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 06:35	1°♌55'08	0°48'33
min. Earth dist.	-2400 Feb 11 j 02:00	1°♌53'01	17.29806 AU
	-2400 Apr 06 j 04:14	30°℞♋	
direct	-2400 Apr 27 j 02:48	29°♋48'38	
	-2400 May 17 j 21:06	0°♌	
evening set	-2400 Aug 01 j 08:20	3°♌19'50	
conjunction	-2400 Aug 17 j 14:16	4°♌21'06	0°44'10
minimum elong	-2400 Aug 17 j 14:16	4°♌21'06	0°44'12
max. Earth dist.	-2400 Aug 16 j 16:41	4°♌17'41	19.30860 AU
morning rise	-2400 Sep 02 j 16:03	5°♌21'44	
retrograde	-2400 Dec 02 j 16:57	8°♌43'25	
opposition	-2399 Feb 14 j 09:08	6°♌41'38	0°49'51
min. Earth dist.	-2399 Feb 15 j 03:57	6°♌39'36	17.32135 AU
direct	-2399 May 02 j 06:27	4°♌35'21	
evening set	-2399 Aug 06 j 10:54	8°♌06'13	
conjunction	-2399 Aug 22 j 15:33	9°♌07'15	0°45'11
minimum elong	-2399 Aug 22 j 15:33	9°♌07'15	0°45'14
max. Earth dist.	-2399 Aug 21 j 19:43	9°♌04'07	19.33475 AU
morning rise	-2399 Sep 07 j 16:10	10°♌07'41	
retrograde	-2399 Dec 07 j 17:13	13°♌29'06	
opposition	-2398 Feb 19 j 11:32	11°♌27'29	0°50'49
min. Earth dist.	-2398 Feb 20 j 04:06	11°♌25'42	17.35001 AU
direct	-2398 May 07 j 11:56	9°♌21'27	
evening set	-2398 Aug 11 j 12:53	12°♌51'52	
conjunction	-2398 Aug 27 j 16:16	13°♌52'39	0°45'53
minimum elong	-2398 Aug 27 j 16:16	13°♌52'39	0°45'55
max. Earth dist.	-2398 Aug 26 j 22:18	13°♌49'49	19.36591 AU
morning rise	-2398 Sep 12 j 15:36	14°♌52'51	
	-2398 Sep 14 j 14:02	15°♌	
retrograde	-2398 Dec 12 j 15:32	18°♌13'59	
opposition	-2397 Feb 24 j 14:17	16°♌12'31	0°51'25
min. Earth dist.	-2397 Feb 25 j 06:21	16°♌10'48	17.38357 AU
	-2397 Mar 26 j 16:34	15°℞♌	
direct	-2397 May 12 j 15:28	14°♌06'45	
	-2397 Jun 27 j 05:23	15°♌	
evening set	-2397 Aug 16 j 14:03	17°♌36'34	
conjunction	-2397 Sep 01 j 16:05	18°♌37'05	0°46'17
minimum elong	-2397 Sep 01 j 16:05	18°♌37'05	0°46'19
max. Earth dist.	-2397 Aug 31 j 23:31	18°♌34'28	19.40175 AU
morning rise	-2397 Sep 17 j 14:23	19°♌37'03	
retrograde	-2397 Dec 17 j 15:20	22°♌57'50	
opposition	-2396 Feb 29 j 16:47	20°♌56'31	0°51'40
min. Earth dist.	-2396 Mar 01 j 06:16	20°♌55'05	17.42141 AU
direct	-2396 May 16 j 20:51	18°♌51'02	
evening set	-2396 Aug 20 j 14:26	22°♌20'07	
conjunction	-2396 Sep 05 j 15:21	23°♌20'23	0°46'21
minimum elong	-2396 Sep 05 j 15:21	23°♌20'23	0°46'23
max. Earth dist.	-2396 Sep 05 j 01:09	23°♌18'08	19.44155 AU
morning rise	-2396 Sep 21 j 12:27	24°♌20'05	
retrograde	-2396 Dec 21 j 12:33	27°♌40'28	
opposition	-2395 Mar 05 j 19:07	25°♌39'17	0°51'34
min. Earth dist.	-2395 Mar 06 j 08:02	25°♌37'54	17.46312 AU
direct	-2395 May 21 j 23:27	23°♌34'04	
evening set	-2395 Aug 25 j 14:04	27°♌02'21	
conjunction	-2395 Sep 10 j 13:42	28°♌02'19	0°46'07
minimum elong	-2395 Sep 10 j 13:42	28°♌02'19	0°46'08
max. Earth dist.	-2395 Sep 10 j 00:30	28°♌00'15	19.48511 AU
morning rise	-2395 Sep 26 j 09:56	29°♌01'47	
	-2395 Oct 12 j 18:42	0°♍	
retrograde	-2395 Dec 26 j 11:33	2°♍21'43	
opposition	-2394 Mar 10 j 21:06	0°♍20'38	0°51'07
min. Earth dist.	-2394 Mar 11 j 07:19	0°♍19'33	17.50828 AU
	-2394 Mar 19 j 00:39	30°℞♌	
direct	-2394 May 27 j 03:44	28°♌15'42	
	-2394 Jul 31 j 02:08	0°♍	
evening set	-2394 Aug 30 j 12:36	1°♍43'04	
conjunction	-2394 Sep 15 j 11:13	2°♍42'44	0°45'34
minimum elong	-2394 Sep 15 j 11:13	2°♍42'44	0°45'36
max. Earth dist.	-2394 Sep 15 j 00:53	2°♍41'07	19.53192 AU
morning rise	-2394 Oct 01 j 06:20	3°♍41'55	
retrograde	-2394 Dec 31 j 07:42	7°♍01'22	
opposition	-2393 Mar 15 j 22:55	5°♍00'23	0°50'19
min. Earth dist.	-2393 Mar 16 j 08:17	4°♍59'24	17.55668 AU
direct	-2393 Jun 01 j 05:36	2°♍55'46	
evening set	-2393 Sep 04 j 10:16	6°♍22'06	
conjunction	-2393 Sep 20 j 07:40	7°♍21'28	0°44'43
minimum elong	-2393 Sep 20 j 07:40	7°♍21'28	0°44'44
max. Earth dist.	-2393 Sep 19 j 22:25	7°♍20'01	19.58207 AU
morning rise	-2393 Oct 06 j 02:05	8°♍20'23	
retrograde	-2392 Jan 05 j 05:21	11°♍39'19	
opposition	-2392 Mar 20 j 00:06	9°♍38'24	0°49'12
min. Earth dist.	-2392 Mar 20 j 06:38	9°♍37'42	17.60843 AU
direct	-2392 Jun 05 j 07:46	7°♍34'03	
evening set	-2392 Sep 08 j 06:36	10°♍59'17	
conjunction	-2392 Sep 24 j 03:10	11°♍58'21	0°43'35
minimum elong	-2392 Sep 24 j 03:10	11°♍58'21	0°43'37
max. Earth dist.	-2392 Sep 23 j 21:13	11°♍57'26	19.63545 AU
morning rise	-2392 Oct 09 j 20:40	12°♍57'00	
retrograde	-2391 Jan 09 j 00:47	16°♍15'22	
opposition	-2391 Mar 25 j 00:52	14°♍14'31	0°47'47
min. Earth dist.	-2391 Mar 25 j 06:06	14°♍13'58	17.66339 AU
direct	-2391 Jun 10 j 08:28	12°♍10'30	
evening set	-2391 Sep 13 j 02:08	15°♍34'34	
conjunction	-2391 Sep 28 j 21:34	16°♍33'19	0°42'11
minimum elong	-2391 Sep 28 j 21:34	16°♍33'19	0°42'11
max. Earth dist.	-2391 Sep 28 j 16:51	16°♍32'34	19.69218 AU
morning rise	-2391 Oct 14 j 14:30	17°♍31'41	
retrograde	-2390 Jan 13 j 20:47	20°♍49'28	
opposition	-2390 Mar 30 j 00:53	18°♍48'42	0°46'04
min. Earth dist.	-2390 Mar 30 j 03:15	18°♍48'27	17.72184 AU
direct	-2390 Jun 15 j 08:17	16°♍45'01	
evening set	-2390 Sep 17 j 20:29	20°♍07'52	
conjunction	-2390 Oct 03 j 15:10	21°♍06'19	0°40'32
minimum elong	-2390 Oct 03 j 15:11	21°♍06'19	0°40'32
max. Earth dist.	-2390 Oct 03 j 14:00	21°♍06'08	19.75237 AU
morning rise	-2390 Oct 19 j 07:17	22°♍04'24	
retrograde	-2389 Jan 18 j 15:36	25°♍21'36	
opposition	-2389 Apr 04 j 00:34	23°♍20'56	0°44'04
min. Earth dist.	-2389 Apr 04 j 01:02	23°♍20'53	17.78370 AU
direct	-2389 Jun 20 j 08:13	21°♍17'38	
evening set	-2389 Sep 22 j 13:52	24°♍39'15	
conjunction	-2389 Oct 08 j 07:33	25°♍37'22	0°38'38
minimum elong	-2389 Oct 08 j 07:33	25°♍37'22	0°38'39
max. Earth dist.	-2389 Oct 08 j 07:47	25°♍37'24	19.81599 AU
morning rise	-2389 Oct 23 j 23:17	26°♍35'11	
retrograde	-2388 Jan 23 j 10:16	29°♍51'50	
opposition	-2388 Apr 07 j 23:31	27°♍51'16	0°41'49
min. Earth dist.	-2388 Apr 07 j 21:14	27°♍51'30	17.84896 AU

Attention, astronomical year style is used: The year -2388 in astronomical counting style is the year 2389 BCE in historical counting style.

direct	-2388 Jun 24 j 06:01	25°♍48'23	
evening set	-2388 Sep 26 j 06:11	29°♍08'44	
	-2388 Oct 10 j 05:00	0°♎	
conjunction	-2388 Oct 11 j 23:20	0°♎06'33	0°36'32
minimum elong	-2388 Oct 11 j 23:20	0°♎06'33	0°36'31
max. Earth dist.	-2388 Oct 12 j 03:00	0°♎07'07	19.88272 AU
morning rise	-2388 Oct 27 j 14:25	1°♎04'05	
retrograde	-2387 Jan 27 j 04:08	4°♎20'08	
opposition	-2387 Apr 12 j 21:40	2°♎19'45	0°39'21
min. Earth dist.	-2387 Apr 12 j 17:21	2°♎20'11	17.91689 AU
direct	-2387 Jun 29 j 04:56	0°♎17'19	
evening set	-2387 Sep 30 j 21:46	3°♎36'24	
conjunction	-2387 Oct 16 j 14:04	4°♎33'54	0°34'13
minimum elong	-2387 Oct 16 j 14:04	4°♎33'54	0°34'13
max. Earth dist.	-2387 Oct 16 j 19:00	4°♎34'39	19.95186 AU
morning rise	-2387 Nov 01 j 04:56	5°♎31'11	
retrograde	-2386 Jan 31 j 21:11	8°♎46'40	
opposition	-2386 Apr 17 j 19:21	6°♎46'25	0°36'39
min. Earth dist.	-2386 Apr 17 j 12:49	6°♎47'06	17.98704 AU
direct	-2386 Jul 04 j 01:07	4°♎44'28	
evening set	-2386 Oct 05 j 12:09	8°♎02'15	
conjunction	-2386 Oct 21 j 04:00	8°♎59'27	0°31'42
minimum elong	-2386 Oct 21 j 04:00	8°♎59'27	0°31'42
max. Earth dist.	-2386 Oct 21 j 12:06	9°♎00'42	20.02276 AU
morning rise	-2386 Nov 05 j 18:23	9°♎56'29	
retrograde	-2385 Feb 05 j 13:45	13°♎11'23	
opposition	-2385 Apr 22 j 16:26	11°♎11'19	0°33'45
min. Earth dist.	-2385 Apr 22 j 07:42	11°♎12'13	18.05839 AU
direct	-2385 Jul 08 j 22:49	9°♎09'52	
evening set	-2385 Oct 10 j 01:56	12°♎26'20	
conjunction	-2385 Oct 25 j 17:06	13°♎23'14	0°29'02
minimum elong	-2385 Oct 25 j 17:06	13°♎23'14	0°29'01
max. Earth dist.	-2385 Oct 26 j 02:22	13°♎24'39	20.09451 AU
morning rise	-2385 Nov 10 j 07:25	14°♎20'01	
retrograde	-2384 Feb 10 j 05:29	17°♎34'21	
opposition	-2384 Apr 26 j 12:46	15°♎34'26	0°30'40
min. Earth dist.	-2384 Apr 26 j 02:26	15°♎35'30	18.13043 AU
direct	-2384 Jul 12 j 17:00	13°♎33'26	
evening set	-2384 Oct 13 j 14:39	16°♎48'37	
conjunction	-2384 Oct 29 j 05:33	17°♎45'14	0°26'12
minimum elong	-2384 Oct 29 j 05:33	17°♎45'14	0°26'11
max. Earth dist.	-2384 Oct 29 j 17:26	17°♎47'02	20.16646 AU
morning rise	-2384 Nov 13 j 19:35	18°♎41'45	
retrograde	-2383 Feb 13 j 20:29	21°♎55'31	
opposition	-2383 May 01 j 08:23	19°♎55'46	0°27'26
min. Earth dist.	-2383 Apr 30 j 19:55	19°♎57'02	18.20202 AU
direct	-2383 Jul 17 j 12:42	17°♎55'12	
evening set	-2383 Oct 18 j 02:44	21°♎09'04	
conjunction	-2383 Nov 02 j 17:06	22°♎05'25	0°23'14
minimum elong	-2383 Nov 02 j 17:06	22°♎05'25	0°23'12
max. Earth dist.	-2383 Nov 03 j 05:56	22°♎07'21	20.23758 AU
morning rise	-2383 Nov 18 j 07:09	23°♎01'42	
retrograde	-2382 Feb 18 j 10:51	26°♎14'54	
opposition	-2382 May 06 j 03:25	24°♎15'16	0°24'04
min. Earth dist.	-2382 May 05 j 13:51	24°♎16'38	18.27266 AU
direct	-2382 Jul 22 j 05:11	22°♎15'07	
evening set	-2382 Oct 22 j 13:56	25°♎27'42	
conjunction	-2382 Nov 07 j 04:08	26°♎23'46	0°20'09
minimum elong	-2382 Nov 07 j 04:08	26°♎23'46	0°20'08
max. Earth dist.	-2382 Nov 07 j 19:10	26°♎26'02	20.30746 AU
morning rise	-2382 Nov 22 j 18:04	27°♎19'50	
	-2381 Jan 18 j 09:31	0°♏	
retrograde	-2381 Feb 23 j 00:48	0°♏32'27	
	-2381 Mar 31 j 20:01	30°℞♎	
opposition	-2381 May 10 j 21:39	28°♎32'55	0°20'35
min. Earth dist.	-2381 May 10 j 05:55	28°♎34'31	18.34159 AU
direct	-2381 Jul 26 j 22:58	26°♎33'10	
evening set	-2381 Oct 27 j 00:22	29°♎44'26	
	-2381 Oct 31 j 09:46	0°♏	
conjunction	-2381 Nov 11 j 14:15	0°♏40'15	0°16'59
minimum elong	-2381 Nov 11 j 14:15	0°♏40'15	0°16'57
max. Earth dist.	-2381 Nov 12 j 06:08	0°♏42'38	20.37536 AU
morning rise	-2381 Nov 27 j 04:24	1°♏36'07	
retrograde	-2380 Feb 27 j 13:43	4°♏48'09	
opposition	-2380 May 14 j 15:13	2°♏48'41	0°17'00
min. Earth dist.	-2380 May 13 j 22:50	2°♏50'20	18.40850 AU
direct	-2380 Jul 30 j 13:31	0°♏49'16	
evening set	-2380 Oct 30 j 09:58	3°♏59'16	
conjunction	-2380 Nov 14 j 23:51	4°♏54'51	0°13'45
minimum elong	-2380 Nov 14 j 23:51	4°♏54'51	0°13'43
behind sun begin	-2380 Nov 14 j 20:12	4°♏54'19	
behind sun end	-2380 Nov 15 j 03:30	4°♏55'23	
max. Earth dist.	-2380 Nov 15 j 17:37	4°♏57'30	20.44111 AU
morning rise	-2380 Nov 30 j 14:03	5°♏50'30	
retrograde	-2379 Mar 03 j 02:37	9°♏01'57	
opposition	-2379 May 19 j 07:39	7°♏02'31	0°13'22
min. Earth dist.	-2379 May 18 j 13:10	7°♏04'23	18.47302 AU
direct	-2379 Aug 04 j 05:47	5°♏03'26	
evening set	-2379 Nov 03 j 18:52	8°♏12'11	
conjunction	-2379 Nov 19 j 08:35	9°♏07'32	0°10'28
minimum elong	-2379 Nov 19 j 08:35	9°♏07'32	0°10'25
behind sun begin	-2379 Nov 19 j 03:24	9°♏06'47	
behind sun end	-2379 Nov 19 j 13:46	9°♏08'17	
max. Earth dist.	-2379 Nov 20 j 03:19	9°♏10'19	20.50450 AU
morning rise	-2379 Dec 04 j 23:06	10°♏03'00	
retrograde	-2378 Mar 07 j 13:57	13°♏13'53	
opposition	-2378 May 23 j 23:37	11°♏14'28	0°09'41
min. Earth dist.	-2378 May 23 j 04:40	11°♏16'23	18.53546 AU
direct	-2378 Aug 08 j 18:21	9°♏15'41	
evening set	-2378 Nov 08 j 02:47	12°♏23'12	
conjunction	-2378 Nov 23 j 16:35	13°♏18'20	0°07'09
minimum elong	-2378 Nov 23 j 16:36	13°♏18'20	0°07'06
behind sun begin	-2378 Nov 23 j 10:33	13°♏17'28	
behind sun end	-2378 Nov 23 j 22:38	13°♏19'13	
max. Earth dist.	-2378 Nov 24 j 13:15	13°♏21'24	20.56594 AU
morning rise	-2378 Dec 09 j 07:20	14°♏13'37	
	-2378 Dec 23 j 01:01	15°♏	
retrograde	-2377 Mar 12 j 02:03	17°♏23'58	
opposition	-2377 May 28 j 14:36	15°♏24'34	0°05'59
min. Earth dist.	-2377 May 27 j 17:22	15°♏26'43	18.59593 AU
	-2377 Jun 07 j 20:45	15°℞♏	
direct	-2377 Aug 13 j 08:58	13°♏26'04	
	-2377 Oct 14 j 11:14	15°♏	
evening set	-2377 Nov 12 j 10:14	16°♏32'26	
conjunction	-2377 Nov 28 j 00:02	17°♏27'22	0°03'49
minimum elong	-2377 Nov 28 j 00:02	17°♏27'22	0°03'47
behind sun begin	-2377 Nov 27 j 17:34	17°♏26'26	
behind sun end	-2377 Nov 28 j 06:30	17°♏28'18	
max. Earth dist.	-2377 Nov 28 j 21:48	17°♏30'35	20.62544 AU
morning rise	-2377 Dec 13 j 15:13	18°♏22'30	
retrograde	-2376 Mar 15 j 12:05	21°♏32'20	
min. Earth dist.	-2376 May 31 j 07:14	19°♏35'08	18.65471 AU

Attention, astronomical year style is used: The year -2376 in astronomical counting style is the year 2377 BCE in historical counting style.

opposition	-2376 Jun 01 j 04:47	19°♏32'58	0°02'17
direct	-2376 Aug 16 j 19:31	17°♏34'45	
evening set	-2376 Nov 15 j 16:57	20°♏40'02	
conjunction	-2376 Dec 01 j 07:01	21°♏34'47	0°00'26
minimum elong	-2376 Dec 01 j 07:00	21°♏34'47	0°00'23
behind sun begin	-2376 Dec 01 j 00:30	21°♏33'51	
behind sun end	-2376 Dec 01 j 13:30	21°♏35'43	
max. Earth dist.	-2376 Dec 02 j 06:23	21°♏38'13	20.68333 AU
morning rise	-2376 Dec 16 j 22:30	22°♏29'46	
desc. node	-2375 Jan 16 j 15:57	24°♏06'58	
retrograde	-2375 Mar 19 j 23:24	25°♏39'08	
opposition	-2375 Jun 05 j 18:09	23°♏39'49	-0°01'24
min. Earth dist.	-2375 Jun 04 j 18:21	23°♏42'12	18.71166 AU
direct	-2375 Aug 21 j 08:02	21°♏41'54	
evening set	-2375 Nov 19 j 23:09	24°♏46'10	
conjunction	-2375 Dec 05 j 13:17	25°♏40'45	-0°02'58
minimum elong	-2375 Dec 05 j 13:17	25°♏40'45	0°03'01
behind sun begin	-2375 Dec 05 j 06:47	25°♏39'49	
behind sun end	-2375 Dec 05 j 19:48	25°♏41'41	
max. Earth dist.	-2375 Dec 06 j 13:42	25°♏44'20	20.73922 AU
morning rise	-2375 Dec 21 j 05:19	26°♏35'36	
retrograde	-2374 Mar 24 j 08:49	29°♏44'34	
min. Earth dist.	-2374 Jun 09 j 07:07	27°♏47'42	18.76663 AU
opposition	-2374 Jun 10 j 07:04	27°♏45'19	-0°05'03
direct	-2374 Aug 25 j 17:08	25°♏47'42	
evening set	-2374 Nov 24 j 04:50	28°♏51'01	
conjunction	-2374 Dec 09 j 19:21	29°♏45'27	-0°06'15
minimum elong	-2374 Dec 09 j 19:21	29°♏45'27	0°06'18
behind sun begin	-2374 Dec 09 j 13:10	29°♏44'34	
behind sun end	-2374 Dec 10 j 01:32	29°♏46'20	
max. Earth dist.	-2374 Dec 10 j 21:06	29°♏49'13	20.79309 AU
	-2374 Dec 13 j 22:34	0°♐	
morning rise	-2374 Dec 25 j 11:51	0°♐40'12	
retrograde	-2373 Mar 28 j 19:37	3°♐48'47	
opposition	-2373 Jun 14 j 19:05	1°♐49'37	-0°08'40
min. Earth dist.	-2373 Jun 13 j 17:09	1°♐52'12	18.81924 AU
	-2373 Aug 12 j 14:43	30°℞♏	
direct	-2373 Aug 30 j 03:43	29°♏52'19	
	-2373 Sep 16 j 11:08	0°♐	
evening set	-2373 Nov 28 j 10:11	2°♐54'45	
conjunction	-2373 Dec 14 j 01:00	3°♐49'04	-0°09'28
minimum elong	-2373 Dec 14 j 00:59	3°♐49'04	0°09'31
behind sun begin	-2373 Dec 13 j 19:31	3°♐48'17	
behind sun end	-2373 Dec 14 j 06:28	3°♐49'50	
max. Earth dist.	-2373 Dec 15 j 03:28	3°♐52'55	20.84423 AU
morning rise	-2373 Dec 29 j 18:09	4°♐43'42	
retrograde	-2372 Apr 01 j 04:49	7°♐51'57	
min. Earth dist.	-2372 Jun 17 j 05:06	5°♐55'26	18.86892 AU
opposition	-2372 Jun 18 j 06:41	5°♐52'53	-0°12'14
direct	-2372 Sep 02 j 11:42	3°♐55'53	
evening set	-2372 Dec 01 j 15:11	6°♐57'31	
conjunction	-2372 Dec 17 j 06:27	7°♐51'42	-0°12'39
minimum elong	-2372 Dec 17 j 06:27	7°♐51'42	0°12'43
behind sun begin	-2372 Dec 17 j 02:14	7°♐51'07	
behind sun end	-2372 Dec 17 j 10:39	7°♐52'18	
max. Earth dist.	-2372 Dec 18 j 09:46	7°♐55'41	20.89223 AU
morning rise	-2371 Jan 02 j 00:09	8°♐46'16	
retrograde	-2371 Apr 05 j 15:11	11°♐54'13	
opposition	-2371 Jun 22 j 17:27	9°♐55'14	-0°15'43
min. Earth dist.	-2371 Jun 21 j 14:20	9°♐57'56	18.91507 AU
direct	-2371 Sep 06 j 20:40	7°♐58'31	
evening set	-2371 Dec 05 j 20:02	10°♐59'24	

conjunction	-2371 Dec 21 j 11:40	11°♐53'30	-0°15'45
minimum elong	-2371 Dec 21 j 11:39	11°♐53'30	0°15'49
behind sun begin	-2371 Dec 21 j 10:10	11°♐53'18	
behind sun end	-2371 Dec 21 j 13:09	11°♐53'43	
max. Earth dist.	-2371 Dec 22 j 15:21	11°♐57'31	20.93634 AU
morning rise	-2370 Jan 06 j 06:05	12°♐48'00	
retrograde	-2370 Apr 09 j 23:38	15°♐55'42	
min. Earth dist.	-2370 Jun 26 j 01:39	13°♐59'25	18.95716 AU
opposition	-2370 Jun 27 j 04:01	13°♐56'47	-0°19'07
direct	-2370 Sep 11 j 04:08	12°♐00'20	
evening set	-2370 Dec 10 j 00:33	15°♐00'32	
conjunction	-2370 Dec 25 j 16:46	15°♐54'33	-0°18'47
minimum elong	-2370 Dec 25 j 16:46	15°♐54'33	0°18'50
max. Earth dist.	-2370 Dec 26 j 20:51	15°♐58'37	20.97617 AU
morning rise	-2369 Jan 10 j 11:51	16°♐49'00	
retrograde	-2369 Apr 14 j 10:18	19°♐56'27	
min. Earth dist.	-2369 Jun 30 j 10:25	18°♐00'20	18.99453 AU
opposition	-2369 Jul 01 j 13:52	17°♐57'36	-0°22'24
direct	-2369 Sep 15 j 12:03	16°♐01'20	
evening set	-2369 Dec 14 j 05:08	19°♐00'56	
conjunction	-2369 Dec 29 j 21:50	19°♐54'54	-0°21'43
minimum elong	-2369 Dec 29 j 21:50	19°♐54'54	0°21'46
max. Earth dist.	-2369 Dec 31 j 01:48	19°♐58'56	21.01083 AU
morning rise	-2368 Jan 14 j 17:44	20°♐49'19	
retrograde	-2368 Apr 17 j 17:31	23°♐56'33	
opposition	-2368 Jul 04 j 23:14	21°♐57'43	-0°25'35
min. Earth dist.	-2368 Jul 03 j 21:02	22°♐00'19	19.02657 AU
direct	-2368 Sep 18 j 18:50	20°♐01'37	
evening set	-2368 Dec 17 j 09:28	23°♐00'39	
conjunction	-2367 Jan 02 j 02:54	23°♐54'34	-0°24'31
minimum elong	-2367 Jan 02 j 02:53	23°♐54'34	0°24'34
max. Earth dist.	-2367 Jan 03 j 06:43	23°♐58'34	21.04011 AU
morning rise	-2367 Jan 17 j 23:32	24°♐48'57	
retrograde	-2367 Apr 22 j 03:55	27°♐56'00	
min. Earth dist.	-2367 Jul 08 j 05:11	25°♐59'50	19.05297 AU
opposition	-2367 Jul 09 j 08:07	25°♐57'08	-0°28'37
direct	-2367 Sep 23 j 02:22	24°♐01'09	
evening set	-2367 Dec 21 j 13:36	26°♐59'40	
conjunction	-2366 Jan 06 j 07:38	27°♐53'34	-0°27'13
minimum elong	-2366 Jan 06 j 07:38	27°♐53'34	0°27'17
max. Earth dist.	-2366 Jan 07 j 11:11	27°♐57'31	21.06358 AU
morning rise	-2366 Jan 22 j 05:09	28°♐47'57	
	-2366 Feb 13 j 21:42	0°♑	
retrograde	-2366 Apr 26 j 10:15	1°♑54'50	
	-2366 Jul 11 j 23:43	30°℞♐	
opposition	-2366 Jul 13 j 16:44	29°♐55'54	-0°31'30
min. Earth dist.	-2366 Jul 12 j 15:09	29°♐58'28	19.07370 AU
direct	-2366 Sep 27 j 07:59	27°♐59'58	
	-2366 Dec 07 j 16:08	0°♑	
evening set	-2366 Dec 25 j 17:40	0°♑58'02	
conjunction	-2365 Jan 10 j 12:30	1°♑51'55	-0°29'45
minimum elong	-2365 Jan 10 j 12:30	1°♑51'55	0°29'48
max. Earth dist.	-2365 Jan 11 j 15:50	1°♑55'50	21.08170 AU
morning rise	-2365 Jan 26 j 10:52	2°♑46'19	
retrograde	-2365 Apr 30 j 19:39	5°♑53'02	
min. Earth dist.	-2365 Jul 16 j 22:28	3°♑56'38	19.08919 AU
opposition	-2365 Jul 18 j 00:36	3°♑54'01	-0°34'14
direct	-2365 Oct 01 j 15:19	1°♑58'05	
evening set	-2365 Dec 29 j 21:44	4°♑55'46	
conjunction	-2364 Jan 14 j 17:17	5°♑49'40	-0°32'09
minimum elong	-2364 Jan 14 j 17:17	5°♑49'40	0°32'13

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

max. Earth dist.	-2364 Jan 15 j 20:18	5°♉53'32	21.09460 AU
morning rise	-2364 Jan 30 j 16:36	6°♉44'05	
retrograde	-2364 May 04 j 01:41	9°♉50'43	
min. Earth dist.	-2364 Jul 20 j 07:31	7°♉54'03	19.09977 AU
opposition	-2364 Jul 21 j 08:13	7°♉51'35	-0°36'47
direct	-2364 Oct 04 j 19:43	5°♉55'37	
evening set	-2363 Jan 02 j 01:40	8°♉53'00	
conjunction	-2363 Jan 17 j 22:03	9°♉46'56	-0°34'23
minimum elong	-2363 Jan 17 j 22:03	9°♉46'56	0°34'27
max. Earth dist.	-2363 Jan 19 j 00:49	9°♉50'45	21.10298 AU
morning rise	-2363 Feb 02 j 22:14	10°♉41'24	
retrograde	-2363 May 08 j 10:18	13°♉47'56	
opposition	-2363 Jul 25 j 15:18	11°♉48'43	-0°39'10
min. Earth dist.	-2363 Jul 24 j 14:02	11°♉51'15	19.10600 AU
direct	-2363 Oct 09 j 02:20	9°♉52'43	
evening set	-2362 Jan 06 j 05:47	12°♉49'53	
conjunction	-2362 Jan 22 j 02:57	13°♉43'52	-0°36'27
minimum elong	-2362 Jan 22 j 02:57	13°♉43'52	0°36'31
max. Earth dist.	-2362 Jan 23 j 05:23	13°♉47'38	21.10708 AU
morning rise	-2362 Feb 07 j 04:06	14°♉38'23	
retrograde	-2362 May 12 j 16:40	17°♉44'55	
opposition	-2362 Jul 29 j 22:15	15°♉45'35	-0°41'21
min. Earth dist.	-2362 Jul 28 j 22:22	15°♉47'59	19.10817 AU
direct	-2362 Oct 13 j 06:09	13°♉49'34	
evening set	-2361 Jan 10 j 09:55	16°♉46'35	
conjunction	-2361 Jan 26 j 08:03	17°♉40'38	-0°38'21
minimum elong	-2361 Jan 26 j 08:03	17°♉40'38	0°38'24
max. Earth dist.	-2361 Jan 27 j 10:02	17°♉44'20	21.10738 AU
morning rise	-2361 Feb 11 j 10:09	18°♉35'14	
retrograde	-2361 May 17 j 01:18	21°♉41'48	
min. Earth dist.	-2361 Aug 02 j 04:34	19°♉44'50	19.10649 AU
opposition	-2361 Aug 03 j 04:50	19°♉42'24	-0°43'21
direct	-2361 Oct 17 j 11:42	17°♉46'19	
evening set	-2360 Jan 14 j 14:27	20°♉43'19	
conjunction	-2360 Jan 30 j 13:26	21°♉37'26	-0°40'04
minimum elong	-2360 Jan 30 j 13:26	21°♉37'26	0°40'06
max. Earth dist.	-2360 Jan 31 j 14:49	21°♉41'03	21.10364 AU
morning rise	-2360 Feb 15 j 16:31	22°♉32'08	
retrograde	-2360 May 20 j 08:11	25°♉38'46	
opposition	-2360 Aug 06 j 11:12	23°♉39'18	-0°45'08
min. Earth dist.	-2360 Aug 05 j 12:32	23°♉41'35	19.10081 AU
direct	-2360 Oct 20 j 15:13	21°♉43'12	
evening set	-2359 Jan 17 j 19:08	24°♉40'14	
conjunction	-2359 Feb 02 j 19:07	25°♉34'28	-0°41'35
minimum elong	-2359 Feb 02 j 19:07	25°♉34'28	0°41'38
max. Earth dist.	-2359 Feb 03 j 19:45	25°♉37'58	21.09612 AU
morning rise	-2359 Feb 18 j 23:11	26°♉29'15	
retrograde	-2359 May 24 j 17:05	29°♉36'03	
opposition	-2359 Aug 10 j 17:29	27°♉36'32	-0°46'43
min. Earth dist.	-2359 Aug 09 j 18:42	27°♉38'50	19.09122 AU
direct	-2359 Oct 24 j 20:06	25°♉40'22	
evening set	-2358 Jan 22 j 00:08	28°♉37'32	
conjunction	-2358 Feb 07 j 01:02	29°♉31'53	-0°42'55
minimum elong	-2358 Feb 07 j 01:02	29°♉31'53	0°42'57
max. Earth dist.	-2358 Feb 08 j 00:55	29°♉35'17	21.08440 AU
	-2358 Feb 15 j 07:00	0°♒	
morning rise	-2358 Feb 23 j 06:07	0°♒26'49	
retrograde	-2358 May 29 j 00:37	3°♒33'47	
opposition	-2358 Aug 14 j 23:51	1°♒34'14	-0°48'05
min. Earth dist.	-2358 Aug 14 j 02:54	1°♒36'21	19.07736 AU
	-2358 Sep 29 j 05:41	30°℞♉	

direct	-2358 Oct 28 j 23:44	29°♉38'01	
	-2358 Nov 27 j 05:00	0°♒	
evening set	-2357 Jan 26 j 05:42	2°♒35'23	
conjunction	-2357 Feb 11 j 07:40	3°♒29'53	-0°44'03
minimum elong	-2357 Feb 11 j 07:40	3°♒29'53	0°44'06
max. Earth dist.	-2357 Feb 12 j 06:24	3°♒33'07	21.06843 AU
morning rise	-2357 Feb 27 j 13:45	4°♒24'57	
retrograde	-2357 Jun 02 j 10:17	7°♒32'09	
min. Earth dist.	-2357 Aug 18 j 09:24	5°♒34'38	19.05902 AU
opposition	-2357 Aug 19 j 05:56	5°♒32'33	-0°49'13
direct	-2357 Nov 02 j 04:43	3°♒36'15	
evening set	-2356 Jan 30 j 11:53	6°♒33'56	
conjunction	-2356 Feb 15 j 14:48	7°♒28'35	-0°44'58
minimum elong	-2356 Feb 15 j 14:48	7°♒28'35	0°45'01
max. Earth dist.	-2356 Feb 16 j 12:16	7°♒31'39	21.04758 AU
morning rise	-2356 Mar 02 j 21:52	8°♒23'49	
retrograde	-2356 Jun 05 j 18:07	11°♒31'17	
opposition	-2356 Aug 22 j 12:16	9°♒31'38	-0°50'07
min. Earth dist.	-2356 Aug 21 j 18:00	9°♒33'29	19.03562 AU
direct	-2356 Nov 05 j 08:32	7°♒35'13	
evening set	-2355 Feb 02 j 18:26	10°♒33'16	
conjunction	-2355 Feb 18 j 22:24	11°♒28'05	-0°45'40
minimum elong	-2355 Feb 18 j 22:24	11°♒28'05	0°45'43
max. Earth dist.	-2355 Feb 19 j 18:13	11°♒30'55	21.02166 AU
morning rise	-2355 Mar 07 j 06:26	12°♒23'29	
	-2355 May 05 j 00:18	15°♒	
retrograde	-2355 Jun 10 j 04:36	15°♒31'15	
	-2355 Jul 16 j 20:31	15°℞♒	
opposition	-2355 Aug 26 j 18:38	13°♒31'31	-0°50'47
min. Earth dist.	-2355 Aug 26 j 01:06	13°♒33'18	19.00698 AU
direct	-2355 Nov 09 j 14:11	11°♒34'56	
evening set	-2354 Feb 07 j 01:42	14°♒33'25	
	-2354 Feb 14 j 22:56	15°♒	
conjunction	-2354 Feb 23 j 06:41	15°♒28'26	-0°46'09
minimum elong	-2354 Feb 23 j 06:41	15°♒28'26	0°46'12
max. Earth dist.	-2354 Feb 24 j 00:55	15°♒31'02	20.99024 AU
morning rise	-2354 Mar 11 j 15:42	16°♒24'01	
retrograde	-2354 Jun 14 j 12:30	19°♒32'05	
min. Earth dist.	-2354 Aug 30 j 10:02	17°♒33'47	18.97284 AU
opposition	-2354 Aug 31 j 01:08	17°♒32'15	-0°51'11
direct	-2354 Nov 13 j 18:34	15°♒35'27	
evening set	-2353 Feb 11 j 09:26	18°♒34'24	
conjunction	-2353 Feb 27 j 15:33	19°♒29'38	-0°46'25
minimum elong	-2353 Feb 27 j 15:33	19°♒29'38	0°46'27
max. Earth dist.	-2353 Feb 28 j 07:44	19°♒31'56	20.95359 AU
morning rise	-2353 Mar 16 j 01:36	20°♒25'24	
retrograde	-2353 Jun 18 j 23:29	23°♒33'48	
opposition	-2353 Sep 04 j 07:40	21°♒33'48	-0°51'21
min. Earth dist.	-2353 Sep 03 j 17:33	21°♒35'15	18.93351 AU
direct	-2353 Nov 18 j 00:48	19°♒36'45	
evening set	-2352 Feb 15 j 17:51	22°♒36'15	
conjunction	-2352 Mar 03 j 00:59	23°♒31'42	-0°46'26
minimum elong	-2352 Mar 03 j 00:59	23°♒31'42	0°46'29
max. Earth dist.	-2352 Mar 03 j 15:32	23°♒33'46	20.91176 AU
morning rise	-2352 Mar 19 j 11:56	24°♒27'40	
retrograde	-2352 Jun 22 j 07:51	27°♒36'25	
opposition	-2352 Sep 07 j 14:17	25°♒36'15	-0°51'15
min. Earth dist.	-2352 Sep 07 j 02:34	25°♒37'27	18.88937 AU
direct	-2352 Nov 21 j 05:54	23°♒38'54	
evening set	-2351 Feb 19 j 02:44	26°♒39'00	

Attention, astronomical year style is used: The year -2351 in astronomical counting style is the year 2352 BCE in historical counting style.

conjunction	-2351 Mar 07 j 10:55	27°♒34'40	-0°46'14
minimum elong	-2351 Mar 07 j 10:55	27°♒34'40	0°46'15
max. Earth dist.	-2351 Mar 07 j 23:26	27°♒36'27	20.86570 AU
morning rise	-2351 Mar 23 j 22:53	28°♒30'52	
	-2351 Apr 21 j 15:57	0°♓	
retrograde	-2351 Jun 26 j 19:07	1°♓39'59	
	-2351 Sep 03 j 14:14	30°℞♒	
opposition	-2351 Sep 11 j 21:03	29°♒39'37	-0°50'54
min. Earth dist.	-2351 Sep 11 j 10:16	29°♒40'44	18.84136 AU
direct	-2351 Nov 25 j 12:29	27°♒41'56	
	-2350 Feb 10 j 09:42	0°♓	
evening set	-2350 Feb 23 j 12:12	0°♓42'43	
conjunction	-2350 Mar 11 j 21:28	1°♓38'37	-0°45'47
minimum elong	-2350 Mar 11 j 21:28	1°♓38'37	0°45'49
max. Earth dist.	-2350 Mar 12 j 08:34	1°♓40'13	20.81587 AU
morning rise	-2350 Mar 28 j 10:18	2°♓35'03	
retrograde	-2350 Jul 01 j 04:38	5°♓44'34	
opposition	-2350 Sep 16 j 04:08	3°♓44'01	-0°50'18
min. Earth dist.	-2350 Sep 15 j 19:32	3°♓44'54	18.78988 AU
direct	-2350 Nov 29 j 18:07	1°♓46'01	
evening set	-2349 Feb 27 j 22:30	4°♓47'31	
conjunction	-2349 Mar 16 j 08:48	5°♓43'41	-0°45'07
minimum elong	-2349 Mar 16 j 08:48	5°♓43'41	0°45'08
max. Earth dist.	-2349 Mar 16 j 17:42	5°♓44'58	20.76307 AU
morning rise	-2349 Apr 01 j 22:35	6°♓40'21	
retrograde	-2349 Jul 05 j 16:54	9°♓50'18	
opposition	-2349 Sep 20 j 11:15	7°♓49'34	-0°49'26
min. Earth dist.	-2349 Sep 20 j 03:40	7°♓50'21	18.73573 AU
direct	-2349 Dec 04 j 01:25	5°♓51'12	
evening set	-2348 Mar 03 j 09:33	8°♓53'32	
conjunction	-2348 Mar 19 j 20:52	9°♓49'59	-0°44'12
minimum elong	-2348 Mar 19 j 20:52	9°♓49'59	0°44'13
max. Earth dist.	-2348 Mar 20 j 04:25	9°♓51'04	20.70763 AU
morning rise	-2348 Apr 05 j 11:24	10°♓46'54	
retrograde	-2348 Jul 09 j 03:30	13°♓57'17	
opposition	-2348 Sep 23 j 18:55	11°♓56'24	-0°48'19
min. Earth dist.	-2348 Sep 23 j 13:22	11°♓56'59	18.67919 AU
direct	-2348 Dec 07 j 07:28	9°♓57'43	
evening set	-2347 Mar 07 j 21:12	13°♓00'55	
conjunction	-2347 Mar 24 j 09:28	13°♓57'38	-0°43'04
minimum elong	-2347 Mar 24 j 09:28	13°♓57'38	0°43'05
max. Earth dist.	-2347 Mar 24 j 14:44	13°♓58'23	20.65024 AU
morning rise	-2347 Apr 10 j 00:53	14°♓54'48	
retrograde	-2347 Jul 13 j 17:13	18°♓05'43	
opposition	-2347 Sep 28 j 02:57	16°♓04'40	-0°46'57
min. Earth dist.	-2347 Sep 27 j 22:25	16°♓05'08	18.62088 AU
direct	-2347 Dec 11 j 15:49	14°♓05'39	
evening set	-2346 Mar 12 j 09:51	17°♓09'48	
conjunction	-2346 Mar 28 j 23:09	18°♓06'49	-0°41'42
minimum elong	-2346 Mar 28 j 23:09	18°♓06'49	0°41'43
max. Earth dist.	-2346 Mar 29 j 03:11	18°♓07'24	20.59104 AU
morning rise	-2346 Apr 14 j 15:13	19°♓04'15	
retrograde	-2346 Jul 18 j 05:10	22°♓15'41	
opposition	-2346 Oct 02 j 11:23	20°♓14'31	-0°45'20
min. Earth dist.	-2346 Oct 02 j 08:55	20°♓14'47	18.56086 AU
direct	-2346 Dec 15 j 22:45	18°♓15'11	
evening set	-2345 Mar 16 j 23:30	21°♓20'22	
conjunction	-2345 Apr 02 j 13:41	22°♓17'40	-0°40'07
minimum elong	-2345 Apr 02 j 13:41	22°♓17'40	0°40'08
max. Earth dist.	-2345 Apr 02 j 15:03	22°♓17'52	20.53040 AU
morning rise	-2345 Apr 19 j 06:35	23°♓15'23	
retrograde	-2345 Jul 22 j 20:07	26°♓27'23	
opposition	-2345 Oct 06 j 20:21	24°♓26'07	-0°43'27
min. Earth dist.	-2345 Oct 06 j 19:16	24°♓26'14	18.49940 AU
direct	-2345 Dec 20 j 08:24	22°♓26'27	
evening set	-2344 Mar 20 j 14:01	25°♓32'43	
conjunction	-2344 Apr 06 j 05:08	26°♓30'20	-0°38'18
minimum elong	-2344 Apr 06 j 05:08	26°♓30'20	0°38'18
max. Earth dist.	-2344 Apr 06 j 05:16	26°♓30'21	20.46806 AU
morning rise	-2344 Apr 22 j 22:31	27°♓28'20	
	-2344 Jun 15 j 19:19	0°♈	
retrograde	-2344 Jul 26 j 09:30	0°♈40'54	
	-2344 Sep 05 j 10:29	30°℞♓	
opposition	-2344 Oct 10 j 05:54	28°♓39'33	-0°41'20
min. Earth dist.	-2344 Oct 10 j 06:55	28°♓39'27	18.43621 AU
direct	-2344 Dec 23 j 17:05	26°♓39'35	
evening set	-2343 Mar 25 j 05:38	29°♓46'59	
	-2343 Mar 29 j 00:37	0°♈	
conjunction	-2343 Apr 10 j 21:29	0°♈44'55	-0°36'16
minimum elong	-2343 Apr 10 j 21:29	0°♈44'55	0°36'16
max. Earth dist.	-2343 Apr 10 j 18:36	0°♈44'30	20.40416 AU
morning rise	-2343 Apr 27 j 15:35	1°♈43'11	
retrograde	-2343 Jul 31 j 01:13	4°♈56'22	
opposition	-2343 Oct 14 j 16:02	2°♈54'55	-0°38'58
min. Earth dist.	-2343 Oct 14 j 18:47	2°♈54'38	18.37142 AU
direct	-2343 Dec 28 j 03:58	0°♈54'36	
evening set	-2342 Mar 29 j 22:11	4°♈03'12	
conjunction	-2342 Apr 15 j 14:58	5°♈01'27	-0°34'01
minimum elong	-2342 Apr 15 j 14:58	5°♈01'27	0°34'00
max. Earth dist.	-2342 Apr 15 j 10:39	5°♈00'50	20.33832 AU
morning rise	-2342 May 02 j 09:25	6°♈00'00	
retrograde	-2342 Aug 04 j 16:14	9°♈13'47	
opposition	-2342 Oct 19 j 02:55	7°♈12'15	-0°36'22
min. Earth dist.	-2342 Oct 19 j 07:50	7°♈11'43	18.30453 AU
direct	-2341 Jan 01 j 15:06	5°♈11'34	
evening set	-2341 Apr 03 j 15:59	8°♈21'22	
conjunction	-2341 Apr 20 j 09:20	9°♈19'56	-0°31'33
minimum elong	-2341 Apr 20 j 09:20	9°♈19'56	0°31'31
max. Earth dist.	-2341 Apr 20 j 01:31	9°♈18'48	20.27051 AU
morning rise	-2341 May 07 j 04:21	10°♈18'46	
retrograde	-2341 Aug 09 j 08:23	13°♈33'09	
opposition	-2341 Oct 23 j 14:21	11°♈31'29	-0°33'32
min. Earth dist.	-2341 Oct 23 j 21:17	11°♈30'45	18.23581 AU
direct	-2340 Jan 06 j 03:22	9°♈30'24	
evening set	-2340 Apr 07 j 10:34	12°♈41'27	
conjunction	-2340 Apr 24 j 04:43	13°♈40'21	-0°28'53
minimum elong	-2340 Apr 24 j 04:43	13°♈40'21	0°28'53
max. Earth dist.	-2340 Apr 23 j 19:32	13°♈39'00	20.20087 AU
morning rise	-2340 May 10 j 23:54	14°♈39'26	
retrograde	-2340 Aug 13 j 01:00	17°♈54'24	
opposition	-2340 Oct 27 j 02:34	15°♈52'36	-0°30'29
min. Earth dist.	-2340 Oct 27 j 11:23	15°♈51'40	18.16542 AU
direct	-2339 Jan 09 j 16:53	13°♈51'06	
evening set	-2339 Apr 12 j 06:01	17°♈03'24	
conjunction	-2339 Apr 29 j 00:36	18°♈02'36	-0°26'02
minimum elong	-2339 Apr 29 j 00:36	18°♈02'36	0°26'01
max. Earth dist.	-2339 Apr 28 j 12:01	18°♈00'45	20.13003 AU
morning rise	-2339 May 15 j 20:14	19°♈01'59	
retrograde	-2339 Aug 17 j 17:30	22°♈17'32	
opposition	-2339 Oct 31 j 15:24	20°♈15'34	-0°27'14
min. Earth dist.	-2339 Nov 01 j 02:15	20°♈14'24	18.09422 AU
direct	-2338 Jan 14 j 06:42	18°♈13'37	

Attention, astronomical year style is used: The year -2338 in astronomical counting style is the year 2339 BCE in historical counting style.

evening set	-2338 Apr 17 j 02:25	21°♈27'12	
conjunction	-2338 May 03 j 21:42	22°♈26'43	-0°23'01
minimum elong	-2338 May 03 j 21:42	22°♈26'43	0°23'00
max. Earth dist.	-2338 May 03 j 08:04	22°♈24'42	20.05859 AU
morning rise	-2338 May 20 j 17:20	23°♈26'20	
retrograde	-2338 Aug 22 j 11:26	26°♈42'27	
opposition	-2338 Nov 05 j 04:47	24°♈40'21	-0°23'48
min. Earth dist.	-2338 Nov 05 j 17:10	24°♈39'01	18.02275 AU
direct	-2337 Jan 18 j 22:19	22°♈37'57	
evening set	-2337 Apr 21 j 23:55	25°♈52'50	
conjunction	-2337 May 08 j 19:25	26°♈52'39	-0°19'51
minimum elong	-2337 May 08 j 19:26	26°♈52'39	0°19'49
max. Earth dist.	-2337 May 08 j 02:34	26°♈50'08	19.98739 AU
morning rise	-2337 May 25 j 15:18	27°♈52'32	
	-2337 Jul 05 j 22:37	0°♉	
retrograde	-2337 Aug 27 j 04:35	1°♉09'13	
	-2337 Oct 19 j 14:26	30°℞♈	
opposition	-2337 Nov 09 j 18:58	29°♈06'57	-0°20'12
min. Earth dist.	-2337 Nov 10 j 09:20	29°♈05'24	17.95205 AU
direct	-2336 Jan 23 j 13:56	27°♈04'06	
	-2336 Apr 20 j 01:38	0°♉	
evening set	-2336 Apr 25 j 21:55	0°♉20'18	
conjunction	-2336 May 12 j 17:53	1°♉20'24	-0°16'32
minimum elong	-2336 May 12 j 17:53	1°♉20'24	0°16'30
max. Earth dist.	-2336 May 12 j 00:26	1°♉17'47	19.91722 AU
morning rise	-2336 May 29 j 13:33	2°♉20'31	
retrograde	-2336 Aug 30 j 23:39	5°♉37'45	
opposition	-2336 Nov 13 j 09:49	3°♉35'22	-0°16'28
min. Earth dist.	-2336 Nov 14 j 01:07	3°♉33'43	17.88268 AU
direct	-2335 Jan 27 j 07:31	1°♉32'06	
evening set	-2335 Apr 30 j 21:02	4°♉49'36	
conjunction	-2335 May 17 j 17:03	5°♉49'58	-0°13'07
minimum elong	-2335 May 17 j 17:03	5°♉49'58	0°13'05
behind sun begin	-2335 May 17 j 13:09	5°♉49'24	
behind sun end	-2335 May 17 j 20:57	5°♉50'33	
max. Earth dist.	-2335 May 16 j 20:48	5°♉46'56	19.84889 AU
morning rise	-2335 Jun 03 j 12:44	6°♉50'20	
retrograde	-2335 Sep 04 j 17:52	10°♉08'08	
opposition	-2335 Nov 18 j 01:23	8°♉05'37	-0°12'36
min. Earth dist.	-2335 Nov 18 j 18:34	8°♉03'46	17.81568 AU
direct	-2334 Feb 01 j 00:40	6°♉01'55	
evening set	-2334 May 05 j 20:50	9°♉20'45	
conjunction	-2334 May 22 j 17:08	10°♉21'24	-0°09'35
minimum elong	-2334 May 22 j 17:08	10°♉21'24	0°09'33
behind sun begin	-2334 May 22 j 11:33	10°♉20'35	
behind sun end	-2334 May 22 j 22:43	10°♉22'13	
max. Earth dist.	-2334 May 21 j 20:26	10°♉18'17	19.78317 AU
morning rise	-2334 Jun 08 j 12:29	11°♉21'58	
retrograde	-2334 Sep 09 j 14:34	14°♉40'18	
opposition	-2334 Nov 22 j 17:45	12°♉37'45	-0°08'38
min. Earth dist.	-2334 Nov 23 j 11:25	12°♉35'49	17.75143 AU
direct	-2333 Feb 05 j 20:04	10°♉33'40	
evening set	-2333 May 10 j 21:38	13°♉53'48	
conjunction	-2333 May 27 j 17:47	14°♉54'42	-0°06'00
minimum elong	-2333 May 27 j 17:47	14°♉54'42	0°05'57
behind sun begin	-2333 May 27 j 11:19	14°♉53'45	
behind sun end	-2333 May 28 j 00:15	14°♉55'39	
max. Earth dist.	-2333 May 26 j 18:44	14°♉51'12	19.72051 AU
	-2333 May 29 j 04:42	15°♉	
morning rise	-2333 Jun 13 j 12:52	15°♉55'29	
retrograde	-2333 Sep 14 j 10:23	19°♉14'21	
opposition	-2333 Nov 27 j 10:59	17°♉11'45	-0°04'34
min. Earth dist.	-2333 Nov 28 j 06:26	17°♉09'38	17.69064 AU
direct	-2332 Feb 10 j 14:37	15°♉07'20	
evening set	-2332 May 14 j 23:04	18°♉28'47	
conjunction	-2332 May 31 j 19:13	19°♉29'54	-0°02'19
minimum elong	-2332 May 31 j 19:14	19°♉29'54	0°02'17
behind sun begin	-2332 May 31 j 12:26	19°♉28'54	
behind sun end	-2332 Jun 01 j 02:01	19°♉30'55	
max. Earth dist.	-2332 May 30 j 19:50	19°♉26'21	19.66156 AU
morning rise	-2332 Jun 17 j 13:48	20°♉30'52	
retrograde	-2332 Sep 18 j 08:59	23°♉50'16	
opposition	-2332 Dec 01 j 04:57	21°♉47'40	-0°00'28
min. Earth dist.	-2332 Dec 02 j 00:31	21°♉45'32	17.63357 AU
asc. node	-2331 Jan 11 j 08:24	20°♉12'58	
direct	-2331 Feb 14 j 11:28	19°♉42'58	
evening set	-2331 May 20 j 01:18	23°♉05'41	
conjunction	-2331 Jun 05 j 21:10	24°♉07'01	0°01'31
minimum elong	-2331 Jun 05 j 21:11	24°♉07'01	0°01'34
behind sun begin	-2331 Jun 05 j 14:23	24°♉06'01	
behind sun end	-2331 Jun 06 j 03:59	24°♉08'02	
max. Earth dist.	-2331 Jun 04 j 20:02	24°♉03'11	19.60636 AU
morning rise	-2331 Jun 22 j 15:17	25°♉08'10	
retrograde	-2331 Sep 23 j 06:19	28°♉28'04	
opposition	-2331 Dec 05 j 23:52	26°♉25'30	0°03'41
min. Earth dist.	-2331 Dec 06 j 21:22	26°♉23'09	17.58032 AU
direct	-2330 Feb 19 j 07:02	24°♉20'32	
evening set	-2330 May 25 j 04:22	27°♉44'29	
conjunction	-2330 Jun 10 j 24:00	28°♉46'02	0°05'16
minimum elong	-2330 Jun 10 j 24:00	28°♉46'02	0°05'18
behind sun begin	-2330 Jun 10 j 17:26	28°♉45'03	
behind sun end	-2330 Jun 11 j 06:33	28°♉47'01	
max. Earth dist.	-2330 Jun 09 j 22:11	28°♉42'04	19.55494 AU
morning rise	-2330 Jun 27 j 17:27	29°♉47'19	
	-2330 Jul 01 j 06:30	0°♊	
retrograde	-2330 Sep 28 j 06:40	3°♊07'41	
opposition	-2330 Dec 10 j 19:26	1°♊05'10	0°07'51
min. Earth dist.	-2330 Dec 11 j 17:01	1°♊02'48	17.53066 AU
	-2329 Jan 05 j 22:39	30°℞♉	
direct	-2329 Feb 24 j 06:05	28°♉59'57	
	-2329 Apr 13 j 12:56	0°♊	
evening set	-2329 May 30 j 08:13	2°♊25'06	
max. Earth dist.	-2329 Jun 15 j 00:16	3°♊22'38	19.50694 AU
conjunction	-2329 Jun 16 j 03:22	3°♊26'49	0°08'58
minimum elong	-2329 Jun 16 j 03:22	3°♊26'49	0°09'02
behind sun begin	-2329 Jun 15 j 21:37	3°♊25'57	
behind sun end	-2329 Jun 16 j 09:07	3°♊27'41	
morning rise	-2329 Jul 02 j 20:01	4°♊28'13	
retrograde	-2329 Oct 03 j 04:39	7°♊49'01	
opposition	-2329 Dec 15 j 16:08	5°♊46'32	0°11'59
min. Earth dist.	-2329 Dec 16 j 15:37	5°♊43'58	17.48452 AU
direct	-2328 Feb 29 j 03:02	3°♊41'05	
evening set	-2328 Jun 03 j 12:25	7°♊07'20	
max. Earth dist.	-2328 Jun 19 j 02:57	8°♊04'51	19.46249 AU
conjunction	-2328 Jun 20 j 06:59	8°♊09'11	0°12'39
minimum elong	-2328 Jun 20 j 06:59	8°♊09'11	0°12'42
behind sun begin	-2328 Jun 20 j 02:49	8°♊08'34	
behind sun end	-2328 Jun 20 j 11:09	8°♊09'49	
morning rise	-2328 Jul 06 j 22:53	9°♊10'41	
retrograde	-2328 Oct 07 j 05:34	12°♊31'52	
opposition	-2328 Dec 19 j 13:26	10°♊29'25	0°16'04
min. Earth dist.	-2328 Dec 20 j 12:45	10°♊26'51	17.44180 AU
direct	-2327 Mar 05 j 04:20	8°♊23'44	

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

evening set	-2327 Jun 08 j 17:13	11°♊50'59		
max. Earth dist.	-2327 Jun 24 j 06:36	12°♊48'31	19.42140 AU	
conjunction	-2327 Jun 25 j 11:13	12°♊52'57	0°16'16	
minimum elong	-2327 Jun 25 j 11:12	12°♊52'57	0°16'19	
morning rise	-2327 Jul 12 j 02:06	13°♊54'31		
retrograde	-2327 Oct 12 j 03:50	17°♊16'01		
opposition	-2327 Dec 24 j 11:30	15°♊13'35	0°20'04	
min. Earth dist.	-2327 Dec 25 j 12:32	15°♊10'50	17.40261 AU	
direct	-2326 Mar 10 j 03:25	13°♊07'39		
evening set	-2326 Jun 13 j 22:28	16°♊35'51		
max. Earth dist.	-2326 Jun 29 j 09:49	17°♊33'14	19.38410 AU	
conjunction	-2326 Jun 30 j 15:38	17°♊37'53	0°19'47	
minimum elong	-2326 Jun 30 j 15:38	17°♊37'53	0°19'51	
morning rise	-2326 Jul 17 j 05:40	18°♊39'30		
retrograde	-2326 Oct 17 j 04:45	22°♊01'15		
opposition	-2326 Dec 29 j 10:12	19°♊58'49	0°23'56	
min. Earth dist.	-2326 Dec 30 j 10:50	19°♊56'07	17.36727 AU	
direct	-2325 Mar 15 j 06:56	17°♊52'40		
evening set	-2325 Jun 19 j 03:46	21°♊21'40		
conjunction	-2325 Jul 05 j 20:12	22°♊23'46	0°23'11	
minimum elong	-2325 Jul 05 j 20:12	22°♊23'46	0°23'14	
max. Earth dist.	-2325 Jul 04 j 14:46	22°♊19'10	19.35073 AU	
morning rise	-2325 Jul 22 j 09:00	23°♊25'23		
retrograde	-2325 Oct 22 j 03:14	26°♊47'21		
opposition	-2324 Jan 03 j 09:40	24°♊44'54	0°27'39	
min. Earth dist.	-2324 Jan 04 j 11:28	24°♊42'05	17.33615 AU	
direct	-2324 Mar 19 j 08:05	22°♊38'33		
evening set	-2324 Jun 23 j 09:18	26°♊08'15		
max. Earth dist.	-2324 Jul 08 j 18:15	27°♊05'36	19.32201 AU	
conjunction	-2324 Jul 10 j 00:39	27°♊10'22	0°26'26	
minimum elong	-2324 Jul 10 j 00:39	27°♊10'22	0°26'30	
morning rise	-2324 Jul 26 j 12:31	28°♊11'58		
	-2324 Aug 27 j 15:40	0°♋		
retrograde	-2324 Oct 26 j 04:10	1°♋34'06		
	-2324 Dec 27 j 12:00	30°℞♊		
opposition	-2323 Jan 07 j 09:25	29°♊31'38	0°31'11	
min. Earth dist.	-2323 Jan 08 j 10:35	29°♊28'53	17.30994 AU	
direct	-2323 Mar 24 j 12:43	27°♊25'06		
	-2323 Jun 13 j 00:44	0°♋		
evening set	-2323 Jun 28 j 14:38	0°♋55'23		
max. Earth dist.	-2323 Jul 14 j 00:03	1°♋52'55	19.29831 AU	
conjunction	-2323 Jul 15 j 05:12	1°♋57'30	0°29'30	
minimum elong	-2323 Jul 15 j 05:12	1°♋57'30	0°29'34	
morning rise	-2323 Jul 31 j 15:46	2°♋59'04		
retrograde	-2323 Oct 31 j 03:26	6°♋21'17		
opposition	-2322 Jan 12 j 09:54	4°♋18'50	0°34'30	
min. Earth dist.	-2322 Jan 13 j 11:33	4°♋16'02	17.28893 AU	
direct	-2322 Mar 29 j 15:29	2°♋12'08		
evening set	-2322 Jul 03 j 20:06	5°♋42'54		
max. Earth dist.	-2322 Jul 19 j 03:39	6°♋40'17	19.28017 AU	
conjunction	-2322 Jul 20 j 09:24	6°♋44'58	0°32'22	
minimum elong	-2322 Jul 20 j 09:24	6°♋44'58	0°32'26	
morning rise	-2322 Aug 05 j 18:54	7°♋46'29		
retrograde	-2322 Nov 05 j 04:06	11°♋08'46		
opposition	-2321 Jan 17 j 10:41	9°♋06'19	0°37'35	
min. Earth dist.	-2321 Jan 18 j 11:26	9°♋03'37	17.27386 AU	
direct	-2321 Apr 03 j 20:07	6°♋59'30		
evening set	-2321 Jul 09 j 01:12	10°♋30'39		
max. Earth dist.	-2321 Jul 24 j 09:47	11°♋28'17	19.26817 AU	
conjunction	-2321 Jul 25 j 13:31	11°♋32'39	0°35'00	
minimum elong	-2321 Jul 25 j 13:31	11°♋32'39	0°35'04	
morning rise	-2321 Aug 10 j 21:37	12°♋34'05		
retrograde	-2321 Nov 10 j 04:25	15°♋56'22		
opposition	-2320 Jan 22 j 12:06	13°♋53'58	0°40'24	
min. Earth dist.	-2320 Jan 23 j 12:22	13°♋51'19	17.26509 AU	
direct	-2320 Apr 07 j 23:51	11°♋47'07		
evening set	-2320 Jul 13 j 06:04	15°♋18'30		
conjunction	-2320 Jul 29 j 17:02	16°♋20'25	0°37'24	
minimum elong	-2320 Jul 29 j 17:02	16°♋20'25	0°37'27	
max. Earth dist.	-2320 Jul 28 j 13:19	16°♋16'02	19.26279 AU	
morning rise	-2320 Aug 15 j 00:01	17°♋21'44		
retrograde	-2320 Nov 14 j 04:54	20°♋44'01		
opposition	-2319 Jan 26 j 13:44	18°♋41'41	0°42'56	
min. Earth dist.	-2319 Jan 27 j 12:57	18°♋39'10	17.26319 AU	
direct	-2319 Apr 13 j 03:47	16°♋34'50		
evening set	-2319 Jul 18 j 10:37	20°♋06'23		
conjunction	-2319 Aug 03 j 20:32	21°♋08'11	0°39'33	
minimum elong	-2319 Aug 03 j 20:31	21°♋08'11	0°39'36	
max. Earth dist.	-2319 Aug 02 j 19:05	21°♋04'09	19.26430 AU	
morning rise	-2319 Aug 20 j 02:07	22°♋09'22		
retrograde	-2319 Nov 19 j 06:06	25°♋31'35		
opposition	-2318 Jan 31 j 15:36	23°♋29'24	0°45'10	
min. Earth dist.	-2318 Feb 01 j 13:41	23°♋27'00	17.26799 AU	
direct	-2318 Apr 18 j 08:02	21°♋22'38		
evening set	-2318 Jul 23 j 15:01	24°♋54'14		
conjunction	-2318 Aug 08 j 23:32	25°♋55'53	0°41'25	
minimum elong	-2318 Aug 08 j 23:32	25°♋55'53	0°41'27	
max. Earth dist.	-2318 Aug 07 j 22:37	25°♋51'57	19.27252 AU	
morning rise	-2318 Aug 25 j 03:55	26°♋56'56		
	-2318 Oct 29 j 07:41	0°♌		
retrograde	-2318 Nov 24 j 06:23	0°♌19'03		
	-2318 Dec 20 j 15:56	30°℞♋		
opposition	-2317 Feb 05 j 17:55	28°♋17'01	0°47'06	
min. Earth dist.	-2317 Feb 06 j 15:07	28°♋14'43	17.27953 AU	
direct	-2317 Apr 23 j 11:19	26°♋10'24		
evening set	-2317 Jul 28 j 18:42	29°♋41'56		
	-2317 Aug 02 j 14:54	0°♌		
max. Earth dist.	-2317 Aug 13 j 03:22	0°♌39'50	19.28723 AU	
conjunction	-2317 Aug 14 j 02:01	0°♌43'25	0°42'59	
minimum elong	-2317 Aug 14 j 02:01	0°♌43'25	0°43'02	
morning rise	-2317 Aug 30 j 05:05	1°♌44'17		
retrograde	-2317 Nov 29 j 08:03	5°♌06'16		
opposition	-2316 Feb 10 j 20:25	3°♌04'24	0°48'42	
min. Earth dist.	-2316 Feb 11 j 15:53	3°♌02'18	17.29712 AU	
direct	-2316 Apr 27 j 16:04	0°♌58'00		
evening set	-2316 Aug 01 j 22:05	4°♌29'20		
max. Earth dist.	-2316 Aug 17 j 06:28	5°♌27'12	19.30772 AU	
conjunction	-2316 Aug 18 j 04:03	5°♌30'37	0°44'16	
minimum elong	-2316 Aug 18 j 04:03	5°♌30'37	0°44'19	
morning rise	-2316 Sep 03 j 05:54	6°♌31'18		
retrograde	-2316 Dec 03 j 07:31	9°♌53'06		
opposition	-2315 Feb 14 j 22:59	7°♌51'24	0°49'57	
min. Earth dist.	-2315 Feb 15 j 17:54	7°♌49'22	17.32042 AU	
direct	-2315 May 02 j 19:23	5°♌45'12		
evening set	-2315 Aug 07 j 00:52	9°♌16'14		
max. Earth dist.	-2315 Aug 22 j 09:46	10°♌14'09	19.33361 AU	
conjunction	-2315 Aug 23 j 05:35	10°♌17'17	0°45'15	
minimum elong	-2315 Aug 23 j 05:35	10°♌17'17	0°45'17	
morning rise	-2315 Sep 08 j 06:14	11°♌17'45		
retrograde	-2315 Dec 08 j 08:24	14°♌39'18		
opposition	-2314 Feb 20 j 01:41	12°♌37'47	0°50'51	

Attention, astronomical year style is used: The year -2314 in astronomical counting style is the year 2315 BCE in historical counting style.

min. Earth dist.	-2314 Feb 20 j 18:28	12°♌35'59	17.34861 AU
direct	-2314 May 08 j 01:12	10°♌31'50	
evening set	-2314 Aug 12 j 03:00	14°♌02'23	
	-2314 Aug 27 j 10:07	15°♌	
conjunction	-2314 Aug 28 j 06:25	15°♌03'12	0°45'54
minimum elong	-2314 Aug 28 j 06:25	15°♌03'12	0°45'57
max. Earth dist.	-2314 Aug 27 j 12:14	15°♌00'20	19.36410 AU
morning rise	-2314 Sep 13 j 05:48	16°♌03'26	
retrograde	-2314 Dec 13 j 06:35	19°♌24'43	
opposition	-2313 Feb 25 j 04:33	17°♌23'19	0°51'24
min. Earth dist.	-2313 Feb 25 j 20:47	17°♌21'35	17.38137 AU
direct	-2313 May 13 j 04:44	15°♌17'38	
evening set	-2313 Aug 17 j 04:24	18°♌47'35	
conjunction	-2313 Sep 02 j 06:31	19°♌48'08	0°46'14
minimum elong	-2313 Sep 02 j 06:31	19°♌48'08	0°46'16
max. Earth dist.	-2313 Sep 01 j 13:49	19°♌45'30	19.39905 AU
morning rise	-2313 Sep 18 j 04:51	20°♌48'08	
retrograde	-2313 Dec 18 j 06:27	24°♌09'03	
opposition	-2312 Mar 01 j 07:06	22°♌07'47	0°51'36
min. Earth dist.	-2312 Mar 01 j 20:48	22°♌06'19	17.41825 AU
direct	-2312 May 17 j 10:40	20°♌02'21	
evening set	-2312 Aug 21 j 04:50	23°♌31'34	
conjunction	-2312 Sep 06 j 05:50	24°♌31'52	0°46'16
minimum elong	-2312 Sep 06 j 05:50	24°♌31'52	0°46'17
max. Earth dist.	-2312 Sep 05 j 15:20	24°♌29'35	19.43788 AU
morning rise	-2312 Sep 22 j 03:01	25°♌31'36	
retrograde	-2312 Dec 22 j 03:27	28°♌52'06	
opposition	-2311 Mar 06 j 09:34	26°♌50'56	0°51'26
min. Earth dist.	-2311 Mar 06 j 22:42	26°♌49'33	17.45895 AU
direct	-2311 May 22 j 13:44	24°♌45'46	
evening set	-2311 Aug 26 j 04:32	28°♌14'09	
conjunction	-2311 Sep 11 j 04:14	29°♌14'09	0°45'58
minimum elong	-2311 Sep 11 j 04:14	29°♌14'09	0°46'00
max. Earth dist.	-2311 Sep 10 j 14:57	29°♌12'04	19.48050 AU
	-2311 Sep 23 j 08:18	0°♍	
morning rise	-2311 Sep 27 j 00:31	0°♍13'38	
retrograde	-2311 Dec 27 j 02:04	3°♍33'40	
opposition	-2310 Mar 11 j 11:31	1°♍32'36	0°50'55
min. Earth dist.	-2310 Mar 11 j 21:52	1°♍31'30	17.50329 AU
	-2310 Apr 21 j 12:16	30°℞♌	
direct	-2310 May 27 j 18:22	29°♌27'40	
	-2310 Jul 02 j 01:14	0°♍	
evening set	-2310 Aug 31 j 03:09	2°♍55'07	
conjunction	-2310 Sep 16 j 01:51	3°♍54'49	0°45'22
minimum elong	-2310 Sep 16 j 01:51	3°♍54'49	0°45'23
max. Earth dist.	-2310 Sep 15 j 15:22	3°♍53'11	19.52670 AU
morning rise	-2310 Oct 01 j 21:02	4°♍54'02	
retrograde	-2310 Dec 31 j 22:11	8°♍13'33	
opposition	-2309 Mar 16 j 13:23	6°♍12'33	0°50'04
min. Earth dist.	-2309 Mar 16 j 22:48	6°♍11'33	17.55131 AU
direct	-2309 Jun 01 j 19:51	4°♍07'53	
evening set	-2309 Sep 05 j 00:40	7°♍34'17	
conjunction	-2309 Sep 20 j 22:09	8°♍33'40	0°44'28
minimum elong	-2309 Sep 20 j 22:09	8°♍33'41	0°44'30
max. Earth dist.	-2309 Sep 20 j 13:00	8°♍32'14	19.57670 AU
morning rise	-2309 Oct 06 j 16:40	9°♍32'37	
retrograde	-2308 Jan 05 j 20:02	12°♍51'36	
opposition	-2308 Mar 20 j 14:33	10°♍50'38	0°48'54
min. Earth dist.	-2308 Mar 20 j 20:57	10°♍49'58	17.60315 AU
direct	-2308 Jun 05 j 22:33	8°♍46'15	
evening set	-2308 Sep 08 j 21:08	12°♍11'32	
conjunction	-2308 Sep 24 j 17:46	13°♍10'37	0°43'17
minimum elong	-2308 Sep 24 j 17:46	13°♍10'37	0°43'17
max. Earth dist.	-2308 Sep 24 j 11:55	13°♍09'42	19.63044 AU
morning rise	-2308 Oct 10 j 11:19	14°♍09'17	
retrograde	-2307 Jan 09 j 14:53	17°♍27'40	
opposition	-2307 Mar 25 j 15:11	15°♍26'47	0°47'25
min. Earth dist.	-2307 Mar 25 j 20:16	15°♍26'15	17.65880 AU
direct	-2307 Jun 10 j 22:27	13°♍22'42	
evening set	-2307 Sep 13 j 16:44	16°♍46'49	
conjunction	-2307 Sep 29 j 12:13	17°♍45'35	0°41'50
minimum elong	-2307 Sep 29 j 12:14	17°♍45'35	0°41'51
max. Earth dist.	-2307 Sep 29 j 07:42	17°♍44'53	19.68813 AU
morning rise	-2307 Oct 15 j 05:12	18°♍43'58	
retrograde	-2306 Jan 14 j 11:46	22°♍01'46	
opposition	-2306 Mar 30 j 15:19	20°♍00'58	0°45'39
min. Earth dist.	-2306 Mar 30 j 17:18	20°♍00'46	17.71844 AU
direct	-2306 Jun 15 j 23:22	17°♍57'15	
evening set	-2306 Sep 18 j 11:03	21°♍20'09	
conjunction	-2306 Oct 04 j 05:48	22°♍18'36	0°40'09
minimum elong	-2306 Oct 04 j 05:48	22°♍18'36	0°40'09
max. Earth dist.	-2306 Oct 04 j 04:52	22°♍18'27	19.74966 AU
morning rise	-2306 Oct 19 j 21:57	23°♍16'42	
retrograde	-2305 Jan 19 j 05:49	26°♍33'55	
opposition	-2305 Apr 04 j 15:03	24°♍33'14	0°43'37
min. Earth dist.	-2305 Apr 04 j 15:15	24°♍33'13	17.78170 AU
direct	-2305 Jun 20 j 22:11	22°♍29'56	
evening set	-2305 Sep 23 j 04:36	25°♍51'34	
conjunction	-2305 Oct 08 j 22:22	26°♍49'42	0°38'13
minimum elong	-2305 Oct 08 j 22:22	26°♍49'42	0°38'13
max. Earth dist.	-2305 Oct 08 j 22:45	26°♍49'45	19.81471 AU
morning rise	-2305 Oct 24 j 14:09	27°♍47'31	
	-2305 Dec 05 j 11:57	0°♎	
retrograde	-2304 Jan 24 j 01:14	1°♎04'10	
	-2304 Mar 16 j 01:16	30°℞♍	
opposition	-2304 Apr 08 j 13:54	29°♍03'37	0°41'20
min. Earth dist.	-2304 Apr 08 j 11:21	29°♍03'53	17.84831 AU
direct	-2304 Jun 24 j 21:13	27°♍00'44	
	-2304 Sep 20 j 23:11	0°♎	
evening set	-2304 Sep 26 j 20:57	0°♎21'08	
conjunction	-2304 Oct 12 j 14:10	1°♎18'57	0°36'04
minimum elong	-2304 Oct 12 j 14:10	1°♎18'57	0°36'04
max. Earth dist.	-2304 Oct 12 j 17:57	1°♎19'32	19.88265 AU
morning rise	-2304 Oct 28 j 05:20	2°♎16'30	
retrograde	-2303 Jan 27 j 18:23	5°♎32'34	
opposition	-2303 Apr 13 j 12:18	3°♎32'11	0°38'48
min. Earth dist.	-2303 Apr 13 j 07:56	3°♎32'38	17.91726 AU
direct	-2303 Jun 29 j 18:58	1°♎29'47	
evening set	-2303 Oct 01 j 12:34	4°♎48'53	
conjunction	-2303 Oct 17 j 04:55	5°♎46'23	0°33'42
minimum elong	-2303 Oct 17 j 04:55	5°♎46'23	0°33'41
max. Earth dist.	-2303 Oct 17 j 09:52	5°♎47'08	19.95259 AU
morning rise	-2303 Nov 01 j 19:49	6°♎43'40	
retrograde	-2302 Feb 01 j 12:11	9°♎59'09	
opposition	-2302 Apr 18 j 10:04	7°♎58'56	0°36'04
min. Earth dist.	-2302 Apr 18 j 03:25	7°♎59'38	17.98800 AU
direct	-2302 Jul 04 j 16:03	5°♎57'00	
evening set	-2302 Oct 06 j 03:09	9°♎14'48	
conjunction	-2302 Oct 21 j 19:03	10°♎12'01	0°31'10
minimum elong	-2302 Oct 21 j 19:03	10°♎12'01	0°31'09
max. Earth dist.	-2302 Oct 22 j 03:07	10°♎13'15	20.02388 AU
morning rise	-2302 Nov 06 j 09:28	11°♎09'02	

Attention, astronomical year style is used: The year -2301 in astronomical counting style is the year 2302 BCE in historical counting style.

retrograde	-2301 Feb 06 j 04:37	14°♎23'56	
opposition	-2301 Apr 23 j 07:14	12°♎23'54	0°33'07
min. Earth dist.	-2301 Apr 22 j 22:39	12°♎24'47	18.05958 AU
direct	-2301 Jul 09 j 12:43	10°♎22'27	
evening set	-2301 Oct 10 j 16:56	13°♎38'55	
conjunction	-2301 Oct 26 j 08:09	14°♎35'50	0°28'27
minimum elong	-2301 Oct 26 j 08:09	14°♎35'50	0°28'26
max. Earth dist.	-2301 Oct 26 j 17:14	14°♎37'13	20.09564 AU
morning rise	-2301 Nov 10 j 22:31	15°♎32'37	
retrograde	-2300 Feb 10 j 20:34	18°♎46'57	
opposition	-2300 Apr 27 j 03:41	16°♎47'03	0°30'00
min. Earth dist.	-2300 Apr 26 j 17:26	16°♎48'05	18.13138 AU
direct	-2300 Jul 13 j 07:50	14°♎46'02	
evening set	-2300 Oct 14 j 05:49	18°♎01'13	
conjunction	-2300 Oct 29 j 20:44	18°♎57'50	0°25'35
minimum elong	-2300 Oct 29 j 20:44	18°♎57'50	0°25'33
max. Earth dist.	-2300 Oct 30 j 08:27	18°♎59'37	20.16714 AU
morning rise	-2300 Nov 14 j 10:46	19°♎54'22	
retrograde	-2299 Feb 14 j 12:07	23°♎08'06	
opposition	-2299 May 01 j 23:15	21°♎08'21	0°26'44
min. Earth dist.	-2299 May 01 j 11:07	21°♎09'35	18.20240 AU
direct	-2299 Jul 18 j 03:16	19°♎07'47	
evening set	-2299 Oct 18 j 18:02	22°♎21'39	
conjunction	-2299 Nov 03 j 08:25	23°♎18'00	0°22'36
minimum elong	-2299 Nov 03 j 08:25	23°♎18'00	0°22'35
max. Earth dist.	-2299 Nov 03 j 20:56	23°♎19'53	20.23762 AU
morning rise	-2299 Nov 18 j 22:29	24°♎14'17	
retrograde	-2298 Feb 19 j 02:00	27°♎27'27	
opposition	-2298 May 06 j 18:21	25°♎27'48	0°23'21
min. Earth dist.	-2298 May 06 j 05:00	25°♎29'09	18.27231 AU
direct	-2298 Jul 22 j 20:18	23°♎27'38	
evening set	-2298 Oct 23 j 05:06	26°♎40'11	
conjunction	-2298 Nov 07 j 19:21	27°♎36'16	0°19'30
minimum elong	-2298 Nov 07 j 19:21	27°♎36'16	0°19'28
max. Earth dist.	-2298 Nov 08 j 10:15	27°♎38'31	20.30672 AU
morning rise	-2298 Nov 23 j 09:18	28°♎32'20	
	-2298 Dec 20 j 00:30	0°♏	
retrograde	-2297 Feb 23 j 16:22	1°♏44'54	
	-2297 May 05 j 11:45	30°℞♎	
opposition	-2297 May 11 j 12:33	29°♎45'20	0°19'51
min. Earth dist.	-2297 May 10 j 21:10	29°♎46'54	18.34047 AU
direct	-2297 Jul 27 j 14:18	27°♎45'33	
	-2297 Oct 10 j 20:49	0°♏	
evening set	-2297 Oct 27 j 15:34	0°♏56'48	
conjunction	-2297 Nov 12 j 05:29	1°♏52'37	0°16'19
minimum elong	-2297 Nov 12 j 05:29	1°♏52'37	0°16'18
max. Earth dist.	-2297 Nov 12 j 21:10	1°♏54'58	20.37398 AU
morning rise	-2297 Nov 27 j 19:40	2°♏48'29	
retrograde	-2296 Feb 28 j 04:25	6°♏00'27	
opposition	-2296 May 15 j 05:50	4°♏00'56	0°16'16
min. Earth dist.	-2296 May 14 j 13:40	4°♏02'34	18.40693 AU
direct	-2296 Jul 31 j 05:05	2°♏01'28	
evening set	-2296 Oct 31 j 01:00	5°♏11'27	
conjunction	-2296 Nov 15 j 14:56	6°♏07'02	0°13'05
minimum elong	-2296 Nov 15 j 14:56	6°♏07'02	0°13'02
behind sun begin	-2296 Nov 15 j 10:53	6°♏06'26	
behind sun end	-2296 Nov 15 j 18:59	6°♏07'37	
max. Earth dist.	-2296 Nov 16 j 08:46	6°♏09'42	20.43954 AU
morning rise	-2296 Dec 01 j 05:10	7°♏02'41	
retrograde	-2295 Mar 03 j 17:16	10°♏14'04	
opposition	-2295 May 19 j 22:17	8°♏14'35	0°12'38
min. Earth dist.	-2295 May 19 j 03:55	8°♏16'27	18.47156 AU
direct	-2295 Aug 04 j 20:47	6°♏15'27	
evening set	-2295 Nov 04 j 09:41	9°♏24'10	
conjunction	-2295 Nov 19 j 23:23	10°♏19'30	0°09'48
minimum elong	-2295 Nov 19 j 23:23	10°♏19'30	0°09'46
behind sun begin	-2295 Nov 19 j 17:59	10°♏18'43	
behind sun end	-2295 Nov 20 j 04:47	10°♏20'17	
max. Earth dist.	-2295 Nov 20 j 18:13	10°♏22'19	20.50333 AU
morning rise	-2295 Dec 05 j 13:55	11°♏14'58	
retrograde	-2294 Mar 08 j 04:07	14°♏25'48	
opposition	-2294 May 24 j 14:06	12°♏26'21	0°08'57
min. Earth dist.	-2294 May 23 j 18:59	12°♏28'16	18.53477 AU
direct	-2294 Aug 09 j 09:50	10°♏27'30	
evening set	-2294 Nov 08 j 17:34	13°♏35'01	
conjunction	-2294 Nov 24 j 07:24	14°♏30'09	0°06'30
minimum elong	-2294 Nov 24 j 07:24	14°♏30'09	0°06'27
behind sun begin	-2294 Nov 24 j 01:14	14°♏29'15	
behind sun end	-2294 Nov 24 j 13:33	14°♏31'02	
max. Earth dist.	-2294 Nov 25 j 04:20	14°♏33'15	20.56584 AU
	-2294 Dec 02 j 16:29	15°♏	
morning rise	-2294 Dec 09 j 22:06	15°♏25'25	
retrograde	-2293 Mar 12 j 16:00	18°♏35'43	
min. Earth dist.	-2293 May 28 j 07:24	16°♏38'28	18.59660 AU
opposition	-2293 May 29 j 04:53	16°♏36'18	0°05'16
	-2293 Jul 14 j 16:55	15°℞♏	
direct	-2293 Aug 13 j 23:13	14°♏37'46	
	-2293 Sep 12 j 11:14	15°♏	
evening set	-2293 Nov 13 j 00:52	17°♏44'08	
conjunction	-2293 Nov 28 j 14:40	18°♏39'04	0°03'10
minimum elong	-2293 Nov 28 j 14:40	18°♏39'04	0°03'08
behind sun begin	-2293 Nov 28 j 08:10	18°♏38'08	
behind sun end	-2293 Nov 28 j 21:10	18°♏40'00	
max. Earth dist.	-2293 Nov 29 j 12:34	18°♏42'18	20.62690 AU
morning rise	-2293 Dec 14 j 05:50	19°♏34'11	
retrograde	-2292 Mar 16 j 02:07	22°♏43'59	
opposition	-2292 Jun 01 j 19:03	20°♏44'37	0°01'35
min. Earth dist.	-2292 May 31 j 21:05	20°♏46'49	18.65704 AU
direct	-2292 Aug 17 j 10:12	18°♏46'24	
desc. node	-2292 Nov 07 j 13:14	21°♏21'59	
evening set	-2292 Nov 16 j 07:28	21°♏51'41	
conjunction	-2292 Dec 01 j 21:29	22°♏46'26	-0°00'14
minimum elong	-2292 Dec 01 j 21:30	22°♏46'26	0°00'16
behind sun begin	-2292 Dec 01 j 15:02	22°♏45'30	
behind sun end	-2292 Dec 02 j 03:59	22°♏47'21	
max. Earth dist.	-2292 Dec 02 j 21:12	22°♏49'55	20.68651 AU
morning rise	-2292 Dec 17 j 12:58	23°♏41'24	
retrograde	-2291 Mar 20 j 13:28	26°♏50'44	
min. Earth dist.	-2291 Jun 05 j 08:07	24°♏53'52	18.71571 AU
opposition	-2291 Jun 06 j 08:17	24°♏51'27	-0°02'06
direct	-2291 Aug 21 j 22:04	22°♏53'34	
evening set	-2291 Nov 20 j 13:42	25°♏57'50	
conjunction	-2291 Dec 06 j 03:51	26°♏52'24	-0°03'36
minimum elong	-2291 Dec 06 j 03:50	26°♏52'24	0°03'39
behind sun begin	-2291 Dec 05 j 21:21	26°♏51'28	
behind sun end	-2291 Dec 06 j 10:19	26°♏53'19	
max. Earth dist.	-2291 Dec 07 j 04:21	26°♏56'00	20.74414 AU
morning rise	-2291 Dec 21 j 19:50	27°♏47'14	
	-2290 Feb 04 j 20:07	0°♐	
retrograde	-2290 Mar 24 j 22:53	0°♐56'09	
	-2290 May 14 j 05:02	30°℞♏	
opposition	-2290 Jun 10 j 21:08	28°♏56'57	-0°05'44
min. Earth dist.	-2290 Jun 09 j 20:51	28°♏59'23	18.77234 AU

Attention, astronomical year style is used: The year -2290 in astronomical counting style is the year 2291 BCE in historical counting style.

direct	-2290 Aug 26 j 07:15	26°♏59'24	
evening set	-2290 Nov 24 j 19:14	0°♐02'41	
	-2290 Nov 24 j 00:21	0°♐	
conjunction	-2290 Dec 10 j 09:46	0°♐57'07	-0°06'51
minimum elong	-2290 Dec 10 j 09:46	0°♐57'07	0°06'54
behind sun begin	-2290 Dec 10 j 03:41	0°♐56'15	
behind sun end	-2290 Dec 10 j 15:51	0°♐57'59	
max. Earth dist.	-2290 Dec 11 j 11:46	1°♐00'55	20.79953 AU
morning rise	-2290 Dec 26 j 02:14	1°♐51'50	
retrograde	-2289 Mar 29 j 10:15	5°♐00'21	
min. Earth dist.	-2289 Jun 14 j 07:02	3°♐03'52	18.82627 AU
opposition	-2289 Jun 15 j 09:09	3°♐01'15	-0°09'20
direct	-2289 Aug 30 j 18:01	1°♐04'01	
evening set	-2289 Nov 29 j 00:41	4°♐06'25	
conjunction	-2289 Dec 14 j 15:27	5°♐00'42	-0°10'04
minimum elong	-2289 Dec 14 j 15:27	5°♐00'42	0°10'07
behind sun begin	-2289 Dec 14 j 10:10	4°♐59'57	
behind sun end	-2289 Dec 14 j 20:44	5°♐01'27	
max. Earth dist.	-2289 Dec 15 j 17:56	5°♐04'34	20.85182 AU
morning rise	-2289 Dec 30 j 08:35	5°♐55'20	
retrograde	-2288 Apr 01 j 18:43	9°♐03'30	
opposition	-2288 Jun 18 j 20:35	7°♐04'29	-0°12'52
min. Earth dist.	-2288 Jun 17 j 18:57	7°♐07'03	18.87694 AU
direct	-2288 Sep 03 j 01:39	5°♐07'32	
evening set	-2288 Dec 02 j 05:42	8°♐09'07	
conjunction	-2288 Dec 17 j 20:56	9°♐03'17	-0°13'13
minimum elong	-2288 Dec 17 j 20:57	9°♐03'17	0°13'16
behind sun begin	-2288 Dec 17 j 17:03	9°♐02'44	
behind sun end	-2288 Dec 18 j 00:50	9°♐03'50	
max. Earth dist.	-2288 Dec 19 j 00:22	9°♐07'17	20.90061 AU
morning rise	-2287 Jan 02 j 14:36	9°♐57'49	
retrograde	-2287 Apr 06 j 05:28	13°♐05'40	
min. Earth dist.	-2287 Jun 22 j 04:23	11°♐09'26	18.92368 AU
opposition	-2287 Jun 23 j 07:26	11°♐06'44	-0°16'20
direct	-2287 Sep 07 j 11:33	9°♐10'03	
evening set	-2287 Dec 06 j 10:27	12°♐10'52	
conjunction	-2287 Dec 22 j 02:02	13°♐04'56	-0°16'18
minimum elong	-2287 Dec 22 j 02:02	13°♐04'56	0°16'22
max. Earth dist.	-2287 Dec 23 j 05:38	13°♐08'56	20.94506 AU
morning rise	-2286 Jan 06 j 20:25	13°♐59'24	
retrograde	-2286 Apr 10 j 13:37	17°♐06'58	
opposition	-2286 Jun 27 j 17:59	15°♐08'05	-0°19'42
min. Earth dist.	-2286 Jun 26 j 15:47	15°♐10'42	18.96590 AU
direct	-2286 Sep 11 j 18:07	13°♐11'38	
evening set	-2286 Dec 10 j 15:02	16°♐11'45	
conjunction	-2286 Dec 26 j 07:14	17°♐05'44	-0°19'18
minimum elong	-2286 Dec 26 j 07:14	17°♐05'44	0°19'21
max. Earth dist.	-2286 Dec 27 j 11:15	17°♐09'47	20.98481 AU
morning rise	-2285 Jan 11 j 02:16	18°♐00'08	
retrograde	-2285 Apr 14 j 23:20	21°♐07'26	
min. Earth dist.	-2285 Jul 01 j 00:29	19°♐11'18	19.00305 AU
opposition	-2285 Jul 02 j 03:42	19°♐08'35	-0°22'58
direct	-2285 Sep 16 j 03:12	17°♐12'19	
evening set	-2285 Dec 14 j 19:31	20°♐11'47	
conjunction	-2285 Dec 30 j 12:12	21°♐05'42	-0°22'12
minimum elong	-2285 Dec 30 j 12:12	21°♐05'42	0°22'15
max. Earth dist.	-2285 Dec 31 j 15:53	21°♐09'42	21.01916 AU
morning rise	-2284 Jan 15 j 08:04	22°♐00'04	
retrograde	-2284 Apr 18 j 07:13	25°♐07'08	
min. Earth dist.	-2284 Jul 04 j 11:08	23°♐10'52	19.03473 AU
opposition	-2284 Jul 05 j 13:08	23°♐08'16	-0°26'06
direct	-2284 Sep 19 j 09:01	21°♐12'08	
evening set	-2284 Dec 17 j 23:36	24°♐11'00	
conjunction	-2283 Jan 02 j 17:00	25°♐04'53	-0°24'59
minimum elong	-2283 Jan 02 j 17:00	25°♐04'53	0°25'03
max. Earth dist.	-2283 Jan 03 j 20:48	25°♐08'53	21.04814 AU
morning rise	-2283 Jan 18 j 13:34	25°♐59'13	
retrograde	-2283 Apr 22 j 15:59	29°♐06'04	
opposition	-2283 Jul 09 j 21:53	27°♐07'09	-0°29'06
min. Earth dist.	-2283 Jul 08 j 19:01	27°♐09'50	19.06097 AU
direct	-2283 Sep 23 j 16:57	25°♐11'06	
evening set	-2283 Dec 22 j 03:40	28°♐09'26	
conjunction	-2282 Jan 06 j 21:38	29°♐03'17	-0°27'38
minimum elong	-2282 Jan 06 j 21:38	29°♐03'17	0°27'41
max. Earth dist.	-2282 Jan 08 j 01:06	29°♐07'14	21.07174 AU
morning rise	-2282 Jan 22 j 19:07	29°♐57'38	
	-2282 Jan 23 j 12:06	0°♑	
retrograde	-2282 Apr 26 j 23:14	3°♑04'17	
min. Earth dist.	-2282 Jul 13 j 04:42	1°♑07'52	19.08215 AU
opposition	-2282 Jul 14 j 06:17	1°♑05'18	-0°31'57
	-2282 Aug 12 j 05:03	30°℞♐	
direct	-2282 Sep 27 j 22:18	29°♐09'18	
	-2282 Nov 11 j 23:35	0°♑	
evening set	-2282 Dec 26 j 07:27	2°♑07'10	
conjunction	-2281 Jan 11 j 02:15	3°♑01'01	-0°30'08
minimum elong	-2281 Jan 11 j 02:15	3°♑01'01	0°30'12
max. Earth dist.	-2281 Jan 12 j 05:50	3°♑04'58	21.09059 AU
morning rise	-2281 Jan 27 j 00:34	3°♑55'21	
retrograde	-2281 May 01 j 07:54	7°♑01'52	
min. Earth dist.	-2281 Jul 17 j 11:39	5°♑05'26	19.09868 AU
opposition	-2281 Jul 18 j 14:02	5°♑02'48	-0°34'38
direct	-2281 Oct 02 j 04:43	3°♑06'49	
evening set	-2281 Dec 30 j 11:22	6°♑04'19	
conjunction	-2280 Jan 15 j 06:49	6°♑58'10	-0°32'29
minimum elong	-2280 Jan 15 j 06:49	6°♑58'10	0°32'32
max. Earth dist.	-2280 Jan 16 j 10:01	7°♑02'03	21.10482 AU
morning rise	-2280 Jan 31 j 06:03	7°♑52'33	
retrograde	-2280 May 04 j 14:17	10°♑58'56	
opposition	-2280 Jul 21 j 21:22	8°♑59'49	-0°37'08
min. Earth dist.	-2280 Jul 20 j 20:19	9°♑02'19	19.11089 AU
direct	-2280 Oct 05 j 09:36	7°♑03'51	
evening set	-2279 Jan 02 j 15:09	10°♑01'04	
conjunction	-2279 Jan 18 j 11:29	10°♑54'56	-0°34'41
minimum elong	-2279 Jan 18 j 11:28	10°♑54'56	0°34'44
max. Earth dist.	-2279 Jan 19 j 14:40	10°♑58'49	21.11507 AU
morning rise	-2279 Feb 03 j 11:33	11°♑49'21	
retrograde	-2279 May 08 j 23:20	14°♑55'42	
min. Earth dist.	-2279 Jul 25 j 02:34	12°♑59'05	19.11915 AU
opposition	-2279 Jul 26 j 04:21	12°♑56'30	-0°39'28
direct	-2279 Oct 09 j 15:01	11°♑00'33	
evening set	-2278 Jan 06 j 18:59	13°♑57'33	
conjunction	-2278 Jan 22 j 16:04	14°♑51'29	-0°36'43
minimum elong	-2278 Jan 22 j 16:04	14°♑51'29	0°36'46
max. Earth dist.	-2278 Jan 23 j 18:50	14°♑55'18	21.12128 AU
morning rise	-2278 Feb 07 j 17:09	15°♑45'57	
retrograde	-2278 May 13 j 05:30	18°♑52'19	
min. Earth dist.	-2278 Jul 29 j 10:52	16°♑55'31	19.12344 AU
opposition	-2278 Jul 30 j 11:13	16°♑53'04	-0°41'37
direct	-2278 Oct 13 j 19:02	14°♑57'07	
evening set	-2277 Jan 10 j 23:02	17°♑54'01	
conjunction	-2277 Jan 26 j 21:06	18°♑48'00	-0°38'34

Attention, astronomical year style is used: The year -2277 in astronomical counting style is the year 2278 BCE in historical counting style.

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

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 14:52	8°♓53'50	18.75174 AU
direct	-2265 Dec 04 j 13:12	6°♓54'43	
evening set	-2264 Mar 03 j 20:34	9°♓56'48	
conjunction	-2264 Mar 20 j 07:45	10°♓53'10	-0°43'57
minimum elong	-2264 Mar 20 j 07:45	10°♓53'10	0°43'58
max. Earth dist.	-2264 Mar 20 j 15:27	10°♓54'16	20.72378 AU
morning rise	-2264 Apr 05 j 22:11	11°♓50'01	
retrograde	-2264 Jul 09 j 14:16	15°♓00'13	
opposition	-2264 Sep 24 j 06:14	12°♓59'22	-0°48'01
min. Earth dist.	-2264 Sep 24 j 00:37	12°♓59'57	18.69551 AU
direct	-2264 Dec 07 j 19:27	11°♓00'44	
evening set	-2263 Mar 08 j 08:10	14°♓03'43	
conjunction	-2263 Mar 24 j 20:21	15°♓00'23	-0°42'47
minimum elong	-2263 Mar 24 j 20:21	15°♓00'23	0°42'48
max. Earth dist.	-2263 Mar 25 j 01:55	15°♓01'11	20.66671 AU
morning rise	-2263 Apr 10 j 11:40	15°♓57'29	
retrograde	-2263 Jul 14 j 03:22	19°♓08'13	
opposition	-2263 Sep 28 j 14:06	17°♓07'14	-0°46'37
min. Earth dist.	-2263 Sep 28 j 09:27	17°♓07'43	18.63744 AU
direct	-2263 Dec 12 j 03:16	15°♓08'19	
evening set	-2262 Mar 12 j 20:40	18°♓12'16	
conjunction	-2262 Mar 29 j 09:52	19°♓09'14	-0°41'23
minimum elong	-2262 Mar 29 j 09:52	19°♓09'14	0°41'25
max. Earth dist.	-2262 Mar 29 j 13:57	19°♓09'49	20.60762 AU
morning rise	-2262 Apr 15 j 01:54	20°♓06'37	
retrograde	-2262 Jul 18 j 15:41	23°♓17'54	
opposition	-2262 Oct 02 j 22:34	21°♓16'50	-0°44'57
min. Earth dist.	-2262 Oct 02 j 20:12	21°♓17'05	18.57730 AU
direct	-2262 Dec 16 j 10:40	19°♓17'37	
evening set	-2261 Mar 17 j 10:14	22°♓22'38	
conjunction	-2261 Apr 03 j 00:19	23°♓19'54	-0°39'46
minimum elong	-2261 Apr 03 j 00:19	23°♓19'54	0°39'46
max. Earth dist.	-2261 Apr 03 j 01:49	23°♓20'07	20.54661 AU
morning rise	-2261 Apr 19 j 17:07	24°♓17'33	
retrograde	-2261 Jul 23 j 06:10	27°♓29'26	
opposition	-2261 Oct 07 j 07:22	25°♓28'17	-0°43'03
min. Earth dist.	-2261 Oct 07 j 06:21	25°♓28'24	18.51521 AU
direct	-2261 Dec 20 j 19:43	23°♓28'46	
evening set	-2260 Mar 21 j 00:44	26°♓34'54	
conjunction	-2260 Apr 06 j 15:45	27°♓32'28	-0°37'56
minimum elong	-2260 Apr 06 j 15:45	27°♓32'28	0°37'56
max. Earth dist.	-2260 Apr 06 j 15:37	27°♓32'27	20.48335 AU
morning rise	-2260 Apr 23 j 09:04	28°♓30'25	
	-2260 May 21 j 16:07	0°♈	
retrograde	-2260 Jul 26 j 19:56	1°♈42'54	
	-2260 Oct 03 j 10:28	30°♑♓	
opposition	-2260 Oct 10 j 16:56	29°♓41'41	-0°40'54
min. Earth dist.	-2260 Oct 10 j 18:17	29°♓41'32	18.45081 AU
direct	-2260 Dec 24 j 04:21	27°♓41'50	
	-2259 Mar 10 j 19:31	0°♈	
evening set	-2259 Mar 25 j 16:10	0°♈49'07	
conjunction	-2259 Apr 11 j 07:57	1°♈47'00	-0°35'52
minimum elong	-2259 Apr 11 j 07:57	1°♈47'00	0°35'51
max. Earth dist.	-2259 Apr 11 j 04:48	1°♈46'33	20.41787 AU
morning rise	-2259 Apr 28 j 01:59	2°♈45'14	
retrograde	-2259 Jul 31 j 11:51	5°♈58'21	
opposition	-2259 Oct 15 j 03:06	3°♈57'01	-0°38'30
min. Earth dist.	-2259 Oct 15 j 06:05	3°♈56'42	18.38408 AU
direct	-2259 Dec 28 j 15:15	1°♈56'48	
evening set	-2258 Mar 30 j 08:45	5°♈05'17	

conjunction	-2258 Apr 16 j 01:25	6°♈03'29	-0°33'35
minimum elong	-2258 Apr 16 j 01:26	6°♈03'29	0°33'34
max. Earth dist.	-2258 Apr 15 j 20:31	6°♈02'47	20.34984 AU
morning rise	-2258 May 02 j 19:49	7°♈02'00	
retrograde	-2258 Aug 05 j 02:46	10°♈15'43	
opposition	-2258 Oct 19 j 13:49	8°♈14'15	-0°35'52
min. Earth dist.	-2258 Oct 19 j 19:11	8°♈13'41	18.31485 AU
direct	-2257 Jan 02 j 01:28	6°♈13'39	
evening set	-2257 Apr 04 j 02:22	9°♈23'21	
conjunction	-2257 Apr 20 j 19:40	10°♈21'53	-0°31'06
minimum elong	-2257 Apr 20 j 19:40	10°♈21'53	0°31'05
max. Earth dist.	-2257 Apr 20 j 11:23	10°♈20'40	20.27964 AU
morning rise	-2257 May 07 j 14:38	11°♈20'41	
retrograde	-2257 Aug 09 j 19:31	14°♈35'00	
opposition	-2257 Oct 24 j 01:14	12°♈33'22	-0°33'01
min. Earth dist.	-2257 Oct 24 j 08:22	12°♈32'36	18.24371 AU
direct	-2256 Jan 06 j 14:34	10°♈32'20	
evening set	-2256 Apr 07 j 20:40	13°♈43'15	
conjunction	-2256 Apr 24 j 14:44	14°♈42'07	-0°28'25
minimum elong	-2256 Apr 24 j 14:44	14°♈42'07	0°28'23
max. Earth dist.	-2256 Apr 24 j 05:06	14°♈40'42	20.20766 AU
morning rise	-2256 May 11 j 09:52	15°♈41'11	
retrograde	-2256 Aug 13 j 11:01	18°♈56'05	
opposition	-2256 Oct 27 j 13:17	16°♈54'18	-0°29'57
min. Earth dist.	-2256 Oct 27 j 22:25	16°♈53'19	18.17111 AU
direct	-2255 Jan 10 j 02:37	14°♈52'49	
evening set	-2255 Apr 12 j 16:04	18°♈05'00	
conjunction	-2255 Apr 29 j 10:36	19°♈04'10	-0°25'33
minimum elong	-2255 Apr 29 j 10:36	19°♈04'10	0°25'33
max. Earth dist.	-2255 Apr 28 j 21:44	19°♈02'16	20.13480 AU
morning rise	-2255 May 16 j 06:12	20°♈03'31	
retrograde	-2255 Aug 18 j 04:26	23°♈19'00	
opposition	-2255 Nov 01 j 01:50	21°♈17'01	-0°26'41
min. Earth dist.	-2255 Nov 01 j 12:47	21°♈15'51	18.09811 AU
direct	-2254 Jan 14 j 17:39	19°♈15'04	
evening set	-2254 Apr 17 j 12:18	22°♈28'32	
conjunction	-2254 May 04 j 07:31	23°♈28'02	-0°22'31
minimum elong	-2254 May 04 j 07:31	23°♈28'01	0°22'30
max. Earth dist.	-2254 May 03 j 17:40	23°♈25'58	20.06173 AU
morning rise	-2254 May 21 j 03:08	24°♈27'38	
retrograde	-2254 Aug 22 j 20:51	27°♈43'41	
opposition	-2254 Nov 05 j 15:11	25°♈41'32	-0°23'15
min. Earth dist.	-2254 Nov 06 j 03:43	25°♈40'11	18.02521 AU
direct	-2253 Jan 19 j 08:07	23°♈39'07	
evening set	-2253 Apr 22 j 09:33	26°♈53'53	
conjunction	-2253 May 09 j 04:59	27°♈53'40	-0°19'21
minimum elong	-2253 May 09 j 04:59	27°♈53'40	0°19'19
max. Earth dist.	-2253 May 08 j 12:05	27°♈51'09	19.98927 AU
morning rise	-2253 May 26 j 00:49	28°♈53'32	
	-2253 Jun 14 j 21:50	0°♉	
retrograde	-2253 Aug 27 j 14:44	2°♉10'10	
opposition	-2253 Nov 10 j 05:10	0°♉07'51	-0°19'39
min. Earth dist.	-2253 Nov 10 j 19:25	0°♉06'19	17.95345 AU
	-2253 Nov 13 j 05:57	30°♑♈	
direct	-2252 Jan 24 j 00:32	28°♈04'58	
	-2252 Apr 01 j 18:03	0°♉	
evening set	-2252 Apr 26 j 07:28	1°♉21'03	
max. Earth dist.	-2252 May 12 j 09:58	2°♉18'32	19.91823 AU
conjunction	-2252 May 13 j 03:24	2°♉21'08	-0°16'02
minimum elong	-2252 May 13 j 03:24	2°♉21'08	0°16'01
morning rise	-2252 May 29 j 23:03	3°♉21'14	

Attention, astronomical year style is used: The year -2252 in astronomical counting style is the year 2253 BCE in historical counting style.

retrograde	-2252 Aug 31 j 08:55	6°♉38'26	
opposition	-2252 Nov 13 j 19:55	4°♉35'59	-0°15'54
min. Earth dist.	-2252 Nov 14 j 11:13	4°♉34'20	17.88341 AU
direct	-2251 Jan 27 j 17:17	2°♉32'41	
evening set	-2251 May 01 j 06:22	5°♉50'04	
max. Earth dist.	-2251 May 17 j 06:11	6°♉47'24	19.84936 AU
conjunction	-2251 May 18 j 02:23	6°♉50'26	-0°12'37
minimum elong	-2251 May 18 j 02:22	6°♉50'26	0°12'34
behind sun begin	-2251 May 17 j 22:09	6°♉49'49	
behind sun end	-2251 May 18 j 06:36	6°♉51'03	
morning rise	-2251 Jun 03 j 22:05	7°♉50'47	
retrograde	-2251 Sep 05 j 03:47	11°♉08'34	
opposition	-2251 Nov 18 j 11:30	9°♉06'00	-0°12'03
min. Earth dist.	-2251 Nov 19 j 04:28	9°♉04'09	17.81592 AU
direct	-2250 Feb 01 j 10:49	7°♉02'16	
evening set	-2250 May 06 j 06:08	10°♉21'00	
max. Earth dist.	-2250 May 22 j 05:54	11°♉18'33	19.78321 AU
conjunction	-2250 May 23 j 02:27	11°♉21'39	-0°09'06
minimum elong	-2250 May 23 j 02:26	11°♉21'39	0°09'04
behind sun begin	-2250 May 22 j 20:42	11°♉20'48	
behind sun end	-2250 May 23 j 08:10	11°♉22'29	
morning rise	-2250 Jun 08 j 21:46	12°♉22'12	
	-2250 Aug 01 j 21:20	15°♉	
retrograde	-2250 Sep 10 j 00:10	15°♉40'32	
	-2250 Oct 19 j 16:03	15°℞♉	
opposition	-2250 Nov 23 j 03:46	13°♉37'55	-0°08'05
min. Earth dist.	-2250 Nov 23 j 21:26	13°♉36'00	17.75127 AU
direct	-2249 Feb 06 j 05:37	11°♉33'50	
evening set	-2249 May 11 j 06:56	14°♉53'54	
	-2249 May 13 j 00:01	15°♉	
max. Earth dist.	-2249 May 27 j 04:07	15°♉51'19	19.72019 AU
conjunction	-2249 May 28 j 03:06	15°♉54'48	-0°05'31
minimum elong	-2249 May 28 j 03:05	15°♉54'48	0°05'28
behind sun begin	-2249 May 27 j 20:33	15°♉53'50	
behind sun end	-2249 May 28 j 09:38	15°♉55'46	
morning rise	-2249 Jun 13 j 22:13	16°♉55'35	
retrograde	-2249 Sep 14 j 20:21	20°♉14'28	
opposition	-2249 Nov 27 j 21:03	18°♉11'50	-0°04'02
min. Earth dist.	-2249 Nov 28 j 16:26	18°♉09'43	17.69003 AU
direct	-2248 Feb 11 j 00:16	16°♉07'25	
evening set	-2248 May 15 j 08:14	19°♉28'48	
max. Earth dist.	-2248 May 31 j 05:15	20°♉26'25	19.66061 AU
conjunction	-2248 Jun 01 j 04:27	20°♉29'57	-0°01'50
minimum elong	-2248 Jun 01 j 04:26	20°♉29'56	0°01'47
behind sun begin	-2248 May 31 j 21:39	20°♉28'56	
behind sun end	-2248 Jun 01 j 11:14	20°♉30'57	
morning rise	-2248 Jun 17 j 23:03	21°♉30'55	
retrograde	-2248 Sep 18 j 18:49	24°♉50'21	
asc. node	-2248 Nov 25 j 00:08	23°♉05'01	
opposition	-2248 Dec 01 j 15:04	22°♉47'43	0°00'04
min. Earth dist.	-2248 Dec 02 j 10:50	22°♉45'34	17.63208 AU
direct	-2247 Feb 14 j 21:01	20°♉43'02	
evening set	-2247 May 20 j 10:43	24°♉05'43	
max. Earth dist.	-2247 Jun 05 j 05:18	25°♉03'13	19.60427 AU
conjunction	-2247 Jun 06 j 06:36	25°♉07'05	0°02'00
minimum elong	-2247 Jun 06 j 06:36	25°♉07'05	0°02'02
behind sun begin	-2247 Jun 05 j 23:48	25°♉06'04	
behind sun end	-2247 Jun 06 j 13:23	25°♉08'06	
morning rise	-2247 Jun 23 j 00:45	26°♉08'14	
retrograde	-2247 Sep 23 j 16:14	29°♉28'11	
opposition	-2247 Dec 06 j 09:56	27°♉25'35	0°04'13
min. Earth dist.	-2247 Dec 07 j 07:42	27°♉23'13	17.57747 AU
direct	-2246 Feb 19 j 17:15	25°♉20'37	
evening set	-2246 May 25 j 13:54	28°♉44'35	
max. Earth dist.	-2246 Jun 10 j 07:37	29°♉42'09	19.55116 AU
conjunction	-2246 Jun 11 j 09:33	29°♉46'08	0°05'44
minimum elong	-2246 Jun 11 j 09:33	29°♉46'08	0°05'47
behind sun begin	-2246 Jun 11 j 03:04	29°♉45'10	
behind sun end	-2246 Jun 11 j 16:02	29°♉47'07	
	-2246 Jun 15 j 03:36	0°♊	
morning rise	-2246 Jun 28 j 03:03	0°♊47'26	
retrograde	-2246 Sep 28 j 16:04	4°♊07'53	
opposition	-2246 Dec 11 j 05:42	2°♊05'19	0°08'22
min. Earth dist.	-2246 Dec 12 j 03:39	2°♊02'55	17.52589 AU
direct	-2245 Feb 24 j 15:57	0°♊00'05	
evening set	-2245 May 30 j 17:44	3°♊25'14	
max. Earth dist.	-2245 Jun 15 j 09:21	4°♊22'43	19.50102 AU
conjunction	-2245 Jun 16 j 12:53	4°♊26'58	0°09'25
minimum elong	-2245 Jun 16 j 12:53	4°♊26'58	0°09'28
behind sun begin	-2245 Jun 16 j 07:16	4°♊26'07	
behind sun end	-2245 Jun 16 j 18:29	4°♊27'49	
morning rise	-2245 Jul 03 j 05:36	5°♊28'24	
retrograde	-2245 Oct 03 j 14:40	8°♊49'17	
opposition	-2245 Dec 16 j 02:25	6°♊46'44	0°12'29
min. Earth dist.	-2245 Dec 17 j 02:15	6°♊44'08	17.47747 AU
direct	-2244 Feb 29 j 14:05	4°♊41'14	
evening set	-2244 Jun 03 j 22:06	8°♊07'31	
conjunction	-2244 Jun 20 j 16:44	9°♊09'24	0°13'05
minimum elong	-2244 Jun 20 j 16:44	9°♊09'24	0°13'08
behind sun begin	-2244 Jun 20 j 12:51	9°♊08'48	
behind sun end	-2244 Jun 20 j 20:37	9°♊09'59	
max. Earth dist.	-2244 Jun 19 j 12:25	9°♊05'00	19.45424 AU
morning rise	-2244 Jul 07 j 08:41	10°♊10'56	
retrograde	-2244 Oct 07 j 15:10	13°♊32'13	
opposition	-2244 Dec 19 j 23:41	11°♊29'40	0°16'32
min. Earth dist.	-2244 Dec 20 j 23:21	11°♊27'05	17.43240 AU
direct	-2243 Mar 05 j 14:30	9°♊23'54	
evening set	-2243 Jun 09 j 02:56	12°♊51'14	
conjunction	-2243 Jun 25 j 20:59	13°♊53'14	0°16'41
minimum elong	-2243 Jun 25 j 20:59	13°♊53'14	0°16'44
max. Earth dist.	-2243 Jun 24 j 15:53	13°♊48'43	19.41088 AU
morning rise	-2243 Jul 12 j 11:59	14°♊54'50	
retrograde	-2243 Oct 12 j 14:22	18°♊16'28	
opposition	-2243 Dec 24 j 21:53	16°♊13'55	0°20'30
min. Earth dist.	-2243 Dec 25 j 23:13	16°♊11'09	17.39103 AU
direct	-2242 Mar 10 j 14:13	14°♊07'54	
evening set	-2242 Jun 14 j 08:10	17°♊36'11	
max. Earth dist.	-2242 Jun 29 j 19:27	18°♊33'36	19.37157 AU
conjunction	-2242 Jul 01 j 01:25	18°♊38'16	0°20'10
minimum elong	-2242 Jul 01 j 01:25	18°♊38'16	0°20'13
morning rise	-2242 Jul 17 j 15:32	19°♊39'55	
retrograde	-2242 Oct 17 j 15:00	23°♊01'50	
opposition	-2242 Dec 29 j 20:34	20°♊59'17	0°24'21
min. Earth dist.	-2242 Dec 30 j 21:22	20°♊56'34	17.35389 AU
direct	-2241 Mar 15 j 16:35	18°♊53'02	
evening set	-2241 Jun 19 j 13:35	22°♊22'09	
max. Earth dist.	-2241 Jul 05 j 00:27	23°♊19'40	19.33670 AU
conjunction	-2241 Jul 06 j 06:06	23°♊24'18	0°23'33
minimum elong	-2241 Jul 06 j 06:05	23°♊24'18	0°23'36
morning rise	-2241 Jul 22 j 19:01	24°♊25'58	
retrograde	-2241 Oct 22 j 14:25	27°♊48'07	
opposition	-2240 Jan 03 j 20:05	25°♊45'34	0°28'02
min. Earth dist.	-2240 Jan 04 j 21:58	25°♊42'43	17.32159 AU

Attention, astronomical year style is used: The year -2240 in astronomical counting style is the year 2241 BCE in historical counting style.

direct	-2240 Mar 19 j 18:12	23°♊39'07	
evening set	-2240 Jun 23 j 19:00	27°♊08'57	
max. Earth dist.	-2240 Jul 09 j 04:12	28°♊06'22	19.30708 AU
conjunction	-2240 Jul 10 j 10:30	28°♊11'07	0°26'45
minimum elong	-2240 Jul 10 j 10:29	28°♊11'07	0°26'48
morning rise	-2240 Jul 26 j 22:30	29°♊12'47	
	-2240 Aug 09 j 03:08	0°♋	
retrograde	-2240 Oct 26 j 14:38	2°♋35'07	
opposition	-2239 Jan 07 j 19:57	0°♋32'33	0°31'31
min. Earth dist.	-2239 Jan 08 j 20:56	0°♋29'48	17.29475 AU
	-2239 Jan 20 j 08:26	30°℞♊	
direct	-2239 Mar 24 j 22:06	28°♊25'54	
	-2239 May 25 j 03:30	0°♋	
evening set	-2239 Jun 29 j 00:31	1°♋56'22	
max. Earth dist.	-2239 Jul 14 j 10:08	2°♋53'59	19.28305 AU
conjunction	-2239 Jul 15 j 15:10	2°♋58'33	0°29'47
minimum elong	-2239 Jul 15 j 15:10	2°♋58'32	0°29'51
morning rise	-2239 Aug 01 j 01:50	4°♋00'11	
retrograde	-2239 Oct 31 j 14:15	7°♋22'37	
opposition	-2238 Jan 12 j 20:25	5°♋20'04	0°34'48
min. Earth dist.	-2238 Jan 13 j 21:53	5°♋17'17	17.27380 AU
direct	-2238 Mar 30 j 01:26	3°♋13'17	
evening set	-2238 Jul 04 j 06:08	6°♋44'15	
conjunction	-2238 Jul 20 j 19:31	7°♋46'23	0°32'37
minimum elong	-2238 Jul 20 j 19:31	7°♋46'23	0°32'40
max. Earth dist.	-2238 Jul 19 j 14:05	7°♋41'45	19.26533 AU
morning rise	-2238 Aug 06 j 05:08	8°♋47'58	
retrograde	-2238 Nov 05 j 14:50	12°♋10'29	
opposition	-2237 Jan 17 j 21:23	10°♋07'58	0°37'51
min. Earth dist.	-2237 Jan 18 j 21:38	10°♋05'19	17.25945 AU
direct	-2237 Apr 04 j 06:14	8°♋01'06	
evening set	-2237 Jul 09 j 11:16	11°♋32'28	
conjunction	-2237 Jul 25 j 23:40	12°♋34'32	0°35'14
minimum elong	-2237 Jul 25 j 23:40	12°♋34'32	0°35'16
max. Earth dist.	-2237 Jul 24 j 20:20	12°♋30'13	19.25431 AU
morning rise	-2237 Aug 11 j 07:52	13°♋36'02	
retrograde	-2237 Nov 10 j 15:04	16°♋58'34	
opposition	-2236 Jan 22 j 22:53	14°♋56'09	0°40'38
min. Earth dist.	-2236 Jan 23 j 22:47	14°♋53'32	17.25186 AU
direct	-2236 Apr 08 j 10:01	12°♋49'16	
evening set	-2236 Jul 13 j 16:28	16°♋20'54	
max. Earth dist.	-2236 Jul 29 j 00:08	17°♋18'33	19.25026 AU
conjunction	-2236 Jul 30 j 03:32	17°♋22'52	0°37'35
minimum elong	-2236 Jul 30 j 03:32	17°♋22'52	0°37'39
morning rise	-2236 Aug 15 j 10:37	18°♋24'16	
retrograde	-2236 Nov 14 j 16:15	21°♋46'48	
opposition	-2235 Jan 27 j 00:30	19°♋44'28	0°43'08
min. Earth dist.	-2235 Jan 27 j 23:15	19°♋41'59	17.25132 AU
direct	-2235 Apr 13 j 14:10	17°♋37'38	
evening set	-2235 Jul 18 j 21:17	21°♋09'27	
max. Earth dist.	-2235 Aug 03 j 06:11	22°♋07'20	19.25307 AU
conjunction	-2235 Aug 04 j 07:18	22°♋11'18	0°39'42
minimum elong	-2235 Aug 04 j 07:18	22°♋11'18	0°39'44
morning rise	-2235 Aug 20 j 12:59	23°♋12'34	
retrograde	-2235 Nov 19 j 17:26	26°♋35'02	
opposition	-2234 Feb 01 j 02:41	24°♋32'52	0°45'20
min. Earth dist.	-2234 Feb 02 j 00:34	24°♋30'29	17.25728 AU
direct	-2234 Apr 18 j 18:07	22°♋26'08	
evening set	-2234 Jul 24 j 01:52	25°♋57'59	
max. Earth dist.	-2234 Aug 08 j 09:40	26°♋55'46	19.26223 AU
conjunction	-2234 Aug 09 j 10:28	26°♋59'42	0°41'32
minimum elong	-2234 Aug 09 j 10:27	26°♋59'42	0°41'35
morning rise	-2234 Aug 25 j 14:58	28°♋00'48	
	-2234 Sep 30 j 07:19	0°♌	
retrograde	-2234 Nov 24 j 18:37	1°♌23'11	
	-2233 Jan 22 j 00:39	30°℞♋	
opposition	-2233 Feb 06 j 05:10	29°♋21'10	0°47'13
min. Earth dist.	-2233 Feb 07 j 02:08	29°♋18'54	17.26952 AU
direct	-2233 Apr 23 j 21:57	27°♋14'35	
	-2233 Jul 16 j 09:54	0°♌	
evening set	-2233 Jul 29 j 05:55	0°♌46'21	
conjunction	-2233 Aug 14 j 13:21	1°♌47'54	0°43'04
minimum elong	-2233 Aug 14 j 13:21	1°♌47'54	0°43'07
max. Earth dist.	-2233 Aug 13 j 14:47	1°♌44'19	19.27736 AU
morning rise	-2233 Aug 30 j 16:30	2°♌48'49	
retrograde	-2233 Nov 29 j 19:53	6°♌11'02	
opposition	-2232 Feb 11 j 07:51	4°♌09'11	0°48'46
min. Earth dist.	-2232 Feb 12 j 03:23	4°♌07'04	17.28729 AU
direct	-2232 Apr 28 j 02:52	2°♌02'47	
evening set	-2232 Aug 02 j 09:31	5°♌34'19	
conjunction	-2232 Aug 18 j 15:35	6°♌35'40	0°44'19
minimum elong	-2232 Aug 18 j 15:35	6°♌35'40	0°44'21
max. Earth dist.	-2232 Aug 17 j 17:45	6°♌32'12	19.29775 AU
morning rise	-2232 Sep 03 j 17:34	7°♌36'24	
retrograde	-2232 Dec 03 j 19:47	10°♌58'24	
opposition	-2231 Feb 15 j 10:44	8°♌56'41	0°49'59
min. Earth dist.	-2231 Feb 16 j 05:38	8°♌54'39	17.31021 AU
direct	-2231 May 03 j 06:44	6°♌50'29	
evening set	-2231 Aug 07 j 12:34	10°♌21'40	
conjunction	-2231 Aug 23 j 17:22	11°♌22'47	0°45'15
minimum elong	-2231 Aug 23 j 17:22	11°♌22'47	0°45'17
max. Earth dist.	-2231 Aug 22 j 21:25	11°♌19'38	19.32302 AU
morning rise	-2231 Sep 08 j 18:06	12°♌23'18	
	-2231 Oct 29 j 11:35	15°♌	
retrograde	-2231 Dec 08 j 20:33	15°♌45'02	
	-2230 Jan 19 j 11:37	15°℞♌	
opposition	-2230 Feb 20 j 13:35	13°♌43'28	0°50'50
min. Earth dist.	-2230 Feb 21 j 06:34	13°♌41'38	17.33761 AU
direct	-2230 May 08 j 12:44	11°♌37'28	
	-2230 Aug 10 j 09:49	15°♌	
evening set	-2230 Aug 12 j 14:58	15°♌08'11	
conjunction	-2230 Aug 28 j 18:29	16°♌09'03	0°45'51
minimum elong	-2230 Aug 28 j 18:28	16°♌09'03	0°45'53
max. Earth dist.	-2230 Aug 27 j 23:52	16°♌06'06	19.35263 AU
morning rise	-2230 Sep 13 j 17:59	17°♌09'20	
retrograde	-2230 Dec 13 j 19:01	20°♌30'45	
opposition	-2229 Feb 25 j 16:36	18°♌29'18	0°51'20
min. Earth dist.	-2229 Feb 26 j 08:59	18°♌27'32	17.36941 AU
direct	-2229 May 13 j 16:32	16°♌23'31	
evening set	-2229 Aug 17 j 16:25	19°♌53'37	
conjunction	-2229 Sep 02 j 18:40	20°♌54'14	0°46'09
minimum elong	-2229 Sep 02 j 18:40	20°♌54'14	0°46'11
max. Earth dist.	-2229 Sep 02 j 01:44	20°♌51'33	19.38657 AU
morning rise	-2229 Sep 18 j 17:07	21°♌54'16	
retrograde	-2229 Dec 18 j 19:01	25°♌15'19	
opposition	-2228 Mar 01 j 19:17	23°♌13'57	0°51'28
min. Earth dist.	-2228 Mar 02 j 09:14	23°♌12'28	17.40524 AU
direct	-2228 May 17 j 22:29	21°♌08'25	
evening set	-2228 Aug 21 j 17:07	24°♌37'46	
conjunction	-2228 Sep 06 j 18:12	25°♌38'07	0°46'08
minimum elong	-2228 Sep 06 j 18:12	25°♌38'07	0°46'09

Attention, astronomical year style is used: The year -2228 in astronomical counting style is the year 2229 BCE in historical counting style.

max. Earth dist.	-2228 Sep 06 j 03:17	25°♌35'46	19.42442 AU	
morning rise	-2228 Sep 22 j 15:30	26°♌37'54		
retrograde	-2228 Dec 22 j 16:03	29°♌58'31		
opposition	-2227 Mar 06 j 21:42	27°♌57'15	0°51'16	
min. Earth dist.	-2227 Mar 07 j 11:04	27°♌55'50	17.44512 AU	
direct	-2227 May 23 j 01:23	25°♌51'56		
evening set	-2227 Aug 26 j 16:56	29°♌20'28		
	-2227 Sep 06 j 06:39	0°♍		
conjunction	-2227 Sep 11 j 16:47	0°♍20'31	0°45'47	
minimum elong	-2227 Sep 11 j 16:47	0°♍20'31	0°45'48	
max. Earth dist.	-2227 Sep 11 j 03:21	0°♍18'24	19.46643 AU	
morning rise	-2227 Sep 27 j 13:10	1°♍20'03		
retrograde	-2227 Dec 27 j 15:06	4°♍40'12		
opposition	-2226 Mar 11 j 23:52	2°♍38'59	0°50'42	
min. Earth dist.	-2226 Mar 12 j 10:21	2°♍37'53	17.48905 AU	
direct	-2226 May 28 j 06:26	0°♍33'56		
evening set	-2226 Aug 31 j 15:32	4°♍01'31		
conjunction	-2226 Sep 16 j 14:20	5°♍01'16	0°45'09	
minimum elong	-2226 Sep 16 j 14:20	5°♍01'16	0°45'11	
max. Earth dist.	-2226 Sep 16 j 03:47	4°♍59'37	19.51246 AU	
morning rise	-2226 Oct 02 j 09:39	6°♍00'32		
retrograde	-2225 Jan 01 j 10:55	9°♍20'11		
opposition	-2225 Mar 17 j 01:49	7°♍19'03	0°49'49	
min. Earth dist.	-2225 Mar 17 j 11:17	7°♍18'03	17.53722 AU	
direct	-2225 Jun 02 j 08:20	5°♍14'16		
evening set	-2225 Sep 05 j 13:17	8°♍40'49		
conjunction	-2225 Sep 21 j 10:52	9°♍40'16	0°44'13	
minimum elong	-2225 Sep 21 j 10:52	9°♍40'16	0°44'13	
max. Earth dist.	-2225 Sep 21 j 01:54	9°♍38'52	19.56289 AU	
morning rise	-2225 Oct 07 j 05:28	10°♍39'15		
retrograde	-2224 Jan 06 j 08:43	13°♍58'22		
opposition	-2224 Mar 21 j 02:59	11°♍57'19	0°48'36	
min. Earth dist.	-2224 Mar 21 j 09:16	11°♍56'39	17.58981 AU	
direct	-2224 Jun 06 j 11:01	9°♍52'50		
evening set	-2224 Sep 09 j 09:53	13°♍18'18		
conjunction	-2224 Sep 25 j 06:36	14°♍17'27	0°43'00	
minimum elong	-2224 Sep 25 j 06:36	14°♍17'27	0°43'01	
max. Earth dist.	-2224 Sep 25 j 00:57	14°♍16'34	19.61766 AU	
morning rise	-2224 Oct 11 j 00:14	15°♍16'09		
retrograde	-2223 Jan 10 j 03:54	18°♍34'43		
opposition	-2223 Mar 26 j 03:56	16°♍33'47	0°47'05	
min. Earth dist.	-2223 Mar 26 j 08:51	16°♍33'16	17.64672 AU	
direct	-2223 Jun 11 j 11:27	14°♍29'40		
evening set	-2223 Sep 14 j 05:36	17°♍53'59		
conjunction	-2223 Sep 30 j 01:10	18°♍52'48	0°41'31	
minimum elong	-2223 Sep 30 j 01:10	18°♍52'48	0°41'31	
max. Earth dist.	-2223 Sep 29 j 21:00	18°♍52'09	19.67677 AU	
morning rise	-2223 Oct 15 j 18:13	19°♍51'15		
retrograde	-2222 Jan 15 j 00:34	23°♍09'15		
opposition	-2222 Mar 31 j 04:13	21°♍08'27	0°45'17	
min. Earth dist.	-2222 Mar 31 j 05:53	21°♍08'17	17.70782 AU	
direct	-2222 Jun 16 j 11:33	19°♍04'44		
evening set	-2222 Sep 19 j 00:12	22°♍27'53		
conjunction	-2222 Oct 04 j 19:02	23°♍26'23	0°39'47	
minimum elong	-2222 Oct 04 j 19:03	23°♍26'23	0°39'47	
max. Earth dist.	-2222 Oct 04 j 18:23	23°♍26'17	19.73982 AU	
morning rise	-2222 Oct 20 j 11:17	24°♍24'32		
retrograde	-2221 Jan 19 j 19:21	27°♍41'59		
opposition	-2221 Apr 05 j 04:06	25°♍41'21	0°43'12	
min. Earth dist.	-2221 Apr 05 j 04:11	25°♍41'21	17.77256 AU	
direct	-2221 Jun 21 j 10:54	23°♍38'06		
evening set	-2221 Sep 23 j 17:51	27°♍00'00		
conjunction	-2221 Oct 09 j 11:44	27°♍58'11	0°37'49	
minimum elong	-2221 Oct 09 j 11:44	27°♍58'11	0°37'50	
max. Earth dist.	-2221 Oct 09 j 12:22	27°♍58'17	19.80621 AU	
morning rise	-2221 Oct 25 j 03:37	28°♍56'05		
	-2221 Nov 12 j 12:24	0°♎		
retrograde	-2220 Jan 24 j 15:04	2°♎12'57		
opposition	-2220 Apr 09 j 03:14	0°♎12'29	0°40'52	
min. Earth dist.	-2220 Apr 09 j 00:28	0°♎12'47	17.84028 AU	
	-2220 Apr 14 j 03:41	30°℞♍		
direct	-2220 Jun 25 j 08:54	28°♍09'41		
	-2220 Aug 31 j 15:15	0°♎		
evening set	-2220 Sep 27 j 10:32	1°♎30'20		
conjunction	-2220 Oct 13 j 03:48	2°♎28'13	0°35'38	
minimum elong	-2220 Oct 13 j 03:48	2°♎28'13	0°35'37	
max. Earth dist.	-2220 Oct 13 j 07:46	2°♎28'50	19.87505 AU	
morning rise	-2220 Oct 28 j 19:01	3°♎25'50		
retrograde	-2219 Jan 28 j 08:46	6°♎42'07		
opposition	-2219 Apr 14 j 01:47	4°♎41'50	0°38'18	
min. Earth dist.	-2219 Apr 13 j 21:27	4°♎42'17	17.90998 AU	
direct	-2219 Jun 30 j 07:43	2°♎39'32		
evening set	-2219 Oct 02 j 02:28	5°♎58'53		
conjunction	-2219 Oct 17 j 18:52	6°♎56'27	0°33'14	
minimum elong	-2219 Oct 17 j 18:52	6°♎56'27	0°33'14	
max. Earth dist.	-2219 Oct 17 j 23:52	6°♎57'13	19.94557 AU	
morning rise	-2219 Nov 02 j 09:50	7°♎53'47		
retrograde	-2218 Feb 02 j 03:00	11°♎09'30		
opposition	-2218 Apr 18 j 23:49	9°♎09'22	0°35'31	
min. Earth dist.	-2218 Apr 18 j 17:07	9°♎10'04	17.98110 AU	
direct	-2218 Jul 05 j 04:33	7°♎07'31		
evening set	-2218 Oct 06 j 17:12	10°♎25'33		
conjunction	-2218 Oct 22 j 09:10	11°♎22'49	0°30'40	
minimum elong	-2218 Oct 22 j 09:10	11°♎22'49	0°30'38	
max. Earth dist.	-2218 Oct 22 j 17:15	11°♎24'03	20.01700 AU	
morning rise	-2218 Nov 06 j 23:38	12°♎19'53		
retrograde	-2217 Feb 06 j 19:23	15°♎34'59		
opposition	-2217 Apr 23 j 21:12	13°♎35'02	0°32'33	
min. Earth dist.	-2217 Apr 23 j 12:50	13°♎35'53	18.05263 AU	
direct	-2217 Jul 10 j 02:24	11°♎33'38		
evening set	-2217 Oct 11 j 07:20	14°♎50'19		
conjunction	-2217 Oct 26 j 22:36	15°♎47'17	0°27'55	
minimum elong	-2217 Oct 26 j 22:36	15°♎47'17	0°27'54	
max. Earth dist.	-2217 Oct 27 j 07:28	15°♎48'38	20.08852 AU	
morning rise	-2217 Nov 11 j 13:00	16°♎44'06		
retrograde	-2216 Feb 11 j 11:51	19°♎58'36		
opposition	-2216 Apr 27 j 17:39	17°♎58'44	0°29'24	
min. Earth dist.	-2216 Apr 27 j 07:33	17°♎59'46	18.12404 AU	
direct	-2216 Jul 13 j 21:29	15°♎57'45		
evening set	-2216 Oct 14 j 20:24	19°♎13'07		
conjunction	-2216 Oct 30 j 11:23	20°♎09'47	0°25'01	
minimum elong	-2216 Oct 30 j 11:23	20°♎09'47	0°25'01	
max. Earth dist.	-2216 Oct 30 j 22:52	20°♎11'32	20.15951 AU	
morning rise	-2216 Nov 15 j 01:27	21°♎06'21		
retrograde	-2215 Feb 15 j 02:20	24°♎20'12		
opposition	-2215 May 02 j 13:30	22°♎20'28	0°26'06	
min. Earth dist.	-2215 May 02 j 01:39	22°♎21'40	18.19446 AU	
direct	-2215 Jul 18 j 17:39	20°♎19'53		
evening set	-2215 Oct 19 j 08:38	23°♎33'53		
conjunction	-2215 Nov 03 j 23:04	24°♎30'15	0°22'01	
minimum elong	-2215 Nov 03 j 23:04	24°♎30'15	0°21'59	

Attention, astronomical year style is used: The year -2215 in astronomical counting style is the year 2216 BCE in historical counting style.

max. Earth dist.	-2215 Nov 04 j 11:15	24°♎32'06	20.22937 AU
morning rise	-2215 Nov 19 j 13:11	25°♎26'35	
retrograde	-2214 Feb 19 j 17:09	28°♎39'50	
opposition	-2214 May 07 j 08:40	26°♎40'08	0°22'41
min. Earth dist.	-2214 May 06 j 19:23	26°♎41'29	18.26377 AU
direct	-2214 Jul 23 j 10:49	24°♎39'54	
evening set	-2214 Oct 23 j 19:50	27°♎52'33	
conjunction	-2214 Nov 08 j 10:09	28°♎48'40	0°18'54
minimum elong	-2214 Nov 08 j 10:09	28°♎48'40	0°18'53
max. Earth dist.	-2214 Nov 09 j 00:51	28°♎50'52	20.29798 AU
morning rise	-2214 Nov 24 j 00:08	29°♎44'45	
	-2214 Nov 28 j 08:30	0°♏	
retrograde	-2213 Feb 24 j 06:10	2°♏57'21	
min. Earth dist.	-2213 May 11 j 11:34	0°♏59'15	18.33163 AU
opposition	-2213 May 12 j 02:47	0°♏57'42	0°19'10
	-2213 Jun 05 j 19:51	30°℞♎	
direct	-2213 Jul 28 j 04:48	28°♎57'48	
	-2213 Sep 16 j 00:28	0°♏	
evening set	-2213 Oct 28 j 06:12	2°♏09'07	
conjunction	-2213 Nov 12 j 20:10	3°♏04'57	0°15'42
minimum elong	-2213 Nov 12 j 20:10	3°♏04'57	0°15'40
behind sun begin	-2213 Nov 12 j 18:19	3°♏04'41	
behind sun end	-2213 Nov 12 j 22:02	3°♏05'13	
max. Earth dist.	-2213 Nov 13 j 11:40	3°♏07'16	20.36518 AU
morning rise	-2213 Nov 28 j 10:24	4°♏00'49	
retrograde	-2212 Feb 28 j 19:04	7°♏12'48	
opposition	-2212 May 15 j 20:09	5°♏13'10	0°15'34
min. Earth dist.	-2212 May 15 j 03:52	5°♏14'49	18.39828 AU
direct	-2212 Jul 31 j 19:37	3°♏13'35	
evening set	-2212 Oct 31 j 15:35	6°♏23'34	
conjunction	-2212 Nov 16 j 05:32	7°♏19'10	0°12'27
minimum elong	-2212 Nov 16 j 05:32	7°♏19'10	0°12'25
behind sun begin	-2212 Nov 16 j 01:10	7°♏18'32	
behind sun end	-2212 Nov 16 j 09:54	7°♏19'48	
max. Earth dist.	-2212 Nov 16 j 23:30	7°♏21'51	20.43119 AU
morning rise	-2212 Dec 01 j 19:45	8°♏14'49	
retrograde	-2211 Mar 04 j 07:11	11°♏26'11	
opposition	-2211 May 20 j 12:32	9°♏26'35	0°11'56
min. Earth dist.	-2211 May 19 j 18:03	9°♏28'28	18.46371 AU
direct	-2211 Aug 05 j 11:45	7°♏27'19	
evening set	-2211 Nov 05 j 00:20	10°♏36'03	
conjunction	-2211 Nov 20 j 14:03	11°♏31'24	0°09'10
minimum elong	-2211 Nov 20 j 14:03	11°♏31'24	0°09'07
behind sun begin	-2211 Nov 20 j 08:28	11°♏30'35	
behind sun end	-2211 Nov 20 j 19:38	11°♏32'12	
max. Earth dist.	-2211 Nov 21 j 09:00	11°♏34'13	20.49612 AU
morning rise	-2211 Dec 06 j 04:35	12°♏26'52	
	-2210 Jan 29 j 00:25	15°♏	
retrograde	-2210 Mar 08 j 18:37	15°♏37'40	
	-2210 Apr 17 j 21:36	15°℞♏	
min. Earth dist.	-2210 May 24 j 08:51	13°♏40'04	18.52833 AU
opposition	-2210 May 25 j 04:18	13°♏38'06	0°08'16
direct	-2210 Aug 10 j 00:09	11°♏39'09	
evening set	-2210 Nov 09 j 08:08	14°♏46'40	
	-2210 Nov 13 j 03:39	15°♏	
conjunction	-2210 Nov 24 j 21:59	15°♏41'48	0°05'52
minimum elong	-2210 Nov 24 j 21:59	15°♏41'48	0°05'50
behind sun begin	-2210 Nov 24 j 15:44	15°♏40'54	
behind sun end	-2210 Nov 25 j 04:15	15°♏42'42	
max. Earth dist.	-2210 Nov 25 j 19:17	15°♏44'57	20.56020 AU
morning rise	-2210 Dec 10 j 12:42	16°♏37'05	
retrograde	-2209 Mar 13 j 06:20	19°♏47'21	
opposition	-2209 May 29 j 19:08	17°♏47'51	0°04'34
min. Earth dist.	-2209 May 28 j 21:26	17°♏50'02	18.59180 AU
direct	-2209 Aug 14 j 14:23	15°♏49'14	
evening set	-2209 Nov 13 j 15:32	18°♏55'37	
conjunction	-2209 Nov 29 j 05:20	19°♏50'33	0°02'33
minimum elong	-2209 Nov 29 j 05:20	19°♏50'33	0°02'30
behind sun begin	-2209 Nov 28 j 22:48	19°♏49'37	
behind sun end	-2209 Nov 29 j 11:51	19°♏51'29	
max. Earth dist.	-2209 Nov 30 j 03:26	19°♏53'49	20.62298 AU
morning rise	-2209 Dec 14 j 20:30	20°♏45'40	
retrograde	-2208 Mar 16 j 16:35	23°♏55'26	
min. Earth dist.	-2208 Jun 01 j 10:59	21°♏58'16	18.65395 AU
opposition	-2208 Jun 02 j 09:10	21°♏56'02	0°00'53
direct	-2208 Aug 18 j 00:47	19°♏57'46	
desc. node	-2208 Aug 30 j 18:21	20°♏01'55	
evening set	-2208 Nov 16 j 22:10	23°♏03'05	
conjunction	-2208 Dec 02 j 12:14	23°♏57'49	-0°00'52
minimum elong	-2208 Dec 02 j 12:14	23°♏57'49	0°00'55
behind sun begin	-2208 Dec 02 j 05:43	23°♏56'53	
behind sun end	-2208 Dec 02 j 18:45	23°♏58'45	
max. Earth dist.	-2208 Dec 03 j 12:17	24°♏01'22	20.68426 AU
morning rise	-2208 Dec 18 j 03:41	24°♏52'48	
retrograde	-2207 Mar 21 j 03:47	28°♏02'06	
opposition	-2207 Jun 06 j 22:33	26°♏02'49	-0°02'47
min. Earth dist.	-2207 Jun 05 j 22:17	26°♏05'15	18.71418 AU
direct	-2207 Aug 22 j 12:58	24°♏04'55	
evening set	-2207 Nov 21 j 04:19	27°♏09'12	
conjunction	-2207 Dec 06 j 18:27	28°♏03'46	-0°04'12
minimum elong	-2207 Dec 06 j 18:27	28°♏03'47	0°04'14
behind sun begin	-2207 Dec 06 j 12:01	28°♏02'51	
behind sun end	-2207 Dec 07 j 00:54	28°♏04'42	
max. Earth dist.	-2207 Dec 07 j 19:11	28°♏07'24	20.74331 AU
morning rise	-2207 Dec 22 j 10:29	28°♏58'37	
	-2206 Jan 10 j 02:08	0°♐	
retrograde	-2206 Mar 25 j 13:26	2°♐07'32	
min. Earth dist.	-2206 Jun 10 j 11:07	0°♐10'47	18.77206 AU
opposition	-2206 Jun 11 j 11:29	0°♐08'21	-0°06'25
	-2206 Jun 14 j 22:53	30°℞♏	
direct	-2206 Aug 26 j 22:09	28°♏10'47	
	-2206 Nov 02 j 11:04	0°♐	
evening set	-2206 Nov 25 j 10:02	1°♐14'08	
conjunction	-2206 Dec 11 j 00:34	2°♐08'33	-0°07'27
minimum elong	-2206 Dec 11 j 00:34	2°♐08'33	0°07'30
behind sun begin	-2206 Dec 10 j 18:36	2°♐07'42	
behind sun end	-2206 Dec 11 j 06:32	2°♐09'24	
max. Earth dist.	-2206 Dec 12 j 02:47	2°♐12'23	20.79972 AU
morning rise	-2206 Dec 26 j 17:01	3°♐03'16	
retrograde	-2205 Mar 30 j 00:07	6°♐11'47	
opposition	-2205 Jun 15 j 23:26	4°♐12'44	-0°10'00
min. Earth dist.	-2205 Jun 14 j 21:23	4°♐15'20	18.82683 AU
direct	-2205 Aug 31 j 08:24	2°♐15'31	
evening set	-2205 Nov 29 j 15:30	5°♐17'58	
conjunction	-2205 Dec 15 j 06:15	6°♐12'15	-0°10'39
minimum elong	-2205 Dec 15 j 06:15	6°♐12'15	0°10'42
behind sun begin	-2205 Dec 15 j 01:09	6°♐11'32	
behind sun end	-2205 Dec 15 j 11:20	6°♐12'59	
max. Earth dist.	-2205 Dec 16 j 08:39	6°♐16'06	20.85263 AU
morning rise	-2205 Dec 30 j 23:22	7°♐06'53	
retrograde	-2204 Apr 02 j 09:14	10°♐15'03	
min. Earth dist.	-2204 Jun 18 j 09:27	8°♐18'38	18.87790 AU
opposition	-2204 Jun 19 j 11:02	8°♐16'05	-0°13'31
direct	-2204 Sep 03 j 16:29	6°♐19'10	

Attention, astronomical year style is used: The year -2204 in astronomical counting style is the year 2205 BCE in historical counting style.

evening set	-2204 Dec 02 j 20:28	9°♐20'48		
conjunction	-2204 Dec 18 j 11:42	10°♐14'58	-0°13'48	
minimum elong	-2204 Dec 18 j 11:41	10°♐14'58	0°13'51	
behind sun begin	-2204 Dec 18 j 08:10	10°♐14'28		
behind sun end	-2204 Dec 18 j 15:13	10°♐15'28		
max. Earth dist.	-2204 Dec 19 j 15:05	10°♐18'57	20.90154 AU	
morning rise	-2203 Jan 03 j 05:17	11°♐09'30		
retrograde	-2203 Apr 06 j 19:32	14°♐17'22		
opposition	-2203 Jun 23 j 21:56	12°♐18'29	-0°16'58	
min. Earth dist.	-2203 Jun 22 j 19:00	12°♐21'10	18.92452 AU	
direct	-2203 Sep 08 j 01:36	10°♐21'49		
evening set	-2203 Dec 07 j 01:23	13°♐22'40		
conjunction	-2203 Dec 22 j 16:56	14°♐16'44	-0°16'52	
minimum elong	-2203 Dec 22 j 16:56	14°♐16'44	0°16'55	
max. Earth dist.	-2203 Dec 23 j 20:09	14°♐20'41	20.94570 AU	
morning rise	-2202 Jan 07 j 11:17	15°♐11'12		
retrograde	-2202 Apr 11 j 03:49	18°♐18'47		
min. Earth dist.	-2202 Jun 27 j 06:22	16°♐22'31	18.96631 AU	
opposition	-2202 Jun 28 j 08:26	16°♐19'56	-0°20'18	
direct	-2202 Sep 12 j 08:56	14°♐23'29		
evening set	-2202 Dec 11 j 05:52	17°♐23'37		
conjunction	-2202 Dec 26 j 22:04	18°♐17'36	-0°19'50	
minimum elong	-2202 Dec 26 j 22:04	18°♐17'36	0°19'53	
max. Earth dist.	-2202 Dec 28 j 01:49	18°♐21'37	20.98488 AU	
morning rise	-2201 Jan 11 j 17:03	19°♐12'00		
retrograde	-2201 Apr 15 j 14:07	22°♐19'18		
opposition	-2201 Jul 02 j 18:11	20°♐20'27	-0°23'32	
min. Earth dist.	-2201 Jul 01 j 15:06	20°♐23'09	19.00278 AU	
direct	-2201 Sep 16 j 17:15	18°♐24'10		
evening set	-2201 Dec 15 j 10:16	21°♐23'38		
conjunction	-2201 Dec 31 j 02:54	22°♐17'33	-0°22'42	
minimum elong	-2201 Dec 31 j 02:54	22°♐17'33	0°22'46	
max. Earth dist.	-2200 Jan 01 j 06:15	22°♐21'30	21.01862 AU	
morning rise	-2200 Jan 15 j 22:44	23°♐11'55		
retrograde	-2200 Apr 18 j 20:55	26°♐18'56		
min. Earth dist.	-2200 Jul 05 j 01:30	24°♐22'39	19.03398 AU	
opposition	-2200 Jul 06 j 03:25	24°♐20'04	-0°26'38	
direct	-2200 Sep 19 j 23:39	22°♐23'53		
evening set	-2200 Dec 18 j 14:15	25°♐22'44		
conjunction	-2199 Jan 03 j 07:38	26°♐16'36	-0°25'27	
minimum elong	-2199 Jan 03 j 07:37	26°♐16'36	0°25'30	
max. Earth dist.	-2199 Jan 04 j 11:26	26°♐20'36	21.04737 AU	
morning rise	-2199 Jan 19 j 04:09	27°♐10'56		
	-2199 Mar 27 j 02:32	0°♑		
retrograde	-2199 Apr 23 j 06:46	0°♑17'43		
	-2199 May 20 j 18:42	30°℞♐		
min. Earth dist.	-2199 Jul 09 j 09:11	28°♐21'28	19.06028 AU	
opposition	-2199 Jul 10 j 12:04	28°♐18'47	-0°29'36	
direct	-2199 Sep 24 j 07:22	26°♐22'41		
evening set	-2199 Dec 22 j 18:04	29°♐20'59		
	-2198 Jan 03 j 04:45	0°♑		
conjunction	-2198 Jan 07 j 12:00	0°♑14'49	-0°28'03	
minimum elong	-2198 Jan 07 j 12:00	0°♑14'49	0°28'07	
max. Earth dist.	-2198 Jan 08 j 15:32	0°♑18'46	21.07132 AU	
morning rise	-2198 Jan 23 j 09:27	1°♑09'09		
retrograde	-2198 Apr 27 j 12:54	4°♑15'44		
opposition	-2198 Jul 14 j 20:22	2°♑16'43	-0°32'24	
min. Earth dist.	-2198 Jul 13 j 18:38	2°♑19'17	19.08213 AU	
direct	-2198 Sep 28 j 12:16	0°♑20'39		
evening set	-2198 Dec 26 j 21:47	3°♑18'29		

conjunction	-2197 Jan 11 j 16:33	4°♑12'19	-0°30'32	
minimum elong	-2197 Jan 11 j 16:33	4°♑12'19	0°30'34	
max. Earth dist.	-2197 Jan 12 j 20:28	4°♑16'19	21.09109 AU	
morning rise	-2197 Jan 27 j 14:46	5°♑06'38		
retrograde	-2197 May 01 j 21:42	8°♑13'04		
min. Earth dist.	-2197 Jul 18 j 01:15	6°♑16'38	19.09987 AU	
opposition	-2197 Jul 19 j 03:49	6°♑13'58	-0°35'02	
direct	-2197 Oct 02 j 19:30	4°♑17'57		
evening set	-2197 Dec 31 j 01:34	7°♑15'24		
conjunction	-2196 Jan 15 j 20:57	8°♑09'14	-0°32'50	
minimum elong	-2196 Jan 15 j 20:57	8°♑09'14	0°32'54	
max. Earth dist.	-2196 Jan 17 j 00:24	8°♑13'10	21.10677 AU	
morning rise	-2196 Jan 31 j 20:08	9°♑03'35		
retrograde	-2196 May 05 j 04:04	12°♑09'54		
min. Earth dist.	-2196 Jul 21 j 09:51	10°♑13'17	19.11370 AU	
opposition	-2196 Jul 22 j 11:11	10°♑10'45	-0°37'30	
direct	-2196 Oct 05 j 23:06	8°♑14'46		
evening set	-2195 Jan 03 j 05:05	11°♑11'55		
conjunction	-2195 Jan 19 j 01:22	12°♑05'46	-0°35'00	
minimum elong	-2195 Jan 19 j 01:22	12°♑05'46	0°35'03	
max. Earth dist.	-2195 Jan 20 j 05:02	12°♑09'43	21.11873 AU	
morning rise	-2195 Feb 04 j 01:21	13°♑00'09		
retrograde	-2195 May 09 j 12:20	16°♑06'25		
opposition	-2195 Jul 26 j 18:05	14°♑07'14	-0°39'48	
min. Earth dist.	-2195 Jul 25 j 15:59	14°♑09'50	19.12371 AU	
direct	-2195 Oct 10 j 05:34	12°♑11'16		
evening set	-2194 Jan 07 j 08:59	15°♑08'13		
conjunction	-2194 Jan 23 j 06:00	16°♑02'07	-0°37'00	
minimum elong	-2194 Jan 23 j 06:00	16°♑02'07	0°37'02	
max. Earth dist.	-2194 Jan 24 j 09:01	16°♑05'58	21.12674 AU	
morning rise	-2194 Feb 08 j 07:01	16°♑56'33		
retrograde	-2194 May 13 j 19:12	20°♑02'49		
min. Earth dist.	-2194 Jul 30 j 00:12	18°♑06'03	19.12981 AU	
opposition	-2194 Jul 31 j 00:48	18°♑03'35	-0°41'54	
direct	-2194 Oct 14 j 08:46	16°♑07'39		
evening set	-2193 Jan 11 j 12:55	19°♑04'28		
conjunction	-2193 Jan 27 j 10:57	19°♑58'26	-0°38'49	
minimum elong	-2193 Jan 27 j 10:57	19°♑58'26	0°38'52	
max. Earth dist.	-2193 Jan 28 j 13:48	20°♑02'15	21.13088 AU	
morning rise	-2193 Feb 12 j 12:52	20°♑52'57		
retrograde	-2193 May 18 j 03:40	23°♑59'15		
min. Earth dist.	-2193 Aug 03 j 06:12	22°♑02'31	19.13176 AU	
opposition	-2193 Aug 04 j 07:12	22°♑00'01	-0°43'49	
direct	-2193 Oct 18 j 14:06	20°♑04'05		
evening set	-2192 Jan 15 j 17:15	23°♑00'52		
conjunction	-2192 Jan 31 j 16:03	23°♑54'55	-0°40'27	
minimum elong	-2192 Jan 31 j 16:03	23°♑54'55	0°40'30	
max. Earth dist.	-2192 Feb 01 j 17:53	23°♑58'35	21.13055 AU	
morning rise	-2192 Feb 16 j 18:59	24°♑49'31		
retrograde	-2192 May 21 j 10:42	27°♑55'55		
opposition	-2192 Aug 07 j 13:34	25°♑56'40	-0°45'32	
min. Earth dist.	-2192 Aug 06 j 14:25	25°♑58'59	19.12919 AU	
direct	-2192 Oct 21 j 17:26	24°♑00'45		
evening set	-2191 Jan 18 j 21:50	26°♑57'35		
conjunction	-2191 Feb 03 j 21:39	27°♑51'43	-0°41'55	
minimum elong	-2191 Feb 03 j 21:39	27°♑51'43	0°41'58	
max. Earth dist.	-2191 Feb 04 j 22:58	27°♑55'19	21.12573 AU	
morning rise	-2191 Feb 20 j 01:29	28°♑46'26		
	-2191 Mar 15 j 12:17	0°♒		
retrograde	-2191 May 25 j 19:46	1°♒52'59		
	-2191 Aug 09 j 05:05	30°℞♑		

Attention, astronomical year style is used: The year -2191 in astronomical counting style is the year 2192 BCE in historical counting style.

opposition	-2191 Aug 11 j 19:44	29°♉53'42	-0°47'02
min. Earth dist.	-2191 Aug 10 j 20:36	29°♉56'02	19.12183 AU
direct	-2191 Oct 25 j 22:14	27°♉57'45	
	-2190 Jan 05 j 23:44	0°♒	
evening set	-2190 Jan 23 j 02:53	0°♒54'43	
conjunction	-2190 Feb 08 j 03:35	1°♒48'59	-0°43'10
minimum elong	-2190 Feb 08 j 03:35	1°♒48'59	0°43'12
max. Earth dist.	-2190 Feb 09 j 03:29	1°♒52'22	21.11571 AU
morning rise	-2190 Feb 24 j 08:30	2°♒43'49	
retrograde	-2190 May 30 j 03:09	5°♒50'32	
min. Earth dist.	-2190 Aug 15 j 05:10	3°♒53'20	19.10910 AU
opposition	-2190 Aug 16 j 02:01	3°♒51'14	-0°48'18
direct	-2190 Oct 30 j 01:50	1°♒55'14	
evening set	-2189 Jan 27 j 08:26	4°♒52'23	
conjunction	-2189 Feb 12 j 10:13	5°♒46'47	-0°44'14
minimum elong	-2189 Feb 12 j 10:13	5°♒46'47	0°44'16
max. Earth dist.	-2189 Feb 13 j 08:58	5°♒50'01	21.10022 AU
morning rise	-2189 Feb 28 j 16:02	6°♒41'45	
retrograde	-2189 Jun 03 j 12:51	9°♒48'41	
min. Earth dist.	-2189 Aug 19 j 11:37	7°♒51'22	19.09063 AU
opposition	-2189 Aug 20 j 08:00	7°♒49'18	-0°49'21
direct	-2189 Nov 03 j 07:03	5°♒53'11	
evening set	-2188 Jan 31 j 14:28	8°♒50'37	
conjunction	-2188 Feb 16 j 17:10	9°♒45'10	-0°45'04
minimum elong	-2188 Feb 16 j 17:10	9°♒45'10	0°45'06
max. Earth dist.	-2188 Feb 17 j 14:05	9°♒48'08	21.07874 AU
morning rise	-2188 Mar 04 j 00:02	10°♒40'18	
retrograde	-2188 Jun 06 j 20:07	13°♒47'27	
opposition	-2188 Aug 23 j 14:17	11°♒47'58	-0°50'10
min. Earth dist.	-2188 Aug 22 j 20:21	11°♒49'47	19.06621 AU
direct	-2188 Nov 06 j 10:42	9°♒51'42	
evening set	-2187 Feb 03 j 20:40	12°♒49'26	
conjunction	-2187 Feb 20 j 00:30	13°♒44'09	-0°45'42
minimum elong	-2187 Feb 20 j 00:30	13°♒44'09	0°45'43
max. Earth dist.	-2187 Feb 20 j 20:06	13°♒46'56	21.05157 AU
morning rise	-2187 Mar 08 j 08:20	14°♒39'27	
	-2187 Mar 14 j 14:28	15°♒	
retrograde	-2187 Jun 11 j 06:19	17°♒46'51	
opposition	-2187 Aug 27 j 20:26	15°♒47'14	-0°50'44
min. Earth dist.	-2187 Aug 27 j 03:06	15°♒49'00	19.03615 AU
	-2187 Sep 16 j 18:57	15°℞♒	
direct	-2187 Nov 10 j 16:47	13°♒50'46	
	-2186 Jan 02 j 12:18	15°♒	
evening set	-2186 Feb 08 j 03:36	16°♒48'52	
conjunction	-2186 Feb 24 j 08:24	17°♒43'47	-0°46'06
minimum elong	-2186 Feb 24 j 08:24	17°♒43'47	0°46'08
max. Earth dist.	-2186 Feb 25 j 02:08	17°♒46'18	21.01882 AU
morning rise	-2186 Mar 12 j 17:18	18°♒39'15	
retrograde	-2186 Jun 15 j 13:25	21°♒46'56	
min. Earth dist.	-2186 Aug 31 j 11:48	19°♒48'40	19.00087 AU
opposition	-2186 Sep 01 j 02:35	19°♒47'09	-0°51'04
direct	-2186 Nov 14 j 20:38	17°♒50'26	
evening set	-2185 Feb 12 j 10:56	20°♒49'00	
conjunction	-2185 Feb 28 j 16:53	21°♒44'06	-0°46'16
minimum elong	-2185 Feb 28 j 16:53	21°♒44'06	0°46'18
max. Earth dist.	-2185 Mar 01 j 09:09	21°♒46'25	20.98132 AU
morning rise	-2185 Mar 17 j 02:45	22°♒39'46	
retrograde	-2185 Jun 19 j 23:59	25°♒47'45	
opposition	-2185 Sep 05 j 08:45	23°♒47'48	-0°51'08
min. Earth dist.	-2185 Sep 04 j 18:35	23°♒49'15	18.96108 AU
direct	-2185 Nov 19 j 03:04	21°♒50'48	
evening set	-2184 Feb 16 j 18:48	24°♒49'53	
conjunction	-2184 Mar 04 j 01:42	25°♒45'13	-0°46'13
minimum elong	-2184 Mar 04 j 01:42	25°♒45'13	0°46'15
max. Earth dist.	-2184 Mar 04 j 16:14	25°♒47'17	20.93941 AU
morning rise	-2184 Mar 20 j 12:31	26°♒41'05	
retrograde	-2184 Jun 23 j 07:44	29°♒49'25	
opposition	-2184 Sep 08 j 15:10	27°♒49'17	-0°50'58
min. Earth dist.	-2184 Sep 08 j 03:20	27°♒50'30	18.91730 AU
direct	-2184 Nov 22 j 07:30	25°♒52'00	
evening set	-2183 Feb 20 j 03:15	28°♒51'42	
conjunction	-2183 Mar 08 j 11:16	29°♒47'15	-0°45'56
minimum elong	-2183 Mar 08 j 11:16	29°♒47'15	0°45'57
max. Earth dist.	-2183 Mar 09 j 00:18	29°♒49'07	20.89403 AU
	-2183 Mar 12 j 04:30	0°♓	
morning rise	-2183 Mar 24 j 23:01	0°♓43'20	
retrograde	-2183 Jun 27 j 18:47	3°♓52'04	
opposition	-2183 Sep 12 j 21:35	1°♓51'46	-0°50'32
min. Earth dist.	-2183 Sep 12 j 10:21	1°♓52'55	18.87026 AU
	-2183 Nov 11 j 13:16	30°℞♒	
direct	-2183 Nov 26 j 14:05	29°♒54'11	
	-2183 Dec 11 j 10:01	0°♓	
evening set	-2182 Feb 24 j 12:27	2°♓54'33	
conjunction	-2182 Mar 12 j 21:29	3°♓50'21	-0°45'26
minimum elong	-2182 Mar 12 j 21:29	3°♓50'21	0°45'27
max. Earth dist.	-2182 Mar 13 j 08:47	3°♓51'58	20.84539 AU
morning rise	-2182 Mar 29 j 10:10	4°♓46'40	
retrograde	-2182 Jul 02 j 04:00	7°♓55'49	
opposition	-2182 Sep 17 j 04:26	5°♓55'22	-0°49'52
min. Earth dist.	-2182 Sep 16 j 19:31	5°♓56'17	18.82017 AU
direct	-2182 Nov 30 j 19:00	3°♓57'29	
evening set	-2181 Feb 28 j 22:21	6°♓58'37	
conjunction	-2181 Mar 17 j 08:27	7°♓54'41	-0°44'41
minimum elong	-2181 Mar 17 j 08:27	7°♓54'41	0°44'42
max. Earth dist.	-2181 Mar 17 j 18:00	7°♓56'03	20.79407 AU
morning rise	-2181 Apr 02 j 22:00	8°♓51'14	
retrograde	-2181 Jul 06 j 16:01	12°♓00'50	
opposition	-2181 Sep 21 j 11:21	10°♓00'15	-0°48'56
min. Earth dist.	-2181 Sep 21 j 03:08	10°♓01'06	18.76751 AU
direct	-2181 Dec 05 j 02:15	8°♓02'05	
evening set	-2180 Mar 04 j 09:03	11°♓04'03	
conjunction	-2180 Mar 20 j 20:08	12°♓00'23	-0°43'44
minimum elong	-2180 Mar 20 j 20:08	12°♓00'23	0°43'44
max. Earth dist.	-2180 Mar 21 j 04:00	12°♓01'30	20.74015 AU
morning rise	-2180 Apr 06 j 10:30	12°♓57'11	
retrograde	-2180 Jul 10 j 02:27	16°♓07'17	
opposition	-2180 Sep 24 j 18:54	14°♓06'35	-0°47'45
min. Earth dist.	-2180 Sep 24 j 12:58	14°♓07'12	18.71240 AU
direct	-2180 Dec 08 j 07:41	12°♓08'08	
evening set	-2179 Mar 08 j 20:27	15°♓11'00	
conjunction	-2179 Mar 25 j 08:35	16°♓07'37	-0°42'32
minimum elong	-2179 Mar 25 j 08:35	16°♓07'37	0°42'33
max. Earth dist.	-2179 Mar 25 j 14:28	16°♓08'28	20.68403 AU
morning rise	-2179 Apr 10 j 23:49	17°♓04'41	
retrograde	-2179 Jul 14 j 16:11	20°♓15'20	
opposition	-2179 Sep 29 j 02:44	18°♓14'31	-0°46'19
min. Earth dist.	-2179 Sep 28 j 21:46	18°♓15'02	18.65501 AU
direct	-2179 Dec 12 j 15:59	16°♓15'46	
evening set	-2178 Mar 13 j 09:01	19°♓19'37	
conjunction	-2178 Mar 29 j 22:07	20°♓16'31	-0°41'07
minimum elong	-2178 Mar 29 j 22:07	20°♓16'31	0°41'06

Attention, astronomical year style is used: The year -2178 in astronomical counting style is the year 2179 BCE in historical counting style.

max. Earth dist.	-2178 Mar 30 j 02:12	20°♓17'07	20.62536 AU
morning rise	-2178 Apr 15 j 14:04	21°♓13'52	
retrograde	-2178 Jul 19 j 03:59	24°♓25'03	
opposition	-2178 Oct 03 j 11:03	22°♓24'09	-0°44'37
min. Earth dist.	-2178 Oct 03 j 08:42	22°♓24'24	18.59504 AU
direct	-2178 Dec 16 j 22:42	20°♓25'06	
evening set	-2177 Mar 17 j 22:36	23°♓30'00	
conjunction	-2177 Apr 03 j 12:36	24°♓27'12	-0°39'27
minimum elong	-2177 Apr 03 j 12:36	24°♓27'12	0°39'28
max. Earth dist.	-2177 Apr 03 j 14:08	24°♓27'26	20.56419 AU
morning rise	-2177 Apr 20 j 05:18	25°♓24'49	
retrograde	-2177 Jul 23 j 18:56	28°♓36'36	
opposition	-2177 Oct 07 j 19:56	26°♓35'35	-0°42'41
min. Earth dist.	-2177 Oct 07 j 18:56	26°♓35'41	18.53244 AU
direct	-2177 Dec 21 j 08:14	24°♓36'12	
evening set	-2176 Mar 21 j 12:59	27°♓42'11	
conjunction	-2176 Apr 07 j 03:52	28°♓39'42	-0°37'35
minimum elong	-2176 Apr 07 j 03:52	28°♓39'42	0°37'34
max. Earth dist.	-2176 Apr 07 j 03:31	28°♓39'39	20.50007 AU
morning rise	-2176 Apr 23 j 21:07	29°♓37'35	
	-2176 Apr 30 j 13:06	0°♈	
retrograde	-2176 Jul 27 j 08:18	2°♈49'57	
opposition	-2176 Oct 11 j 05:32	0°♈48'50	-0°40'29
min. Earth dist.	-2176 Oct 11 j 07:08	0°♈48'40	18.46688 AU
	-2176 Oct 31 j 02:40	30°℞♓	
direct	-2176 Dec 24 j 16:59	28°♓49'05	
	-2175 Feb 15 j 21:59	0°♈	
evening set	-2175 Mar 26 j 04:29	1°♈56'11	
conjunction	-2175 Apr 11 j 20:12	2°♈54'01	-0°35'29
minimum elong	-2175 Apr 11 j 20:12	2°♈54'01	0°35'29
max. Earth dist.	-2175 Apr 11 j 16:52	2°♈53'32	20.43320 AU
morning rise	-2175 Apr 28 j 14:08	3°♈52'11	
retrograde	-2175 Jul 31 j 23:48	7°♈05'08	
opposition	-2175 Oct 15 j 15:32	5°♈03'51	-0°38'04
min. Earth dist.	-2175 Oct 15 j 18:43	5°♈03'31	18.39861 AU
direct	-2175 Dec 29 j 03:58	3°♈03'42	
evening set	-2174 Mar 30 j 20:56	6°♈11'58	
conjunction	-2174 Apr 16 j 13:32	7°♈10'07	-0°33'10
minimum elong	-2174 Apr 16 j 13:32	7°♈10'07	0°33'10
max. Earth dist.	-2174 Apr 16 j 08:19	7°♈09'21	20.36357 AU
morning rise	-2174 May 03 j 07:53	8°♈08'34	
retrograde	-2174 Aug 05 j 14:28	11°♈22'06	
opposition	-2174 Oct 20 j 02:17	9°♈20'39	-0°35'24
min. Earth dist.	-2174 Oct 20 j 07:57	9°♈20'02	18.32779 AU
direct	-2173 Jan 02 j 14:52	7°♈20'03	
evening set	-2173 Apr 04 j 14:18	10°♈29'30	
conjunction	-2173 Apr 21 j 07:32	11°♈27'58	-0°30'40
minimum elong	-2173 Apr 21 j 07:32	11°♈27'59	0°30'39
max. Earth dist.	-2173 Apr 20 j 23:12	11°♈26'45	20.29188 AU
morning rise	-2173 May 08 j 02:25	12°♈26'43	
retrograde	-2173 Aug 10 j 06:24	15°♈40'49	
opposition	-2173 Oct 24 j 13:27	13°♈39'11	-0°32'31
min. Earth dist.	-2173 Oct 24 j 20:41	13°♈38'24	18.25531 AU
direct	-2172 Jan 07 j 03:14	11°♈38'08	
evening set	-2172 Apr 08 j 08:29	14°♈48'48	
conjunction	-2172 Apr 25 j 02:29	15°♈47'36	-0°27'58
minimum elong	-2172 Apr 25 j 02:29	15°♈47'36	0°27'58
max. Earth dist.	-2172 Apr 24 j 16:45	15°♈46'10	20.21876 AU
morning rise	-2172 May 11 j 21:35	16°♈46'37	
retrograde	-2172 Aug 13 j 22:23	20°♈01'18	
opposition	-2172 Oct 28 j 01:18	17°♈59'28	-0°29'26
min. Earth dist.	-2172 Oct 28 j 10:38	17°♈58'28	18.18181 AU
direct	-2171 Jan 10 j 15:59	15°♈57'58	
evening set	-2171 Apr 13 j 03:35	19°♈09'53	
conjunction	-2171 Apr 29 j 22:05	20°♈09'00	-0°25'05
minimum elong	-2171 Apr 29 j 22:05	20°♈09'00	0°25'03
max. Earth dist.	-2171 Apr 29 j 09:20	20°♈07'07	20.14519 AU
morning rise	-2171 May 16 j 17:40	21°♈08'18	
retrograde	-2171 Aug 18 j 14:58	24°♈23'35	
opposition	-2171 Nov 01 j 13:46	22°♈21'33	-0°26'10
min. Earth dist.	-2171 Nov 02 j 00:37	22°♈20'23	18.10826 AU
direct	-2170 Jan 15 j 05:47	20°♈19'34	
evening set	-2170 Apr 17 j 23:38	23°♈32'48	
conjunction	-2170 May 04 j 18:47	24°♈32'13	-0°22'03
minimum elong	-2170 May 04 j 18:47	24°♈32'13	0°22'02
max. Earth dist.	-2170 May 04 j 05:01	24°♈30'11	20.07173 AU
morning rise	-2170 May 21 j 14:22	25°♈31'47	
retrograde	-2170 Aug 23 j 08:23	28°♈47'38	
opposition	-2170 Nov 06 j 02:52	26°♈45'28	-0°22'43
min. Earth dist.	-2170 Nov 06 j 15:25	26°♈44'07	18.03519 AU
direct	-2169 Jan 19 j 20:19	24°♈43'03	
evening set	-2169 Apr 22 j 20:41	27°♈57'35	
conjunction	-2169 May 09 j 16:05	28°♈57'19	-0°18'52
minimum elong	-2169 May 09 j 16:05	28°♈57'19	0°18'50
max. Earth dist.	-2169 May 08 j 23:24	28°♈54'50	19.99930 AU
morning rise	-2169 May 26 j 11:55	29°♈57'08	
	-2169 May 27 j 07:37	0°♉	
retrograde	-2169 Aug 28 j 01:49	3°♉13'36	
opposition	-2169 Nov 10 j 16:47	1°♉11'16	-0°19'07
min. Earth dist.	-2169 Nov 11 j 06:45	1°♉09'46	17.96361 AU
	-2169 Dec 10 j 01:27	30°℞♈	
direct	-2168 Jan 24 j 11:52	29°♈08'25	
	-2168 Mar 09 j 06:28	0°♉	
evening set	-2168 Apr 26 j 18:18	2°♉24'17	
conjunction	-2168 May 13 j 14:12	3°♉24'19	-0°15'33
minimum elong	-2168 May 13 j 14:12	3°♉24'19	0°15'31
behind sun begin	-2168 May 13 j 13:06	3°♉24'10	
behind sun end	-2168 May 13 j 15:18	3°♉24'29	
max. Earth dist.	-2168 May 12 j 21:01	3°♉21'45	19.92854 AU
morning rise	-2168 May 30 j 09:50	4°♉24'24	
retrograde	-2168 Aug 31 j 20:30	7°♉41'28	
opposition	-2168 Nov 14 j 07:29	5°♉39'02	-0°15'22
min. Earth dist.	-2168 Nov 14 j 22:37	5°♉37'24	17.89391 AU
direct	-2167 Jan 28 j 04:10	3°♉35'47	
evening set	-2167 May 01 j 17:11	6°♉53'00	
conjunction	-2167 May 18 j 13:09	7°♉53'20	-0°12'08
minimum elong	-2167 May 18 j 13:09	7°♉53'20	0°12'07
behind sun begin	-2167 May 18 j 08:40	7°♉52'41	
behind sun end	-2167 May 18 j 17:38	7°♉54'00	
max. Earth dist.	-2167 May 17 j 17:11	7°♉50'20	19.86007 AU
morning rise	-2167 Jun 04 j 08:52	8°♉53'39	
retrograde	-2167 Sep 05 j 15:07	12°♉11'20	
opposition	-2167 Nov 18 j 22:51	10°♉08'49	-0°11'30
min. Earth dist.	-2167 Nov 19 j 15:31	10°♉07'01	17.82681 AU
direct	-2166 Feb 01 j 21:39	8°♉05'12	
evening set	-2166 May 06 j 16:51	11°♉23'48	
conjunction	-2166 May 23 j 13:08	12°♉24'25	-0°08'37
minimum elong	-2166 May 23 j 13:08	12°♉24'25	0°08'34
behind sun begin	-2166 May 23 j 07:15	12°♉23'33	
behind sun end	-2166 May 23 j 19:01	12°♉25'17	
max. Earth dist.	-2166 May 22 j 16:49	12°♉21'21	19.79426 AU
morning rise	-2166 Jun 09 j 08:29	13°♉24'57	

Attention, astronomical year style is used: The year -2166 in astronomical counting style is the year 2167 BCE in historical counting style.

	-2166 Jul 08 j 06:44	15°♉		
retrograde	-2166 Sep 10 j 11:24	16°♉43'13		
	-2166 Nov 16 j 05:01	15°℞♉		
opposition	-2166 Nov 23 j 15:09	14°♉40'42	-0°07'32	
min. Earth dist.	-2166 Nov 24 j 08:42	14°♉38'47	17.76236 AU	
direct	-2165 Feb 06 j 16:04	12°♉36'45		
	-2165 Apr 25 j 03:55	15°♉		
evening set	-2165 May 11 j 17:29	15°♉56'43		
conjunction	-2165 May 28 j 13:35	16°♉57'35	-0°05'01	
minimum elong	-2165 May 28 j 13:35	16°♉57'35	0°05'00	
behind sun begin	-2165 May 28 j 06:59	16°♉56'36		
behind sun end	-2165 May 28 j 20:11	16°♉58'33		
max. Earth dist.	-2165 May 27 j 14:42	16°♉54'06	19.73123 AU	
morning rise	-2165 Jun 14 j 08:44	17°♉58'20		
retrograde	-2165 Sep 15 j 07:27	21°♉17'13		
opposition	-2165 Nov 28 j 08:20	19°♉14'41	-0°03'29	
min. Earth dist.	-2165 Nov 29 j 03:34	19°♉12'35	17.70084 AU	
direct	-2164 Feb 11 j 11:13	17°♉10'25		
evening set	-2164 May 15 j 18:52	20°♉31'44		
conjunction	-2164 Jun 01 j 15:03	21°♉32'51	-0°01'20	
minimum elong	-2164 Jun 01 j 15:03	21°♉32'51	0°01'17	
behind sun begin	-2164 Jun 01 j 08:16	21°♉31'50		
behind sun end	-2164 Jun 01 j 21:50	21°♉33'51		
max. Earth dist.	-2164 May 31 j 15:50	21°♉29'19	19.67104 AU	
morning rise	-2164 Jun 18 j 09:40	22°♉33'48		
retrograde	-2164 Sep 19 j 05:42	25°♉53'14		
asc. node	-2164 Oct 07 j 17:49	25°♉43'56		
opposition	-2164 Dec 02 j 02:12	23°♉50'43	0°00'37	
min. Earth dist.	-2164 Dec 02 j 22:08	23°♉48'33	17.64199 AU	
direct	-2163 Feb 15 j 07:45	21°♉46'10		
evening set	-2163 May 20 j 21:18	25°♉08'47		
conjunction	-2163 Jun 06 j 17:10	26°♉10'07	0°02'29	
minimum elong	-2163 Jun 06 j 17:10	26°♉10'07	0°02'32	
behind sun begin	-2163 Jun 06 j 10:23	26°♉09'07		
behind sun end	-2163 Jun 06 j 23:57	26°♉11'08		
max. Earth dist.	-2163 Jun 05 j 15:29	26°♉06'12	19.61345 AU	
morning rise	-2163 Jun 23 j 11:22	27°♉11'15		
	-2163 Aug 21 j 06:02	0°♊		
retrograde	-2163 Sep 24 j 03:08	0°♊31'13		
	-2163 Oct 28 j 12:14	30°℞♉		
opposition	-2163 Dec 06 j 21:10	28°♉28'42	0°04'45	
min. Earth dist.	-2163 Dec 07 j 19:02	28°♉26'19	17.58580 AU	
direct	-2162 Feb 20 j 04:12	26°♉23'50		
evening set	-2162 May 26 j 00:24	29°♉47'44		
	-2162 May 29 j 10:00	0°♊		
conjunction	-2162 Jun 11 j 20:02	0°♊49'16	0°06'12	
minimum elong	-2162 Jun 11 j 20:03	0°♊49'16	0°06'15	
behind sun begin	-2162 Jun 11 j 13:39	0°♊48'18		
behind sun end	-2162 Jun 12 j 02:27	0°♊50'14		
max. Earth dist.	-2162 Jun 10 j 17:50	0°♊45'14	19.55848 AU	
morning rise	-2162 Jun 28 j 13:32	1°♊50'33		
retrograde	-2162 Sep 29 j 03:21	5°♊10'59		
opposition	-2162 Dec 11 j 16:50	3°♊08'28	0°08'53	
min. Earth dist.	-2162 Dec 12 j 15:03	3°♊06'03	17.53216 AU	
direct	-2161 Feb 25 j 03:11	1°♊03'18		
evening set	-2161 May 31 j 04:15	4°♊28'22		
conjunction	-2161 Jun 16 j 23:23	5°♊30'05	0°09'53	
minimum elong	-2161 Jun 16 j 23:23	5°♊30'05	0°09'56	
behind sun begin	-2161 Jun 16 j 17:56	5°♊29'16		
behind sun end	-2161 Jun 17 j 04:50	5°♊30'54		
max. Earth dist.	-2161 Jun 15 j 19:19	5°♊25'45	19.50621 AU	
morning rise	-2161 Jul 03 j 16:09	6°♊31'30		
retrograde	-2161 Oct 04 j 01:11	9°♊52'22		
opposition	-2161 Dec 16 j 13:28	7°♊49'50	0°12'59	
min. Earth dist.	-2161 Dec 17 j 13:31	7°♊47'12	17.48156 AU	
direct	-2160 Mar 01 j 00:36	5°♊44'21		
evening set	-2160 Jun 04 j 08:23	9°♊10'31		
max. Earth dist.	-2160 Jun 19 j 22:28	10°♊07'58	19.45723 AU	
conjunction	-2160 Jun 21 j 03:05	10°♊12'24	0°13'32	
minimum elong	-2160 Jun 21 j 03:05	10°♊12'24	0°13'34	
behind sun begin	-2160 Jun 20 j 23:30	10°♊11'51		
behind sun end	-2160 Jun 21 j 06:40	10°♊12'56		
morning rise	-2160 Jul 07 j 19:06	11°♊13'55		
retrograde	-2160 Oct 08 j 02:24	14°♊35'10		
opposition	-2160 Dec 20 j 10:41	12°♊32'35	0°17'01	
min. Earth dist.	-2160 Dec 21 j 10:37	12°♊29'58	17.43428 AU	
direct	-2159 Mar 06 j 01:42	10°♊26'48		
evening set	-2159 Jun 09 j 13:12	13°♊54'00		
max. Earth dist.	-2159 Jun 25 j 01:42	14°♊51'24	19.41178 AU	
conjunction	-2159 Jun 26 j 07:17	14°♊56'00	0°17'06	
minimum elong	-2159 Jun 26 j 07:16	14°♊55'59	0°17'09	
morning rise	-2159 Jul 12 j 22:20	15°♊57'35		
retrograde	-2159 Oct 13 j 00:22	19°♊19'09		
opposition	-2159 Dec 25 j 08:39	17°♊16'33	0°20'57	
min. Earth dist.	-2159 Dec 26 j 10:14	17°♊13'44	17.39099 AU	
direct	-2158 Mar 11 j 00:53	15°♊10'27		
evening set	-2158 Jun 14 j 18:20	18°♊38'37		
max. Earth dist.	-2158 Jun 30 j 05:32	19°♊35'59	19.37073 AU	
conjunction	-2158 Jul 01 j 11:39	19°♊40'41	0°20'34	
minimum elong	-2158 Jul 01 j 11:38	19°♊40'41	0°20'37	
morning rise	-2158 Jul 18 j 01:49	20°♊42'20		
retrograde	-2158 Oct 18 j 01:34	24°♊04'11		
opposition	-2158 Dec 30 j 07:15	22°♊01'31	0°24'46	
min. Earth dist.	-2158 Dec 31 j 08:11	21°♊58'47	17.35231 AU	
direct	-2157 Mar 16 j 03:50	19°♊55'11		
evening set	-2157 Jun 19 j 23:27	23°♊24'09		
max. Earth dist.	-2157 Jul 05 j 10:11	24°♊21'38	19.33451 AU	
conjunction	-2157 Jul 06 j 16:00	24°♊26'18	0°23'54	
minimum elong	-2157 Jul 06 j 16:00	24°♊26'18	0°23'56	
morning rise	-2157 Jul 23 j 05:01	25°♊27'58		
retrograde	-2157 Oct 22 j 23:47	28°♊50'02		
opposition	-2156 Jan 04 j 06:35	26°♊47'21	0°28'24	
min. Earth dist.	-2156 Jan 05 j 08:37	26°♊44'30	17.31891 AU	
direct	-2156 Mar 20 j 04:41	24°♊40'46		
evening set	-2156 Jun 24 j 04:53	28°♊10'29		
conjunction	-2156 Jul 10 j 20:25	29°♊12'39	0°27'04	
minimum elong	-2156 Jul 10 j 20:25	29°♊12'39	0°27'08	
max. Earth dist.	-2156 Jul 09 j 14:13	29°♊07'55	19.30401 AU	
	-2156 Jul 23 j 11:25	0°♋		
morning rise	-2156 Jul 27 j 08:30	0°♋14'19		
retrograde	-2156 Oct 27 j 01:01	3°♋36'34		
opposition	-2155 Jan 08 j 06:12	1°♋33'52	0°31'51	
min. Earth dist.	-2155 Jan 09 j 07:12	1°♋31'08	17.29145 AU	
	-2155 Feb 17 j 12:25	30°℞♊		
direct	-2155 Mar 25 j 09:04	29°♊27'07		
	-2155 Apr 29 j 17:53	0°♋		
evening set	-2155 Jun 29 j 10:19	2°♋57'28		
max. Earth dist.	-2155 Jul 14 j 20:01	3°♋55'05	19.27960 AU	
conjunction	-2155 Jul 16 j 01:01	3°♋59'38	0°30'04	
minimum elong	-2155 Jul 16 j 01:00	3°♋59'38	0°30'07	
morning rise	-2155 Aug 01 j 11:45	5°♋01'16		
retrograde	-2155 Oct 31 j 23:56	8°♋23'40		
opposition	-2154 Jan 13 j 06:43	6°♋21'00	0°35'06	

Attention, astronomical year style is used: The year -2154 in astronomical counting style is the year 2155 BCE in historical counting style.

min. Earth dist.	-2154 Jan 14 j 08:11	6°♋18'12	17.27035 AU
direct	-2154 Mar 30 j 11:20	4°♋14'07	
evening set	-2154 Jul 04 j 15:47	7°♋45'00	
max. Earth dist.	-2154 Jul 20 j 00:02	8°♋42'32	19.26191 AU
conjunction	-2154 Jul 21 j 05:14	8°♋47'08	0°32'52
minimum elong	-2154 Jul 21 j 05:14	8°♋47'08	0°32'55
morning rise	-2154 Aug 06 j 14:55	9°♋48'43	
retrograde	-2154 Nov 06 j 01:15	13°♋11'13	
opposition	-2153 Jan 18 j 07:35	11°♋08'37	0°38'06
min. Earth dist.	-2153 Jan 19 j 07:39	11°♋05'59	17.25615 AU
direct	-2153 Apr 04 j 16:11	9°♋01'41	
evening set	-2153 Jul 09 j 21:03	12°♋33'00	
max. Earth dist.	-2153 Jul 25 j 06:21	13°♋30'48	19.25115 AU
conjunction	-2153 Jul 26 j 09:33	13°♋35'05	0°35'26
minimum elong	-2153 Jul 26 j 09:32	13°♋35'05	0°35'29
morning rise	-2153 Aug 11 j 17:49	14°♋36'35	
retrograde	-2153 Nov 11 j 01:15	17°♋59'09	
opposition	-2152 Jan 23 j 09:00	15°♋56'40	0°40'51
min. Earth dist.	-2152 Jan 24 j 08:55	15°♋54'03	17.24885 AU
direct	-2152 Apr 08 j 19:29	13°♋49'45	
evening set	-2152 Jul 14 j 02:16	17°♋21'24	
max. Earth dist.	-2152 Jul 29 j 10:09	18°♋19'05	19.24733 AU
conjunction	-2152 Jul 30 j 13:27	18°♋23'24	0°37'46
minimum elong	-2152 Jul 30 j 13:27	18°♋23'24	0°37'49
morning rise	-2152 Aug 15 j 20:40	19°♋24'48	
retrograde	-2152 Nov 15 j 02:39	22°♋47'23	
opposition	-2151 Jan 27 j 10:45	20°♋45'03	0°43'19
min. Earth dist.	-2151 Jan 28 j 09:25	20°♋42'35	17.24833 AU
direct	-2151 Apr 14 j 00:11	18°♋38'13	
evening set	-2151 Jul 19 j 07:12	22°♋10'05	
conjunction	-2151 Aug 04 j 17:19	23°♋11'58	0°39'51
minimum elong	-2151 Aug 04 j 17:19	23°♋11'58	0°39'54
max. Earth dist.	-2151 Aug 03 j 16:17	23°♋08'00	19.24998 AU
morning rise	-2151 Aug 20 j 23:06	24°♋13'15	
retrograde	-2151 Nov 20 j 03:36	27°♋35'48	
opposition	-2150 Feb 01 j 12:59	25°♋33'38	0°45'29
min. Earth dist.	-2150 Feb 02 j 11:04	25°♋31'14	17.25396 AU
direct	-2150 Apr 19 j 04:15	23°♋26'56	
evening set	-2150 Jul 24 j 12:01	26°♋58'53	
conjunction	-2150 Aug 09 j 20:42	28°♋00'37	0°41'39
minimum elong	-2150 Aug 09 j 20:42	28°♋00'37	0°41'41
max. Earth dist.	-2150 Aug 08 j 19:48	27°♋56'40	19.25862 AU
morning rise	-2150 Aug 26 j 01:20	29°♋01'45	
	-2150 Sep 11 j 07:33	0°♌	
retrograde	-2150 Nov 25 j 04:58	2°♌24'14	
opposition	-2149 Feb 06 j 15:35	0°♌22'14	0°47'19
min. Earth dist.	-2149 Feb 07 j 12:37	0°♌19'58	17.26554 AU
	-2149 Feb 15 j 05:40	30°℞♋	
direct	-2149 Apr 24 j 08:31	28°♋15'40	
	-2149 Jun 28 j 01:59	0°♌	
evening set	-2149 Jul 29 j 16:04	1°♌47'33	
conjunction	-2149 Aug 14 j 23:37	2°♌49'08	0°43'09
minimum elong	-2149 Aug 14 j 23:37	2°♌49'08	0°43'12
max. Earth dist.	-2149 Aug 14 j 01:01	2°♌45'33	19.27288 AU
morning rise	-2149 Aug 31 j 02:53	3°♌50'06	
retrograde	-2149 Nov 30 j 06:24	7°♌12'26	
opposition	-2148 Feb 11 j 18:24	5°♌10'36	0°48'50
min. Earth dist.	-2148 Feb 12 j 14:15	5°♌08'27	17.28229 AU
direct	-2148 Apr 28 j 12:57	3°♌04'13	
evening set	-2148 Aug 02 j 19:56	6°♌35'53	
max. Earth dist.	-2148 Aug 18 j 03:57	7°♌33'45	19.29216 AU

conjunction	-2148 Aug 19 j 02:06	7°♌37'16	0°44'21
minimum elong	-2148 Aug 19 j 02:05	7°♌37'16	0°44'24
morning rise	-2148 Sep 04 j 04:11	8°♌38'02	
retrograde	-2148 Dec 04 j 06:55	12°♌00'10	
opposition	-2147 Feb 15 j 21:15	9°♌58'28	0°50'00
min. Earth dist.	-2147 Feb 16 j 16:21	9°♌56'25	17.30406 AU
direct	-2147 May 03 j 17:11	7°♌52'15	
evening set	-2147 Aug 07 j 23:07	11°♌23'36	
max. Earth dist.	-2147 Aug 23 j 07:57	12°♌21'35	19.31629 AU
conjunction	-2147 Aug 24 j 04:03	12°♌24'46	0°45'15
minimum elong	-2147 Aug 24 j 04:03	12°♌24'46	0°45'16
morning rise	-2147 Sep 09 j 04:52	13°♌25'19	
	-2147 Oct 06 j 14:49	15°♌	
retrograde	-2147 Dec 09 j 07:37	16°♌47'11	
	-2146 Feb 15 j 10:08	15°℞♌	
opposition	-2146 Feb 21 j 00:15	14°♌45'37	0°50'49
min. Earth dist.	-2146 Feb 21 j 17:32	14°♌43'45	17.33034 AU
direct	-2146 May 08 j 22:26	12°♌39'36	
	-2146 Jul 24 j 03:48	15°♌	
evening set	-2146 Aug 13 j 01:31	16°♌10'27	
max. Earth dist.	-2146 Aug 28 j 10:13	17°♌08'23	19.34485 AU
conjunction	-2146 Aug 29 j 05:07	17°♌11'22	0°45'49
minimum elong	-2146 Aug 29 j 05:07	17°♌11'22	0°45'51
morning rise	-2146 Sep 14 j 04:45	18°♌11'42	
retrograde	-2146 Dec 14 j 06:42	21°♌33'15	
opposition	-2145 Feb 26 j 03:17	19°♌31'46	0°51'16
min. Earth dist.	-2145 Feb 26 j 19:48	19°♌30'00	17.36119 AU
direct	-2145 May 14 j 02:41	17°♌25'57	
evening set	-2145 Aug 18 j 03:08	20°♌56'11	
conjunction	-2145 Sep 03 j 05:31	21°♌56'51	0°46'04
minimum elong	-2145 Sep 03 j 05:31	21°♌56'51	0°46'05
max. Earth dist.	-2145 Sep 02 j 12:32	21°♌54'10	19.37799 AU
morning rise	-2145 Sep 19 j 04:04	22°♌56'56	
retrograde	-2145 Dec 19 j 06:06	26°♌18'05	
opposition	-2144 Mar 02 j 05:52	24°♌16'41	0°51'22
min. Earth dist.	-2144 Mar 02 j 20:00	24°♌15'11	17.39640 AU
direct	-2144 May 18 j 08:31	22°♌11'06	
evening set	-2144 Aug 22 j 03:52	25°♌40'35	
conjunction	-2144 Sep 07 j 05:05	26°♌40'58	0°46'00
minimum elong	-2144 Sep 07 j 05:05	26°♌40'58	0°46'02
max. Earth dist.	-2144 Sep 06 j 14:01	26°♌38'36	19.41544 AU
morning rise	-2144 Sep 23 j 02:31	27°♌40'48	
	-2144 Nov 05 j 13:47	0°♍	
retrograde	-2144 Dec 23 j 03:25	1°♍01'31	
	-2143 Feb 10 j 21:30	30°℞♌	
opposition	-2143 Mar 07 j 08:27	29°♌00'11	0°51'06
min. Earth dist.	-2143 Mar 07 j 21:47	28°♌58'46	17.43609 AU
direct	-2143 May 23 j 12:11	26°♌54'48	
	-2143 Aug 20 j 17:21	0°♍	
evening set	-2143 Aug 27 j 03:37	0°♍23'27	
conjunction	-2143 Sep 12 j 03:35	1°♍23'32	0°45'37
minimum elong	-2143 Sep 12 j 03:35	1°♍23'32	0°45'39
max. Earth dist.	-2143 Sep 11 j 14:22	1°♍21'27	19.45747 AU
morning rise	-2143 Sep 28 j 00:04	2°♍23'06	
retrograde	-2143 Dec 28 j 01:44	5°♍43'20	
opposition	-2142 Mar 12 j 10:36	3°♍42'04	0°50'30
min. Earth dist.	-2142 Mar 12 j 20:58	3°♍40'58	17.48031 AU
direct	-2142 May 28 j 17:11	1°♍36'56	
evening set	-2142 Sep 01 j 02:22	5°♍04'37	
conjunction	-2142 Sep 17 j 01:15	6°♍04'25	0°44'57
minimum elong	-2142 Sep 17 j 01:15	6°♍04'25	0°44'58

Attention, astronomical year style is used: The year -2142 in astronomical counting style is the year 2143 BCE in historical counting style.

max. Earth dist.	-2142 Sep 16 j 14:48	6°♑02'46	19.50406 AU
morning rise	-2142 Oct 02 j 20:40	7°♑03'42	
retrograde	-2141 Jan 01 j 21:56	10°♑23'25	
opposition	-2141 Mar 17 j 12:31	8°♑22'14	0°49'34
min. Earth dist.	-2141 Mar 17 j 21:45	8°♑21'15	17.52933 AU
direct	-2141 Jun 02 j 18:55	6°♑17'23	
evening set	-2141 Sep 06 j 00:03	9°♑44'02	
conjunction	-2141 Sep 21 j 21:46	10°♑43'31	0°43'59
minimum elong	-2141 Sep 21 j 21:46	10°♑43'31	0°44'00
max. Earth dist.	-2141 Sep 21 j 13:03	10°♑42'09	19.55552 AU
morning rise	-2141 Oct 07 j 16:27	11°♑42'32	
retrograde	-2140 Jan 06 j 19:41	15°♑01'43	
opposition	-2140 Mar 21 j 13:47	13°♑00'38	0°48'20
min. Earth dist.	-2140 Mar 21 j 19:44	13°♑00'00	17.58303 AU
direct	-2140 Jun 06 j 21:58	10°♑56'07	
evening set	-2140 Sep 09 j 20:48	14°♑21'41	
conjunction	-2140 Sep 25 j 17:35	15°♑20'51	0°42'44
minimum elong	-2140 Sep 25 j 17:35	15°♑20'51	0°42'44
max. Earth dist.	-2140 Sep 25 j 12:01	15°♑19'59	19.61149 AU
morning rise	-2140 Oct 11 j 11:18	16°♑19'36	
retrograde	-2139 Jan 10 j 14:50	19°♑38'14	
opposition	-2139 Mar 26 j 14:42	17°♑37'17	0°46'47
min. Earth dist.	-2139 Mar 26 j 19:23	17°♑36'48	17.64113 AU
direct	-2139 Jun 11 j 21:37	15°♑33'10	
evening set	-2139 Sep 14 j 16:40	18°♑57'36	
conjunction	-2139 Sep 30 j 12:21	19°♑56'27	0°41'14
minimum elong	-2139 Sep 30 j 12:21	19°♑56'27	0°41'14
max. Earth dist.	-2139 Sep 30 j 08:17	19°♑55'49	19.67178 AU
morning rise	-2139 Oct 16 j 05:29	20°♑54'54	
retrograde	-2138 Jan 15 j 12:12	24°♑12'59	
opposition	-2138 Mar 31 j 15:06	22°♑12'12	0°44'57
min. Earth dist.	-2138 Mar 31 j 16:32	22°♑12'03	17.70325 AU
direct	-2138 Jun 16 j 22:47	20°♑08'30	
evening set	-2138 Sep 19 j 11:19	23°♑31'45	
conjunction	-2138 Oct 05 j 06:15	24°♑30'17	0°39'28
minimum elong	-2138 Oct 05 j 06:15	24°♑30'17	0°39'28
max. Earth dist.	-2138 Oct 05 j 05:34	24°♑30'11	19.73561 AU
morning rise	-2138 Oct 20 j 22:35	25°♑28'29	
retrograde	-2137 Jan 20 j 06:42	28°♑46'00	
opposition	-2137 Apr 05 j 15:06	26°♑45'23	0°42'50
min. Earth dist.	-2137 Apr 05 j 15:15	26°♑45'23	17.76853 AU
direct	-2137 Jun 21 j 21:13	24°♑42'09	
evening set	-2137 Sep 24 j 05:17	28°♑04'10	
conjunction	-2137 Oct 09 j 23:14	29°♑02'23	0°37'28
minimum elong	-2137 Oct 09 j 23:14	29°♑02'23	0°37'28
max. Earth dist.	-2137 Oct 09 j 23:44	29°♑02'28	19.80229 AU
morning rise	-2137 Oct 25 j 15:10	0°♒00'18	
	-2137 Oct 25 j 13:12	0°♒	
retrograde	-2136 Jan 25 j 02:39	3°♒17'15	
opposition	-2136 Apr 09 j 14:14	1°♒16'49	0°40'28
min. Earth dist.	-2136 Apr 09 j 11:36	1°♒17'05	17.83631 AU
	-2136 May 12 j 21:31	30°♑℞	
direct	-2136 Jun 25 j 20:49	29°♑14'02	
	-2136 Aug 07 j 08:28	0°♒	
evening set	-2136 Sep 27 j 22:12	2°♒34'48	
conjunction	-2136 Oct 13 j 15:33	3°♒32'43	0°35'15
minimum elong	-2136 Oct 13 j 15:33	3°♒32'43	0°35'16
max. Earth dist.	-2136 Oct 13 j 19:15	3°♒33'17	19.87094 AU
morning rise	-2136 Oct 29 j 06:48	4°♒30'21	
retrograde	-2135 Jan 28 j 20:18	7°♒46'42	
opposition	-2135 Apr 14 j 13:06	5°♒46'27	0°37'53
min. Earth dist.	-2135 Apr 14 j 09:10	5°♒46'52	17.90561 AU
direct	-2135 Jun 30 j 18:28	3°♒44'09	
evening set	-2135 Oct 02 j 14:16	7°♒03'37	
conjunction	-2135 Oct 18 j 06:44	8°♒01'12	0°32'50
minimum elong	-2135 Oct 18 j 06:44	8°♒01'12	0°32'49
max. Earth dist.	-2135 Oct 18 j 11:23	8°♒01'55	19.94082 AU
morning rise	-2135 Nov 02 j 21:44	8°♒58'35	
retrograde	-2134 Feb 02 j 14:39	12°♒14'21	
opposition	-2134 Apr 19 j 11:18	10°♒14'15	0°35'04
min. Earth dist.	-2134 Apr 19 j 04:54	10°♒14'55	17.97590 AU
direct	-2134 Jul 05 j 16:20	8°♒12'23	
evening set	-2134 Oct 07 j 05:19	11°♒30'33	
conjunction	-2134 Oct 22 j 21:20	12°♒27'50	0°30'14
minimum elong	-2134 Oct 22 j 21:20	12°♒27'50	0°30'14
max. Earth dist.	-2134 Oct 23 j 04:59	12°♒29'00	20.01123 AU
morning rise	-2134 Nov 07 j 11:50	13°♒24'56	
retrograde	-2133 Feb 07 j 07:17	16°♒40'07	
opposition	-2133 Apr 24 j 08:44	14°♒40'09	0°32'04
min. Earth dist.	-2133 Apr 24 j 00:56	14°♒40'57	18.04628 AU
direct	-2133 Jul 10 j 13:09	12°♒38'43	
evening set	-2133 Oct 11 j 19:34	15°♒55'33	
conjunction	-2133 Oct 27 j 10:55	16°♒52'32	0°27'28
minimum elong	-2133 Oct 27 j 10:55	16°♒52'32	0°27'27
max. Earth dist.	-2133 Oct 27 j 19:14	16°♒53'48	20.08150 AU
morning rise	-2133 Nov 12 j 01:21	17°♒49'23	
retrograde	-2132 Feb 11 j 23:41	21°♒03'57	
opposition	-2132 Apr 28 j 05:26	19°♒04'05	0°28'53
min. Earth dist.	-2132 Apr 27 j 19:41	19°♒05'05	18.11634 AU
direct	-2132 Jul 14 j 08:59	17°♒03'03	
evening set	-2132 Oct 15 j 08:42	20°♒18'33	
conjunction	-2132 Oct 30 j 23:44	21°♒15'15	0°24'33
minimum elong	-2132 Oct 30 j 23:45	21°♒15'15	0°24'32
max. Earth dist.	-2132 Oct 31 j 10:49	21°♒16'56	20.15112 AU
morning rise	-2132 Nov 15 j 13:50	22°♒11'50	
retrograde	-2131 Feb 15 j 15:09	25°♒25'47	
opposition	-2131 May 03 j 01:21	23°♒26'00	0°25'34
min. Earth dist.	-2131 May 02 j 14:00	23°♒27'10	18.18545 AU
direct	-2131 Jul 19 j 04:51	21°♒25'22	
evening set	-2131 Oct 19 j 21:04	24°♒39'30	
conjunction	-2131 Nov 04 j 11:34	25°♒35'55	0°21'31
minimum elong	-2131 Nov 04 j 11:34	25°♒35'55	0°21'31
max. Earth dist.	-2131 Nov 04 j 23:23	25°♒37'42	20.21986 AU
morning rise	-2131 Nov 20 j 01:45	26°♒32'16	
retrograde	-2130 Feb 20 j 05:18	29°♒45'36	
opposition	-2130 May 07 j 20:33	27°♒45'52	0°22'08
min. Earth dist.	-2130 May 07 j 07:33	27°♒47'11	18.25382 AU
direct	-2130 Jul 23 j 22:33	25°♒45'34	
evening set	-2130 Oct 24 j 08:12	28°♒58'21	
conjunction	-2130 Nov 08 j 22:36	29°♒54'29	0°18'24
minimum elong	-2130 Nov 08 j 22:36	29°♒54'29	0°18'22
max. Earth dist.	-2130 Nov 09 j 13:13	29°♒56'41	20.28777 AU
	-2130 Nov 10 j 11:04	0°♏	
morning rise	-2130 Nov 24 j 12:39	0°♏50'37	
retrograde	-2129 Feb 24 j 19:20	4°♏03'18	
opposition	-2129 May 12 j 14:48	2°♏03'37	0°18'36
min. Earth dist.	-2129 May 11 j 23:54	2°♏05'08	18.32126 AU
direct	-2129 Jul 28 j 16:49	0°♏03'40	
evening set	-2129 Oct 28 j 18:43	3°♏15'06	
conjunction	-2129 Nov 13 j 08:43	4°♏11'00	0°15'12
minimum elong	-2129 Nov 13 j 08:43	4°♏10'59	0°15'10

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

behind sun begin	-2129 Nov 13 j 06:15	4°♏10'38	
behind sun end	-2129 Nov 13 j 11:11	4°♏11'21	
max. Earth dist.	-2129 Nov 14 j 00:09	4°♏13'18	20.35484 AU
morning rise	-2129 Nov 28 j 22:58	5°♏06'54	
retrograde	-2128 Feb 29 j 07:38	8°♏18'59	
opposition	-2128 May 16 j 08:07	6°♏19'19	0°15'01
min. Earth dist.	-2128 May 15 j 15:50	6°♏20'58	18.38814 AU
direct	-2128 Aug 01 j 07:58	4°♏19'42	
evening set	-2128 Nov 01 j 04:14	7°♏29'52	
conjunction	-2128 Nov 16 j 18:13	8°♏25'30	0°11'57
minimum elong	-2128 Nov 16 j 18:13	8°♏25'30	0°11'54
behind sun begin	-2128 Nov 16 j 13:36	8°♏24'49	
behind sun end	-2128 Nov 16 j 22:50	8°♏26'10	
max. Earth dist.	-2128 Nov 17 j 12:20	8°♏28'12	20.42140 AU
morning rise	-2128 Dec 02 j 08:27	9°♏21'11	
retrograde	-2127 Mar 04 j 20:08	12°♏32'41	
min. Earth dist.	-2127 May 20 j 06:13	10°♏34'57	18.45438 AU
opposition	-2127 May 21 j 00:43	10°♏33'05	0°11'22
direct	-2127 Aug 05 j 23:50	8°♏33'48	
evening set	-2127 Nov 05 j 13:00	11°♏42'43	
conjunction	-2127 Nov 21 j 02:45	12°♏38'07	0°08'40
minimum elong	-2127 Nov 21 j 02:45	12°♏38'07	0°08'38
behind sun begin	-2127 Nov 20 j 21:02	12°♏37'17	
behind sun end	-2127 Nov 21 j 08:27	12°♏38'57	
max. Earth dist.	-2127 Nov 21 j 21:47	12°♏40'57	20.48732 AU
morning rise	-2127 Dec 06 j 17:19	13°♏33'37	
	-2126 Jan 02 j 06:10	15°♏	
retrograde	-2126 Mar 09 j 07:42	16°♏44'34	
	-2126 May 19 j 11:49	15°℞♏	
opposition	-2126 May 25 j 16:38	14°♏45'02	0°07'41
min. Earth dist.	-2126 May 24 j 20:57	14°♏47'01	18.52009 AU
direct	-2126 Aug 10 j 12:51	12°♏46'07	
	-2126 Oct 24 j 19:49	15°♏	
evening set	-2126 Nov 09 j 21:01	15°♏53'50	
conjunction	-2126 Nov 25 j 10:55	16°♏49'01	0°05'21
minimum elong	-2126 Nov 25 j 10:55	16°♏49'01	0°05'19
behind sun begin	-2126 Nov 25 j 04:36	16°♏48'06	
behind sun end	-2126 Nov 25 j 17:14	16°♏49'56	
max. Earth dist.	-2126 Nov 26 j 08:21	16°♏52'12	20.55253 AU
morning rise	-2126 Dec 11 j 01:38	17°♏44'20	
retrograde	-2125 Mar 13 j 19:12	20°♏54'45	
min. Earth dist.	-2125 May 29 j 09:42	18°♏57'31	18.58468 AU
opposition	-2125 May 30 j 07:27	18°♏55'20	0°04'00
direct	-2125 Aug 15 j 02:18	16°♏56'46	
evening set	-2125 Nov 14 j 04:30	20°♏03'21	
conjunction	-2125 Nov 29 j 18:20	20°♏58'19	0°02'01
minimum elong	-2125 Nov 29 j 18:20	20°♏58'19	0°01'59
behind sun begin	-2125 Nov 29 j 11:48	20°♏57'23	
behind sun end	-2125 Nov 30 j 00:52	20°♏59'16	
max. Earth dist.	-2125 Nov 30 j 16:25	21°♏01'35	20.61639 AU
morning rise	-2125 Dec 15 j 09:32	21°♏53'29	
retrograde	-2124 Mar 17 j 06:00	25°♏03'25	
opposition	-2124 Jun 02 j 21:48	23°♏04'05	0°00'19
min. Earth dist.	-2124 Jun 01 j 23:25	23°♏06'20	18.64779 AU
desc. node	-2124 Jul 04 j 09:24	21°♏53'17	
direct	-2124 Aug 18 j 13:13	21°♏05'53	
evening set	-2124 Nov 17 j 11:12	24°♏11'23	
conjunction	-2124 Dec 03 j 01:19	25°♏06'10	-0°01'24
minimum elong	-2124 Dec 03 j 01:17	25°♏06'10	0°01'26
behind sun begin	-2124 Dec 02 j 18:45	25°♏05'14	
behind sun end	-2124 Dec 03 j 07:49	25°♏07'06	
max. Earth dist.	-2124 Dec 04 j 01:25	25°♏09'44	20.67846 AU
morning rise	-2124 Dec 18 j 16:44	26°♏01'10	
retrograde	-2123 Mar 21 j 17:03	29°♏10'39	
min. Earth dist.	-2123 Jun 06 j 11:05	27°♏13'52	18.70866 AU
opposition	-2123 Jun 07 j 11:22	27°♏11'26	-0°03'21
direct	-2123 Aug 23 j 01:29	25°♏13'35	
evening set	-2123 Nov 21 j 17:39	28°♏18'04	
conjunction	-2123 Dec 07 j 07:47	29°♏12'40	-0°04'43
minimum elong	-2123 Dec 07 j 07:47	29°♏12'40	0°04'46
behind sun begin	-2123 Dec 07 j 01:23	29°♏11'45	
behind sun end	-2123 Dec 07 j 14:10	29°♏13'35	
max. Earth dist.	-2123 Dec 08 j 08:21	29°♏16'16	20.73801 AU
	-2123 Dec 20 j 19:25	0°♐	
morning rise	-2123 Dec 22 j 23:48	0°♐07'32	
retrograde	-2122 Mar 26 j 03:03	3°♐16'35	
min. Earth dist.	-2122 Jun 11 j 00:01	1°♐19'54	18.76688 AU
opposition	-2122 Jun 12 j 00:23	1°♐17'28	-0°06'59
	-2122 Jul 17 j 04:57	30°℞♏	
direct	-2122 Aug 27 j 10:30	29°♏19'57	
	-2122 Oct 06 j 07:44	0°♐	
evening set	-2122 Nov 25 j 23:28	2°♐23'27	
conjunction	-2122 Dec 11 j 14:01	3°♐17'54	-0°07'58
minimum elong	-2122 Dec 11 j 14:01	3°♐17'54	0°08'00
behind sun begin	-2122 Dec 11 j 08:09	3°♐17'04	
behind sun end	-2122 Dec 11 j 19:53	3°♐18'45	
max. Earth dist.	-2122 Dec 12 j 16:09	3°♐21'44	20.79454 AU
morning rise	-2122 Dec 27 j 06:26	4°♐12'39	
retrograde	-2121 Mar 30 j 13:54	7°♐21'18	
min. Earth dist.	-2121 Jun 15 j 10:44	5°♐24'51	18.82155 AU
opposition	-2121 Jun 16 j 12:35	5°♐22'16	-0°10'34
direct	-2121 Aug 31 j 21:47	3°♐25'04	
evening set	-2121 Nov 30 j 05:09	6°♐27'39	
conjunction	-2121 Dec 15 j 19:50	7°♐21'58	-0°11'10
minimum elong	-2121 Dec 15 j 19:50	7°♐21'58	0°11'13
behind sun begin	-2121 Dec 15 j 14:57	7°♐21'16	
behind sun end	-2121 Dec 16 j 00:44	7°♐22'39	
max. Earth dist.	-2121 Dec 16 j 21:58	7°♐25'46	20.84713 AU
morning rise	-2121 Dec 31 j 12:54	8°♐16'36	
retrograde	-2120 Apr 02 j 22:52	11°♐24'52	
min. Earth dist.	-2120 Jun 18 j 22:54	9°♐28'26	18.87213 AU
opposition	-2120 Jun 20 j 00:15	9°♐25'54	-0°14'04
direct	-2120 Sep 04 j 05:31	7°♐28'58	
evening set	-2120 Dec 03 j 10:20	10°♐30'41	
conjunction	-2120 Dec 19 j 01:33	11°♐24'53	-0°14'17
minimum elong	-2120 Dec 19 j 01:32	11°♐24'53	0°14'20
behind sun begin	-2120 Dec 18 j 22:22	11°♐24'26	
behind sun end	-2120 Dec 19 j 04:43	11°♐25'20	
max. Earth dist.	-2120 Dec 20 j 04:43	11°♐28'50	20.89543 AU
morning rise	-2119 Jan 03 j 19:05	12°♐19'25	
retrograde	-2119 Apr 07 j 09:02	15°♐27'20	
min. Earth dist.	-2119 Jun 23 j 08:41	13°♐31'04	18.91804 AU
opposition	-2119 Jun 24 j 11:17	13°♐28'25	-0°17'30
direct	-2119 Sep 08 j 15:50	11°♐31'41	
evening set	-2119 Dec 07 j 15:13	14°♐32'36	
conjunction	-2119 Dec 23 j 06:46	15°♐26'41	-0°17'20
minimum elong	-2119 Dec 23 j 06:45	15°♐26'41	0°17'23
max. Earth dist.	-2119 Dec 24 j 09:39	15°♐30'35	20.93882 AU
morning rise	-2118 Jan 08 j 01:06	16°♐21'09	
retrograde	-2118 Apr 11 j 17:23	19°♐28'44	
opposition	-2118 Jun 28 j 21:52	17°♐29'48	-0°20'49
min. Earth dist.	-2118 Jun 27 j 20:05	17°♐32'23	18.95901 AU
direct	-2118 Sep 12 j 22:44	15°♐33'15	
evening set	-2118 Dec 11 j 19:46	18°♐33'25	

Attention, astronomical year style is used: The year -2118 in astronomical counting style is the year 2119 BCE in historical counting style.

conjunction	-2118 Dec 27 j 11:58	19°♐27'24	-0°20'17
minimum elong	-2118 Dec 27 j 11:58	19°♐27'24	0°20'20
max. Earth dist.	-2118 Dec 28 j 15:35	19°♐31'24	20.97728 AU
morning rise	-2117 Jan 12 j 06:54	20°♐21'49	
retrograde	-2117 Apr 16 j 02:22	23°♐29'03	
min. Earth dist.	-2117 Jul 02 j 04:38	21°♐32'47	18.99495 AU
opposition	-2117 Jul 03 j 07:26	21°♐30'07	-0°24'01
direct	-2117 Sep 17 j 07:48	19°♐33'41	
evening set	-2117 Dec 16 j 00:04	22°♐33'09	
conjunction	-2117 Dec 31 j 16:41	23°♐27'04	-0°23'07
minimum elong	-2117 Dec 31 j 16:41	23°♐27'04	0°23'10
max. Earth dist.	-2116 Jan 01 j 19:54	23°♐31'00	21.01079 AU
morning rise	-2116 Jan 16 j 12:30	24°♐21'26	
retrograde	-2116 Apr 19 j 10:01	27°♐28'24	
opposition	-2116 Jul 06 j 16:43	25°♐29'24	-0°27'05
min. Earth dist.	-2116 Jul 05 j 14:51	25°♐31'58	19.02627 AU
direct	-2116 Sep 20 j 13:42	23°♐33'04	
evening set	-2116 Dec 19 j 03:51	26°♐31'54	
conjunction	-2115 Jan 03 j 21:12	27°♐25'46	-0°25'50
minimum elong	-2115 Jan 03 j 21:12	27°♐25'46	0°25'53
max. Earth dist.	-2115 Jan 05 j 01:12	27°♐29'48	21.03994 AU
morning rise	-2115 Jan 19 j 17:41	28°♐20'06	
	-2115 Feb 21 j 08:01	0°♑	
retrograde	-2115 Apr 23 j 18:22	1°♑26'49	
	-2115 Jun 27 j 10:01	30°℞♐	
min. Earth dist.	-2115 Jul 09 j 22:19	29°♐30'27	19.05332 AU
opposition	-2115 Jul 11 j 01:18	29°♐27'46	-0°30'00
direct	-2115 Sep 24 j 21:15	27°♐31'31	
	-2115 Dec 14 j 06:43	0°♑	
evening set	-2115 Dec 23 j 07:43	0°♑29'48	
conjunction	-2114 Jan 08 j 01:36	1°♑23'38	-0°28'24
minimum elong	-2114 Jan 08 j 01:36	1°♑23'38	0°28'26
max. Earth dist.	-2114 Jan 09 j 05:13	1°♑27'36	21.06494 AU
morning rise	-2114 Jan 23 j 23:00	2°♑17'58	
retrograde	-2114 Apr 28 j 01:28	5°♑24'29	
min. Earth dist.	-2114 Jul 14 j 07:28	3°♑27'58	19.07652 AU
opposition	-2114 Jul 15 j 09:26	3°♑25'22	-0°32'46
direct	-2114 Sep 29 j 02:14	1°♑29'12	
evening set	-2114 Dec 27 j 11:20	4°♑27'02	
conjunction	-2113 Jan 12 j 06:04	5°♑20'52	-0°30'50
minimum elong	-2113 Jan 12 j 06:04	5°♑20'52	0°30'53
max. Earth dist.	-2113 Jan 13 j 10:16	5°♑24'54	21.08626 AU
morning rise	-2113 Jan 28 j 04:14	6°♑15'11	
retrograde	-2113 May 02 j 10:08	9°♑21'34	
opposition	-2113 Jul 19 j 17:00	7°♑22'25	-0°35'21
min. Earth dist.	-2113 Jul 18 j 14:03	7°♑25'07	19.09594 AU
direct	-2113 Oct 03 j 08:17	5°♑26'19	
evening set	-2113 Dec 31 j 15:01	8°♑23'48	
conjunction	-2112 Jan 16 j 10:20	9°♑17'37	-0°33'07
minimum elong	-2112 Jan 16 j 10:20	9°♑17'37	0°33'09
max. Earth dist.	-2112 Jan 17 j 13:59	9°♑21'34	21.10372 AU
morning rise	-2112 Feb 01 j 09:27	10°♑11'58	
retrograde	-2112 May 05 j 16:36	13°♑18'16	
min. Earth dist.	-2112 Jul 21 j 22:36	11°♑21'41	19.11160 AU
opposition	-2112 Jul 23 j 00:21	11°♑19'06	-0°37'47
direct	-2112 Oct 06 j 12:40	9°♑23'05	
evening set	-2111 Jan 03 j 18:37	12°♑20'16	
conjunction	-2111 Jan 19 j 14:52	13°♑14'07	-0°35'14
minimum elong	-2111 Jan 19 j 14:52	13°♑14'07	0°35'17
max. Earth dist.	-2111 Jan 20 j 18:55	13°♑18'08	21.11755 AU
morning rise	-2111 Feb 04 j 14:47	14°♑08'30	
retrograde	-2111 May 10 j 02:05	17°♑14'46	
min. Earth dist.	-2111 Jul 26 j 04:46	15°♑18'15	19.12343 AU
opposition	-2111 Jul 27 j 07:16	15°♑15'36	-0°40'02
direct	-2111 Oct 10 j 18:01	13°♑19'39	
evening set	-2110 Jan 07 j 22:27	16°♑16'38	
conjunction	-2110 Jan 23 j 19:25	17°♑10'32	-0°37'12
minimum elong	-2110 Jan 23 j 19:25	17°♑10'32	0°37'15
max. Earth dist.	-2110 Jan 24 j 22:40	17°♑14'25	21.12733 AU
morning rise	-2110 Feb 08 j 20:25	18°♑04'59	
retrograde	-2110 May 14 j 08:22	21°♑11'16	
opposition	-2110 Jul 31 j 14:05	19°♑12'05	-0°42'07
min. Earth dist.	-2110 Jul 30 j 13:11	19°♑14'35	19.13114 AU
direct	-2110 Oct 14 j 21:30	17°♑16'12	
evening set	-2109 Jan 12 j 02:28	20°♑13'04	
conjunction	-2109 Jan 28 j 00:25	21°♑07'02	-0°38'59
minimum elong	-2109 Jan 28 j 00:25	21°♑07'02	0°39'01
max. Earth dist.	-2109 Jan 29 j 03:38	21°♑10'54	21.13288 AU
morning rise	-2109 Feb 13 j 02:15	22°♑01'33	
retrograde	-2109 May 18 j 17:57	25°♑07'53	
opposition	-2109 Aug 04 j 20:23	23°♑08'43	-0°43'59
min. Earth dist.	-2109 Aug 03 j 19:13	23°♑11'14	19.13434 AU
direct	-2109 Oct 19 j 03:02	21°♑12'52	
evening set	-2108 Jan 16 j 06:51	24°♑09'43	
conjunction	-2108 Feb 01 j 05:34	25°♑03'45	-0°40'35
minimum elong	-2108 Feb 01 j 05:34	25°♑03'45	0°40'39
max. Earth dist.	-2108 Feb 02 j 07:32	25°♑07'27	21.13365 AU
morning rise	-2108 Feb 17 j 08:27	25°♑58'22	
retrograde	-2108 May 22 j 00:26	29°♑04'48	
min. Earth dist.	-2108 Aug 07 j 03:40	27°♑07'57	19.13264 AU
opposition	-2108 Aug 08 j 02:51	27°♑05'37	-0°45'39
direct	-2108 Oct 22 j 05:42	25°♑09'47	
evening set	-2107 Jan 19 j 11:20	28°♑06'40	
conjunction	-2107 Feb 04 j 11:07	29°♑00'48	-0°42'00
minimum elong	-2107 Feb 04 j 11:06	29°♑00'48	0°42'02
max. Earth dist.	-2107 Feb 05 j 12:36	29°♑04'26	21.12938 AU
morning rise	-2107 Feb 20 j 14:52	29°♑55'31	
	-2107 Feb 21 j 23:21	0°♒	
retrograde	-2107 May 26 j 09:51	3°♒02'05	
min. Earth dist.	-2107 Aug 11 j 10:01	1°♒05'12	19.12557 AU
opposition	-2107 Aug 12 j 09:04	1°♒02'53	-0°47'06
	-2107 Sep 08 j 21:18	30°℞♑	
direct	-2107 Oct 26 j 11:50	29°♑07'01	
	-2107 Dec 11 j 10:56	0°♒	
evening set	-2106 Jan 23 j 16:31	2°♒04'00	
conjunction	-2106 Feb 08 j 17:08	2°♒58'15	-0°43'14
minimum elong	-2106 Feb 08 j 17:08	2°♒58'15	0°43'16
max. Earth dist.	-2106 Feb 09 j 16:52	3°♒01'37	21.11941 AU
morning rise	-2106 Feb 24 j 21:59	3°♒53'05	
retrograde	-2106 May 30 j 16:50	6°♒59'48	
opposition	-2106 Aug 16 j 15:16	5°♒00'32	-0°48'20
min. Earth dist.	-2106 Aug 15 j 18:35	5°♒02'37	19.11270 AU
direct	-2106 Oct 30 j 14:47	3°♒04'35	
evening set	-2105 Jan 27 j 21:57	6°♒01'44	
conjunction	-2105 Feb 12 j 23:41	6°♒56'07	-0°44'14
minimum elong	-2105 Feb 12 j 23:41	6°♒56'07	0°44'16
max. Earth dist.	-2105 Feb 13 j 22:23	6°♒59'21	21.10363 AU
morning rise	-2105 Mar 01 j 05:27	7°♒51'05	
retrograde	-2105 Jun 04 j 02:02	10°♒57'58	
opposition	-2105 Aug 20 j 21:20	8°♒58'37	-0°49'21
min. Earth dist.	-2105 Aug 20 j 01:02	9°♒00'40	19.09387 AU
direct	-2105 Nov 03 j 20:48	7°♒02'30	

Attention, astronomical year style is used: The year -2104 in astronomical counting style is the year 2105 BCE in historical counting style.

evening set	-2104 Feb 01 j 03:44	9°♒59'52	
conjunction	-2104 Feb 17 j 06:21	10°♒54'24	-0°45'02
minimum elong	-2104 Feb 17 j 06:21	10°♒54'24	0°45'05
max. Earth dist.	-2104 Feb 18 j 03:07	10°♒57'21	21.08187 AU
morning rise	-2104 Mar 04 j 13:11	11°♒49'31	
retrograde	-2104 Jun 07 j 09:18	14°♒56'36	
min. Earth dist.	-2104 Aug 23 j 09:37	12°♒58'55	19.06930 AU
opposition	-2104 Aug 24 j 03:32	12°♒57'06	-0°50'07
direct	-2104 Nov 07 j 00:32	11°♒00'49	
evening set	-2103 Feb 04 j 09:54	13°♒58'27	
conjunction	-2103 Feb 20 j 13:40	14°♒53'09	-0°45'37
minimum elong	-2103 Feb 20 j 13:40	14°♒53'09	0°45'39
max. Earth dist.	-2103 Feb 21 j 09:23	14°♒55'57	21.05478 AU
	-2103 Feb 22 j 13:51	15°♒	
morning rise	-2103 Mar 08 j 21:26	15°♒48'24	
retrograde	-2103 Jun 11 j 18:22	18°♒55'43	
opposition	-2103 Aug 28 j 09:28	16°♒56'03	-0°50'38
min. Earth dist.	-2103 Aug 27 j 15:59	16°♒57'49	19.03962 AU
	-2103 Nov 06 j 22:17	15°℞♒	
direct	-2103 Nov 11 j 06:16	14°♒59'31	
	-2103 Nov 15 j 13:11	15°♒	
evening set	-2102 Feb 08 j 16:37	17°♒57'31	
conjunction	-2102 Feb 24 j 21:20	18°♒52'23	-0°45'59
minimum elong	-2102 Feb 24 j 21:20	18°♒52'23	0°46'01
max. Earth dist.	-2102 Feb 25 j 15:11	18°♒54'55	21.02271 AU
morning rise	-2102 Mar 13 j 06:11	19°♒47'50	
retrograde	-2102 Jun 16 j 02:07	22°♒55'22	
opposition	-2102 Sep 01 j 15:34	20°♒55'32	-0°50'55
min. Earth dist.	-2102 Sep 01 j 00:29	20°♒57'04	19.00533 AU
direct	-2102 Nov 15 j 10:19	18°♒58'45	
evening set	-2101 Feb 12 j 23:45	21°♒57'10	
conjunction	-2101 Mar 01 j 05:36	22°♒52'14	-0°46'07
minimum elong	-2101 Mar 01 j 05:36	22°♒52'14	0°46'09
max. Earth dist.	-2101 Mar 01 j 22:19	22°♒54'37	20.98643 AU
morning rise	-2101 Mar 17 j 15:19	23°♒47'51	
retrograde	-2101 Jun 20 j 11:41	26°♒55'41	
opposition	-2101 Sep 05 j 21:28	24°♒55'41	-0°50'57
min. Earth dist.	-2101 Sep 05 j 06:49	24°♒57'11	18.96706 AU
direct	-2101 Nov 19 j 16:14	22°♒58'38	
evening set	-2100 Feb 17 j 07:31	25°♒57'34	
conjunction	-2100 Mar 04 j 14:19	26°♒52'51	-0°46'02
minimum elong	-2100 Mar 04 j 14:19	26°♒52'51	0°46'03
max. Earth dist.	-2100 Mar 05 j 05:14	26°♒54'58	20.94633 AU
morning rise	-2100 Mar 21 j 01:02	27°♒48'40	
	-2100 May 05 j 18:33	0°♓	
retrograde	-2100 Jun 23 j 19:59	0°♓56'50	
	-2100 Aug 13 j 00:12	30°℞♒	
opposition	-2100 Sep 09 j 03:45	28°♒56'39	-0°50'45
min. Earth dist.	-2100 Sep 08 j 15:24	28°♒57'55	18.92530 AU
direct	-2100 Nov 22 j 20:20	26°♒59'21	
evening set	-2099 Feb 20 j 15:40	29°♒58'51	
	-2099 Feb 20 j 23:53	0°♓	
conjunction	-2099 Mar 08 j 23:37	0°♓54'22	-0°45'43
minimum elong	-2099 Mar 08 j 23:38	0°♓54'22	0°45'45
max. Earth dist.	-2099 Mar 09 j 13:21	0°♓56'19	20.90309 AU
morning rise	-2099 Mar 25 j 11:17	1°♓50'24	
retrograde	-2099 Jun 28 j 06:56	4°♓58'56	
opposition	-2099 Sep 13 j 10:06	2°♓58'37	-0°50'17
min. Earth dist.	-2099 Sep 12 j 22:15	2°♓59'50	18.88045 AU
direct	-2099 Nov 27 j 02:46	1°♓01'02	
evening set	-2098 Feb 25 j 00:49	4°♓01'14	
conjunction	-2098 Mar 13 j 09:45	4°♓56'59	-0°45'11
minimum elong	-2098 Mar 13 j 09:45	4°♓56'59	0°45'11
max. Earth dist.	-2098 Mar 13 j 21:32	4°♓58'40	20.85671 AU
morning rise	-2098 Mar 29 j 22:20	5°♓53'14	
retrograde	-2098 Jul 02 j 15:59	9°♓02'12	
opposition	-2098 Sep 17 j 16:44	7°♓01'46	-0°49'34
min. Earth dist.	-2098 Sep 17 j 07:21	7°♓02'44	18.83263 AU
direct	-2098 Dec 01 j 07:25	5°♓03'55	
evening set	-2097 Mar 01 j 10:34	8°♓04'52	
conjunction	-2097 Mar 17 j 20:37	9°♓00'52	-0°44'25
minimum elong	-2097 Mar 17 j 20:37	9°♓00'52	0°44'26
max. Earth dist.	-2097 Mar 18 j 06:52	9°♓02'20	20.80763 AU
morning rise	-2097 Apr 03 j 10:04	9°♓57'22	
retrograde	-2097 Jul 07 j 04:14	13°♓06'48	
opposition	-2097 Sep 21 j 23:42	11°♓06'16	-0°48'37
min. Earth dist.	-2097 Sep 21 j 14:58	11°♓07'10	18.78209 AU
direct	-2097 Dec 05 j 14:31	9°♓08'10	
evening set	-2096 Mar 04 j 21:05	12°♓09'57	
conjunction	-2096 Mar 21 j 08:04	13°♓06'14	-0°43'26
minimum elong	-2096 Mar 21 j 08:04	13°♓06'14	0°43'27
max. Earth dist.	-2096 Mar 21 j 16:24	13°♓07'25	20.75566 AU
morning rise	-2096 Apr 06 j 22:23	14°♓02'59	
retrograde	-2096 Jul 10 j 14:32	17°♓12'55	
opposition	-2096 Sep 25 j 07:13	15°♓12'18	-0°47'24
min. Earth dist.	-2096 Sep 25 j 01:03	15°♓12'56	18.72867 AU
direct	-2096 Dec 08 j 20:16	13°♓13'57	
evening set	-2095 Mar 09 j 08:34	16°♓16'39	
conjunction	-2095 Mar 25 j 20:37	17°♓13'12	-0°42'13
minimum elong	-2095 Mar 25 j 20:37	17°♓13'12	0°42'13
max. Earth dist.	-2095 Mar 26 j 03:00	17°♓14'07	20.70093 AU
morning rise	-2095 Apr 11 j 11:45	18°♓10'13	
retrograde	-2095 Jul 15 j 03:56	21°♓20'42	
opposition	-2095 Sep 29 j 14:54	19°♓20'00	-0°45'56
min. Earth dist.	-2095 Sep 29 j 09:49	19°♓20'32	18.67235 AU
direct	-2095 Dec 13 j 04:24	17°♓21'23	
evening set	-2094 Mar 13 j 21:09	20°♓25'04	
conjunction	-2094 Mar 30 j 10:07	21°♓21'56	-0°40'46
minimum elong	-2094 Mar 30 j 10:07	21°♓21'56	0°40'47
max. Earth dist.	-2094 Mar 30 j 14:16	21°♓22'31	20.64292 AU
morning rise	-2094 Apr 16 j 02:00	22°♓19'13	
retrograde	-2094 Jul 19 j 15:47	25°♓30'16	
opposition	-2094 Oct 03 j 23:20	23°♓29'29	-0°44'13
min. Earth dist.	-2094 Oct 03 j 21:04	23°♓29'43	18.61266 AU
direct	-2094 Dec 17 j 11:25	21°♓30'34	
evening set	-2093 Mar 18 j 10:33	24°♓35'17	
conjunction	-2093 Apr 04 j 00:27	25°♓32'26	-0°39'05
minimum elong	-2093 Apr 04 j 00:27	25°♓32'26	0°39'04
max. Earth dist.	-2093 Apr 04 j 02:05	25°♓32'40	20.58161 AU
morning rise	-2093 Apr 20 j 17:03	26°♓30'00	
retrograde	-2093 Jul 24 j 06:24	29°♓41'38	
opposition	-2093 Oct 08 j 08:09	27°♓40'45	-0°42'15
min. Earth dist.	-2093 Oct 08 j 07:09	27°♓40'51	18.54957 AU
direct	-2093 Dec 21 j 21:06	25°♓41'29	
evening set	-2092 Mar 22 j 00:57	28°♓47'17	
conjunction	-2092 Apr 07 j 15:45	29°♓44'45	-0°37'11
minimum elong	-2092 Apr 07 j 15:45	29°♓44'45	0°37'11
max. Earth dist.	-2092 Apr 07 j 15:05	29°♓44'39	20.51677 AU
	-2092 Apr 12 j 00:42	0°♈	
morning rise	-2092 Apr 24 j 08:55	0°♈42'35	
retrograde	-2092 Jul 27 j 19:20	3°♈54'49	
opposition	-2092 Oct 11 j 17:37	1°♈53'47	-0°40'02

Attention, astronomical year style is used: The year -2092 in astronomical counting style is the year 2093 BCE in historical counting style.

min. Earth dist.	-2092 Oct 11 j 19:24	1°♈53'35	18.48310 AU
	-2092 Dec 10 j 07:07	30°℞♓	
direct	-2092 Dec 25 j 05:22	29°♓54'08	
	-2091 Jan 09 j 02:49	0°♈	
evening set	-2091 Mar 26 j 16:12	3°♈01'03	
conjunction	-2091 Apr 12 j 07:52	3°♈58'50	-0°35'04
minimum elong	-2091 Apr 12 j 07:52	3°♈58'50	0°35'03
max. Earth dist.	-2091 Apr 12 j 04:24	3°♈58'20	20.44890 AU
morning rise	-2091 Apr 29 j 01:45	4°♈56'57	
retrograde	-2091 Aug 01 j 11:22	8°♈09'46	
opposition	-2091 Oct 16 j 03:33	6°♈08'33	-0°37'35
min. Earth dist.	-2091 Oct 16 j 06:42	6°♈08'13	18.41375 AU
direct	-2091 Dec 29 j 16:44	4°♈08'29	
evening set	-2090 Mar 31 j 08:28	7°♈16'34	
conjunction	-2090 Apr 17 j 00:59	8°♈14'40	-0°32'44
minimum elong	-2090 Apr 17 j 00:59	8°♈14'40	0°32'44
max. Earth dist.	-2090 Apr 16 j 19:28	8°♈13'52	20.37825 AU
morning rise	-2090 May 03 j 19:16	9°♈13'04	
retrograde	-2090 Aug 06 j 01:13	12°♈26'26	
opposition	-2090 Oct 20 j 14:01	10°♈25'03	-0°34'54
min. Earth dist.	-2090 Oct 20 j 19:46	10°♈24'27	18.34205 AU
direct	-2089 Jan 03 j 02:25	8°♈24'33	
evening set	-2089 Apr 05 j 01:36	11°♈33'48	
conjunction	-2089 Apr 21 j 18:47	12°♈32'13	-0°30'13
minimum elong	-2089 Apr 21 j 18:47	12°♈32'13	0°30'13
max. Earth dist.	-2089 Apr 21 j 10:28	12°♈31'00	20.30587 AU
morning rise	-2089 May 08 j 13:38	13°♈30'55	
retrograde	-2089 Aug 10 j 18:09	16°♈44'52	
opposition	-2089 Oct 25 j 01:03	14°♈43'17	-0°32'01
min. Earth dist.	-2089 Oct 25 j 08:06	14°♈42'32	18.26905 AU
direct	-2088 Jan 07 j 15:21	12°♈42'18	
evening set	-2088 Apr 08 j 19:26	15°♈52'47	
conjunction	-2088 Apr 25 j 13:22	16°♈51'31	-0°27'31
minimum elong	-2088 Apr 25 j 13:22	16°♈51'31	0°27'29
max. Earth dist.	-2088 Apr 25 j 03:39	16°♈50'06	20.23237 AU
morning rise	-2088 May 12 j 08:28	17°♈50'30	
retrograde	-2088 Aug 14 j 09:03	21°♈05'02	
opposition	-2088 Oct 28 j 12:48	19°♈03'15	-0°28'56
min. Earth dist.	-2088 Oct 28 j 22:02	19°♈02'16	18.19533 AU
direct	-2087 Jan 11 j 02:43	17°♈01'49	
evening set	-2087 Apr 13 j 14:24	20°♈13'33	
conjunction	-2087 Apr 30 j 08:51	21°♈12'36	-0°24'38
minimum elong	-2087 Apr 30 j 08:51	21°♈12'36	0°24'37
max. Earth dist.	-2087 Apr 29 j 20:20	21°♈10'45	20.15873 AU
morning rise	-2087 May 17 j 04:23	22°♈11'51	
retrograde	-2087 Aug 19 j 02:43	25°♈26'59	
opposition	-2087 Nov 02 j 00:59	23°♈25'01	-0°25'39
min. Earth dist.	-2087 Nov 02 j 11:33	23°♈23'52	18.12188 AU
direct	-2086 Jan 15 j 17:18	21°♈23'06	
evening set	-2086 Apr 18 j 10:16	24°♈36'07	
conjunction	-2086 May 05 j 05:20	25°♈35'30	-0°21'35
minimum elong	-2086 May 05 j 05:20	25°♈35'30	0°21'34
max. Earth dist.	-2086 May 04 j 15:47	25°♈33'30	20.08549 AU
morning rise	-2086 May 22 j 00:53	26°♈35'01	
retrograde	-2086 Aug 23 j 18:42	29°♈50'44	
opposition	-2086 Nov 06 j 14:05	27°♈48'37	-0°22'12
min. Earth dist.	-2086 Nov 07 j 02:26	27°♈47'17	18.04916 AU
direct	-2085 Jan 20 j 06:54	25°♈46'17	
evening set	-2085 Apr 23 j 06:58	29°♈00'36	
max. Earth dist.	-2085 May 09 j 10:04	29°♈57'52	20.01349 AU

conjunction	-2085 May 10 j 02:18	0°♉00'17	-0°18'25
minimum elong	-2085 May 10 j 02:18	0°♉00'17	0°18'23
	-2085 May 10 j 00:23	0°♉	
morning rise	-2085 May 26 j 22:05	1°♉00'03	
retrograde	-2085 Aug 28 j 12:57	4°♉16'24	
opposition	-2085 Nov 11 j 03:51	2°♉14'08	-0°18'36
min. Earth dist.	-2085 Nov 11 j 17:24	2°♉12'40	17.97806 AU
direct	-2084 Jan 24 j 22:49	0°♉11'22	
evening set	-2084 Apr 27 j 04:34	3°♉27'02	
max. Earth dist.	-2084 May 13 j 07:33	4°♉24'31	19.94324 AU
conjunction	-2084 May 14 j 00:24	4°♉27'02	-0°15'06
minimum elong	-2084 May 14 j 00:24	4°♉27'02	0°15'05
behind sun begin	-2084 May 13 j 22:25	4°♉26'44	
behind sun end	-2084 May 14 j 02:22	4°♉27'19	
morning rise	-2084 May 30 j 20:01	5°♉27'03	
retrograde	-2084 Sep 01 j 06:44	8°♉43'59	
opposition	-2084 Nov 14 j 18:21	6°♉41'38	-0°14'52
min. Earth dist.	-2084 Nov 15 j 09:20	6°♉40'01	17.90883 AU
direct	-2083 Jan 28 j 14:52	4°♉38'30	
evening set	-2083 May 02 j 03:19	7°♉55'32	
conjunction	-2083 May 18 j 23:15	8°♉55'48	-0°11'41
minimum elong	-2083 May 18 j 23:16	8°♉55'48	0°11'38
behind sun begin	-2083 May 18 j 18:32	8°♉55'07	
behind sun end	-2083 May 19 j 03:59	8°♉56'30	
max. Earth dist.	-2083 May 18 j 03:36	8°♉52'51	19.87518 AU
morning rise	-2083 Jun 04 j 18:58	9°♉56'04	
retrograde	-2083 Sep 06 j 01:54	13°♉13'38	
opposition	-2083 Nov 19 j 09:43	11°♉11'13	-0°11'00
min. Earth dist.	-2083 Nov 20 j 02:08	11°♉09'26	17.84195 AU
direct	-2082 Feb 02 j 08:08	9°♉07'43	
evening set	-2082 May 07 j 02:55	12°♉26'08	
conjunction	-2082 May 23 j 23:07	13°♉26'41	-0°08'10
minimum elong	-2082 May 23 j 23:08	13°♉26'41	0°08'08
behind sun begin	-2082 May 23 j 17:08	13°♉25'48	
behind sun end	-2082 May 24 j 05:08	13°♉27'34	
max. Earth dist.	-2082 May 23 j 03:02	13°♉23'39	19.80932 AU
morning rise	-2082 Jun 09 j 18:26	14°♉27'10	
	-2082 Jun 19 j 05:11	15°♉	
retrograde	-2082 Sep 10 j 21:54	17°♉45'20	
opposition	-2082 Nov 24 j 01:53	15°♉42'54	-0°07'02
min. Earth dist.	-2082 Nov 24 j 19:32	15°♉40'59	17.77719 AU
	-2082 Dec 10 j 21:18	15°℞♉	
direct	-2081 Feb 07 j 02:35	13°♉39'05	
	-2081 Apr 04 j 18:50	15°♉	
evening set	-2081 May 12 j 03:37	16°♉58'51	
conjunction	-2081 May 28 j 23:40	17°♉59'40	-0°04'34
minimum elong	-2081 May 28 j 23:40	17°♉59'40	0°04'31
behind sun begin	-2081 May 28 j 17:01	17°♉58'41	
behind sun end	-2081 May 29 j 06:20	18°♉00'39	
max. Earth dist.	-2081 May 28 j 00:47	17°♉56'12	19.74570 AU
morning rise	-2081 Jun 14 j 18:49	19°♉00'23	
retrograde	-2081 Sep 15 j 18:16	22°♉19'08	
opposition	-2081 Nov 28 j 19:00	20°♉16'41	-0°02'59
min. Earth dist.	-2081 Nov 29 j 14:20	20°♉14'35	17.71477 AU
direct	-2080 Feb 11 j 21:25	18°♉12'31	
evening set	-2080 May 16 j 04:55	21°♉33'39	
max. Earth dist.	-2080 Jun 01 j 01:46	22°♉31'10	19.68423 AU
conjunction	-2080 Jun 02 j 01:07	22°♉34'43	-0°00'52
minimum elong	-2080 Jun 02 j 01:06	22°♉34'43	0°00'49
behind sun begin	-2080 Jun 01 j 18:19	22°♉33'42	
behind sun end	-2080 Jun 02 j 07:53	22°♉35'43	
morning rise	-2080 Jun 18 j 19:43	23°♉35'37	

Attention, astronomical year style is used: The year -2080 in astronomical counting style is the year 2081 BCE in historical counting style.

asc. node	-2080 Aug 24 j 15:22	26°♉36'27		
retrograde	-2080 Sep 19 j 16:12	26°♉54'56		
opposition	-2080 Dec 02 j 12:59	24°♉52'28	0°01'07	
min. Earth dist.	-2080 Dec 03 j 09:16	24°♉50'15	17.65429 AU	
direct	-2079 Feb 15 j 18:12	22°♉47'59		
evening set	-2079 May 21 j 07:25	26°♉10'24		
max. Earth dist.	-2079 Jun 06 j 01:12	27°♉07'43	19.62475 AU	
conjunction	-2079 Jun 07 j 03:16	27°♉11'42	0°02'56	
minimum elong	-2079 Jun 07 j 03:15	27°♉11'42	0°02'59	
behind sun begin	-2079 Jun 06 j 20:29	27°♉10'41		
behind sun end	-2079 Jun 07 j 10:01	27°♉12'42		
morning rise	-2079 Jun 23 j 21:27	28°♉12'47		
	-2079 Jul 26 j 14:16	0°♊		
retrograde	-2079 Sep 24 j 13:33	1°♊32'37		
	-2079 Nov 25 j 19:15	30°℞♉		
opposition	-2079 Dec 07 j 07:48	29°♉30'08	0°05'14	
min. Earth dist.	-2079 Dec 08 j 05:58	29°♉27'42	17.59604 AU	
direct	-2078 Feb 20 j 14:56	27°♉25'17		
	-2078 May 12 j 09:30	0°♊		
evening set	-2078 May 26 j 10:27	0°♊48'59		
max. Earth dist.	-2078 Jun 11 j 03:36	1°♊46'25	19.56761 AU	
conjunction	-2078 Jun 12 j 06:07	1°♊50'29	0°06'38	
minimum elong	-2078 Jun 12 j 06:07	1°♊50'29	0°06'40	
behind sun begin	-2078 Jun 11 j 23:47	1°♊49'32		
behind sun end	-2078 Jun 12 j 12:27	1°♊51'26		
morning rise	-2078 Jun 28 j 23:36	2°♊51'43		
retrograde	-2078 Sep 29 j 12:47	6°♊12'02		
opposition	-2078 Dec 12 j 03:28	4°♊09'30	0°09'21	
min. Earth dist.	-2078 Dec 13 j 02:03	4°♊07'02	17.54017 AU	
direct	-2077 Feb 25 j 13:45	2°♊04'20		
evening set	-2077 May 31 j 14:02	5°♊29'12		
max. Earth dist.	-2077 Jun 16 j 04:42	6°♊26'29	19.51312 AU	
conjunction	-2077 Jun 17 j 09:11	6°♊30'53	0°10'17	
minimum elong	-2077 Jun 17 j 09:11	6°♊30'53	0°10'19	
behind sun begin	-2077 Jun 17 j 03:53	6°♊30'05		
behind sun end	-2077 Jun 17 j 14:29	6°♊31'41		
morning rise	-2077 Jul 04 j 02:01	7°♊32'16		
retrograde	-2077 Oct 04 j 11:08	10°♊53'01		
opposition	-2077 Dec 16 j 23:56	8°♊50'26	0°13'26	
min. Earth dist.	-2077 Dec 18 j 00:14	8°♊47'47	17.48738 AU	
direct	-2076 Mar 01 j 12:01	6°♊44'56		
evening set	-2076 Jun 04 j 18:09	10°♊10'56		
max. Earth dist.	-2076 Jun 20 j 08:04	11°♊08'18	19.46205 AU	
conjunction	-2076 Jun 21 j 12:53	11°♊12'46	0°13'54	
minimum elong	-2076 Jun 21 j 12:53	11°♊12'46	0°13'57	
behind sun begin	-2076 Jun 21 j 09:37	11°♊12'16		
behind sun end	-2076 Jun 21 j 16:10	11°♊13'15		
morning rise	-2076 Jul 08 j 04:56	12°♊14'16		
retrograde	-2076 Oct 08 j 11:09	15°♊35'23		
opposition	-2076 Dec 20 j 20:52	13°♊32'46	0°17'26	
min. Earth dist.	-2076 Dec 21 j 21:07	13°♊30'07	17.43816 AU	
direct	-2075 Mar 06 j 12:22	11°♊26'56		
evening set	-2075 Jun 09 j 22:50	14°♊53'59		
max. Earth dist.	-2075 Jun 25 j 11:00	15°♊51'18	19.41482 AU	
conjunction	-2075 Jun 26 j 16:56	15°♊55'57	0°17'27	
minimum elong	-2075 Jun 26 j 16:56	15°♊55'57	0°17'29	
morning rise	-2075 Jul 13 j 08:04	16°♊57'32		
retrograde	-2075 Oct 13 j 10:15	20°♊19'01		
opposition	-2075 Dec 25 j 18:47	18°♊16'20	0°21'20	
min. Earth dist.	-2075 Dec 26 j 20:30	18°♊13'31	17.39328 AU	
direct	-2074 Mar 11 j 11:41	16°♊10'13		
evening set	-2074 Jun 15 j 03:41	19°♊38'13		
conjunction	-2074 Jul 01 j 21:02	20°♊40'17	0°20'53	
minimum elong	-2074 Jul 01 j 21:02	20°♊40'17	0°20'55	
max. Earth dist.	-2074 Jun 30 j 14:57	20°♊35'36	19.37232 AU	
morning rise	-2074 Jul 18 j 11:16	21°♊41'56		
retrograde	-2074 Oct 18 j 10:51	25°♊03'43		
opposition	-2074 Dec 30 j 17:12	23°♊01'00	0°25'06	
min. Earth dist.	-2074 Dec 31 j 18:12	22°♊58'15	17.35335 AU	
direct	-2073 Mar 16 j 13:49	20°♊54'36		
evening set	-2073 Jun 20 j 08:47	24°♊23'29		
max. Earth dist.	-2073 Jul 05 j 19:23	25°♊20'56	19.33507 AU	
conjunction	-2073 Jul 07 j 01:22	25°♊25'37	0°24'11	
minimum elong	-2073 Jul 07 j 01:22	25°♊25'37	0°24'14	
morning rise	-2073 Jul 23 j 14:28	26°♊27'17		
retrograde	-2073 Oct 23 j 10:00	29°♊49'20		
opposition	-2072 Jan 04 j 16:20	27°♊46'36	0°28'42	
min. Earth dist.	-2072 Jan 05 j 18:22	27°♊43'44	17.31914 AU	
direct	-2072 Mar 20 j 14:18	25°♊39'59		
evening set	-2072 Jun 24 j 14:02	29°♊09'38		
	-2072 Jul 08 j 02:24	0°♋		
max. Earth dist.	-2072 Jul 09 j 23:32	0°♋07'05	19.30393 AU	
conjunction	-2072 Jul 11 j 05:41	0°♋11'49	0°27'19	
minimum elong	-2072 Jul 11 j 05:41	0°♋11'49	0°27'22	
morning rise	-2072 Jul 27 j 17:50	1°♋13'29		
retrograde	-2072 Oct 27 j 10:39	4°♋35'45		
opposition	-2071 Jan 08 j 16:00	2°♋33'01	0°32'07	
min. Earth dist.	-2071 Jan 09 j 16:49	2°♋30'18	17.29116 AU	
direct	-2071 Mar 25 j 17:57	0°♋26'15		
evening set	-2071 Jun 29 j 19:26	3°♋56'36		
max. Earth dist.	-2071 Jul 15 j 05:07	4°♋54'12	19.27913 AU	
conjunction	-2071 Jul 16 j 10:11	4°♋58'46	0°30'17	
minimum elong	-2071 Jul 16 j 10:11	4°♋58'46	0°30'20	
morning rise	-2071 Aug 01 j 21:01	6°♋00'25		
retrograde	-2071 Nov 01 j 10:09	9°♋22'51		
opposition	-2070 Jan 13 j 16:24	7°♋20'11	0°35'19	
min. Earth dist.	-2070 Jan 14 j 17:45	7°♋17'25	17.26978 AU	
direct	-2070 Mar 30 j 20:12	5°♋13'20		
evening set	-2070 Jul 05 j 00:56	8°♋44'15		
max. Earth dist.	-2070 Jul 20 j 09:17	9°♋41'48	19.26124 AU	
conjunction	-2070 Jul 21 j 14:29	9°♋46'24	0°33'03	
minimum elong	-2070 Jul 21 j 14:29	9°♋46'24	0°33'05	
morning rise	-2070 Aug 07 j 00:17	10°♋48'00		
retrograde	-2070 Nov 06 j 11:06	14°♋10'35		
opposition	-2069 Jan 18 j 17:14	12°♋08'00	0°38'17	
min. Earth dist.	-2069 Jan 19 j 17:06	12°♋05'23	17.25529 AU	
direct	-2069 Apr 05 j 01:06	10°♋01'08		
evening set	-2069 Jul 10 j 06:05	13°♋32'30		
conjunction	-2069 Jul 26 j 18:42	14°♋34'37	0°35'35	
minimum elong	-2069 Jul 26 j 18:42	14°♋34'37	0°35'37	
max. Earth dist.	-2069 Jul 25 j 15:23	14°♋30'18	19.25005 AU	
morning rise	-2069 Aug 12 j 03:07	15°♋36'09		
retrograde	-2069 Nov 11 j 11:09	18°♋58'49		
opposition	-2068 Jan 23 j 18:42	16°♋56'22	0°40'59	
min. Earth dist.	-2068 Jan 24 j 18:44	16°♋53'45	17.24734 AU	
direct	-2068 Apr 09 j 04:23	14°♋49'32		
evening set	-2068 Jul 14 j 11:29	18°♋21'15		
conjunction	-2068 Jul 30 j 22:45	19°♋23'17	0°37'53	
minimum elong	-2068 Jul 30 j 22:45	19°♋23'17	0°37'56	
max. Earth dist.	-2068 Jul 29 j 19:14	19°♋18'56	19.24534 AU	
morning rise	-2068 Aug 16 j 06:06	20°♋24'43		
retrograde	-2068 Nov 15 j 12:39	23°♋47'25		
opposition	-2067 Jan 27 j 20:23	21°♋45'07	0°43'25	

Attention, astronomical year style is used: The year -2067 in astronomical counting style is the year 2068 BCE in historical counting style.

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

Attention, astronomical year style is used: The year -2055 in astronomical counting style is the year 2056 BCE in historical counting style.

minimum elong	-2055 Sep 30 j 23:15	20°♍58'31	0°40'53
max. Earth dist.	-2055 Sep 30 j 19:29	20°♍57'56	19.65985 AU
morning rise	-2055 Oct 16 j 16:28	21°♍57'03	
retrograde	-2054 Jan 15 j 23:15	25°♍15'22	
opposition	-2054 Apr 01 j 01:45	23°♍14'36	0°44'33
min. Earth dist.	-2054 Apr 01 j 03:07	23°♍14'28	17.69179 AU
direct	-2054 Jun 17 j 09:04	21°♍10'56	
evening set	-2054 Sep 19 j 22:28	24°♍34'28	
conjunction	-2054 Oct 05 j 17:30	25°♍33'04	0°39'05
minimum elong	-2054 Oct 05 j 17:30	25°♍33'04	0°39'06
max. Earth dist.	-2054 Oct 05 j 16:55	25°♍32'59	19.72458 AU
morning rise	-2054 Oct 21 j 09:55	26°♍31'19	
retrograde	-2053 Jan 20 j 17:56	29°♍49'04	
opposition	-2053 Apr 06 j 01:51	27°♍48'30	0°42'24
min. Earth dist.	-2053 Apr 06 j 02:08	27°♍48'29	17.75787 AU
direct	-2053 Jun 22 j 07:59	25°♍45'18	
evening set	-2053 Sep 24 j 16:37	29°♍07'36	
	-2053 Oct 08 j 20:47	0°♎	
conjunction	-2053 Oct 10 j 10:41	0°♎05'53	0°37'04
minimum elong	-2053 Oct 10 j 10:41	0°♎05'53	0°37'04
max. Earth dist.	-2053 Oct 10 j 11:15	0°♎05'59	19.79185 AU
morning rise	-2053 Oct 26 j 02:42	1°♎03'52	
retrograde	-2052 Jan 25 j 14:25	4°♎21'02	
opposition	-2052 Apr 10 j 01:19	2°♎20'40	0°40'00
min. Earth dist.	-2052 Apr 09 j 22:42	2°♎20'56	17.82602 AU
direct	-2052 Jun 26 j 06:54	0°♎17'54	
evening set	-2052 Sep 28 j 09:43	3°♎38'57	
conjunction	-2052 Oct 14 j 03:08	4°♎36'55	0°34'49
minimum elong	-2052 Oct 14 j 03:08	4°♎36'55	0°34'48
max. Earth dist.	-2052 Oct 14 j 06:46	4°♎37'28	19.86067 AU
morning rise	-2052 Oct 29 j 18:27	5°♎34'36	
retrograde	-2051 Jan 29 j 07:53	8°♎51'11	
opposition	-2051 Apr 15 j 00:23	6°♎50'58	0°37'22
min. Earth dist.	-2051 Apr 14 j 20:36	6°♎51'22	17.89535 AU
direct	-2051 Jul 01 j 05:19	4°♎48'41	
evening set	-2051 Oct 03 j 02:04	8°♎08'24	
conjunction	-2051 Oct 18 j 18:37	9°♎06'03	0°32'22
minimum elong	-2051 Oct 18 j 18:37	9°♎06'03	0°32'22
max. Earth dist.	-2051 Oct 18 j 23:05	9°♎06'44	19.93045 AU
morning rise	-2051 Nov 03 j 09:41	10°♎03'28	
retrograde	-2050 Feb 03 j 03:08	13°♎19'26	
opposition	-2050 Apr 19 j 22:40	11°♎19'21	0°34'32
min. Earth dist.	-2050 Apr 19 j 16:21	11°♎20'00	17.96538 AU
direct	-2050 Jul 06 j 02:59	9°♎17'28	
evening set	-2050 Oct 07 j 17:11	12°♎35'51	
conjunction	-2050 Oct 23 j 09:18	13°♎33'12	0°29'45
minimum elong	-2050 Oct 23 j 09:18	13°♎33'12	0°29'43
max. Earth dist.	-2050 Oct 23 j 16:41	13°♎34'20	20.00046 AU
morning rise	-2050 Nov 07 j 23:53	14°♎30'21	
retrograde	-2049 Feb 07 j 19:09	17°♎45'41	
opposition	-2049 Apr 24 j 20:19	15°♎45'42	0°31'30
min. Earth dist.	-2049 Apr 24 j 12:45	15°♎46'29	18.03523 AU
direct	-2049 Jul 11 j 00:28	13°♎44'15	
evening set	-2049 Oct 12 j 07:36	17°♎01'15	
conjunction	-2049 Oct 27 j 23:01	17°♎58'17	0°26'57
minimum elong	-2049 Oct 27 j 23:01	17°♎58'18	0°26'56
max. Earth dist.	-2049 Oct 28 j 07:01	17°♎59'31	20.07018 AU
morning rise	-2049 Nov 12 j 13:30	18°♎55'11	
retrograde	-2048 Feb 12 j 12:22	22°♎09'52	
opposition	-2048 Apr 28 j 16:59	20°♎09'58	0°28'19
min. Earth dist.	-2048 Apr 28 j 07:20	20°♎10'57	18.10475 AU
direct	-2048 Jul 14 j 20:41	18°♎08'52	
evening set	-2048 Oct 15 j 20:51	21°♎24'30	
conjunction	-2048 Oct 31 j 11:59	22°♎21'15	0°24'02
minimum elong	-2048 Oct 31 j 11:59	22°♎21'15	0°24'01
max. Earth dist.	-2048 Oct 31 j 22:51	22°♎22'54	20.13940 AU
morning rise	-2048 Nov 16 j 02:08	23°♎17'53	
retrograde	-2047 Feb 16 j 02:30	26°♎31'54	
opposition	-2047 May 03 j 13:04	24°♎32'03	0°24'59
min. Earth dist.	-2047 May 03 j 01:54	24°♎33'12	18.17363 AU
direct	-2047 Jul 19 j 16:46	22°♎31'19	
evening set	-2047 Oct 20 j 09:09	25°♎45'34	
conjunction	-2047 Nov 04 j 23:43	26°♎42'01	0°21'00
minimum elong	-2047 Nov 04 j 23:43	26°♎42'01	0°20'58
max. Earth dist.	-2047 Nov 05 j 11:25	26°♎43'47	20.20811 AU
morning rise	-2047 Nov 20 j 13:58	27°♎38'24	
	-2046 Jan 06 j 14:26	0°♏	
retrograde	-2046 Feb 20 j 17:51	0°♏51'47	
	-2046 Apr 08 j 18:15	30°℞♎	
opposition	-2046 May 08 j 08:17	28°♎51'58	0°21'33
min. Earth dist.	-2046 May 07 j 19:12	28°♎53'18	18.24222 AU
direct	-2046 Jul 24 j 10:43	26°♎51'33	
	-2046 Oct 23 j 14:21	0°♏	
evening set	-2046 Oct 24 j 20:26	0°♏04'26	
conjunction	-2046 Nov 09 j 10:53	1°♏00'37	0°17'52
minimum elong	-2046 Nov 09 j 10:53	1°♏00'37	0°17'51
max. Earth dist.	-2046 Nov 10 j 01:31	1°♏02'49	20.27648 AU
morning rise	-2046 Nov 25 j 00:57	1°♏56'46	
retrograde	-2045 Feb 25 j 06:30	5°♏09'30	
min. Earth dist.	-2045 May 12 j 11:34	3°♏11'14	18.31044 AU
opposition	-2045 May 13 j 02:27	3°♏09'43	0°18'01
direct	-2045 Jul 29 j 04:32	1°♏09'39	
evening set	-2045 Oct 29 j 07:00	4°♏21'12	
conjunction	-2045 Nov 13 j 21:02	5°♏17'06	0°14'40
minimum elong	-2045 Nov 13 j 21:02	5°♏17'06	0°14'38
behind sun begin	-2045 Nov 13 j 18:04	5°♏16'40	
behind sun end	-2045 Nov 14 j 00:01	5°♏17'33	
max. Earth dist.	-2045 Nov 14 j 12:31	5°♏19'26	20.34459 AU
morning rise	-2045 Nov 29 j 11:19	6°♏13'03	
retrograde	-2044 Feb 29 j 19:59	9°♏25'10	
opposition	-2044 May 16 j 19:58	7°♏25'26	0°14'25
min. Earth dist.	-2044 May 16 j 03:22	7°♏27'07	18.37855 AU
direct	-2044 Aug 01 j 19:50	5°♏25'43	
evening set	-2044 Nov 01 j 16:30	8°♏35'59	
conjunction	-2044 Nov 17 j 06:32	9°♏31'39	0°11'25
minimum elong	-2044 Nov 17 j 06:31	9°♏31'39	0°11'24
behind sun begin	-2044 Nov 17 j 01:42	9°♏30'57	
behind sun end	-2044 Nov 17 j 11:21	9°♏32'21	
max. Earth dist.	-2044 Nov 18 j 00:51	9°♏34'23	20.41248 AU
morning rise	-2044 Dec 02 j 20:45	10°♏27'22	
retrograde	-2043 Mar 05 j 08:15	13°♏38'55	
opposition	-2043 May 21 j 12:40	11°♏39'16	0°10'47
min. Earth dist.	-2043 May 20 j 18:02	11°♏41'10	18.44619 AU
direct	-2043 Aug 06 j 11:43	9°♏39'57	
evening set	-2043 Nov 06 j 01:29	12°♏48'58	
conjunction	-2043 Nov 21 j 15:15	13°♏44'23	0°08'08
minimum elong	-2043 Nov 21 j 15:15	13°♏44'23	0°08'06
behind sun begin	-2043 Nov 21 j 09:25	13°♏43'32	
behind sun end	-2043 Nov 21 j 21:06	13°♏45'14	
max. Earth dist.	-2043 Nov 22 j 10:23	13°♏47'14	20.47984 AU
morning rise	-2043 Dec 07 j 05:51	14°♏39'55	
	-2043 Dec 13 j 01:09	15°♏	

Attention, astronomical year style is used: The year -2042 in astronomical counting style is the year 2043 BCE in historical counting style.

retrograde	-2042 Mar 09 j 20:19	17°♏50'56	
min. Earth dist.	-2042 May 25 j 08:43	15°♏53'23	18.51326 AU
opposition	-2042 May 26 j 04:36	15°♏51'23	0°07'06
	-2042 Jun 17 j 03:06	15°℞♏	
direct	-2042 Aug 11 j 00:32	13°♏52'26	
	-2042 Oct 02 j 04:00	15°♏	
evening set	-2042 Nov 10 j 09:33	17°♏00'16	
conjunction	-2042 Nov 25 j 23:30	17°♏55'29	0°04'49
minimum elong	-2042 Nov 25 j 23:30	17°♏55'29	0°04'48
behind sun begin	-2042 Nov 25 j 17:08	17°♏54'33	
behind sun end	-2042 Nov 26 j 05:53	17°♏56'24	
max. Earth dist.	-2042 Nov 26 j 21:08	17°♏58'41	20.54629 AU
morning rise	-2042 Dec 11 j 14:14	18°♏50'49	
retrograde	-2041 Mar 14 j 08:17	22°♏01'19	
opposition	-2041 May 30 j 19:42	20°♏01'54	0°03'24
min. Earth dist.	-2041 May 29 j 21:59	20°♏04'05	18.57889 AU
direct	-2041 Aug 15 j 14:42	18°♏03'20	
evening set	-2041 Nov 14 j 17:13	21°♏10'03	
conjunction	-2041 Nov 30 j 07:03	22°♏05'03	0°01'28
minimum elong	-2041 Nov 30 j 07:03	22°♏05'03	0°01'26
behind sun begin	-2041 Nov 30 j 00:31	22°♏04'07	
behind sun end	-2041 Nov 30 j 13:34	22°♏06'00	
max. Earth dist.	-2041 Dec 01 j 05:10	22°♏08'19	20.61099 AU
morning rise	-2041 Dec 15 j 22:13	23°♏00'14	
retrograde	-2040 Mar 17 j 19:05	26°♏10'15	
desc. node	-2040 May 06 j 11:03	25°♏14'48	
min. Earth dist.	-2040 Jun 02 j 11:47	24°♏13'12	18.64266 AU
opposition	-2040 Jun 03 j 10:10	24°♏10'58	-0°00'17
direct	-2040 Aug 19 j 01:46	22°♏12'47	
evening set	-2040 Nov 18 j 00:12	25°♏18'26	
conjunction	-2040 Dec 03 j 14:17	26°♏13'14	-0°01'57
minimum elong	-2040 Dec 03 j 14:17	26°♏13'14	0°02'00
behind sun begin	-2040 Dec 03 j 07:46	26°♏12'18	
behind sun end	-2040 Dec 03 j 20:49	26°♏14'10	
max. Earth dist.	-2040 Dec 04 j 14:30	26°♏16'48	20.67353 AU
morning rise	-2040 Dec 19 j 05:42	27°♏08'16	
	-2039 Feb 23 j 12:22	0°♐	
retrograde	-2039 Mar 22 j 06:27	0°♐17'50	
	-2039 Apr 18 j 14:29	30°℞♏	
opposition	-2039 Jun 07 j 23:56	28°♏18'40	-0°03'57
min. Earth dist.	-2039 Jun 06 j 23:54	28°♏21'04	18.70378 AU
direct	-2039 Aug 23 j 14:07	26°♏20'51	
evening set	-2039 Nov 22 j 06:47	29°♏25'28	
	-2039 Dec 02 j 04:12	0°♐	
conjunction	-2039 Dec 07 j 20:54	0°♐20'07	-0°05'15
minimum elong	-2039 Dec 07 j 20:55	0°♐20'07	0°05'17
behind sun begin	-2039 Dec 07 j 14:35	0°♐19'12	
behind sun end	-2039 Dec 08 j 03:15	0°♐21'01	
max. Earth dist.	-2039 Dec 08 j 21:18	0°♐23'42	20.73306 AU
morning rise	-2039 Dec 23 j 12:56	1°♐15'01	
retrograde	-2038 Mar 26 j 16:29	4°♐24'10	
opposition	-2038 Jun 12 j 13:08	2°♐25'06	-0°07'34
min. Earth dist.	-2038 Jun 11 j 13:01	2°♐27'31	18.76171 AU
direct	-2038 Aug 27 j 23:57	0°♐27'37	
evening set	-2038 Nov 26 j 12:54	3°♐31'17	
conjunction	-2038 Dec 12 j 03:26	4°♐25'46	-0°08'30
minimum elong	-2038 Dec 12 j 03:26	4°♐25'46	0°08'33
behind sun begin	-2038 Dec 11 j 21:42	4°♐24'56	
behind sun end	-2038 Dec 12 j 09:10	4°♐26'35	
max. Earth dist.	-2038 Dec 13 j 05:17	4°♐29'33	20.78902 AU
morning rise	-2038 Dec 27 j 19:48	5°♐20'32	
retrograde	-2037 Mar 31 j 02:59	8°♐29'16	
min. Earth dist.	-2037 Jun 15 j 23:57	6°♐32'50	18.81559 AU
opposition	-2037 Jun 17 j 01:21	6°♐30'18	-0°11'09
direct	-2037 Sep 01 j 10:29	4°♐33'07	
evening set	-2037 Nov 30 j 18:45	7°♐35'52	
conjunction	-2037 Dec 16 j 09:27	8°♐30'12	-0°11'41
minimum elong	-2037 Dec 16 j 09:27	8°♐30'12	0°11'43
behind sun begin	-2037 Dec 16 j 04:46	8°♐29'32	
behind sun end	-2037 Dec 16 j 14:08	8°♐30'52	
max. Earth dist.	-2037 Dec 17 j 11:01	8°♐33'56	20.84065 AU
morning rise	-2036 Jan 01 j 02:30	9°♐24'52	
retrograde	-2036 Apr 03 j 12:12	12°♐33'15	
opposition	-2036 Jun 20 j 13:16	10°♐34'19	-0°14'38
min. Earth dist.	-2036 Jun 19 j 12:14	10°♐36'49	18.86505 AU
direct	-2036 Sep 04 j 19:11	8°♐37'22	
evening set	-2036 Dec 03 j 23:54	11°♐39'15	
conjunction	-2036 Dec 19 j 15:08	12°♐33'28	-0°14'48
minimum elong	-2036 Dec 19 j 15:08	12°♐33'28	0°14'50
behind sun begin	-2036 Dec 19 j 12:23	12°♐33'05	
behind sun end	-2036 Dec 19 j 17:52	12°♐33'52	
max. Earth dist.	-2036 Dec 20 j 17:53	12°♐37'22	20.88770 AU
morning rise	-2035 Jan 04 j 08:39	13°♐28'03	
retrograde	-2035 Apr 07 j 22:08	16°♐36'03	
min. Earth dist.	-2035 Jun 23 j 22:11	14°♐39'46	18.90965 AU
opposition	-2035 Jun 25 j 00:25	14°♐37'09	-0°18'03
direct	-2035 Sep 09 j 04:46	12°♐40'24	
evening set	-2035 Dec 08 j 04:55	15°♐41'27	
conjunction	-2035 Dec 23 j 20:27	16°♐35'34	-0°17'49
minimum elong	-2035 Dec 23 j 20:27	16°♐35'34	0°17'51
max. Earth dist.	-2035 Dec 24 j 22:49	16°♐39'23	20.92988 AU
morning rise	-2034 Jan 08 j 14:48	17°♐30'04	
retrograde	-2034 Apr 12 j 06:19	20°♐37'44	
min. Earth dist.	-2034 Jun 28 j 09:23	18°♐41'20	18.94957 AU
opposition	-2034 Jun 29 j 10:55	18°♐38'47	-0°21'20
direct	-2034 Sep 13 j 12:07	16°♐42'11	
evening set	-2034 Dec 12 j 09:23	19°♐42'28	
conjunction	-2034 Dec 28 j 01:35	20°♐36'30	-0°20'45
minimum elong	-2034 Dec 28 j 01:35	20°♐36'30	0°20'47
max. Earth dist.	-2034 Dec 29 j 04:59	20°♐40'27	20.96751 AU
morning rise	-2033 Jan 12 j 20:31	21°♐30'55	
retrograde	-2033 Apr 16 j 15:51	24°♐38'16	
opposition	-2033 Jul 03 j 20:38	22°♐39'16	-0°24'30
min. Earth dist.	-2033 Jul 02 j 18:00	22°♐41'56	18.98496 AU
direct	-2033 Sep 17 j 20:50	20°♐42'47	
evening set	-2033 Dec 16 j 13:37	23°♐42'22	
conjunction	-2032 Jan 01 j 06:11	24°♐36'19	-0°23'33
minimum elong	-2032 Jan 01 j 06:11	24°♐36'19	0°23'36
max. Earth dist.	-2032 Jan 02 j 09:17	24°♐40'13	21.00073 AU
morning rise	-2032 Jan 17 j 01:58	25°♐30'42	
retrograde	-2032 Apr 19 j 22:51	28°♐37'46	
min. Earth dist.	-2032 Jul 06 j 04:03	26°♐41'18	19.01633 AU
opposition	-2032 Jul 07 j 05:57	26°♐38'43	-0°27'32
direct	-2032 Sep 21 j 02:45	24°♐42'20	
evening set	-2032 Dec 19 j 17:31	27°♐41'17	
conjunction	-2031 Jan 04 j 10:50	28°♐35'11	-0°26'14
minimum elong	-2031 Jan 04 j 10:50	28°♐35'11	0°26'16
max. Earth dist.	-2031 Jan 05 j 14:59	28°♐39'14	21.03023 AU
morning rise	-2031 Jan 20 j 07:15	29°♐29'32	
	-2031 Jan 29 j 12:28	0°♑	
retrograde	-2031 Apr 24 j 08:09	2°♑36'21	
min. Earth dist.	-2031 Jul 10 j 11:30	0°♑39'57	19.04399 AU
opposition	-2031 Jul 11 j 14:32	0°♑37'15	-0°30'25

Attention, astronomical year style is used: The year -2031 in astronomical counting style is the year 2032 BCE in historical counting style.

	-2031 Jul 27 j 10:23	30°℞♐		
direct	-2031 Sep 25 j 10:33	28°♐40'57		
	-2031 Nov 21 j 06:42	0°♑		
evening set	-2031 Dec 23 j 21:21	1°♑39'22		
conjunction	-2030 Jan 08 j 15:12	2°♑33'13	-0°28'46	
minimum elong	-2030 Jan 08 j 15:12	2°♑33'13	0°28'50	
max. Earth dist.	-2030 Jan 09 j 18:55	2°♑37'12	21.05603 AU	
morning rise	-2030 Jan 24 j 12:35	3°♑27'34		
retrograde	-2030 Apr 28 j 14:56	6°♑34'11		
opposition	-2030 Jul 15 j 22:48	4°♑35'03	-0°33'09	
min. Earth dist.	-2030 Jul 14 j 20:40	4°♑37'39	19.06809 AU	
direct	-2030 Sep 29 j 14:59	2°♑38'50		
evening set	-2030 Dec 28 j 01:01	5°♑36'48		
conjunction	-2029 Jan 12 j 19:43	6°♑30'38	-0°31'10	
minimum elong	-2029 Jan 12 j 19:43	6°♑30'38	0°31'12	
max. Earth dist.	-2029 Jan 14 j 00:11	6°♑34'43	21.07832 AU	
morning rise	-2029 Jan 28 j 17:48	7°♑24'59		
retrograde	-2029 May 02 j 23:29	10°♑31'27		
min. Earth dist.	-2029 Jul 19 j 03:17	8°♑35'00	19.08851 AU	
opposition	-2029 Jul 20 j 06:19	8°♑32'17	-0°35'43	
direct	-2029 Oct 03 j 22:08	6°♑36'10		
evening set	-2028 Jan 01 j 04:47	9°♑33'45		
conjunction	-2028 Jan 17 j 00:04	10°♑27'36	-0°33'25	
minimum elong	-2028 Jan 17 j 00:04	10°♑27'36	0°33'28	
max. Earth dist.	-2028 Jan 18 j 03:50	10°♑31'34	21.09684 AU	
morning rise	-2028 Feb 01 j 23:09	11°♑21'58		
retrograde	-2028 May 06 j 06:44	14°♑28'21		
min. Earth dist.	-2028 Jul 22 j 11:57	12°♑31'46	19.10519 AU	
opposition	-2028 Jul 23 j 13:49	12°♑29'11	-0°38'06	
direct	-2028 Oct 07 j 01:39	10°♑33'08		
evening set	-2027 Jan 04 j 08:20	13°♑30'26		
conjunction	-2027 Jan 20 j 04:33	14°♑24'18	-0°35'30	
minimum elong	-2027 Jan 20 j 04:33	14°♑24'18	0°35'32	
max. Earth dist.	-2027 Jan 21 j 08:50	14°♑28'20	21.11157 AU	
morning rise	-2027 Feb 05 j 04:27	15°♑18'42		
retrograde	-2027 May 10 j 15:00	18°♑25'02		
opposition	-2027 Jul 27 j 20:51	16°♑25'52	-0°40'19	
min. Earth dist.	-2027 Jul 26 j 18:20	16°♑28'31	19.11777 AU	
direct	-2027 Oct 11 j 08:01	14°♑29'55		
evening set	-2026 Jan 08 j 12:21	17°♑26'59		
conjunction	-2026 Jan 24 j 09:16	18°♑20'54	-0°37'26	
minimum elong	-2026 Jan 24 j 09:16	18°♑20'54	0°37'28	
max. Earth dist.	-2026 Jan 25 j 12:28	18°♑24'46	21.12193 AU	
morning rise	-2026 Feb 09 j 10:13	19°♑15'21		
retrograde	-2026 May 14 j 22:31	22°♑21'42		
min. Earth dist.	-2026 Jul 31 j 02:48	20°♑25'01	19.12590 AU	
opposition	-2026 Aug 01 j 03:38	20°♑22'31	-0°42'21	
direct	-2026 Oct 15 j 11:18	18°♑26'37		
evening set	-2025 Jan 12 j 16:26	21°♑23'34		
conjunction	-2025 Jan 28 j 14:21	22°♑17'33	-0°39'11	
minimum elong	-2025 Jan 28 j 14:21	22°♑17'33	0°39'14	
max. Earth dist.	-2025 Jan 29 j 17:31	22°♑21'25	21.12769 AU	
morning rise	-2025 Feb 13 j 16:07	23°♑12'04		
retrograde	-2025 May 19 j 06:58	26°♑18'27		
min. Earth dist.	-2025 Aug 04 j 09:08	24°♑21'48	19.12907 AU	
opposition	-2025 Aug 05 j 10:09	24°♑19'17	-0°44'11	
direct	-2025 Oct 19 j 16:40	22°♑23'24		
evening set	-2024 Jan 16 j 20:51	25°♑20'19		
conjunction	-2024 Feb 01 j 19:29	26°♑14'21	-0°40'45	
minimum elong	-2024 Feb 01 j 19:29	26°♑14'21	0°40'47	
max. Earth dist.	-2024 Feb 02 j 21:10	26°♑18'01	21.12815 AU	
morning rise	-2024 Feb 17 j 22:18	27°♑08'59		
	-2024 Apr 27 j 04:24	0°♒		
retrograde	-2024 May 22 j 14:17	0°♒15'28		
	-2024 Jun 17 j 06:27	30°℞♑		
opposition	-2024 Aug 08 j 16:46	28°♑16'15	-0°45'48	
min. Earth dist.	-2024 Aug 07 j 17:45	28°♑18'34	19.12682 AU	
direct	-2024 Oct 22 j 20:21	26°♑20'22		
evening set	-2023 Jan 20 j 01:33	29°♑17'18		
	-2023 Feb 01 j 16:54	0°♒		
conjunction	-2023 Feb 05 j 01:16	0°♒11'26	-0°42'07	
minimum elong	-2023 Feb 05 j 01:16	0°♒11'26	0°42'10	
max. Earth dist.	-2023 Feb 06 j 02:29	0°♒15'02	21.12309 AU	
morning rise	-2023 Feb 21 j 04:57	1°♒06'09		
retrograde	-2023 May 26 j 23:27	4°♒12'45		
opposition	-2023 Aug 12 j 23:00	2°♒13'29	-0°47'13	
min. Earth dist.	-2023 Aug 12 j 00:10	2°♒15'47	19.11877 AU	
direct	-2023 Oct 27 j 01:27	0°♒17'32		
evening set	-2022 Jan 24 j 06:44	3°♒14'33		
conjunction	-2022 Feb 09 j 07:18	4°♒08'49	-0°43'18	
minimum elong	-2022 Feb 09 j 07:18	4°♒08'49	0°43'19	
max. Earth dist.	-2022 Feb 10 j 06:35	4°♒12'07	21.11203 AU	
morning rise	-2022 Feb 25 j 12:06	5°♒03'39		
retrograde	-2022 May 31 j 06:30	8°♒10'23		
min. Earth dist.	-2022 Aug 16 j 08:51	6°♒13'06	19.10472 AU	
opposition	-2022 Aug 17 j 05:21	6°♒11'02	-0°48'24	
direct	-2022 Oct 31 j 05:14	4°♒14'58		
evening set	-2021 Jan 28 j 12:06	7°♒12'08		
conjunction	-2021 Feb 13 j 13:47	8°♒06'31	-0°44'16	
minimum elong	-2021 Feb 13 j 13:47	8°♒06'31	0°44'18	
max. Earth dist.	-2021 Feb 14 j 12:18	8°♒09'43	21.09511 AU	
morning rise	-2021 Mar 01 j 19:27	9°♒01'29		
retrograde	-2021 Jun 04 j 16:02	12°♒08'22		
opposition	-2021 Aug 21 j 11:18	10°♒08'54	-0°49'21	
min. Earth dist.	-2021 Aug 20 j 15:07	10°♒10'56	19.08489 AU	
direct	-2021 Nov 04 j 10:49	8°♒12'41		
evening set	-2020 Feb 01 j 17:54	11°♒10'03		
conjunction	-2020 Feb 17 j 20:28	12°♒04'35	-0°45'01	
minimum elong	-2020 Feb 17 j 20:28	12°♒04'35	0°45'03	
max. Earth dist.	-2020 Feb 18 j 17:03	12°♒07'31	21.07264 AU	
morning rise	-2020 Mar 05 j 03:14	12°♒59'42		
	-2020 Apr 15 j 06:16	15°♒		
retrograde	-2020 Jun 07 j 22:48	16°♒06'47		
	-2020 Aug 02 j 04:54	15°℞♒		
opposition	-2020 Aug 24 j 17:25	14°♒07'10	-0°50'04	
min. Earth dist.	-2020 Aug 23 j 23:34	14°♒08'58	19.05992 AU	
direct	-2020 Nov 07 j 14:10	12°♒10'45		
	-2019 Feb 02 j 10:59	15°♒		
evening set	-2019 Feb 04 j 23:53	15°♒08'24		
conjunction	-2019 Feb 21 j 03:38	16°♒03'06	-0°45'33	
minimum elong	-2019 Feb 21 j 03:38	16°♒03'06	0°45'35	
max. Earth dist.	-2019 Feb 21 j 23:31	16°♒05'56	21.04540 AU	
morning rise	-2019 Mar 09 j 11:20	16°♒58'23		
retrograde	-2019 Jun 12 j 08:43	20°♒05'41		
opposition	-2019 Aug 28 j 23:19	18°♒05'55	-0°50'32	
min. Earth dist.	-2019 Aug 28 j 05:48	18°♒07'41	19.03037 AU	
direct	-2019 Nov 11 j 20:26	16°♒09'17		
evening set	-2018 Feb 09 j 06:37	19°♒07'18		
conjunction	-2018 Feb 25 j 11:16	20°♒02'11	-0°45'52	
minimum elong	-2018 Feb 25 j 11:16	20°♒02'11	0°45'54	
max. Earth dist.	-2018 Feb 26 j 05:12	20°♒04'44	21.01373 AU	

Attention, astronomical year style is used: The year -2018 in astronomical counting style is the year 2019 BCE in historical counting style.

morning rise	-2018 Mar 13 j 20:03	20°♒57'38	
retrograde	-2018 Jun 16 j 15:40	24°♒05'12	
opposition	-2018 Sep 02 j 05:16	22°♒05'17	-0°50'46
min. Earth dist.	-2018 Sep 01 j 14:06	22°♒06'50	18.99677 AU
direct	-2018 Nov 15 j 23:42	20°♒08'25	
evening set	-2017 Feb 13 j 13:40	23°♒06'53	
conjunction	-2017 Mar 01 j 19:28	24°♒01'58	-0°45'58
minimum elong	-2017 Mar 01 j 19:29	24°♒01'58	0°45'59
max. Earth dist.	-2017 Mar 02 j 12:33	24°♒04'24	20.97837 AU
morning rise	-2017 Mar 18 j 05:08	24°♒57'36	
retrograde	-2017 Jun 21 j 01:58	28°♒05'29	
opposition	-2017 Sep 06 j 11:16	26°♒05'25	-0°50'46
min. Earth dist.	-2017 Sep 05 j 20:22	26°♒06'57	18.95961 AU
direct	-2017 Nov 20 j 06:09	24°♒08'20	
evening set	-2016 Feb 17 j 21:15	27°♒07'20	
conjunction	-2016 Mar 05 j 03:59	28°♒02'37	-0°45'51
minimum elong	-2016 Mar 05 j 03:59	28°♒02'37	0°45'52
max. Earth dist.	-2016 Mar 05 j 19:10	28°♒04'47	20.93954 AU
morning rise	-2016 Mar 21 j 14:42	28°♒58'28	
	-2016 Apr 09 j 21:34	0°♓	
retrograde	-2016 Jun 24 j 09:56	2°♓06'43	
opposition	-2016 Sep 09 j 17:38	0°♓06'30	-0°50'31
min. Earth dist.	-2016 Sep 09 j 05:01	0°♓07'48	18.91922 AU
	-2016 Sep 12 j 09:05	30°℞♒	
direct	-2016 Nov 23 j 10:06	28°♒09'11	
	-2015 Jan 30 j 12:01	0°♓	
evening set	-2015 Feb 21 j 05:31	1°♓08'47	
conjunction	-2015 Mar 09 j 13:26	2°♓04'18	-0°45'30
minimum elong	-2015 Mar 09 j 13:26	2°♓04'18	0°45'30
max. Earth dist.	-2015 Mar 10 j 03:33	2°♓06'19	20.89773 AU
morning rise	-2015 Mar 26 j 01:02	3°♓00'22	
retrograde	-2015 Jun 28 j 20:51	6°♓09'00	
opposition	-2015 Sep 13 j 23:56	4°♓08'42	-0°50'01
min. Earth dist.	-2015 Sep 13 j 11:46	4°♓09'57	18.87585 AU
direct	-2015 Nov 27 j 16:36	2°♓11'08	
evening set	-2014 Feb 25 j 14:40	5°♓11'26	
conjunction	-2014 Mar 13 j 23:32	6°♓07'11	-0°44'55
minimum elong	-2014 Mar 13 j 23:32	6°♓07'12	0°44'57
max. Earth dist.	-2014 Mar 14 j 11:34	6°♓08'55	20.85286 AU
morning rise	-2014 Mar 30 j 12:07	7°♓03'29	
retrograde	-2014 Jul 03 j 06:17	10°♓12'33	
opposition	-2014 Sep 18 j 06:47	8°♓12'09	-0°49'16
min. Earth dist.	-2014 Sep 17 j 21:04	8°♓13'09	18.82949 AU
direct	-2014 Dec 01 j 21:18	6°♓14'22	
evening set	-2013 Mar 02 j 00:22	9°♓15'25	
conjunction	-2013 Mar 18 j 10:21	10°♓11'26	-0°44'07
minimum elong	-2013 Mar 18 j 10:21	10°♓11'26	0°44'08
max. Earth dist.	-2013 Mar 18 j 21:02	10°♓12'58	20.80514 AU
morning rise	-2013 Apr 03 j 23:45	11°♓07'57	
retrograde	-2013 Jul 07 j 18:10	14°♓17'31	
opposition	-2013 Sep 22 j 13:46	12°♓17'02	-0°48'16
min. Earth dist.	-2013 Sep 22 j 04:42	12°♓17'58	18.78017 AU
direct	-2013 Dec 06 j 04:32	10°♓19'01	
evening set	-2012 Mar 05 j 11:07	13°♓20'54	
conjunction	-2012 Mar 21 j 22:01	14°♓17'11	-0°43'06
minimum elong	-2012 Mar 21 j 22:01	14°♓17'11	0°43'07
max. Earth dist.	-2012 Mar 22 j 06:31	14°♓18'24	20.75426 AU
morning rise	-2012 Apr 07 j 12:18	15°♓13'57	
retrograde	-2012 Jul 11 j 04:49	18°♓24'01	
opposition	-2012 Sep 25 j 21:18	16°♓23'27	-0°47'01
min. Earth dist.	-2012 Sep 25 j 14:59	16°♓24'06	18.72769 AU
direct	-2012 Dec 09 j 10:02	14°♓25'11	
evening set	-2011 Mar 09 j 22:40	17°♓27'58	
conjunction	-2011 Mar 26 j 10:40	18°♓24'32	-0°41'50
minimum elong	-2011 Mar 26 j 10:40	18°♓24'32	0°41'51
max. Earth dist.	-2011 Mar 26 j 17:15	18°♓25'29	20.70019 AU
morning rise	-2011 Apr 12 j 01:45	19°♓21'33	
retrograde	-2011 Jul 15 j 18:23	22°♓32'08	
opposition	-2011 Sep 30 j 05:10	20°♓31'29	-0°45'30
min. Earth dist.	-2011 Sep 29 j 23:55	20°♓32'02	18.67175 AU
direct	-2011 Dec 13 j 18:32	18°♓32'55	
evening set	-2010 Mar 14 j 11:20	21°♓36'40	
conjunction	-2010 Mar 31 j 00:14	22°♓33'31	-0°40'21
minimum elong	-2010 Mar 31 j 00:14	22°♓33'31	0°40'21
max. Earth dist.	-2010 Mar 31 j 04:18	22°♓34'06	20.64232 AU
morning rise	-2010 Apr 16 j 16:03	23°♓30'49	
retrograde	-2010 Jul 20 j 06:03	26°♓41'56	
opposition	-2010 Oct 04 j 13:35	24°♓41'10	-0°43'45
min. Earth dist.	-2010 Oct 04 j 11:18	24°♓41'24	18.61202 AU
direct	-2010 Dec 18 j 01:31	22°♓42'16	
evening set	-2009 Mar 19 j 00:47	25°♓47'00	
conjunction	-2009 Apr 04 j 14:39	26°♓44'09	-0°38'39
minimum elong	-2009 Apr 04 j 14:39	26°♓44'09	0°38'39
max. Earth dist.	-2009 Apr 04 j 16:21	26°♓44'24	20.58088 AU
morning rise	-2009 Apr 21 j 07:11	27°♓41'43	
	-2009 Jun 08 j 01:18	0°♈	
retrograde	-2009 Jul 24 j 20:40	0°♈53'22	
	-2009 Sep 10 j 09:49	30°℞♓	
opposition	-2009 Oct 08 j 22:29	28°♓52'27	-0°41'45
min. Earth dist.	-2009 Oct 08 j 21:22	28°♓52'34	18.54873 AU
direct	-2009 Dec 22 j 11:15	26°♓53'11	
evening set	-2008 Mar 22 j 15:00	29°♓58'57	
	-2008 Mar 22 j 22:26	0°♈	
conjunction	-2008 Apr 08 j 05:46	0°♈56'25	-0°36'43
minimum elong	-2008 Apr 08 j 05:46	0°♈56'25	0°36'42
max. Earth dist.	-2008 Apr 08 j 05:06	0°♈56'19	20.51586 AU
morning rise	-2008 Apr 24 j 22:57	1°♈54'14	
retrograde	-2008 Jul 28 j 09:37	5°♈06'26	
opposition	-2008 Oct 12 j 08:00	3°♈05'21	-0°39'30
min. Earth dist.	-2008 Oct 12 j 09:45	3°♈05'10	18.48213 AU
direct	-2008 Dec 25 j 20:04	1°♈05'40	
evening set	-2007 Mar 27 j 06:15	4°♈12'30	
conjunction	-2007 Apr 12 j 21:54	5°♈10'16	-0°34'34
minimum elong	-2007 Apr 12 j 21:54	5°♈10'16	0°34'34
max. Earth dist.	-2007 Apr 12 j 18:42	5°♈09'48	20.44801 AU
morning rise	-2007 Apr 29 j 15:45	6°♈08'23	
retrograde	-2007 Aug 02 j 00:45	9°♈21'07	
opposition	-2007 Oct 16 j 17:45	7°♈19'50	-0°37'01
min. Earth dist.	-2007 Oct 16 j 20:47	7°♈19'31	18.41300 AU
direct	-2007 Dec 30 j 07:06	5°♈19'43	
evening set	-2006 Mar 31 j 22:26	8°♈27'41	
conjunction	-2006 Apr 17 j 14:53	9°♈25'46	-0°32'13
minimum elong	-2006 Apr 17 j 14:53	9°♈25'46	0°32'13
max. Earth dist.	-2006 Apr 17 j 09:37	9°♈25'00	20.37778 AU
morning rise	-2006 May 04 j 09:10	10°♈24'09	
retrograde	-2006 Aug 06 j 14:56	13°♈37'26	
opposition	-2006 Oct 21 j 04:15	11°♈35'58	-0°34'20
min. Earth dist.	-2006 Oct 21 j 09:54	11°♈35'22	18.34194 AU
direct	-2005 Jan 03 j 17:31	9°♈35'24	
evening set	-2005 Apr 05 j 15:17	12°♈44'31	
conjunction	-2005 Apr 22 j 08:26	13°♈42'55	-0°29'41

Attention, astronomical year style is used: The year -2005 in astronomical counting style is the year 2006 BCE in historical counting style.

minimum elong	-2005 Apr 22 j 08:26	13°♈42'55	0°29'40
max. Earth dist.	-2005 Apr 22 j 00:41	13°♈41'47	20.30619 AU
morning rise	-2005 May 09 j 03:14	14°♈41'35	
retrograde	-2005 Aug 11 j 06:52	17°♈55'27	
opposition	-2005 Oct 25 j 15:12	15°♈53'47	-0°31'25
min. Earth dist.	-2005 Oct 25 j 21:56	15°♈53'04	18.26989 AU
direct	-2004 Jan 08 j 05:55	13°♈52'45	
evening set	-2004 Apr 09 j 09:11	17°♈03'06	
conjunction	-2004 Apr 26 j 03:03	18°♈01'49	-0°26'58
minimum elong	-2004 Apr 26 j 03:03	18°♈01'49	0°26'57
max. Earth dist.	-2004 Apr 25 j 17:44	18°♈00'27	20.23380 AU
morning rise	-2004 May 12 j 22:07	19°♈00'46	
retrograde	-2004 Aug 14 j 22:20	22°♈15'13	
opposition	-2004 Oct 29 j 02:48	20°♈13'22	-0°28'19
min. Earth dist.	-2004 Oct 29 j 11:48	20°♈12'24	18.19746 AU
direct	-2003 Jan 11 j 17:47	18°♈11'54	
evening set	-2003 Apr 14 j 04:03	21°♈23'30	
conjunction	-2003 Apr 30 j 22:27	22°♈22'32	-0°24'04
minimum elong	-2003 Apr 30 j 22:27	22°♈22'32	0°24'03
max. Earth dist.	-2003 Apr 30 j 10:29	22°♈20'46	20.16153 AU
morning rise	-2003 May 17 j 17:57	23°♈21'46	
retrograde	-2003 Aug 19 j 15:28	26°♈36'49	
opposition	-2003 Nov 02 j 15:03	24°♈34'49	-0°25'02
min. Earth dist.	-2003 Nov 03 j 01:07	24°♈33'44	18.12545 AU
direct	-2002 Jan 16 j 07:38	22°♈32'55	
evening set	-2002 Apr 18 j 23:49	25°♈45'50	
conjunction	-2002 May 05 j 18:48	26°♈45'11	-0°21'02
minimum elong	-2002 May 05 j 18:48	26°♈45'11	0°21'01
max. Earth dist.	-2002 May 05 j 05:41	26°♈43'14	20.08978 AU
morning rise	-2002 May 22 j 14:18	27°♈44'40	
	-2002 Jul 06 j 11:44	0°♉	
retrograde	-2002 Aug 24 j 08:29	1°♉00'20	
	-2002 Oct 13 j 00:57	30°℞♈	
opposition	-2002 Nov 07 j 04:05	28°♈58'14	-0°21'34
min. Earth dist.	-2002 Nov 07 j 16:02	28°♈56'57	18.05426 AU
direct	-2001 Jan 20 j 21:02	26°♈55'56	
	-2001 Apr 20 j 22:05	0°♉	
evening set	-2001 Apr 23 j 20:35	0°♉10'11	
conjunction	-2001 May 10 j 15:53	1°♉09'51	-0°17'50
minimum elong	-2001 May 10 j 15:53	1°♉09'51	0°17'49
max. Earth dist.	-2001 May 10 j 00:05	1°♉07'30	20.01938 AU
morning rise	-2001 May 27 j 11:38	2°♉09'36	
retrograde	-2001 Aug 29 j 02:45	5°♉25'55	
opposition	-2001 Nov 11 j 17:48	3°♉23'42	-0°17'58
min. Earth dist.	-2001 Nov 12 j 06:51	3°♉22'18	17.98468 AU
direct	-2000 Jan 25 j 12:35	1°♉21'02	
evening set	-2000 Apr 27 j 18:09	4°♉36'39	
conjunction	-2000 May 14 j 13:58	5°♉36'37	-0°14'31
minimum elong	-2000 May 14 j 13:58	5°♉36'37	0°14'30
behind sun begin	-2000 May 14 j 11:15	5°♉36'13	
behind sun end	-2000 May 14 j 16:41	5°♉37'01	
max. Earth dist.	-2000 May 13 j 21:25	5°♉34'09	19.95054 AU
morning rise	-2000 May 31 j 09:35	6°♉36'38	
retrograde	-2000 Sep 01 j 21:15	9°♉53'34	
opposition	-2000 Nov 15 j 08:26	7°♉51'20	-0°14'13
min. Earth dist.	-2000 Nov 15 j 23:10	7°♉49'44	17.91665 AU
direct	-1999 Jan 29 j 03:42	5°♉48'19	
evening set	-1999 May 02 j 17:01	9°♉05'19	
conjunction	-1999 May 19 j 12:55	10°♉05'35	-0°11'06
minimum elong	-1999 May 19 j 12:55	10°♉05'35	0°11'04
behind sun begin	-1999 May 19 j 07:56	10°♉04'51	
behind sun end	-1999 May 19 j 17:55	10°♉06'19	
max. Earth dist.	-1999 May 18 j 17:31	10°♉02'40	19.88343 AU
morning rise	-1999 Jun 05 j 08:37	11°♉05'51	
retrograde	-1999 Sep 06 j 16:44	14°♉23'26	
opposition	-1999 Nov 19 j 23:44	12°♉21'09	-0°10'21
min. Earth dist.	-1999 Nov 20 j 15:55	12°♉19'24	17.85044 AU
direct	-1998 Feb 02 j 21:40	10°♉17'48	
evening set	-1998 May 07 j 16:44	13°♉36'12	
conjunction	-1998 May 24 j 12:56	14°♉36'45	-0°07'35
minimum elong	-1998 May 24 j 12:55	14°♉36'45	0°07'32
behind sun begin	-1998 May 24 j 06:46	14°♉35'51	
behind sun end	-1998 May 24 j 19:05	14°♉37'40	
max. Earth dist.	-1998 May 23 j 16:53	14°♉33'44	19.81794 AU
	-1998 May 30 j 22:51	15°♉	
morning rise	-1998 Jun 10 j 08:13	15°♉37'14	
retrograde	-1998 Sep 11 j 12:28	18°♉55'26	
opposition	-1998 Nov 24 j 16:05	16°♉53'09	-0°06'22
min. Earth dist.	-1998 Nov 25 j 09:44	16°♉51'14	17.78574 AU
	-1997 Jan 18 j 16:53	15°℞♉	
direct	-1997 Feb 07 j 15:16	14°♉49'28	
	-1997 Feb 27 j 12:57	15°♉	
evening set	-1997 May 12 j 17:21	18°♉09'14	
conjunction	-1997 May 29 j 13:23	19°♉10'03	-0°03'59
minimum elong	-1997 May 29 j 13:23	19°♉10'03	0°03'57
behind sun begin	-1997 May 29 j 06:41	19°♉09'03	
behind sun end	-1997 May 29 j 20:06	19°♉11'02	
max. Earth dist.	-1997 May 28 j 14:27	19°♉06'34	19.75403 AU
morning rise	-1997 Jun 15 j 08:33	20°♉10'45	
retrograde	-1997 Sep 16 j 08:57	23°♉29'33	
opposition	-1997 Nov 29 j 09:17	21°♉27'13	-0°02'20
min. Earth dist.	-1997 Nov 30 j 04:34	21°♉25'07	17.72273 AU
direct	-1996 Feb 12 j 11:22	19°♉23'11	
evening set	-1996 May 16 j 18:50	22°♉44'18	
conjunction	-1996 Jun 02 j 14:59	23°♉45'21	-0°00'15
minimum elong	-1996 Jun 02 j 14:59	23°♉45'21	0°00'13
behind sun begin	-1996 Jun 02 j 08:16	23°♉44'21	
behind sun end	-1996 Jun 02 j 21:42	23°♉46'21	
max. Earth dist.	-1996 Jun 01 j 15:28	23°♉41'47	19.69171 AU
morning rise	-1996 Jun 19 j 09:35	24°♉46'15	
asc. node	-1996 Jun 27 j 13:21	25°♉14'55	
retrograde	-1996 Sep 20 j 06:18	28°♉05'35	
opposition	-1996 Dec 03 j 03:11	26°♉03'13	0°01'46
min. Earth dist.	-1996 Dec 03 j 23:37	26°♉00'59	17.66126 AU
direct	-1995 Feb 16 j 07:47	23°♉58'50	
evening set	-1995 May 21 j 21:18	27°♉21'14	
conjunction	-1995 Jun 07 j 17:07	28°♉22'30	0°03'31
minimum elong	-1995 Jun 07 j 17:07	28°♉22'30	0°03'33
behind sun begin	-1995 Jun 07 j 10:23	28°♉21'30	
behind sun end	-1995 Jun 07 j 23:51	28°♉23'31	
max. Earth dist.	-1995 Jun 06 j 14:49	28°♉18'29	19.63119 AU
morning rise	-1995 Jun 24 j 11:20	29°♉23'35	
	-1995 Jul 04 j 20:05	0°♊	
retrograde	-1995 Sep 25 j 03:37	2°♊43'25	
opposition	-1995 Dec 07 j 22:03	0°♊40'59	0°05'52
min. Earth dist.	-1995 Dec 08 j 20:13	0°♊38'35	17.60192 AU
	-1995 Dec 23 j 20:48	30°℞♉	
direct	-1994 Feb 21 j 05:10	28°♉36'14	
	-1994 Apr 19 j 20:23	0°♊	
evening set	-1994 May 27 j 00:09	1°♊59'52	
conjunction	-1994 Jun 12 j 19:48	3°♊01'21	0°07'11
minimum elong	-1994 Jun 12 j 19:49	3°♊01'21	0°07'13
behind sun begin	-1994 Jun 12 j 13:36	3°♊00'25	

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

behind sun end	-1994 Jun	13 j 02:02	3°♊02'17	
max. Earth dist.	-1994 Jun	11 j 17:13	2°♊57'16	19.57298 AU
morning rise	-1994 Jun	29 j 13:18	4°♊02'34	
retrograde	-1994 Sep	30 j 02:55	7°♊22'52	
opposition	-1994 Dec	12 j 17:36	5°♊20'23	0°09'58
min. Earth dist.	-1994 Dec	13 j 16:17	5°♊17'54	17.54507 AU
direct	-1993 Feb	26 j 03:52	3°♊15'15	
evening set	-1993 Jun	01 j 03:46	6°♊40'03	
conjunction	-1993 Jun	17 j 22:54	7°♊41'42	0°10'50
minimum elong	-1993 Jun	17 j 22:54	7°♊41'42	0°10'52
behind sun begin	-1993 Jun	17 j 17:49	7°♊40'56	
behind sun end	-1993 Jun	18 j 03:59	7°♊42'28	
max. Earth dist.	-1993 Jun	16 j 18:16	7°♊37'18	19.51768 AU
morning rise	-1993 Jul	04 j 15:46	8°♊43'05	
retrograde	-1993 Oct	05 j 00:37	12°♊03'47	
opposition	-1993 Dec	17 j 13:52	10°♊01'13	0°14'01
min. Earth dist.	-1993 Dec	18 j 14:10	9°♊58'33	17.49166 AU
direct	-1992 Mar	02 j 01:49	7°♊55'43	
evening set	-1992 Jun	05 j 07:44	11°♊21'37	
max. Earth dist.	-1992 Jun	20 j 21:48	12°♊18'59	19.46613 AU
conjunction	-1992 Jun	22 j 02:30	12°♊23'26	0°14'25
minimum elong	-1992 Jun	22 j 02:30	12°♊23'26	0°14'27
behind sun begin	-1992 Jun	21 j 23:41	12°♊23'00	
behind sun end	-1992 Jun	22 j 05:19	12°♊23'51	
morning rise	-1992 Jul	08 j 18:35	13°♊24'54	
retrograde	-1992 Oct	09 j 01:27	16°♊45'58	
opposition	-1992 Dec	21 j 10:50	14°♊43'20	0°17'59
min. Earth dist.	-1992 Dec	22 j 11:04	14°♊40'40	17.44212 AU
direct	-1991 Mar	07 j 02:22	12°♊37'30	
evening set	-1991 Jun	10 j 12:16	16°♊04'25	
max. Earth dist.	-1991 Jun	26 j 00:30	17°♊01'44	19.41877 AU
conjunction	-1991 Jun	27 j 06:20	17°♊06'22	0°17'55
minimum elong	-1991 Jun	27 j 06:20	17°♊06'22	0°17'59
morning rise	-1991 Jul	13 j 21:31	18°♊07'56	
retrograde	-1991 Oct	13 j 23:20	21°♊29'19	
opposition	-1991 Dec	26 j 08:33	19°♊26'37	0°21'51
min. Earth dist.	-1991 Dec	27 j 10:09	19°♊23'48	17.39733 AU
direct	-1990 Mar	12 j 01:35	17°♊20'27	
evening set	-1990 Jun	15 j 17:00	20°♊48'20	
max. Earth dist.	-1990 Jul	01 j 04:40	21°♊45'44	19.37659 AU
conjunction	-1990 Jul	02 j 10:23	21°♊50'22	0°21'19
minimum elong	-1990 Jul	02 j 10:23	21°♊50'22	0°21'22
morning rise	-1990 Jul	19 j 00:38	22°♊51'59	
retrograde	-1990 Oct	19 j 00:27	26°♊13'40	
opposition	-1990 Dec	31 j 06:55	24°♊10'55	0°25'34
min. Earth dist.	-1989 Jan	01 j 07:42	24°♊08'12	17.35794 AU
direct	-1989 Mar	17 j 03:35	22°♊04'30	
evening set	-1989 Jun	20 j 21:52	25°♊33'13	
max. Earth dist.	-1989 Jul	06 j 08:46	26°♊30'42	19.34004 AU
conjunction	-1989 Jul	07 j 14:29	26°♊35'20	0°24'35
minimum elong	-1989 Jul	07 j 14:29	26°♊35'20	0°24'37
morning rise	-1989 Jul	24 j 03:39	27°♊36'59	
	-1989 Sep	07 j 11:03	0°♋	
retrograde	-1989 Oct	23 j 22:49	0°♋58'55	
	-1989 Dec	10 j 17:52	30°℞♊	
opposition	-1988 Jan	05 j 06:03	28°♊56'10	0°29'08
min. Earth dist.	-1988 Jan	06 j 07:46	28°♊53'20	17.32455 AU
direct	-1988 Mar	21 j 04:12	26°♊49'33	
	-1988 Jun	19 j 21:11	0°♋	
evening set	-1988 Jun	25 j 03:08	0°♋19'03	
conjunction	-1988 Jul	11 j 18:48	1°♋21'12	0°27'42
minimum elong	-1988 Jul	11 j 18:48	1°♋21'12	0°27'44
max. Earth dist.	-1988 Jul	10 j 13:06	1°♋16'32	19.30983 AU
morning rise	-1988 Jul	28 j 06:59	2°♋22'51	
retrograde	-1988 Oct	28 j 00:11	5°♋45'00	
opposition	-1987 Jan	09 j 05:32	3°♋42'16	0°32'30
min. Earth dist.	-1987 Jan	10 j 06:04	3°♋39'35	17.29755 AU
direct	-1987 Mar	26 j 07:45	1°♋35'32	
evening set	-1987 Jun	30 j 08:32	5°♋05'44	
conjunction	-1987 Jul	16 j 23:18	6°♋07'53	0°30'37
minimum elong	-1987 Jul	16 j 23:18	6°♋07'53	0°30'39
max. Earth dist.	-1987 Jul	15 j 18:31	6°♋03'22	19.28604 AU
morning rise	-1987 Aug	02 j 10:11	7°♋09'31	
retrograde	-1987 Nov	01 j 23:15	10°♋31'51	
opposition	-1986 Jan	14 j 05:57	8°♋29'13	0°35'40
min. Earth dist.	-1986 Jan	15 j 07:07	8°♋26'27	17.27708 AU
direct	-1986 Mar	31 j 09:32	6°♋22'24	
evening set	-1986 Jul	05 j 13:53	9°♋53'12	
max. Earth dist.	-1986 Jul	20 j 22:42	10°♋50'47	19.26887 AU
conjunction	-1986 Jul	22 j 03:29	10°♋55'19	0°33'20
minimum elong	-1986 Jul	22 j 03:29	10°♋55'19	0°33'23
morning rise	-1986 Aug	07 j 13:20	11°♋56'54	
retrograde	-1986 Nov	07 j 00:59	15°♋19'25	
opposition	-1985 Jan	19 j 06:44	13°♋16'53	0°38'35
min. Earth dist.	-1985 Jan	20 j 06:31	13°♋14'17	17.26305 AU
direct	-1985 Apr	05 j 14:07	11°♋10'04	
evening set	-1985 Jul	10 j 19:14	14°♋41'20	
max. Earth dist.	-1985 Jul	26 j 04:40	15°♋39'08	19.25785 AU
conjunction	-1985 Jul	27 j 07:52	15°♋43'25	0°35'50
minimum elong	-1985 Jul	27 j 07:52	15°♋43'25	0°35'53
morning rise	-1985 Aug	12 j 16:20	16°♋44'56	
retrograde	-1985 Nov	12 j 00:48	20°♋07'31	
opposition	-1984 Jan	24 j 08:04	18°♋05'08	0°41'15
min. Earth dist.	-1984 Jan	25 j 08:17	18°♋02'29	17.25501 AU
direct	-1984 Apr	09 j 17:20	15°♋58'21	
evening set	-1984 Jul	15 j 00:42	19°♋29'59	
max. Earth dist.	-1984 Jul	30 j 08:29	20°♋27'39	19.25271 AU
conjunction	-1984 Jul	31 j 12:00	20°♋32'00	0°38'06
minimum elong	-1984 Jul	31 j 12:00	20°♋31'59	0°38'08
morning rise	-1984 Aug	16 j 19:23	21°♋33'25	
retrograde	-1984 Nov	16 j 02:24	24°♋56'03	
opposition	-1983 Jan	28 j 09:53	22°♋53'48	0°43'38
min. Earth dist.	-1983 Jan	29 j 08:48	22°♋51'18	17.25265 AU
direct	-1983 Apr	14 j 22:36	20°♋47'03	
evening set	-1983 Jul	20 j 05:45	24°♋18'56	
conjunction	-1983 Aug	05 j 15:59	25°♋20'49	0°40'05
minimum elong	-1983 Aug	05 j 15:59	25°♋20'49	0°40'08
max. Earth dist.	-1983 Aug	04 j 14:27	25°♋16'47	19.25294 AU
morning rise	-1983 Aug	21 j 21:53	26°♋22'07	
retrograde	-1983 Nov	21 j 02:47	29°♋44'44	
opposition	-1982 Feb	02 j 12:15	27°♋42'37	0°45'42
min. Earth dist.	-1982 Feb	03 j 11:03	27°♋40'08	17.25547 AU
direct	-1982 Apr	20 j 02:54	25°♋35'57	
evening set	-1982 Jul	25 j 10:40	29°♋07'54	
	-1982 Aug	08 j 06:32	0°♌	
conjunction	-1982 Aug	10 j 19:28	0°♌09'40	0°41'48
minimum elong	-1982 Aug	10 j 19:28	0°♌09'39	0°41'50
max. Earth dist.	-1982 Aug	09 j 17:46	0°♌05'35	19.25839 AU
morning rise	-1982 Aug	27 j 00:16	1°♌10'49	
retrograde	-1982 Nov	26 j 04:15	4°♌33'21	
opposition	-1981 Feb	07 j 14:45	2°♌31'20	0°47'27
min. Earth dist.	-1981 Feb	08 j 12:17	2°♌29'00	17.26352 AU

Attention, astronomical year style is used: The year -1981 in astronomical counting style is the year 1982 BCE in historical counting style.

direct	-1981 Apr 25 j 07:58	0°♌24'45	
evening set	-1981 Jul 30 j 14:52	3°♌56'39	
conjunction	-1981 Aug 15 j 22:36	4°♌58'15	0°43'13
minimum elong	-1981 Aug 15 j 22:36	4°♌58'15	0°43'15
max. Earth dist.	-1981 Aug 14 j 23:09	4°♌54'32	19.26888 AU
morning rise	-1981 Sep 01 j 02:01	5°♌59'15	
retrograde	-1981 Dec 01 j 04:55	9°♌21'37	
opposition	-1980 Feb 12 j 17:32	7°♌19'43	0°48'51
min. Earth dist.	-1980 Feb 13 j 14:19	7°♌17'28	17.27635 AU
direct	-1980 Apr 29 j 12:14	5°♌13'15	
evening set	-1980 Aug 03 j 18:49	8°♌44'56	
max. Earth dist.	-1980 Aug 19 j 01:53	9°♌42'40	19.28423 AU
conjunction	-1980 Aug 20 j 01:07	9°♌46'21	0°44'19
minimum elong	-1980 Aug 20 j 01:07	9°♌46'21	0°44'21
morning rise	-1980 Sep 05 j 03:23	10°♌47'09	
retrograde	-1980 Dec 05 j 05:52	14°♌09'20	
opposition	-1979 Feb 16 j 20:19	12°♌07'30	0°49'54
min. Earth dist.	-1979 Feb 17 j 15:58	12°♌05'23	17.29423 AU
direct	-1979 May 04 j 16:57	10°♌01'08	
evening set	-1979 Aug 08 j 21:55	13°♌32'30	
max. Earth dist.	-1979 Aug 24 j 06:18	14°♌30'24	19.30466 AU
conjunction	-1979 Aug 25 j 03:05	14°♌33'42	0°45'07
minimum elong	-1979 Aug 25 j 03:05	14°♌33'42	0°45'08
	-1979 Sep 01 j 01:02	15°♌	
morning rise	-1979 Sep 10 j 04:03	15°♌34'18	
retrograde	-1979 Dec 10 j 06:04	18°♌56'11	
opposition	-1978 Feb 21 j 23:14	16°♌54'26	0°50'37
min. Earth dist.	-1978 Feb 22 j 17:17	16°♌52'30	17.31708 AU
	-1978 Apr 18 j 13:25	15°℞♌	
direct	-1978 May 09 j 21:19	14°♌48'14	
	-1978 May 31 j 01:20	15°♌	
evening set	-1978 Aug 14 j 00:13	18°♌19'05	
max. Earth dist.	-1978 Aug 29 j 08:17	19°♌16'56	19.33018 AU
conjunction	-1978 Aug 30 j 04:02	19°♌20'04	0°45'35
minimum elong	-1978 Aug 30 j 04:02	19°♌20'04	0°45'37
morning rise	-1978 Sep 15 j 03:55	20°♌20'26	
retrograde	-1978 Dec 15 j 05:46	23°♌42'01	
opposition	-1977 Feb 27 j 02:01	21°♌40'18	0°50'58
min. Earth dist.	-1977 Feb 27 j 18:53	21°♌38'30	17.34529 AU
direct	-1977 May 15 j 01:46	19°♌34'15	
evening set	-1977 Aug 19 j 01:43	23°♌04'31	
max. Earth dist.	-1977 Sep 03 j 11:07	24°♌02'30	19.36113 AU
conjunction	-1977 Sep 04 j 04:22	24°♌05'14	0°45'45
minimum elong	-1977 Sep 04 j 04:22	24°♌05'14	0°45'46
morning rise	-1977 Sep 20 j 03:06	25°♌05'22	
retrograde	-1977 Dec 20 j 04:37	28°♌26'33	
opposition	-1976 Mar 03 j 04:26	26°♌24'55	0°50'58
min. Earth dist.	-1976 Mar 03 j 18:59	26°♌23'22	17.37885 AU
direct	-1976 May 19 j 06:46	24°♌19'04	
evening set	-1976 Aug 23 j 02:26	27°♌48'37	
conjunction	-1976 Sep 08 j 03:48	28°♌49'04	0°45'36
minimum elong	-1976 Sep 08 j 03:48	28°♌49'04	0°45'37
max. Earth dist.	-1976 Sep 07 j 12:23	28°♌46'38	19.39753 AU
morning rise	-1976 Sep 24 j 01:27	29°♌48'57	
	-1976 Sep 27 j 01:28	0°♍	
retrograde	-1976 Dec 24 j 02:29	3°♍09'43	
opposition	-1975 Mar 08 j 06:56	1°♍08'09	0°50'37
min. Earth dist.	-1975 Mar 08 j 20:11	1°♍06'45	17.41816 AU
	-1975 Apr 05 j 10:09	30°℞♌	
direct	-1975 May 24 j 10:29	29°♌02'33	
	-1975 Jul 10 j 20:30	0°♍	
evening set	-1975 Aug 28 j 02:06	2°♍31'18	
conjunction	-1975 Sep 13 j 02:17	3°♍31'27	0°45'09
minimum elong	-1975 Sep 13 j 02:17	3°♍31'27	0°45'10
max. Earth dist.	-1975 Sep 12 j 13:21	3°♍29'25	19.43976 AU
morning rise	-1975 Sep 28 j 22:55	4°♍31'04	
retrograde	-1975 Dec 29 j 00:39	7°♍51'24	
opposition	-1974 Mar 13 j 09:05	5°♍49'57	0°49'56
min. Earth dist.	-1974 Mar 13 j 19:16	5°♍48'52	17.46310 AU
direct	-1974 May 29 j 15:03	3°♍44'39	
evening set	-1974 Sep 02 j 00:56	7°♍12'30	
conjunction	-1974 Sep 17 j 24:00	8°♍12'21	0°44'24
minimum elong	-1974 Sep 17 j 24:00	8°♍12'21	0°44'24
max. Earth dist.	-1974 Sep 17 j 13:33	8°♍10'43	19.48751 AU
morning rise	-1974 Oct 03 j 19:38	9°♍11'43	
retrograde	-1973 Jan 02 j 21:11	12°♍31'35	
opposition	-1973 Mar 18 j 10:51	10°♍30'16	0°48'56
min. Earth dist.	-1973 Mar 18 j 19:49	10°♍29'20	17.51356 AU
direct	-1973 Jun 03 j 16:55	8°♍25'20	
evening set	-1973 Sep 06 j 22:50	11°♍52'13	
conjunction	-1973 Sep 22 j 20:48	12°♍51'46	0°43'22
minimum elong	-1973 Sep 22 j 20:48	12°♍51'46	0°43'24
max. Earth dist.	-1973 Sep 22 j 12:24	12°♍50'27	19.54060 AU
morning rise	-1973 Oct 08 j 15:39	13°♍50'51	
retrograde	-1972 Jan 07 j 19:00	17°♍10'13	
opposition	-1972 Mar 22 j 12:15	15°♍09'05	0°47'37
min. Earth dist.	-1972 Mar 22 j 18:01	15°♍08'29	17.56883 AU
direct	-1972 Jun 07 j 20:05	13°♍04'33	
evening set	-1972 Sep 10 j 19:48	16°♍30'23	
conjunction	-1972 Sep 26 j 16:46	17°♍29'38	0°42'04
minimum elong	-1972 Sep 26 j 16:47	17°♍29'38	0°42'04
max. Earth dist.	-1972 Sep 26 j 11:12	17°♍28'46	19.59803 AU
morning rise	-1972 Oct 12 j 10:41	18°♍28'27	
retrograde	-1971 Jan 11 j 14:37	21°♍47'18	
opposition	-1971 Mar 27 j 13:27	19°♍46'22	0°46'00
min. Earth dist.	-1971 Mar 27 j 18:07	19°♍45'53	17.62822 AU
direct	-1971 Jun 12 j 20:01	17°♍42'15	
evening set	-1971 Sep 15 j 15:56	21°♍06'59	
conjunction	-1971 Oct 01 j 11:50	22°♍05'55	0°40'29
minimum elong	-1971 Oct 01 j 11:50	22°♍05'55	0°40'30
max. Earth dist.	-1971 Oct 01 j 07:55	22°♍05'18	19.65931 AU
morning rise	-1971 Oct 17 j 05:08	23°♍04'27	
retrograde	-1970 Jan 16 j 12:06	26°♍22'47	
opposition	-1970 Apr 01 j 14:03	24°♍22'01	0°44'05
min. Earth dist.	-1970 Apr 01 j 15:35	24°♍21'52	17.69100 AU
direct	-1970 Jun 17 j 21:33	22°♍18'21	
evening set	-1970 Sep 20 j 10:58	25°♍41'54	
conjunction	-1970 Oct 06 j 06:05	26°♍40'31	0°38'40
minimum elong	-1970 Oct 06 j 06:05	26°♍40'31	0°38'40
max. Earth dist.	-1970 Oct 06 j 05:07	26°♍40'22	19.72342 AU
morning rise	-1970 Oct 21 j 22:35	27°♍38'47	
	-1970 Dec 06 j 03:25	0°♎	
retrograde	-1969 Jan 21 j 06:45	0°♎56'33	
	-1969 Mar 10 j 15:26	30°℞♍	
opposition	-1969 Apr 06 j 14:18	28°♍55'58	0°41'55
min. Earth dist.	-1969 Apr 06 j 14:52	28°♍55'55	17.75626 AU
direct	-1969 Jun 22 j 20:12	26°♍52'45	
	-1969 Sep 21 j 00:58	0°♎	
evening set	-1969 Sep 25 j 05:18	0°♎15'04	
conjunction	-1969 Oct 10 j 23:25	1°♎13'22	0°36'37
minimum elong	-1969 Oct 10 j 23:25	1°♎13'22	0°36'36

Attention, astronomical year style is used: The year -1969 in astronomical counting style is the year 1970 BCE in historical counting style.

max. Earth dist.	-1969 Oct 10 j 23:36	1°♎13'24	19.78969 AU
morning rise	-1969 Oct 26 j 15:28	2°♎11'21	
retrograde	-1968 Jan 26 j 02:52	5°♎28'31	
opposition	-1968 Apr 10 j 13:45	3°♎28'07	0°39'29
min. Earth dist.	-1968 Apr 10 j 11:27	3°♎28'21	17.82328 AU
direct	-1968 Jun 26 j 20:15	1°♎25'19	
evening set	-1968 Sep 28 j 22:34	4°♎46'23	
conjunction	-1968 Oct 14 j 16:02	5°♎44'22	0°34'20
minimum elong	-1968 Oct 14 j 16:02	5°♎44'22	0°34'20
max. Earth dist.	-1968 Oct 14 j 19:11	5°♎44'51	19.85731 AU
morning rise	-1968 Oct 30 j 07:24	6°♎42'04	
retrograde	-1967 Jan 29 j 20:34	9°♎58'38	
opposition	-1967 Apr 15 j 12:54	7°♎58'22	0°36'50
min. Earth dist.	-1967 Apr 15 j 09:35	7°♎58'43	17.89135 AU
direct	-1967 Jul 01 j 17:59	5°♎56'01	
evening set	-1967 Oct 03 j 14:52	9°♎15'45	
conjunction	-1967 Oct 19 j 07:30	10°♎13'25	0°31'52
minimum elong	-1967 Oct 19 j 07:30	10°♎13'25	0°31'51
max. Earth dist.	-1967 Oct 19 j 11:35	10°♎14'02	19.92578 AU
morning rise	-1967 Nov 03 j 22:37	11°♎10'51	
retrograde	-1966 Feb 03 j 15:04	14°♎26'48	
opposition	-1966 Apr 20 j 11:14	12°♎26'39	0°33'58
min. Earth dist.	-1966 Apr 20 j 05:15	12°♎27'16	17.96005 AU
direct	-1966 Jul 06 j 16:13	10°♎24'42	
evening set	-1966 Oct 08 j 06:08	13°♎43'05	
conjunction	-1966 Oct 23 j 22:19	14°♎40'27	0°29'13
minimum elong	-1966 Oct 23 j 22:19	14°♎40'27	0°29'13
max. Earth dist.	-1966 Oct 24 j 05:20	14°♎41'32	19.99456 AU
morning rise	-1966 Nov 08 j 12:57	15°♎37'37	
retrograde	-1965 Feb 08 j 07:27	18°♎52'56	
opposition	-1965 Apr 25 j 08:42	16°♎52'52	0°30'55
min. Earth dist.	-1965 Apr 25 j 01:39	16°♎53'36	18.02884 AU
direct	-1965 Jul 11 j 13:02	14°♎51'18	
evening set	-1965 Oct 12 j 20:32	18°♎08'20	
conjunction	-1965 Oct 28 j 12:02	19°♎05'23	0°26'25
minimum elong	-1965 Oct 28 j 12:02	19°♎05'23	0°26'24
max. Earth dist.	-1965 Oct 28 j 19:48	19°♎06'34	20.06346 AU
morning rise	-1965 Nov 13 j 02:35	20°♎02'18	
retrograde	-1964 Feb 13 j 00:07	23°♎16'58	
opposition	-1964 Apr 29 j 05:28	21°♎16'58	0°27'42
min. Earth dist.	-1964 Apr 28 j 20:00	21°♎17'56	18.09778 AU
direct	-1964 Jul 15 j 09:04	19°♎15'46	
evening set	-1964 Oct 16 j 09:38	22°♎31'25	
conjunction	-1964 Nov 01 j 00:49	23°♎28'11	0°23'28
minimum elong	-1964 Nov 01 j 00:49	23°♎28'11	0°23'27
max. Earth dist.	-1964 Nov 01 j 11:42	23°♎29'50	20.13238 AU
morning rise	-1964 Nov 16 j 15:01	24°♎24'50	
retrograde	-1963 Feb 16 j 15:12	27°♎38'51	
opposition	-1963 May 04 j 01:32	25°♎38'55	0°24'22
min. Earth dist.	-1963 May 03 j 14:32	25°♎40'02	18.16674 AU
direct	-1963 Jul 20 j 04:59	23°♎38'05	
evening set	-1963 Oct 20 j 22:00	26°♎52'21	
conjunction	-1963 Nov 05 j 12:37	27°♎48'50	0°20'26
minimum elong	-1963 Nov 05 j 12:37	27°♎48'50	0°20'25
max. Earth dist.	-1963 Nov 06 j 00:27	27°♎50'37	20.20152 AU
morning rise	-1963 Nov 21 j 02:53	28°♎45'14	
	-1963 Dec 13 j 08:34	0°♏	
retrograde	-1962 Feb 21 j 05:57	1°♏58'38	
opposition	-1962 May 08 j 20:37	29°♎58'44	0°20'55
min. Earth dist.	-1962 May 08 j 07:21	0°♏00'05	18.23614 AU
	-1962 May 08 j 08:13	30°℞♎	
direct	-1962 Jul 24 j 22:42	27°♎58'15	
	-1962 Oct 04 j 04:17	0°♏	
evening set	-1962 Oct 25 j 09:14	1°♏11'12	
conjunction	-1962 Nov 09 j 23:43	2°♏07'24	0°17'18
minimum elong	-1962 Nov 09 j 23:43	2°♏07'24	0°17'16
max. Earth dist.	-1962 Nov 10 j 14:36	2°♏09'39	20.27098 AU
morning rise	-1962 Nov 25 j 13:48	3°♏03'34	
retrograde	-1961 Feb 25 j 19:42	6°♏16'20	
opposition	-1961 May 13 j 14:52	4°♏16'32	0°17'23
min. Earth dist.	-1961 May 12 j 23:51	4°♏18'04	18.30566 AU
direct	-1961 Jul 29 j 16:50	2°♏16'27	
evening set	-1961 Oct 29 j 19:47	5°♏28'05	
conjunction	-1961 Nov 14 j 09:50	6°♏24'01	0°14'06
minimum elong	-1961 Nov 14 j 09:50	6°♏24'01	0°14'04
behind sun begin	-1961 Nov 14 j 06:25	6°♏23'31	
behind sun end	-1961 Nov 14 j 13:14	6°♏24'31	
max. Earth dist.	-1961 Nov 15 j 01:33	6°♏26'23	20.34055 AU
morning rise	-1961 Nov 30 j 00:06	7°♏19'58	
retrograde	-1960 Mar 01 j 09:01	10°♏32'09	
opposition	-1960 May 17 j 08:20	8°♏32'27	0°13'47
min. Earth dist.	-1960 May 16 j 15:24	8°♏34'09	18.37530 AU
direct	-1960 Aug 02 j 08:08	6°♏32'45	
evening set	-1960 Nov 02 j 05:25	9°♏43'08	
conjunction	-1960 Nov 17 j 19:28	10°♏38'49	0°10'51
minimum elong	-1960 Nov 17 j 19:28	10°♏38'49	0°10'48
behind sun begin	-1960 Nov 17 j 14:25	10°♏38'04	
behind sun end	-1960 Nov 18 j 00:31	10°♏39'33	
max. Earth dist.	-1960 Nov 18 j 14:02	10°♏41'35	20.41002 AU
morning rise	-1960 Dec 03 j 09:42	11°♏34'33	
retrograde	-1959 Mar 05 j 21:24	14°♏46'10	
min. Earth dist.	-1959 May 21 j 06:19	12°♏48'29	18.44444 AU
opposition	-1959 May 22 j 01:04	12°♏46'36	0°10'08
direct	-1959 Aug 07 j 00:05	10°♏47'19	
evening set	-1959 Nov 06 j 14:21	13°♏56'28	
conjunction	-1959 Nov 22 j 04:10	14°♏51'55	0°07'33
minimum elong	-1959 Nov 22 j 04:10	14°♏51'55	0°07'32
behind sun begin	-1959 Nov 21 j 22:12	14°♏51'03	
behind sun end	-1959 Nov 22 j 10:07	14°♏52'47	
max. Earth dist.	-1959 Nov 22 j 23:23	14°♏54'47	20.47875 AU
	-1959 Nov 24 j 10:17	15°♏	
morning rise	-1959 Dec 07 j 18:47	15°♏47'28	
retrograde	-1958 Mar 10 j 10:05	18°♏58'33	
opposition	-1958 May 26 j 17:05	16°♏59'06	0°06'28
min. Earth dist.	-1958 May 25 j 21:00	17°♏01'07	18.51266 AU
direct	-1958 Aug 11 j 13:14	15°♏00'14	
evening set	-1958 Nov 10 j 22:36	18°♏08'13	
conjunction	-1958 Nov 26 j 12:34	19°♏03'26	0°04'15
minimum elong	-1958 Nov 26 j 12:34	19°♏03'26	0°04'13
behind sun begin	-1958 Nov 26 j 06:08	19°♏02'31	
behind sun end	-1958 Nov 26 j 19:00	19°♏04'22	
max. Earth dist.	-1958 Nov 27 j 10:12	19°♏06'39	20.54612 AU
morning rise	-1958 Dec 12 j 03:17	19°♏58'48	
retrograde	-1957 Mar 14 j 21:10	23°♏09'22	
min. Earth dist.	-1957 May 30 j 10:32	21°♏12'15	18.57901 AU
opposition	-1957 May 31 j 08:09	21°♏10'04	0°02'46
direct	-1957 Aug 16 j 03:03	19°♏11'36	
evening set	-1957 Nov 15 j 06:26	22°♏18'27	
conjunction	-1957 Nov 30 j 20:15	23°♏13'28	0°00'53
minimum elong	-1957 Nov 30 j 20:15	23°♏13'28	0°00'51
behind sun begin	-1957 Nov 30 j 13:44	23°♏12'32	
behind sun end	-1957 Dec 01 j 02:47	23°♏14'24	

Attention, astronomical year style is used: The year -1957 in astronomical counting style is the year 1958 BCE in historical counting style.

max. Earth dist.	-1957 Dec 01 j 18:11	23°♏16'43	20.61134 AU
morning rise	-1957 Dec 16 j 11:26	24°♏08'40	
desc. node	-1956 Mar 04 j 15:31	27°♏14'01	
retrograde	-1956 Mar 18 j 08:53	27°♏18'46	
opposition	-1956 Jun 03 j 22:49	25°♏19'35	-0°00'55
min. Earth dist.	-1956 Jun 03 j 00:28	25°♏21'49	18.64305 AU
direct	-1956 Aug 19 j 14:19	23°♏21'29	
evening set	-1956 Nov 18 j 13:26	26°♏27'15	
conjunction	-1956 Dec 04 j 03:33	27°♏22'05	-0°02'32
minimum elong	-1956 Dec 04 j 03:32	27°♏22'05	0°02'33
behind sun begin	-1956 Dec 03 j 21:01	27°♏21'09	
behind sun end	-1956 Dec 04 j 10:03	27°♏23'01	
max. Earth dist.	-1956 Dec 05 j 03:32	27°♏25'37	20.67384 AU
morning rise	-1956 Dec 19 j 18:55	28°♏17'07	
	-1955 Jan 21 j 12:47	0°♐	
retrograde	-1955 Mar 22 j 19:34	1°♐26'46	
	-1955 May 25 j 22:05	30°℞♏	
opposition	-1955 Jun 08 j 12:45	29°♏27'42	-0°04'34
min. Earth dist.	-1955 Jun 07 j 13:00	29°♏30'04	18.70389 AU
direct	-1955 Aug 24 j 02:59	27°♏29'57	
	-1955 Nov 12 j 13:21	0°♐	
evening set	-1955 Nov 22 j 20:16	0°♐34'41	
conjunction	-1955 Dec 08 j 10:23	1°♐29'19	-0°05'49
minimum elong	-1955 Dec 08 j 10:23	1°♐29'19	0°05'51
behind sun begin	-1955 Dec 08 j 04:07	1°♐28'26	
behind sun end	-1955 Dec 08 j 16:38	1°♐30'13	
max. Earth dist.	-1955 Dec 09 j 10:20	1°♐32'51	20.73283 AU
morning rise	-1955 Dec 24 j 02:23	2°♐24'14	
retrograde	-1954 Mar 27 j 06:05	5°♐33'26	
min. Earth dist.	-1954 Jun 12 j 02:07	3°♐36'49	18.76108 AU
opposition	-1954 Jun 13 j 01:57	3°♐34'26	-0°08'11
direct	-1954 Aug 28 j 12:19	1°♐36'59	
evening set	-1954 Nov 27 j 02:27	4°♐40'44	
conjunction	-1954 Dec 12 j 16:59	5°♐35'14	-0°09'03
minimum elong	-1954 Dec 12 j 16:59	5°♐35'14	0°09'04
behind sun begin	-1954 Dec 12 j 11:23	5°♐34'26	
behind sun end	-1954 Dec 12 j 22:35	5°♐36'02	
max. Earth dist.	-1954 Dec 13 j 18:28	5°♐38'58	20.78784 AU
morning rise	-1954 Dec 28 j 09:20	6°♐30'00	
retrograde	-1953 Mar 31 j 16:20	9°♐38'47	
opposition	-1953 Jun 17 j 14:26	7°♐39'50	-0°11'45
min. Earth dist.	-1953 Jun 16 j 13:28	7°♐42'20	18.81382 AU
direct	-1953 Sep 02 j 00:03	5°♐42'39	
evening set	-1953 Dec 01 j 08:16	8°♐45'27	
conjunction	-1953 Dec 16 j 22:57	9°♐39'48	-0°12'13
minimum elong	-1953 Dec 16 j 22:57	9°♐39'48	0°12'16
behind sun begin	-1953 Dec 16 j 18:30	9°♐39'10	
behind sun end	-1953 Dec 17 j 03:23	9°♐40'26	
max. Earth dist.	-1953 Dec 18 j 00:06	9°♐43'28	20.83826 AU
morning rise	-1952 Jan 01 j 15:59	10°♐34'28	
retrograde	-1952 Apr 04 j 01:43	13°♐42'51	
min. Earth dist.	-1952 Jun 20 j 01:41	11°♐46'22	18.86204 AU
opposition	-1952 Jun 21 j 02:25	11°♐43'54	-0°15'13
direct	-1952 Sep 05 j 08:15	9°♐46'55	
evening set	-1952 Dec 04 j 13:31	12°♐48'49	
conjunction	-1952 Dec 20 j 04:46	13°♐43'03	-0°15'18
minimum elong	-1952 Dec 20 j 04:45	13°♐43'02	0°15'20
behind sun begin	-1952 Dec 20 j 02:32	13°♐42'44	
behind sun end	-1952 Dec 20 j 06:59	13°♐43'21	
max. Earth dist.	-1952 Dec 21 j 07:17	13°♐46'54	20.88418 AU
morning rise	-1951 Jan 04 j 22:15	14°♐37'37	
retrograde	-1951 Apr 08 j 11:12	17°♐45'36	
min. Earth dist.	-1951 Jun 24 j 11:42	15°♐49'13	18.90568 AU
opposition	-1951 Jun 25 j 13:32	15°♐46'38	-0°18'36
direct	-1951 Sep 09 j 18:45	13°♐49'49	
evening set	-1951 Dec 08 j 18:27	16°♐50'52	
conjunction	-1951 Dec 24 j 10:00	17°♐44'59	-0°18'18
minimum elong	-1951 Dec 24 j 10:00	17°♐44'59	0°18'21
max. Earth dist.	-1951 Dec 25 j 12:09	17°♐48'46	20.92562 AU
morning rise	-1950 Jan 09 j 04:20	18°♐39'29	
retrograde	-1950 Apr 12 j 19:39	21°♐47'06	
min. Earth dist.	-1950 Jun 28 j 22:45	19°♐50'37	18.94514 AU
opposition	-1950 Jun 30 j 00:07	19°♐48'05	-0°21'52
direct	-1950 Sep 14 j 01:59	17°♐51'24	
evening set	-1950 Dec 12 j 22:55	20°♐51'41	
conjunction	-1950 Dec 28 j 15:06	21°♐45'42	-0°21'12
minimum elong	-1950 Dec 28 j 15:06	21°♐45'42	0°21'15
max. Earth dist.	-1950 Dec 29 j 18:33	21°♐49'40	20.96303 AU
morning rise	-1949 Jan 13 j 09:57	22°♐40'08	
retrograde	-1949 Apr 17 j 04:13	25°♐47'25	
min. Earth dist.	-1949 Jul 03 j 07:14	23°♐51'01	18.98063 AU
opposition	-1949 Jul 04 j 09:45	23°♐48'22	-0°25'00
direct	-1949 Sep 18 j 10:46	21°♐51'48	
evening set	-1949 Dec 17 j 03:14	24°♐51'24	
conjunction	-1948 Jan 01 j 19:47	25°♐45'20	-0°23'59
minimum elong	-1948 Jan 01 j 19:47	25°♐45'20	0°24'01
max. Earth dist.	-1948 Jan 02 j 22:51	25°♐49'15	20.99670 AU
morning rise	-1948 Jan 17 j 15:31	26°♐39'43	
retrograde	-1948 Apr 20 j 12:04	29°♐46'45	
opposition	-1948 Jul 07 j 19:08	27°♐47'39	-0°28'00
min. Earth dist.	-1948 Jul 06 j 17:05	27°♐50'15	19.01268 AU
direct	-1948 Sep 21 j 16:47	25°♐51'12	
evening set	-1948 Dec 20 j 07:03	28°♐50'11	
conjunction	-1947 Jan 05 j 00:21	29°♐44'04	-0°26'38
minimum elong	-1947 Jan 05 j 00:21	29°♐44'04	0°26'41
max. Earth dist.	-1947 Jan 06 j 04:39	29°♐48'09	21.02700 AU
	-1947 Jan 09 j 14:55	0°♑	
morning rise	-1947 Jan 20 j 20:44	0°♑38'25	
retrograde	-1947 Apr 24 j 20:32	3°♑45'14	
min. Earth dist.	-1947 Jul 11 j 00:38	1°♑48'50	19.04123 AU
opposition	-1947 Jul 12 j 03:49	1°♑46'07	-0°30'51
	-1947 Sep 05 j 18:27	30°℞♐	
direct	-1947 Sep 25 j 23:57	29°♐49'47	
	-1947 Oct 15 j 22:43	0°♑	
evening set	-1947 Dec 24 j 11:01	2°♑48'15	
conjunction	-1946 Jan 09 j 04:49	3°♑42'06	-0°29'09
minimum elong	-1946 Jan 09 j 04:49	3°♑42'06	0°29'10
max. Earth dist.	-1946 Jan 10 j 08:30	3°♑46'05	21.05377 AU
morning rise	-1946 Jan 25 j 02:09	4°♑36'27	
retrograde	-1946 Apr 29 j 03:56	7°♑43'05	
min. Earth dist.	-1946 Jul 15 j 09:40	5°♑46'35	19.06632 AU
opposition	-1946 Jul 16 j 12:00	5°♑43'57	-0°33'32
direct	-1946 Sep 30 j 04:50	3°♑47'45	
evening set	-1946 Dec 28 j 14:42	6°♑45'46	
conjunction	-1945 Jan 13 j 09:22	7°♑39'37	-0°31'31
minimum elong	-1945 Jan 13 j 09:22	7°♑39'37	0°31'33
max. Earth dist.	-1945 Jan 14 j 13:56	7°♑43'43	21.07701 AU
morning rise	-1945 Jan 29 j 07:24	8°♑33'58	
retrograde	-1945 May 03 j 12:49	11°♑40'29	
opposition	-1945 Jul 20 j 19:45	9°♑41'22	-0°36'04
min. Earth dist.	-1945 Jul 19 j 16:33	9°♑44'05	19.08760 AU
direct	-1945 Oct 04 j 10:55	7°♑45'17	
evening set	-1944 Jan 01 j 18:25	10°♑42'57	

Attention, astronomical year style is used: The year -1944 in astronomical counting style is the year 1945 BCE in historical counting style.

conjunction	-1944 Jan 17 j 13:39	11°♉36'48	-0°33'44
minimum elong	-1944 Jan 17 j 13:39	11°♉36'48	0°33'46
max. Earth dist.	-1944 Jan 18 j 17:26	11°♉40'46	21.09629 AU
morning rise	-1944 Feb 02 j 12:42	12°♉31'10	
retrograde	-1944 May 06 j 19:51	15°♉37'38	
min. Earth dist.	-1944 Jul 23 j 01:21	13°♉41'08	19.10490 AU
opposition	-1944 Jul 24 j 03:21	13°♉38'32	-0°38'26
direct	-1944 Oct 07 j 15:05	11°♉42'33	
evening set	-1943 Jan 04 j 22:11	14°♉39'56	
conjunction	-1943 Jan 20 j 18:22	15°♉33'49	-0°35'47
minimum elong	-1943 Jan 20 j 18:22	15°♉33'49	0°35'50
max. Earth dist.	-1943 Jan 21 j 22:43	15°♉37'52	21.11146 AU
morning rise	-1943 Feb 05 j 18:11	16°♉28'13	
retrograde	-1943 May 11 j 05:28	19°♉34'39	
min. Earth dist.	-1943 Jul 27 j 07:58	17°♉38'13	19.11774 AU
opposition	-1943 Jul 28 j 10:23	17°♉35'34	-0°40'37
direct	-1943 Oct 11 j 20:49	15°♉39'41	
evening set	-1942 Jan 09 j 02:20	18°♉36'53	
conjunction	-1942 Jan 24 j 23:12	19°♉30'48	-0°37'40
minimum elong	-1942 Jan 24 j 23:11	19°♉30'48	0°37'43
max. Earth dist.	-1942 Jan 26 j 02:15	19°♉34'39	21.12187 AU
morning rise	-1942 Feb 10 j 00:05	20°♉25'16	
retrograde	-1942 May 15 j 12:14	23°♉31'43	
opposition	-1942 Aug 01 j 17:23	21°♉32'38	-0°42'36
min. Earth dist.	-1942 Jul 31 j 16:42	21°♉35'06	19.12568 AU
direct	-1942 Oct 16 j 00:09	19°♉36'48	
evening set	-1941 Jan 13 j 06:31	22°♉33'53	
conjunction	-1941 Jan 29 j 04:21	23°♉27'51	-0°39'23
minimum elong	-1941 Jan 29 j 04:21	23°♉27'51	0°39'26
max. Earth dist.	-1941 Jan 30 j 07:26	23°♉31'43	21.12713 AU
morning rise	-1941 Feb 14 j 06:00	24°♉22'23	
retrograde	-1941 May 19 j 21:43	27°♉28'53	
opposition	-1941 Aug 05 j 23:58	25°♉29'47	-0°44'23
min. Earth dist.	-1941 Aug 04 j 23:14	25°♉32'16	19.12812 AU
direct	-1941 Oct 20 j 06:17	23°♉33'58	
evening set	-1940 Jan 17 j 11:09	26°♉30'59	
conjunction	-1940 Feb 02 j 09:43	27°♉25'03	-0°40'55
minimum elong	-1940 Feb 02 j 09:43	27°♉25'03	0°40'57
max. Earth dist.	-1940 Feb 03 j 11:02	27°♉28'39	21.12670 AU
morning rise	-1940 Feb 18 j 12:28	28°♉19'40	
	-1940 Mar 22 j 14:54	0°♒	
retrograde	-1940 May 23 j 04:45	1°♒26'14	
	-1940 Jul 26 j 10:15	30°℞♉	
min. Earth dist.	-1940 Aug 08 j 07:58	29°♉29'22	19.12480 AU
opposition	-1940 Aug 09 j 06:39	29°♉27'05	-0°45'57
direct	-1940 Oct 23 j 09:15	27°♉31'13	
	-1939 Jan 12 j 00:38	0°♒	
evening set	-1939 Jan 20 j 15:48	0°♒28'14	
conjunction	-1939 Feb 05 j 15:30	1°♒22'24	-0°42'14
minimum elong	-1939 Feb 05 j 15:30	1°♒22'24	0°42'16
max. Earth dist.	-1939 Feb 06 j 16:25	1°♒25'56	21.12045 AU
morning rise	-1939 Feb 21 j 19:07	2°♒17'07	
retrograde	-1939 May 27 j 13:39	5°♒23'46	
opposition	-1939 Aug 13 j 12:59	3°♒24'32	-0°47'19
min. Earth dist.	-1939 Aug 12 j 14:29	3°♒26'48	19.11547 AU
direct	-1939 Oct 27 j 15:49	1°♒28'35	
evening set	-1938 Jan 24 j 20:59	4°♒25'39	
conjunction	-1938 Feb 09 j 21:30	5°♒19'55	-0°43'22
minimum elong	-1938 Feb 09 j 21:30	5°♒19'55	0°43'24
max. Earth dist.	-1938 Feb 10 j 20:22	5°♒23'10	21.10818 AU
morning rise	-1938 Feb 26 j 02:15	6°♒14'45	
retrograde	-1938 May 31 j 20:57	9°♒21'31	
opposition	-1938 Aug 17 j 19:09	7°♒22'08	-0°48'26
min. Earth dist.	-1938 Aug 16 j 22:56	7°♒24'11	19.10039 AU
direct	-1938 Oct 31 j 19:01	5°♒26'02	
evening set	-1937 Jan 29 j 02:14	8°♒23'13	
conjunction	-1937 Feb 14 j 03:53	9°♒17'37	-0°44'17
minimum elong	-1937 Feb 14 j 03:53	9°♒17'37	0°44'18
max. Earth dist.	-1937 Feb 15 j 02:16	9°♒20'48	21.09051 AU
morning rise	-1937 Mar 02 j 09:30	10°♒12'35	
retrograde	-1937 Jun 05 j 05:21	13°♒19'29	
min. Earth dist.	-1937 Aug 21 j 05:05	11°♒21'59	19.08010 AU
opposition	-1937 Aug 22 j 01:09	11°♒19'57	-0°49'20
direct	-1937 Nov 05 j 01:02	9°♒23'40	
evening set	-1936 Feb 02 j 07:49	12°♒21'03	
conjunction	-1936 Feb 18 j 10:19	13°♒15'35	-0°44'59
minimum elong	-1936 Feb 18 j 10:19	13°♒15'35	0°45'01
max. Earth dist.	-1936 Feb 19 j 06:49	13°♒18'30	21.06783 AU
morning rise	-1936 Mar 05 j 17:04	14°♒10'42	
	-1936 Mar 21 j 00:56	15°♒	
retrograde	-1936 Jun 08 j 12:49	17°♒17'46	
opposition	-1936 Aug 25 j 07:14	15°♒18'04	-0°50'00
min. Earth dist.	-1936 Aug 24 j 13:21	15°♒19'53	19.05521 AU
	-1936 Sep 01 j 18:09	15°℞♒	
direct	-1936 Nov 08 j 04:45	13°♒21'35	
	-1935 Jan 11 j 02:20	15°♒	
evening set	-1935 Feb 05 j 13:48	16°♒19'14	
conjunction	-1935 Feb 21 j 17:29	17°♒13'56	-0°45'28
minimum elong	-1935 Feb 21 j 17:29	17°♒13'56	0°45'30
max. Earth dist.	-1935 Feb 22 j 13:30	17°♒16'47	21.04090 AU
morning rise	-1935 Mar 10 j 01:08	18°♒09'12	
retrograde	-1935 Jun 12 j 21:32	21°♒16'29	
opposition	-1935 Aug 29 j 12:59	19°♒16'38	-0°50'25
min. Earth dist.	-1935 Aug 28 j 19:18	19°♒18'25	19.02623 AU
direct	-1935 Nov 12 j 10:12	17°♒19'55	
evening set	-1934 Feb 09 j 20:25	20°♒17'55	
conjunction	-1934 Feb 26 j 01:00	21°♒12'48	-0°45'44
minimum elong	-1934 Feb 26 j 01:00	21°♒12'48	0°45'46
max. Earth dist.	-1934 Feb 26 j 19:02	21°♒15'21	21.01000 AU
morning rise	-1934 Mar 14 j 09:44	22°♒08'14	
retrograde	-1934 Jun 17 j 05:19	25°♒15'47	
opposition	-1934 Sep 02 j 19:01	23°♒15'47	-0°50'36
min. Earth dist.	-1934 Sep 02 j 03:34	23°♒17'21	18.99355 AU
direct	-1934 Nov 16 j 14:08	21°♒18'51	
evening set	-1933 Feb 14 j 03:16	24°♒17'17	
conjunction	-1933 Mar 02 j 09:01	25°♒12'21	-0°45'48
minimum elong	-1933 Mar 02 j 09:01	25°♒12'21	0°45'49
max. Earth dist.	-1933 Mar 03 j 02:28	25°♒14'50	20.97565 AU
morning rise	-1933 Mar 18 j 18:36	26°♒07'59	
retrograde	-1933 Jun 21 j 15:02	29°♒15'50	
min. Earth dist.	-1933 Sep 06 j 09:45	27°♒17'15	18.95748 AU
opposition	-1933 Sep 07 j 01:01	27°♒15'42	-0°50'33
direct	-1933 Nov 20 j 19:50	25°♒18'34	
evening set	-1932 Feb 18 j 10:57	28°♒17'31	
conjunction	-1932 Mar 05 j 17:37	29°♒12'48	-0°45'38
minimum elong	-1932 Mar 05 j 17:37	29°♒12'48	0°45'38
max. Earth dist.	-1932 Mar 06 j 09:02	29°♒14'59	20.93799 AU
	-1932 Mar 19 j 14:30	0°♓	
morning rise	-1932 Mar 22 j 04:16	0°♓08'37	
retrograde	-1932 Jun 24 j 23:26	3°♓16'50	
opposition	-1932 Sep 10 j 07:19	1°♓16'35	-0°50'15
min. Earth dist.	-1932 Sep 09 j 18:24	1°♓17'55	18.91825 AU

Attention, astronomical year style is used: The year -1932 in astronomical counting style is the year 1933 BCE in historical counting style.

	-1932 Oct 14 j 03:37	30°R♒	
direct	-1932 Nov 23 j 23:46	29°♒19'14	
	-1931 Jan 02 j 23:36	0°♓	
evening set	-1931 Feb 21 j 19:08	2°♓18'47	
conjunction	-1931 Mar 10 j 03:02	3°♓14'18	-0°45'14
minimum elong	-1931 Mar 10 j 03:02	3°♓14'18	0°45'16
max. Earth dist.	-1931 Mar 10 j 17:32	3°♓16'22	20.89730 AU
morning rise	-1931 Mar 26 j 14:34	4°♓10'21	
retrograde	-1931 Jun 29 j 10:42	7°♓18'57	
opposition	-1931 Sep 14 j 13:43	5°♓18'37	-0°49'42
min. Earth dist.	-1931 Sep 14 j 01:17	5°♓19'54	18.87586 AU
direct	-1931 Nov 28 j 06:15	3°♓21'03	
evening set	-1930 Feb 26 j 04:18	6°♓21'18	
conjunction	-1930 Mar 14 j 13:05	7°♓17'03	-0°44'38
minimum elong	-1930 Mar 14 j 13:05	7°♓17'03	0°44'38
max. Earth dist.	-1930 Mar 15 j 01:19	7°♓18'48	20.85327 AU
morning rise	-1930 Mar 31 j 01:36	8°♓13'20	
retrograde	-1930 Jul 03 j 19:49	11°♓22'23	
opposition	-1930 Sep 18 j 20:29	9°♓21'58	-0°48'55
min. Earth dist.	-1930 Sep 18 j 10:40	9°♓22'59	18.83019 AU
direct	-1930 Dec 02 j 10:39	7°♓24'11	
evening set	-1929 Mar 02 j 14:05	10°♓25'12	
conjunction	-1929 Mar 19 j 00:00	11°♓21'13	-0°43'47
minimum elong	-1929 Mar 19 j 00:01	11°♓21'13	0°43'48
max. Earth dist.	-1929 Mar 19 j 10:55	11°♓22'47	20.80603 AU
morning rise	-1929 Apr 04 j 13:20	12°♓17'44	
retrograde	-1929 Jul 08 j 08:21	15°♓27'16	
opposition	-1929 Sep 23 j 03:31	13°♓26'47	-0°47'52
min. Earth dist.	-1929 Sep 22 j 18:28	13°♓27'43	18.78110 AU
direct	-1929 Dec 06 j 18:08	11°♓28'47	
evening set	-1928 Mar 06 j 00:46	14°♓30'38	
conjunction	-1928 Mar 22 j 11:37	15°♓26'55	-0°42'43
minimum elong	-1928 Mar 22 j 11:37	15°♓26'55	0°42'44
max. Earth dist.	-1928 Mar 22 j 20:01	15°♓28'07	20.75506 AU
morning rise	-1928 Apr 08 j 01:52	16°♓23'41	
retrograde	-1928 Jul 11 j 18:36	19°♓33'44	
opposition	-1928 Sep 26 j 11:10	17°♓33'10	-0°46'34
min. Earth dist.	-1928 Sep 26 j 05:02	17°♓33'48	18.72821 AU
direct	-1928 Dec 09 j 23:51	15°♓34'54	
evening set	-1927 Mar 10 j 12:25	18°♓37'39	
conjunction	-1927 Mar 27 j 00:22	19°♓34'13	-0°41'26
minimum elong	-1927 Mar 27 j 00:22	19°♓34'13	0°41'25
max. Earth dist.	-1927 Mar 27 j 06:50	19°♓35'09	20.70028 AU
morning rise	-1927 Apr 12 j 15:22	20°♓31'14	
retrograde	-1927 Jul 16 j 08:02	23°♓41'49	
opposition	-1927 Sep 30 j 18:57	21°♓41'08	-0°45'02
min. Earth dist.	-1927 Sep 30 j 13:54	21°♓41'40	18.67134 AU
direct	-1927 Dec 14 j 08:35	19°♓42'33	
evening set	-1926 Mar 15 j 01:02	22°♓46'16	
conjunction	-1926 Mar 31 j 13:52	23°♓43'07	-0°39'54
minimum elong	-1926 Mar 31 j 13:52	23°♓43'07	0°39'55
max. Earth dist.	-1926 Mar 31 j 17:35	23°♓43'39	20.64137 AU
morning rise	-1926 Apr 17 j 05:40	24°♓40'25	
retrograde	-1926 Jul 20 j 19:25	27°♓51'31	
opposition	-1926 Oct 05 j 03:28	25°♓50'42	-0°43'14
min. Earth dist.	-1926 Oct 05 j 01:23	25°♓50'56	18.61049 AU
direct	-1926 Dec 18 j 15:43	23°♓51'47	
evening set	-1925 Mar 19 j 14:15	26°♓56'29	
conjunction	-1925 Apr 05 j 04:05	27°♓53'38	-0°38'10
minimum elong	-1925 Apr 05 j 04:05	27°♓53'38	0°38'09
max. Earth dist.	-1925 Apr 05 j 05:42	27°♓53'52	20.57883 AU
morning rise	-1925 Apr 21 j 20:34	28°♓51'11	
	-1925 May 13 j 04:38	0°♈	
retrograde	-1925 Jul 25 j 09:45	2°♈02'50	
opposition	-1925 Oct 09 j 12:18	0°♈01'52	-0°41'11
min. Earth dist.	-1925 Oct 09 j 11:15	0°♈01'58	18.54620 AU
	-1925 Oct 10 j 06:03	30°R♓	
direct	-1925 Dec 23 j 01:52	28°♓02'33	
	-1924 Mar 02 j 01:00	0°♈	
evening set	-1924 Mar 23 j 04:31	1°♈08'17	
conjunction	-1924 Apr 08 j 19:13	2°♈05'44	-0°36'12
minimum elong	-1924 Apr 08 j 19:13	2°♈05'44	0°36'13
max. Earth dist.	-1924 Apr 08 j 18:21	2°♈05'36	20.51302 AU
morning rise	-1924 Apr 25 j 12:22	3°♈03'34	
retrograde	-1924 Jul 28 j 22:07	6°♈15'45	
opposition	-1924 Oct 12 j 21:36	4°♈14'36	-0°38'55
min. Earth dist.	-1924 Oct 12 j 23:25	4°♈14'25	18.47907 AU
direct	-1924 Dec 26 j 10:03	2°♈14'52	
evening set	-1923 Mar 27 j 19:38	5°♈21'41	
conjunction	-1923 Apr 13 j 11:15	6°♈19'27	-0°34'02
minimum elong	-1923 Apr 13 j 11:15	6°♈19'27	0°34'02
max. Earth dist.	-1923 Apr 13 j 08:10	6°♈19'00	20.44488 AU
morning rise	-1923 Apr 30 j 05:02	7°♈17'33	
retrograde	-1923 Aug 02 j 13:56	10°♈30'18	
opposition	-1923 Oct 17 j 07:21	8°♈28'57	-0°36'25
min. Earth dist.	-1923 Oct 17 j 10:10	8°♈28'39	18.40991 AU
direct	-1923 Dec 30 j 21:32	6°♈28'47	
evening set	-1922 Apr 01 j 11:38	9°♈36'44	
conjunction	-1922 Apr 18 j 04:00	10°♈34'49	-0°31'40
minimum elong	-1922 Apr 18 j 04:00	10°♈34'49	0°31'40
max. Earth dist.	-1922 Apr 17 j 22:51	10°♈34'04	20.37487 AU
morning rise	-1922 May 04 j 22:14	11°♈33'12	
retrograde	-1922 Aug 07 j 03:17	14°♈46'30	
opposition	-1922 Oct 21 j 17:43	12°♈44'59	-0°33'42
min. Earth dist.	-1922 Oct 21 j 23:06	12°♈44'24	18.33938 AU
direct	-1921 Jan 04 j 06:56	10°♈44'23	
evening set	-1921 Apr 06 j 04:28	13°♈53'30	
conjunction	-1921 Apr 22 j 21:34	14°♈51'53	-0°29'07
minimum elong	-1921 Apr 22 j 21:34	14°♈51'53	0°29'06
max. Earth dist.	-1921 Apr 22 j 14:12	14°♈50'49	20.30408 AU
morning rise	-1921 May 09 j 16:20	15°♈50'33	
retrograde	-1921 Aug 11 j 20:22	19°♈04'26	
opposition	-1921 Oct 26 j 04:33	17°♈02'44	-0°30'47
min. Earth dist.	-1921 Oct 26 j 10:50	17°♈02'04	18.26839 AU
direct	-1920 Jan 08 j 19:34	15°♈01'42	
evening set	-1920 Apr 09 j 22:12	18°♈12'02	
conjunction	-1920 Apr 26 j 16:01	19°♈10'45	-0°26'23
minimum elong	-1920 Apr 26 j 16:01	19°♈10'45	0°26'21
max. Earth dist.	-1920 Apr 26 j 07:02	19°♈09'26	20.23295 AU
morning rise	-1920 May 13 j 11:05	20°♈09'42	
retrograde	-1920 Aug 15 j 11:15	23°♈24'10	
opposition	-1920 Oct 29 j 16:12	21°♈22'19	-0°27'40
min. Earth dist.	-1920 Oct 30 j 00:48	21°♈21'24	18.19735 AU
direct	-1919 Jan 12 j 06:39	19°♈20'51	
evening set	-1919 Apr 14 j 17:01	22°♈32'27	
conjunction	-1919 May 01 j 11:24	23°♈31'29	-0°23'29
minimum elong	-1919 May 01 j 11:24	23°♈31'29	0°23'28
max. Earth dist.	-1919 Apr 30 j 23:59	23°♈29'48	20.16221 AU
morning rise	-1919 May 18 j 06:50	24°♈30'42	
retrograde	-1919 Aug 20 j 05:14	27°♈45'47	
opposition	-1919 Nov 03 j 04:20	25°♈43'48	-0°24'22

Attention, astronomical year style is used: The year -1919 in astronomical counting style is the year 1920 BCE in historical counting style.

min. Earth dist.	-1919 Nov 03 j 13:53	25°♈42'47	18.12696 AU
direct	-1918 Jan 16 j 20:44	23°♈41'56	
evening set	-1918 Apr 19 j 12:46	26°♈54'51	
conjunction	-1918 May 06 j 07:43	27°♈54'12	-0°20'26
minimum elong	-1918 May 06 j 07:43	27°♈54'12	0°20'24
max. Earth dist.	-1918 May 05 j 19:04	27°♈52'19	20.09217 AU
morning rise	-1918 May 23 j 03:13	28°♈53'41	
	-1918 Jun 12 j 02:14	0°♉	
retrograde	-1918 Aug 24 j 21:34	2°♉09'22	
opposition	-1918 Nov 07 j 17:28	0°♉07'18	-0°20'54
min. Earth dist.	-1918 Nov 08 j 05:03	0°♉06'04	18.05747 AU
	-1918 Nov 10 j 13:23	30°℞♈	
direct	-1917 Jan 21 j 09:52	28°♈05'05	
	-1917 Mar 31 j 05:56	0°♉	
evening set	-1917 Apr 24 j 09:22	1°♉19'18	
conjunction	-1917 May 11 j 04:40	2°♉18'57	-0°17'14
minimum elong	-1917 May 11 j 04:40	2°♉18'57	0°17'13
max. Earth dist.	-1917 May 10 j 13:31	2°♉16'42	20.02336 AU
morning rise	-1917 May 28 j 00:26	3°♉18'43	
retrograde	-1917 Aug 29 j 16:28	6°♉35'03	
opposition	-1917 Nov 12 j 07:14	4°♉32'54	-0°17'17
min. Earth dist.	-1917 Nov 12 j 19:54	4°♉31'32	17.98925 AU
direct	-1916 Jan 26 j 01:29	2°♉30'19	
evening set	-1916 Apr 28 j 07:07	5°♉45'54	
max. Earth dist.	-1916 May 14 j 10:44	6°♉43'27	19.95562 AU
conjunction	-1916 May 15 j 02:54	6°♉45'52	-0°13'55
minimum elong	-1916 May 15 j 02:54	6°♉45'52	0°13'54
behind sun begin	-1916 May 14 j 23:37	6°♉45'23	
behind sun end	-1916 May 15 j 06:11	6°♉46'21	
morning rise	-1916 May 31 j 22:31	7°♉45'52	
retrograde	-1916 Sep 02 j 10:30	11°♉02'49	
opposition	-1916 Nov 15 j 21:48	9°♉00'39	-0°13'32
min. Earth dist.	-1916 Nov 16 j 12:30	8°♉59'03	17.92205 AU
direct	-1915 Jan 29 j 17:16	6°♉57'43	
evening set	-1915 May 03 j 06:04	10°♉14'41	
max. Earth dist.	-1915 May 19 j 06:49	11°♉12'04	19.88897 AU
conjunction	-1915 May 20 j 01:57	11°♉14'56	-0°10'29
minimum elong	-1915 May 20 j 01:57	11°♉14'56	0°10'27
behind sun begin	-1915 May 19 j 20:42	11°♉14'10	
behind sun end	-1915 May 20 j 07:12	11°♉15'42	
morning rise	-1915 Jun 05 j 21:38	12°♉15'11	
	-1915 Aug 03 j 00:34	15°♉	
retrograde	-1915 Sep 07 j 06:07	15°♉32'46	
	-1915 Oct 12 j 19:58	15°℞♉	
opposition	-1915 Nov 20 j 13:16	13°♉30'32	-0°09'40
min. Earth dist.	-1915 Nov 21 j 05:23	13°♉28'48	17.85593 AU
direct	-1914 Feb 03 j 10:39	11°♉27'15	
evening set	-1914 May 08 j 05:44	14°♉45'36	
	-1914 May 12 j 07:01	15°♉	
max. Earth dist.	-1914 May 24 j 05:53	15°♉43'07	19.82315 AU
conjunction	-1914 May 25 j 01:53	15°♉46'08	-0°06'58
minimum elong	-1914 May 25 j 01:52	15°♉46'08	0°06'56
behind sun begin	-1914 May 24 j 19:35	15°♉45'12	
behind sun end	-1914 May 25 j 08:09	15°♉47'03	
morning rise	-1914 Jun 10 j 21:08	16°♉46'36	
retrograde	-1914 Sep 12 j 02:01	20°♉04'47	
opposition	-1914 Nov 25 j 05:39	18°♉02'31	-0°05'41
min. Earth dist.	-1914 Nov 25 j 23:29	18°♉00'34	17.79060 AU
direct	-1913 Feb 08 j 05:09	15°♉58'52	
evening set	-1913 May 13 j 06:29	19°♉18'33	
max. Earth dist.	-1913 May 29 j 03:27	20°♉15'51	19.75836 AU
conjunction	-1913 May 30 j 02:32	20°♉19'21	-0°03'22
minimum elong	-1913 May 30 j 02:30	20°♉19'21	0°03'20
behind sun begin	-1913 May 29 j 19:45	20°♉18'21	
behind sun end	-1913 May 30 j 09:15	20°♉20'20	
morning rise	-1913 Jun 15 j 21:39	21°♉20'02	
retrograde	-1913 Sep 16 j 22:20	24°♉38'47	
opposition	-1913 Nov 29 j 22:46	22°♉36'27	-0°01'39
min. Earth dist.	-1913 Nov 30 j 18:09	22°♉34'20	17.72649 AU
direct	-1912 Feb 13 j 00:30	20°♉32'25	
asc. node	-1912 Apr 28 j 05:35	22°♉48'18	
evening set	-1912 May 17 j 07:55	23°♉53'26	
max. Earth dist.	-1912 Jun 02 j 04:22	24°♉50'52	19.69482 AU
conjunction	-1912 Jun 03 j 04:06	24°♉54'28	0°00'22
minimum elong	-1912 Jun 03 j 04:04	24°♉54'28	0°00'24
behind sun begin	-1912 Jun 02 j 21:19	24°♉53'28	
behind sun end	-1912 Jun 03 j 10:50	24°♉55'28	
morning rise	-1912 Jun 19 j 22:41	25°♉55'21	
retrograde	-1912 Sep 20 j 19:45	29°♉14'37	
opposition	-1912 Dec 03 j 16:45	27°♉12'13	0°02'26
min. Earth dist.	-1912 Dec 04 j 13:26	27°♉09'58	17.66371 AU
direct	-1911 Feb 16 j 21:17	25°♉07'49	
evening set	-1911 May 22 j 10:18	28°♉30'06	
max. Earth dist.	-1911 Jun 07 j 03:37	29°♉27'19	19.63299 AU
conjunction	-1911 Jun 08 j 06:06	29°♉31'22	0°04'06
minimum elong	-1911 Jun 08 j 06:06	29°♉31'22	0°04'08
behind sun begin	-1911 Jun 07 j 23:24	29°♉30'22	
behind sun end	-1911 Jun 08 j 12:47	29°♉32'22	
	-1911 Jun 16 j 01:31	0°♊	
morning rise	-1911 Jun 25 j 00:20	0°♊32'26	
retrograde	-1911 Sep 25 j 16:51	3°♊52'12	
opposition	-1911 Dec 08 j 11:30	1°♊49'43	0°06'31
min. Earth dist.	-1911 Dec 09 j 09:43	1°♊47'18	17.60313 AU
	-1910 Jan 28 j 19:47	30°℞♉	
direct	-1910 Feb 21 j 18:30	29°♉44'55	
	-1910 Mar 17 j 13:14	0°♊	
evening set	-1910 May 27 j 13:08	3°♊08'27	
max. Earth dist.	-1910 Jun 12 j 06:10	4°♊05'50	19.57369 AU
conjunction	-1910 Jun 13 j 08:49	4°♊09'55	0°07'45
minimum elong	-1910 Jun 13 j 08:49	4°♊09'55	0°07'47
behind sun begin	-1910 Jun 13 j 02:44	4°♊09'00	
behind sun end	-1910 Jun 13 j 14:54	4°♊10'50	
morning rise	-1910 Jun 30 j 02:19	5°♊11'08	
retrograde	-1910 Sep 30 j 15:30	8°♊31'22	
opposition	-1910 Dec 13 j 06:59	6°♊28'49	0°10'35
min. Earth dist.	-1910 Dec 14 j 05:48	6°♊26'19	17.54535 AU
direct	-1909 Feb 26 j 17:11	4°♊23'39	
evening set	-1909 Jun 01 j 16:34	7°♊48'20	
max. Earth dist.	-1909 Jun 17 j 07:02	8°♊45'34	19.51762 AU
conjunction	-1909 Jun 18 j 11:44	8°♊49'59	0°11'22
minimum elong	-1909 Jun 18 j 11:44	8°♊49'59	0°11'24
behind sun begin	-1909 Jun 18 j 06:53	8°♊49'16	
behind sun end	-1909 Jun 18 j 16:35	8°♊50'43	
morning rise	-1909 Jul 05 j 04:40	9°♊51'21	
retrograde	-1909 Oct 05 j 13:36	13°♊12'01	
opposition	-1909 Dec 18 j 03:16	11°♊09'23	0°14'36
min. Earth dist.	-1909 Dec 19 j 03:29	11°♊06'44	17.49129 AU
direct	-1908 Mar 02 j 15:39	9°♊03'51	
evening set	-1908 Jun 05 j 20:32	12°♊29'40	
max. Earth dist.	-1908 Jun 21 j 10:44	13°♊27'03	19.46557 AU
conjunction	-1908 Jun 22 j 15:20	13°♊31'29	0°14'56
minimum elong	-1908 Jun 22 j 15:20	13°♊31'29	0°14'59
behind sun begin	-1908 Jun 22 j 13:07	13°♊31'09	

Attention, astronomical year style is used: The year -1908 in astronomical counting style is the year 1909 BCE in historical counting style.

behind sun end	-1908 Jun	22 j 17:32	13°♊31'49	
morning rise	-1908 Jul	09 j 07:25	14°♊32'57	
retrograde	-1908 Oct	09 j 13:23	17°♊54'00	
opposition	-1908 Dec	22 j 00:07	15°♊51'19	0°18'32
min. Earth dist.	-1908 Dec	23 j 00:16	15°♊48'40	17.44148 AU
direct	-1907 Mar	07 j 15:55	13°♊45'27	
evening set	-1907 Jun	11 j 01:03	17°♊12'19	
conjunction	-1907 Jun	27 j 19:08	18°♊14'16	0°18'24
minimum elong	-1907 Jun	27 j 19:08	18°♊14'16	0°18'26
max. Earth dist.	-1907 Jun	26 j 13:21	18°♊09'38	19.41816 AU
morning rise	-1907 Jul	14 j 10:22	19°♊15'50	
retrograde	-1907 Oct	14 j 12:29	22°♊37'14	
opposition	-1907 Dec	26 j 21:55	20°♊34'30	0°22'22
min. Earth dist.	-1907 Dec	27 j 23:12	20°♊31'43	17.39686 AU
direct	-1906 Mar	12 j 15:05	18°♊28'21	
evening set	-1906 Jun	16 j 05:38	21°♊56'12	
conjunction	-1906 Jul	02 j 23:03	22°♊58'15	0°21'46
minimum elong	-1906 Jul	02 j 23:03	22°♊58'15	0°21'48
max. Earth dist.	-1906 Jul	01 j 17:40	22°♊53'40	19.37630 AU
morning rise	-1906 Jul	19 j 13:20	23°♊59'52	
retrograde	-1906 Oct	19 j 13:21	27°♊21'36	
opposition	-1906 Dec	31 j 20:16	25°♊18'52	0°26'03
min. Earth dist.	-1905 Jan	01 j 20:45	25°♊16'10	17.35791 AU
direct	-1905 Mar	17 j 16:52	23°♊12'29	
evening set	-1905 Jun	21 j 10:43	26°♊41'14	
max. Earth dist.	-1905 Jul	06 j 21:44	27°♊38'44	19.34033 AU
conjunction	-1905 Jul	08 j 03:20	27°♊43'22	0°25'00
minimum elong	-1905 Jul	08 j 03:19	27°♊43'22	0°25'02
morning rise	-1905 Jul	24 j 16:33	28°♊45'01	
	-1905 Aug	15 j 05:29	0°♋	
retrograde	-1905 Oct	24 j 12:38	2°♋07'02	
opposition	-1904 Jan	05 j 19:18	0°♋04'20	0°29'35
min. Earth dist.	-1904 Jan	06 j 20:44	0°♋01'32	17.32518 AU
	-1904 Jan	07 j 10:46	30°℞♊	
direct	-1904 Mar	21 j 16:40	27°♊57'48	
	-1904 May	31 j 07:14	0°♋	
evening set	-1904 Jun	25 j 16:04	1°♋27'22	
max. Earth dist.	-1904 Jul	11 j 02:22	2°♋24'55	19.31079 AU
conjunction	-1904 Jul	12 j 07:47	2°♋29'32	0°28'04
minimum elong	-1904 Jul	12 j 07:47	2°♋29'32	0°28'06
morning rise	-1904 Jul	28 j 20:00	3°♋31'12	
retrograde	-1904 Oct	28 j 14:05	6°♋53'28	
opposition	-1903 Jan	09 j 18:57	4°♋50'50	0°32'55
min. Earth dist.	-1903 Jan	10 j 19:15	4°♋48'10	17.29873 AU
direct	-1903 Mar	26 j 20:09	2°♋44'12	
evening set	-1903 Jun	30 j 21:31	6°♋14'31	
max. Earth dist.	-1903 Jul	16 j 07:33	7°♋12'10	19.28739 AU
conjunction	-1903 Jul	17 j 12:18	7°♋16'41	0°30'58
minimum elong	-1903 Jul	17 j 12:17	7°♋16'41	0°31'01
morning rise	-1903 Aug	02 j 23:14	8°♋18'20	
retrograde	-1903 Nov	02 j 13:42	11°♋40'49	
opposition	-1902 Jan	14 j 19:25	9°♋38'18	0°36'02
min. Earth dist.	-1902 Jan	15 j 20:29	9°♋35'33	17.27847 AU
direct	-1902 Mar	31 j 21:42	7°♋31'37	
evening set	-1902 Jul	06 j 03:08	11°♋02'32	
max. Earth dist.	-1902 Jul	21 j 11:59	12°♋00'09	19.27017 AU
conjunction	-1902 Jul	22 j 16:46	12°♋04'41	0°33'39
minimum elong	-1902 Jul	22 j 16:46	12°♋04'41	0°33'42
morning rise	-1902 Aug	08 j 02:40	13°♋06'17	
retrograde	-1902 Nov	07 j 15:11	16°♋28'56	
opposition	-1901 Jan	19 j 20:14	14°♋26'31	0°38'55
min. Earth dist.	-1901 Jan	20 j 20:03	14°♋23'55	17.26415 AU
direct	-1901 Apr	06 j 02:52	12°♋19'49	
evening set	-1901 Jul	11 j 08:37	15°♋51'13	
conjunction	-1901 Jul	27 j 21:18	16°♋53'20	0°36'07
minimum elong	-1901 Jul	27 j 21:18	16°♋53'20	0°36'09
max. Earth dist.	-1901 Jul	26 j 17:48	16°♋49'00	19.25857 AU
morning rise	-1901 Aug	13 j 05:50	17°♋54'52	
retrograde	-1901 Nov	12 j 15:02	21°♋17'36	
opposition	-1900 Jan	24 j 21:50	19°♋15'18	0°41'32
min. Earth dist.	-1900 Jan	25 j 22:13	19°♋12'38	17.25526 AU
direct	-1900 Apr	10 j 06:01	17°♋08'37	
evening set	-1900 Jul	15 j 14:15	20°♋40'22	
max. Earth dist.	-1900 Jul	30 j 21:46	21°♋37'59	19.25234 AU
conjunction	-1900 Aug	01 j 01:35	21°♋42'23	0°38'19
minimum elong	-1900 Aug	01 j 01:35	21°♋42'23	0°38'22
morning rise	-1900 Aug	17 j 09:01	22°♋43'49	
retrograde	-1900 Nov	16 j 16:43	26°♋06'35	
opposition	-1899 Jan	28 j 23:42	24°♋04'23	0°43'51
min. Earth dist.	-1899 Jan	29 j 22:47	24°♋01'52	17.25163 AU
direct	-1899 Apr	15 j 12:11	21°♋57'42	
evening set	-1899 Jul	20 j 19:29	25°♋29'40	
max. Earth dist.	-1899 Aug	05 j 03:49	26°♋27'29	19.25120 AU
conjunction	-1899 Aug	06 j 05:46	26°♋31'35	0°40'16
minimum elong	-1899 Aug	06 j 05:46	26°♋31'35	0°40'17
morning rise	-1899 Aug	22 j 11:44	27°♋32'54	
	-1899 Oct	07 j 21:10	0°♌	
retrograde	-1899 Nov	21 j 17:03	0°♌55'36	
	-1898 Jan	07 j 03:35	30°℞♋	