	-1963 Nov 05 j 12:46	27° $\Omega$ 48'50	0°20'26
minimum elong	-1971 Oct 01 j 12:00	22° $\Upsilon$ 05'55	0°40'30	minimum elong	-1963 Nov 05 j 12:46	27° $\Omega$ 48'50	0°20'25
max. Earth dist.	-1971 Oct 01 j 08:05	22° $\Upsilon$ 05'18	19.65931 AU	max. Earth dist.	-1963 Nov 06 j 00:36	27° $\Omega$ 50'37	20.20152 AU

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Attention, astronomical year style is used: The year -1963 in astronomical counting style is the year 1964 BCE in historical counting style.

	-1963 Dec 13 j 08:44	0°♄		conjunction	-1956 Dec 04 j 03:42	27°♄22'05	0°-2'-31
retrograde	-1962 Feb 21 j 06:06	1°♄58'38		minimum elong	-1956 Dec 04 j 03:41	27°♄22'05	0°02'33
opposition	-1962 May 08 j 20:46	29°♄58'44	0°20'55	behind sun begin	-1956 Dec 03 j 21:10	27°♄21'09	
min. Earth dist.	-1962 May 08 j 07:30	0°♄00'05	18.23614 AU	behind sun end	-1956 Dec 04 j 10:12	27°♄23'01	
	-1962 May 08 j 08:23	30°♄		max. Earth dist.	-1956 Dec 05 j 03:42	27°♄25'37	20.67384 AU
direct	-1962 Jul 24 j 22:51	27°♄58'15			-1955 Jan 21 j 12:56	0°♄	
	-1962 Oct 04 j 04:27	0°♄		retrograde	-1955 Mar 22 j 19:43	1°♄26'46	
					-1955 May 25 j 22:15	30°♄	
conjunction	-1962 Nov 09 j 23:52	2°♄07'24	0°17'18	opposition	-1955 Jun 08 j 12:54	29°♄27'42	0°-4'-33
minimum elong	-1962 Nov 09 j 23:52	2°♄07'24	0°17'16	min. Earth dist.	-1955 Jun 07 j 13:10	29°♄30'04	18.70389 AU
max. Earth dist.	-1962 Nov 10 j 14:46	2°♄09'39	20.27098 AU	direct	-1955 Aug 24 j 03:09	27°♄29'57	
retrograde	-1961 Feb 25 j 19:52	6°♄16'20			-1955 Nov 12 j 13:30	0°♄	
opposition	-1961 May 13 j 15:02	4°♄16'32	0°17'23				
min. Earth dist.	-1961 May 13 j 00:00	4°♄18'04	18.30566 AU	conjunction	-1955 Dec 08 j 10:32	1°♄29'19	0°-5'-48
direct	-1961 Jul 29 j 16:59	2°♄16'27		minimum elong	-1955 Dec 08 j 10:32	1°♄29'19	0°05'51
				behind sun begin	-1955 Dec 08 j 04:17	1°♄28'26	
conjunction	-1961 Nov 14 j 10:00	6°♄24'01	0°14'06	behind sun end	-1955 Dec 08 j 16:47	1°♄30'13	
minimum elong	-1961 Nov 14 j 09:59	6°♄24'01	0°14'04	max. Earth dist.	-1955 Dec 09 j 10:29	1°♄32'51	20.73283 AU
behind sun begin	-1961 Nov 14 j 06:35	6°♄23'31		retrograde	-1954 Mar 27 j 06:15	5°♄33'26	
behind sun end	-1961 Nov 14 j 13:24	6°♄24'31		min. Earth dist.	-1954 Jun 12 j 02:16	3°♄36'49	18.76108 AU
max. Earth dist.	-1961 Nov 15 j 01:42	6°♄26'23	20.34055 AU	opposition	-1954 Jun 13 j 02:06	3°♄34'26	0°-8'-10
retrograde	-1960 Mar 01 j 09:10	10°♄32'09		direct	-1954 Aug 28 j 12:29	1°♄36'59	
opposition	-1960 May 17 j 08:29	8°♄32'27	0°13'47				
min. Earth dist.	-1960 May 16 j 15:33	8°♄34'09	18.37530 AU	conjunction	-1954 Dec 12 j 17:09	5°♄35'14	0°-9'-2
direct	-1960 Aug 02 j 08:17	6°♄32'45		minimum elong	-1954 Dec 12 j 17:09	5°♄35'14	0°09'04
				behind sun begin	-1954 Dec 12 j 11:33	5°♄34'26	
conjunction	-1960 Nov 17 j 19:37	10°♄38'49	0°10'51	behind sun end	-1954 Dec 12 j 22:45	5°♄36'02	
minimum elong	-1960 Nov 17 j 19:38	10°♄38'49	0°10'48	max. Earth dist.	-1954 Dec 13 j 18:38	5°♄38'58	20.78784 AU
behind sun begin	-1960 Nov 17 j 14:34	10°♄38'04		retrograde	-1953 Mar 31 j 16:30	9°♄38'47	
behind sun end	-1960 Nov 18 j 00:41	10°♄39'33		opposition	-1953 Jun 17 j 14:35	7°♄39'50	0°-11'-44
max. Earth dist.	-1960 Nov 18 j 14:11	10°♄41'35	20.41002 AU	min. Earth dist.	-1953 Jun 16 j 13:37	7°♄42'20	18.81382 AU
retrograde	-1959 Mar 05 j 21:34	14°♄46'10		direct	-1953 Sep 02 j 00:13	5°♄42'39	
min. Earth dist.	-1959 May 21 j 06:29	12°♄48'29	18.44444 AU				
opposition	-1959 May 22 j 01:14	12°♄46'36	0°10'08	conjunction	-1953 Dec 16 j 23:06	9°♄39'48	0°-12'-12
direct	-1959 Aug 07 j 00:14	10°♄47'19		minimum elong	-1953 Dec 16 j 23:06	9°♄39'48	0°12'16
				behind sun begin	-1953 Dec 16 j 18:40	9°♄39'10	
conjunction	-1959 Nov 22 j 04:20	14°♄51'55	0°07'33	behind sun end	-1953 Dec 17 j 03:33	9°♄40'26	
minimum elong	-1959 Nov 22 j 04:19	14°♄51'55	0°07'32	max. Earth dist.	-1953 Dec 18 j 00:15	9°♄43'28	20.83826 AU
behind sun begin	-1959 Nov 21 j 22:21	14°♄51'03		retrograde	-1952 Apr 04 j 01:52	13°♄42'51	
behind sun end	-1959 Nov 22 j 10:17	14°♄52'47		min. Earth dist.	-1952 Jun 20 j 01:51	11°♄46'22	18.86204 AU
max. Earth dist.	-1959 Nov 22 j 23:32	14°♄54'47	20.47875 AU	opposition	-1952 Jun 21 j 02:34	11°♄43'54	0°-15'-12
	-1959 Nov 24 j 10:26	15°♄		direct	-1952 Sep 05 j 08:25	9°♄46'55	
retrograde	-1958 Mar 10 j 10:14	18°♄58'33					
opposition	-1958 May 26 j 17:15	16°♄59'06	0°06'28	conjunction	-1952 Dec 20 j 04:55	13°♄43'03	0°-15'-17
min. Earth dist.	-1958 May 25 j 21:09	17°♄01'07	18.51266 AU	minimum elong	-1952 Dec 20 j 04:55	13°♄43'02	0°15'20
direct	-1958 Aug 11 j 13:23	15°♄00'14		behind sun begin	-1952 Dec 20 j 02:42	13°♄42'44	
				behind sun end	-1952 Dec 20 j 07:08	13°♄43'21	
conjunction	-1958 Nov 26 j 12:44	19°♄03'26	0°04'15	max. Earth dist.	-1952 Dec 21 j 07:27	13°♄46'54	20.88418 AU
minimum elong	-1958 Nov 26 j 12:44	19°♄03'26	0°04'13	retrograde	-1951 Apr 08 j 11:21	17°♄45'36	
behind sun begin	-1958 Nov 26 j 06:18	19°♄02'31		min. Earth dist.	-1951 Jun 24 j 11:52	15°♄49'13	18.90568 AU
behind sun end	-1958 Nov 26 j 19:10	19°♄04'22		opposition	-1951 Jun 25 j 13:42	15°♄46'38	0°-18'-35
max. Earth dist.	-1958 Nov 27 j 10:22	19°♄06'39	20.54612 AU	direct	-1951 Sep 09 j 18:55	13°♄49'49	
retrograde	-1957 Mar 14 j 21:20	23°♄09'22					
min. Earth dist.	-1957 May 30 j 10:42	21°♄12'15	18.57901 AU	conjunction	-1951 Dec 24 j 10:09	17°♄44'59	0°-18'-17
opposition	-1957 May 31 j 08:19	21°♄10'04	0°02'46	minimum elong	-1951 Dec 24 j 10:09	17°♄44'59	0°18'21
direct	-1957 Aug 16 j 03:13	19°♄11'36		max. Earth dist.	-1951 Dec 25 j 12:19	17°♄48'46	20.92562 AU
				retrograde	-1950 Apr 12 j 19:48	21°♄47'06	
conjunction	-1957 Nov 30 j 20:24	23°♄13'28	0°00'53	min. Earth dist.	-1950 Jun 28 j 22:54	19°♄50'37	18.94514 AU
minimum elong	-1957 Nov 30 j 20:25	23°♄13'28	0°00'51	opposition	-1950 Jun 30 j 00:16	19°♄48'05	0°-21'-51
behind sun begin	-1957 Nov 30 j 13:53	23°♄12'32		direct	-1950 Sep 14 j 02:08	17°♄51'24	
behind sun end	-1957 Dec 01 j 02:56	23°♄14'24					
max. Earth dist.	-1957 Dec 01 j 18:20	23°♄16'43	20.61134 AU	conjunction	-1950 Dec 28 j 15:15	21°♄45'42	0°-21'-11
desc. node	-1956 Mar 04 j 15:40	27°♄14'01		minimum elong	-1950 Dec 28 j 15:15	21°♄45'42	0°21'15
retrograde	-1956 Mar 18 j 09:02	27°♄18'46		max. Earth dist.	-1950 Dec 29 j 18:42	21°♄49'40	20.96303 AU
opposition	-1956 Jun 03 j 22:59	25°♄19'35	0°00'-54	retrograde	-1949 Apr 17 j 04:22	25°♄47'25	
min. Earth dist.	-1956 Jun 03 j 00:37	25°♄21'49	18.64305 AU	min. Earth dist.	-1949 Jul 03 j 07:23	23°♄51'01	18.98063 AU
direct	-1956 Aug 19 j 14:29	23°♄21'29		opposition	-1949 Jul 04 j 09:55	23°♄48'22	0°-24'-59

Attention, astronomical year style is used: The year -1949 in astronomical counting style is the year 1950 BCE in historical counting style.

direct	-1949 Sep 18 j 10:55	21°♂51'48		direct	-1941 Oct 20 j 06:26	23°♁33'58	
conjunction	-1948 Jan 01 j 19:56	25°♂45'20	0°-23'-58	conjunction	-1940 Feb 02 j 09:53	27°♁25'03	0°-40'-54
minimum elong	-1948 Jan 01 j 19:56	25°♂45'20	0°24'01	minimum elong	-1940 Feb 02 j 09:52	27°♁25'03	0°40'57
max. Earth dist.	-1948 Jan 02 j 23:00	25°♂49'15	20.99670 AU	max. Earth dist.	-1940 Feb 03 j 11:11	27°♁28'39	21.12670 AU
retrograde	-1948 Apr 20 j 12:13	29°♂46'45		retrograde	-1940 Mar 22 j 15:04	0°≈	
opposition	-1948 Jul 07 j 19:17	27°♂47'39	0°-27'-59	retrograde	-1940 May 23 j 04:55	1°≈26'14	
min. Earth dist.	-1948 Jul 06 j 17:15	27°♂50'15	19.01268 AU	min. Earth dist.	-1940 Jul 26 j 10:24	30°♁	
direct	-1948 Sep 21 j 16:57	25°♂51'12		opposition	-1940 Aug 08 j 08:08	29°♁29'22	19.12480 AU
				opposition	-1940 Aug 09 j 06:48	29°♁27'05	0°-45'-56
conjunction	-1947 Jan 05 j 00:31	29°♂44'04	0°-26'-37	direct	-1940 Oct 23 j 09:25	27°♁31'13	
minimum elong	-1947 Jan 05 j 00:31	29°♂44'04	0°26'41		-1939 Jan 12 j 00:47	0°≈	
max. Earth dist.	-1947 Jan 06 j 04:48	29°♂48'09	21.02700 AU	conjunction	-1939 Feb 05 j 15:39	1°≈22'24	0°-42'-13
	-1947 Jan 09 j 15:04	0°♁		minimum elong	-1939 Feb 05 j 15:39	1°≈22'24	0°42'16
retrograde	-1947 Apr 24 j 20:41	3°♁45'14		max. Earth dist.	-1939 Feb 06 j 16:34	1°≈25'56	21.12045 AU
min. Earth dist.	-1947 Jul 11 j 00:47	1°♁48'50	19.04123 AU	retrograde	-1939 May 27 j 13:49	5°≈23'46	
opposition	-1947 Jul 12 j 03:58	1°♁46'07	0°-30'-50	opposition	-1939 Aug 13 j 13:08	3°≈24'32	0°-47'-18
	-1947 Sep 05 j 18:36	30°♁		min. Earth dist.	-1939 Aug 12 j 14:38	3°≈26'48	19.11547 AU
direct	-1947 Sep 26 j 00:06	29°♂49'47		direct	-1939 Oct 27 j 15:58	1°≈28'35	
	-1947 Oct 15 j 22:52	0°♁					
conjunction	-1946 Jan 09 j 04:58	3°♁42'06	0°-29'-8	conjunction	-1938 Feb 09 j 21:40	5°≈19'55	0°-43'-21
minimum elong	-1946 Jan 09 j 04:58	3°♁42'06	0°29'10	minimum elong	-1938 Feb 09 j 21:40	5°≈19'55	0°43'24
max. Earth dist.	-1946 Jan 10 j 08:39	3°♁46'05	21.05377 AU	max. Earth dist.	-1938 Feb 10 j 20:31	5°≈23'10	21.10818 AU
retrograde	-1946 Apr 29 j 04:05	7°♁43'05		retrograde	-1938 May 31 j 21:06	9°≈21'31	
min. Earth dist.	-1946 Jul 15 j 09:50	5°♁46'35	19.06632 AU	opposition	-1938 Aug 17 j 19:18	7°≈22'08	0°-48'-25
opposition	-1946 Jul 16 j 12:09	5°♁43'57	0°-33'-31	min. Earth dist.	-1938 Aug 16 j 23:05	7°≈24'11	19.10039 AU
direct	-1946 Sep 30 j 05:00	3°♁47'45		direct	-1938 Oct 31 j 19:10	5°≈26'02	
conjunction	-1945 Jan 13 j 09:31	7°♁39'37	0°-31'-30	conjunction	-1937 Feb 14 j 04:02	9°≈17'37	0°-44'-16
minimum elong	-1945 Jan 13 j 09:31	7°♁39'37	0°31'33	minimum elong	-1937 Feb 14 j 04:02	9°≈17'37	0°44'18
max. Earth dist.	-1945 Jan 14 j 14:05	7°♁43'43	21.07701 AU	max. Earth dist.	-1937 Feb 15 j 02:25	9°≈20'48	21.09051 AU
retrograde	-1945 May 03 j 12:59	11°♁40'29		retrograde	-1937 Jun 05 j 05:30	13°≈19'29	
opposition	-1945 Jul 20 j 19:54	9°♁41'22	0°-36'-3	min. Earth dist.	-1937 Aug 21 j 05:14	11°≈21'59	19.08010 AU
min. Earth dist.	-1945 Jul 19 j 16:43	9°♁44'05	19.08760 AU	opposition	-1937 Aug 22 j 01:18	11°≈19'57	0°-49'-19
direct	-1945 Oct 04 j 11:05	7°♁45'17		direct	-1937 Nov 05 j 01:11	9°≈23'40	
conjunction	-1944 Jan 17 j 13:48	11°♁36'48	0°-33'-43	conjunction	-1936 Feb 18 j 10:28	13°≈15'35	0°-44'-58
minimum elong	-1944 Jan 17 j 13:48	11°♁36'48	0°33'46	minimum elong	-1936 Feb 18 j 10:28	13°≈15'35	0°45'01
max. Earth dist.	-1944 Jan 18 j 17:35	11°♁40'46	21.09629 AU	max. Earth dist.	-1936 Feb 19 j 06:58	13°≈18'30	21.06783 AU
retrograde	-1944 May 06 j 20:00	15°♁37'38		retrograde	-1936 Mar 21 j 01:05	15°≈	
min. Earth dist.	-1944 Jul 23 j 01:31	13°♁41'08	19.10490 AU	retrograde	-1936 Jun 08 j 12:58	17°≈17'46	
opposition	-1944 Jul 24 j 03:31	13°♁38'32	0°-38'-25	opposition	-1936 Aug 25 j 07:23	15°≈18'04	0°-49'-59
direct	-1944 Oct 07 j 15:14	11°♁42'33		min. Earth dist.	-1936 Aug 24 j 13:30	15°≈19'53	19.05521 AU
conjunction	-1943 Jan 20 j 18:32	15°♁33'49	0°-35'-46	direct	-1936 Sep 01 j 18:18	15°≈	
minimum elong	-1943 Jan 20 j 18:31	15°♁33'49	0°35'50	direct	-1936 Nov 08 j 04:55	13°≈21'35	
max. Earth dist.	-1943 Jan 21 j 22:53	15°♁37'52	21.11146 AU		-1935 Jan 11 j 02:29	15°≈	
retrograde	-1943 May 11 j 05:37	19°♁34'39		conjunction	-1935 Feb 21 j 17:38	17°≈13'56	0°-45'-27
min. Earth dist.	-1943 Jul 27 j 08:07	17°♁38'13	19.11774 AU	minimum elong	-1935 Feb 21 j 17:38	17°≈13'56	0°45'30
opposition	-1943 Jul 28 j 10:33	17°♁35'34	0°-40'-36	max. Earth dist.	-1935 Feb 22 j 13:40	17°≈16'47	21.04090 AU
direct	-1943 Oct 11 j 20:58	15°♁39'41		retrograde	-1935 Jun 12 j 21:41	21°≈16'29	
conjunction	-1942 Jan 24 j 23:21	19°♁30'48	0°-37'-39	opposition	-1935 Aug 29 j 13:08	19°≈16'38	0°-50'-24
minimum elong	-1942 Jan 24 j 23:21	19°♁30'48	0°37'43	min. Earth dist.	-1935 Aug 28 j 19:27	19°≈18'25	19.02623 AU
max. Earth dist.	-1942 Jan 26 j 02:24	19°♁34'39	21.12187 AU	direct	-1935 Nov 12 j 10:21	17°≈19'55	
retrograde	-1942 May 15 j 12:23	23°♁31'43		conjunction	-1934 Feb 26 j 01:09	21°≈12'48	0°-45'-43
opposition	-1942 Aug 01 j 17:33	21°♁32'38	0°-42'-35	minimum elong	-1934 Feb 26 j 01:09	21°≈12'48	0°45'46
min. Earth dist.	-1942 Jul 31 j 16:51	21°♁35'06	19.12568 AU	max. Earth dist.	-1934 Feb 26 j 19:11	21°≈15'21	21.01000 AU
direct	-1942 Oct 16 j 00:18	19°♁36'48		retrograde	-1934 Jun 17 j 05:28	25°≈15'47	
conjunction	-1941 Jan 29 j 04:30	23°♁27'51	0°-39'-22	opposition	-1934 Sep 02 j 19:11	23°≈15'47	0°-50'-35
minimum elong	-1941 Jan 29 j 04:30	23°♁27'51	0°39'26	min. Earth dist.	-1934 Sep 02 j 03:43	23°≈17'21	18.99355 AU
max. Earth dist.	-1941 Jan 30 j 07:36	23°♁31'43	21.12713 AU	direct	-1934 Nov 16 j 14:17	21°≈18'51	
retrograde	-1941 May 19 j 21:53	27°♁28'53		conjunction	-1933 Mar 02 j 09:10	25°≈12'21	0°-45'-47
min. Earth dist.	-1941 Aug 04 j 23:23	25°♁32'16	19.12812 AU	minimum elong	-1933 Mar 02 j 09:10	25°≈12'21	0°45'49
opposition	-1941 Aug 06 j 00:07	25°♁29'47	0°-44'-22	max. Earth dist.	-1933 Mar 03 j 02:37	25°≈14'50	20.97565 AU

Attention, astronomical year style is used: The year -1933 in astronomical counting style is the year 1934 BCE in historical counting style.

retrograde	-1933 Jun 21 j 15:11	29°≈15'50				-1925 May 13 j 04:47	0°Υ	
min. Earth dist.	-1933 Sep 06 j 09:54	27°≈17'15	18.95748 AU	retrograde		-1925 Jul 25 j 09:54	2°Υ02'50	
opposition	-1933 Sep 07 j 01:10	27°≈15'42	0°-50'-32	opposition		-1925 Oct 09 j 12:27	0°Υ01'52	0°-41'-10
direct	-1933 Nov 20 j 20:00	25°≈18'34		min. Earth dist.		-1925 Oct 09 j 11:24	0°Υ01'58	18.54620 AU
						-1925 Oct 10 j 06:12	30°R⋈	
conjunction	-1932 Mar 05 j 17:46	29°≈12'48	0°-45'-37	direct		-1925 Dec 23 j 02:01	28°⋈02'33	
minimum elong	-1932 Mar 05 j 17:46	29°≈12'48	0°45'38			-1924 Mar 02 j 01:10	0°Υ	
max. Earth dist.	-1932 Mar 06 j 09:11	29°≈14'59	20.93799 AU					
	-1932 Mar 19 j 14:39	0°⋈		conjunction		-1924 Apr 08 j 19:22	2°Υ05'44	0°-36'-11
retrograde	-1932 Jun 24 j 23:36	3°⋈16'50		minimum elong		-1924 Apr 08 j 19:22	2°Υ05'44	0°36'13
opposition	-1932 Sep 10 j 07:28	1°⋈16'35	0°-50'-14	max. Earth dist.		-1924 Apr 08 j 18:30	2°Υ05'36	20.51302 AU
min. Earth dist.	-1932 Sep 09 j 18:33	1°⋈17'55	18.91825 AU	retrograde		-1924 Jul 28 j 22:16	6°Υ15'45	
	-1932 Oct 14 j 03:46	30°R≈		opposition		-1924 Oct 12 j 21:46	4°Υ14'36	0°-38'-54
direct	-1932 Nov 23 j 23:55	29°≈19'14		min. Earth dist.		-1924 Oct 12 j 23:34	4°Υ14'25	18.47907 AU
	-1931 Jan 02 j 23:45	0°⋈		direct		-1924 Dec 26 j 10:12	2°Υ14'52	
conjunction	-1931 Mar 10 j 03:11	3°⋈14'18	0°-45'-13	conjunction		-1923 Apr 13 j 11:24	6°Υ19'27	0°-34'-1
minimum elong	-1931 Mar 10 j 03:11	3°⋈14'18	0°45'16	minimum elong		-1923 Apr 13 j 11:24	6°Υ19'27	0°34'02
max. Earth dist.	-1931 Mar 10 j 17:42	3°⋈16'22	20.89730 AU	max. Earth dist.		-1923 Apr 13 j 08:19	6°Υ19'00	20.44488 AU
retrograde	-1931 Jun 29 j 10:51	7°⋈18'57		retrograde		-1923 Aug 02 j 14:05	10°Υ30'18	
opposition	-1931 Sep 14 j 13:52	5°⋈18'37	0°-49'-41	opposition		-1923 Oct 17 j 07:30	8°Υ28'57	0°-36'-24
min. Earth dist.	-1931 Sep 14 j 01:26	5°⋈19'54	18.87586 AU	min. Earth dist.		-1923 Oct 17 j 10:19	8°Υ28'39	18.40991 AU
direct	-1931 Nov 28 j 06:24	3°⋈21'03		direct		-1923 Dec 30 j 21:41	6°Υ28'47	
conjunction	-1930 Mar 14 j 13:15	7°⋈17'03	0°-44'-37	conjunction		-1922 Apr 18 j 04:09	10°Υ34'49	0°-31'-39
minimum elong	-1930 Mar 14 j 13:15	7°⋈17'03	0°44'38	minimum elong		-1922 Apr 18 j 04:09	10°Υ34'49	0°31'40
max. Earth dist.	-1930 Mar 15 j 01:28	7°⋈18'48	20.85327 AU	max. Earth dist.		-1922 Apr 17 j 23:00	10°Υ34'04	20.37487 AU
retrograde	-1930 Jul 03 j 19:58	11°⋈22'23		retrograde		-1922 Aug 07 j 03:26	14°Υ46'30	
opposition	-1930 Sep 18 j 20:38	9°⋈21'58	0°-48'-54	opposition		-1922 Oct 21 j 17:52	12°Υ44'59	0°-33'-41
min. Earth dist.	-1930 Sep 18 j 10:50	9°⋈22'59	18.83019 AU	min. Earth dist.		-1922 Oct 21 j 23:15	12°Υ44'24	18.33938 AU
direct	-1930 Dec 02 j 10:48	7°⋈24'11		direct		-1921 Jan 04 j 07:05	10°Υ44'23	
conjunction	-1929 Mar 19 j 00:10	11°⋈21'13	0°-43'-46	conjunction		-1921 Apr 22 j 21:43	14°Υ51'53	0°-29'-6
minimum elong	-1929 Mar 19 j 00:10	11°⋈21'13	0°43'48	minimum elong		-1921 Apr 22 j 21:43	14°Υ51'53	0°29'06
max. Earth dist.	-1929 Mar 19 j 11:05	11°⋈22'47	20.80603 AU	max. Earth dist.		-1921 Apr 22 j 14:21	14°Υ50'49	20.30408 AU
retrograde	-1929 Jul 08 j 08:30	15°⋈27'16		retrograde		-1921 Aug 11 j 20:31	19°Υ04'26	
opposition	-1929 Sep 23 j 03:40	13°⋈26'47	0°-47'-51	opposition		-1921 Oct 26 j 04:42	17°Υ02'44	0°-30'-46
min. Earth dist.	-1929 Sep 22 j 18:37	13°⋈27'43	18.78110 AU	min. Earth dist.		-1921 Oct 26 j 10:59	17°Υ02'04	18.26839 AU
direct	-1929 Dec 06 j 18:17	11°⋈28'47		direct		-1920 Jan 08 j 19:43	15°Υ01'42	
conjunction	-1928 Mar 22 j 11:46	15°⋈26'55	0°-42'-42	conjunction		-1920 Apr 26 j 16:10	19°Υ10'45	0°-26'-22
minimum elong	-1928 Mar 22 j 11:46	15°⋈26'55	0°42'44	minimum elong		-1920 Apr 26 j 16:10	19°Υ10'45	0°26'21
max. Earth dist.	-1928 Mar 22 j 20:10	15°⋈28'07	20.75506 AU	max. Earth dist.		-1920 Apr 26 j 07:11	19°Υ09'26	20.23295 AU
retrograde	-1928 Jul 11 j 18:45	19°⋈33'44		retrograde		-1920 Aug 15 j 11:24	23°Υ24'10	
opposition	-1928 Sep 26 j 11:19	17°⋈33'10	0°-46'-33	opposition		-1920 Oct 29 j 16:21	21°Υ22'19	0°-27'-39
min. Earth dist.	-1928 Sep 26 j 05:11	17°⋈33'48	18.72821 AU	min. Earth dist.		-1920 Oct 30 j 00:57	21°Υ21'24	18.19735 AU
direct	-1928 Dec 10 j 00:00	15°⋈34'54		direct		-1919 Jan 12 j 06:48	19°Υ20'51	
conjunction	-1927 Mar 27 j 00:31	19°⋈34'13	0°-41'-25	conjunction		-1919 May 01 j 11:33	23°Υ31'29	0°-23'-28
minimum elong	-1927 Mar 27 j 00:31	19°⋈34'13	0°41'25	minimum elong		-1919 May 01 j 11:33	23°Υ31'29	0°23'28
max. Earth dist.	-1927 Mar 27 j 06:59	19°⋈35'09	20.70028 AU	max. Earth dist.		-1919 May 01 j 00:08	23°Υ29'48	20.16221 AU
retrograde	-1927 Jul 16 j 08:11	23°⋈41'49		retrograde		-1919 Aug 20 j 05:23	27°Υ45'47	
opposition	-1927 Sep 30 j 19:06	21°⋈41'08	0°-45'-1	opposition		-1919 Nov 03 j 04:29	25°Υ43'48	0°-24'-21
min. Earth dist.	-1927 Sep 30 j 14:03	21°⋈41'40	18.67134 AU	min. Earth dist.		-1919 Nov 03 j 14:02	25°Υ42'47	18.12696 AU
direct	-1927 Dec 14 j 08:44	19°⋈42'33		direct		-1918 Jan 16 j 20:53	23°Υ41'56	
conjunction	-1926 Mar 31 j 14:01	23°⋈43'07	0°-39'-53	conjunction		-1918 May 06 j 07:52	27°Υ54'12	0°-20'-25
minimum elong	-1926 Mar 31 j 14:02	23°⋈43'07	0°39'55	minimum elong		-1918 May 06 j 07:52	27°Υ54'12	0°20'24
max. Earth dist.	-1926 Mar 31 j 17:44	23°⋈43'39	20.64137 AU	max. Earth dist.		-1918 May 05 j 19:13	27°Υ52'19	20.09217 AU
retrograde	-1926 Jul 20 j 19:34	27°⋈51'31		retrograde		-1918 Jun 12 j 02:23	0°♁	
opposition	-1926 Oct 05 j 03:37	25°⋈50'42	0°-43'-13	retrograde		-1918 Aug 24 j 21:43	2°♁09'22	
min. Earth dist.	-1926 Oct 05 j 01:32	25°⋈50'56	18.61049 AU	opposition		-1918 Nov 07 j 17:37	0°♁07'18	0°-20'-53
direct	-1926 Dec 18 j 15:52	23°⋈51'47		min. Earth dist.		-1918 Nov 08 j 05:12	0°♁06'04	18.05747 AU
						-1918 Nov 10 j 13:32	30°RΥ	
conjunction	-1925 Apr 05 j 04:14	27°⋈53'38	0°-38'-9	direct		-1917 Jan 21 j 10:01	28°Υ05'05	
minimum elong	-1925 Apr 05 j 04:14	27°⋈53'38	0°38'09			-1917 Mar 31 j 06:05	0°♁	
max. Earth dist.	-1925 Apr 05 j 05:51	27°⋈53'52	20.57883 AU					

Attention, astronomical year style is used: The year -1917 in astronomical counting style is the year 1918 BCE in historical counting style.

conjunction	-1917 May 11 j 04:49	2°♄18'57	0°-17'-13			-1911 Jun 16 j 01:40	0°♁		
minimum elong	-1917 May 11 j 04:49	2°♄18'57	0°17'13	retrograde		-1911 Sep 25 j 17:00	3°♁52'12		
max. Earth dist.	-1917 May 10 j 13:40	2°♄16'42	20.02336 AU	opposition		-1911 Dec 08 j 11:39	1°♁49'43	0°06'31	
retrograde	-1917 Aug 29 j 16:37	6°♄35'03		min. Earth dist.		-1911 Dec 09 j 09:52	1°♁47'18	17.60313 AU	
opposition	-1917 Nov 12 j 07:23	4°♄32'54	0°-17'-16			-1910 Jan 28 j 19:56	30°♁		
min. Earth dist.	-1917 Nov 12 j 20:03	4°♄31'32	17.98925 AU	direct		-1910 Feb 21 j 18:39	29°♄44'55		
direct	-1916 Jan 26 j 01:38	2°♄30'19				-1910 Mar 17 j 13:23	0°♁		
max. Earth dist.	-1916 May 14 j 10:53	6°♄43'27	19.95562 AU	max. Earth dist.		-1910 Jun 12 j 06:19	4°♁05'50	19.57369 AU	
conjunction	-1916 May 15 j 03:03	6°♄45'52	0°-13'-54	conjunction		-1910 Jun 13 j 08:58	4°♁09'55	0°07'45	
minimum elong	-1916 May 15 j 03:03	6°♄45'52	0°13'54	minimum elong		-1910 Jun 13 j 08:58	4°♁09'55	0°07'47	
behind sun begin	-1916 May 14 j 23:46	6°♄45'23		behind sun begin		-1910 Jun 13 j 02:53	4°♁09'00		
behind sun end	-1916 May 15 j 06:20	6°♄46'21		behind sun end		-1910 Jun 13 j 15:03	4°♁10'50		
retrograde	-1916 Sep 02 j 10:39	11°♄02'49		retrograde		-1910 Sep 30 j 15:39	8°♁31'22		
opposition	-1916 Nov 15 j 21:57	9°♄00'39	0°-13'-31	opposition		-1910 Dec 13 j 07:08	6°♁28'49	0°10'35	
min. Earth dist.	-1916 Nov 16 j 12:39	8°♄59'03	17.92205 AU	min. Earth dist.		-1910 Dec 14 j 05:57	6°♁26'19	17.54535 AU	
direct	-1915 Jan 29 j 17:25	6°♄57'43		direct		-1909 Feb 26 j 17:20	4°♁23'39		
max. Earth dist.	-1915 May 19 j 06:59	11°♄12'04	19.88897 AU	max. Earth dist.		-1909 Jun 17 j 07:11	8°♁45'34	19.51762 AU	
conjunction	-1915 May 20 j 02:06	11°♄14'56	0°-10'-28	conjunction		-1909 Jun 18 j 11:53	8°♁49'59	0°11'22	
minimum elong	-1915 May 20 j 02:06	11°♄14'56	0°10'27	minimum elong		-1909 Jun 18 j 11:53	8°♁49'59	0°11'24	
behind sun begin	-1915 May 19 j 20:51	11°♄14'10		behind sun begin		-1909 Jun 18 j 07:02	8°♁49'16		
behind sun end	-1915 May 20 j 07:21	11°♄15'42		behind sun end		-1909 Jun 18 j 16:44	8°♁50'43		
	-1915 Aug 03 j 00:43	15°♄		retrograde		-1909 Oct 05 j 13:45	13°♁12'01		
retrograde	-1915 Sep 07 j 06:16	15°♄32'46		opposition		-1909 Dec 18 j 03:25	11°♁09'23	0°14'36	
	-1915 Oct 12 j 20:07	15°♄		min. Earth dist.		-1909 Dec 19 j 03:38	11°♁06'44	17.49129 AU	
opposition	-1915 Nov 20 j 13:25	13°♄30'32	0°-9'-39	direct		-1908 Mar 02 j 15:48	9°♁03'51		
min. Earth dist.	-1915 Nov 21 j 05:32	13°♄28'48	17.85593 AU	max. Earth dist.		-1908 Jun 21 j 10:53	13°♁27'03	19.46557 AU	
direct	-1914 Feb 03 j 10:48	11°♄27'15							
	-1914 May 12 j 07:10	15°♄		conjunction		-1908 Jun 22 j 15:29	13°♁31'29	0°14'56	
max. Earth dist.	-1914 May 24 j 06:02	15°♄43'07	19.82315 AU	minimum elong		-1908 Jun 22 j 15:29	13°♁31'29	0°14'59	
conjunction	-1914 May 25 j 02:02	15°♄46'08	0°-6'-57	behind sun begin		-1908 Jun 22 j 13:16	13°♁31'09		
minimum elong	-1914 May 25 j 02:01	15°♄46'08	0°06'56	behind sun end		-1908 Jun 22 j 17:41	13°♁31'49		
behind sun begin	-1914 May 24 j 19:44	15°♄45'12		retrograde		-1908 Oct 09 j 13:32	17°♁54'00		
behind sun end	-1914 May 25 j 08:18	15°♄47'03		opposition		-1908 Dec 22 j 00:16	15°♁51'19	0°18'32	
retrograde	-1914 Sep 12 j 02:10	20°♄04'47		min. Earth dist.		-1908 Dec 23 j 00:25	15°♁48'40	17.44148 AU	
opposition	-1914 Nov 25 j 05:48	18°♄02'31	0°-5'-40	direct		-1907 Mar 07 j 16:04	13°♁45'27		
min. Earth dist.	-1914 Nov 25 j 23:38	18°♄00'34	17.79060 AU	conjunction		-1907 Jun 27 j 19:17	18°♁14'16	0°18'24	
direct	-1913 Feb 08 j 05:18	15°♄58'52		minimum elong		-1907 Jun 27 j 19:17	18°♁14'16	0°18'26	
max. Earth dist.	-1913 May 29 j 03:36	20°♄15'51	19.75836 AU	max. Earth dist.		-1907 Jun 26 j 13:30	18°♁09'38	19.41816 AU	
conjunction	-1913 May 30 j 02:41	20°♄19'21	0°-3'-21	retrograde		-1907 Oct 14 j 12:38	22°♁37'14		
minimum elong	-1913 May 30 j 02:39	20°♄19'21	0°03'20	opposition		-1907 Dec 26 j 22:04	20°♁34'30	0°22'22	
behind sun begin	-1913 May 29 j 19:54	20°♄18'21		min. Earth dist.		-1907 Dec 27 j 23:21	20°♁31'43	17.39686 AU	
behind sun end	-1913 May 30 j 09:25	20°♄20'20		direct		-1906 Mar 12 j 15:14	18°♁28'21		
retrograde	-1913 Sep 16 j 22:29	24°♄38'47		conjunction		-1906 Jul 02 j 23:12	22°♁58'15	0°21'46	
opposition	-1913 Nov 29 j 22:55	22°♄36'27	0°-1'-38	minimum elong		-1906 Jul 02 j 23:12	22°♁58'15	0°21'48	
min. Earth dist.	-1913 Nov 30 j 18:19	22°♄34'20	17.72649 AU	max. Earth dist.		-1906 Jul 01 j 17:49	22°♁53'40	19.37630 AU	
direct	-1912 Feb 13 j 00:39	20°♄32'25		retrograde		-1906 Oct 19 j 13:30	27°♁21'36		
asc. node	-1912 Apr 28 j 05:44	22°♄48'18		opposition		-1906 Dec 31 j 20:25	25°♁18'52	0°26'03	
max. Earth dist.	-1912 Jun 02 j 04:31	24°♄50'52	19.69482 AU	min. Earth dist.		-1905 Jan 01 j 20:54	25°♁16'10	17.35791 AU	
conjunction	-1912 Jun 03 j 04:15	24°♄54'28	0°00'22	direct		-1905 Mar 17 j 17:01	23°♁12'29		
minimum elong	-1912 Jun 03 j 04:13	24°♄54'28	0°00'24	max. Earth dist.		-1905 Jul 06 j 21:53	27°♁38'44	19.34033 AU	
behind sun begin	-1912 Jun 02 j 21:28	24°♄53'28		conjunction		-1905 Jul 08 j 03:29	27°♁43'22	0°25'00	
behind sun end	-1912 Jun 03 j 10:59	24°♄55'28		minimum elong		-1905 Jul 08 j 03:28	27°♁43'22	0°25'02	
retrograde	-1912 Sep 20 j 19:54	29°♄14'37				-1905 Aug 15 j 05:38	0°♁		
opposition	-1912 Dec 03 j 16:54	27°♄12'13	0°02'26	retrograde		-1905 Oct 24 j 12:47	2°♁07'02		
min. Earth dist.	-1912 Dec 04 j 13:35	27°♄09'58	17.66371 AU	opposition		-1904 Jan 05 j 19:27	0°♁04'20	0°29'35	
direct	-1911 Feb 16 j 21:26	25°♄07'49		min. Earth dist.		-1904 Jan 06 j 20:53	0°♁01'32	17.32518 AU	
max. Earth dist.	-1911 Jun 07 j 03:46	29°♄27'19	19.63299 AU	direct		-1904 Jan 07 j 10:55	30°♁		
conjunction	-1911 Jun 08 j 06:15	29°♄31'22	0°04'06			-1904 Mar 21 j 16:49	27°♁57'48		
minimum elong	-1911 Jun 08 j 06:15	29°♄31'22	0°04'08	max. Earth dist.		-1904 May 31 j 07:23	0°♁		
behind sun begin	-1911 Jun 07 j 23:33	29°♄30'22				-1904 Jul 11 j 02:31	2°♁24'55	19.31079 AU	
behind sun end	-1911 Jun 08 j 12:56	29°♄32'22		conjunction		-1904 Jul 12 j 07:56	2°♁29'32	0°28'04	

Attention, astronomical year style is used: The year -1904 in astronomical counting style is the year 1905 BCE in historical counting style.

minimum elong	-1904 Jul 12 j 07:56	2° $\overline{29}$ '32	0°28'06
retrograde	-1904 Oct 28 j 14:14	6° $\overline{53}$ '28	
opposition	-1903 Jan 09 j 19:06	4° $\overline{50}$ '50	0°32'55
min. Earth dist.	-1903 Jan 10 j 19:24	4° $\overline{48}$ '10	17.29873 AU
direct	-1903 Mar 26 j 20:18	2° $\overline{44}$ '12	
max. Earth dist.	-1903 Jul 16 j 07:42	7° $\overline{12}$ '10	19.28739 AU
conjunction	-1903 Jul 17 j 12:27	7° $\overline{16}$ '41	0°30'58
minimum elong	-1903 Jul 17 j 12:26	7° $\overline{16}$ '41	0°31'01
retrograde	-1903 Nov 02 j 13:51	11° $\overline{40}$ '49	
opposition	-1902 Jan 14 j 19:34	9° $\overline{38}$ '18	0°36'02
min. Earth dist.	-1902 Jan 15 j 20:38	9° $\overline{35}$ '33	17.27847 AU
direct	-1902 Mar 31 j 21:51	7° $\overline{31}$ '37	
conjunction	-1902 Jul 22 j 16:55	12° $\overline{04}$ '41	0°33'39
minimum elong	-1902 Jul 22 j 16:55	12° $\overline{04}$ '41	0°33'42
max. Earth dist.	-1902 Jul 21 j 12:08	12° $\overline{00}$ '09	19.27017 AU
retrograde	-1902 Nov 07 j 15:20	16° $\overline{28}$ '56	
opposition	-1901 Jan 19 j 20:23	14° $\overline{26}$ '31	0°38'55
min. Earth dist.	-1901 Jan 20 j 20:12	14° $\overline{23}$ '55	17.26415 AU
direct	-1901 Apr 06 j 03:02	12° $\overline{19}$ '49	
conjunction	-1901 Jul 27 j 21:27	16° $\overline{53}$ '20	0°36'07
minimum elong	-1901 Jul 27 j 21:27	16° $\overline{53}$ '20	0°36'09
max. Earth dist.	-1901 Jul 26 j 17:57	16° $\overline{49}$ '00	19.25857 AU
retrograde	-1901 Nov 12 j 15:11	21° $\overline{17}$ '36	
opposition	-1900 Jan 24 j 21:59	19° $\overline{15}$ '18	0°41'32
min. Earth dist.	-1900 Jan 25 j 22:22	19° $\overline{12}$ '38	17.25526 AU
direct	-1900 Apr 10 j 06:10	17° $\overline{08}$ '37	
max. Earth dist.	-1900 Jul 30 j 21:55	21° $\overline{37}$ '59	19.25234 AU
conjunction	-1900 Aug 01 j 01:44	21° $\overline{42}$ '23	0°38'19
minimum elong	-1900 Aug 01 j 01:44	21° $\overline{42}$ '23	0°38'22
retrograde	-1900 Nov 16 j 16:52	26° $\overline{06}$ '35	