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

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

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

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

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

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

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

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

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

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

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

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

max. Earth dist.	-2340 Dec 05 j 18:10	26°♏55'02	10.93238 AU
morning rise	-2340 Dec 23 j 01:34	28°♏58'18	
	-2340 Dec 31 j 23:35	0°♐	
retrograde	-2339 Apr 05 j 03:00	6°♐14'16	
opposition	-2339 Jun 15 j 03:07	2°♐52'56	0°38'28
min. Earth dist.	-2339 Jun 15 j 15:06	2°♐50'41	8.87451 AU
	-2339 Jul 31 j 19:55	30°℞♏	
direct	-2339 Aug 23 j 19:04	29°♏33'53	
	-2339 Sep 15 j 10:55	0°♐	
evening set	-2339 Dec 01 j 09:14	6°♐40'11	

conjunction	-2339 Dec 18 j 02:23	8°♐40'37	0°17'10
minimum elong	-2339 Dec 18 j 02:24	8°♐40'37	0°17'07
max. Earth dist.	-2339 Dec 17 j 12:52	8°♐36'32	10.81363 AU
morning rise	-2338 Jan 03 j 22:47	10°♐42'04	
retrograde	-2338 Apr 17 j 22:21	18°♐07'53	
opposition	-2338 Jun 27 j 18:08	14°♐44'58	0°02'33
min. Earth dist.	-2338 Jun 28 j 05:03	14°♐42'54	8.74786 AU
desc. node	-2338 Jul 23 j 22:27	12°♐52'56	
direct	-2338 Sep 04 j 20:14	11°♐25'15	
evening set	-2338 Dec 13 j 09:06	18°♐38'18	

conjunction	-2338 Dec 30 j 05:15	20°♐41'16	-0°12'43
minimum elong	-2338 Dec 30 j 05:14	20°♐41'16	0°12'47
behind sun begin	-2338 Dec 30 j 00:46	20°♐39'54	
behind sun end	-2338 Dec 30 j 09:42	20°♐42'37	
max. Earth dist.	-2338 Dec 29 j 17:47	20°♐37'46	10.68087 AU
morning rise	-2337 Jan 16 j 05:09	22°♐45'29	
	-2337 Apr 09 j 22:38	0°♑	
retrograde	-2337 May 01 j 03:06	0°♑22'21	
	-2337 May 22 j 12:05	30°℞♐	
opposition	-2337 Jul 10 j 16:04	26°♐57'47	-0°34'36
min. Earth dist.	-2337 Jul 11 j 00:50	26°♐56'07	8.61003 AU
direct	-2337 Sep 17 j 03:26	23°♐37'13	
	-2337 Dec 17 j 16:28	0°♑	
evening set	-2337 Dec 25 j 19:28	0°♑58'33	

conjunction	-2336 Jan 11 j 18:44	3°♑04'19	-0°42'46
minimum elong	-2336 Jan 11 j 18:43	3°♑04'18	0°42'49
max. Earth dist.	-2336 Jan 11 j 09:09	3°♑01'20	10.53954 AU
morning rise	-2336 Jan 28 j 22:20	5°♑11'30	
retrograde	-2336 May 13 j 18:49	13°♑00'12	
opposition	-2336 Jul 22 j 21:27	9°♑34'02	-1°11'23
min. Earth dist.	-2336 Jul 23 j 04:00	9°♑32'46	8.46703 AU
direct	-2336 Sep 28 j 17:49	6°♑12'27	
evening set	-2335 Jan 06 j 17:36	13°♑43'20	

conjunction	-2335 Jan 23 j 20:08	15°♑52'03	-1°11'35
minimum elong	-2335 Jan 23 j 20:05	15°♑52'02	1°11'39
max. Earth dist.	-2335 Jan 23 j 12:19	15°♑49'35	10.39620 AU
morning rise	-2335 Feb 10 j 03:35	18°♑02'21	
retrograde	-2335 May 27 j 20:18	26°♑03'07	
opposition	-2335 Aug 05 j 10:57	22°♑35'27	-1°45'50
min. Earth dist.	-2335 Aug 05 j 15:22	22°♑34'35	8.32586 AU
direct	-2335 Oct 11 j 16:06	19°♑12'42	
evening set	-2334 Jan 20 j 04:17	26°♑54'00	

conjunction	-2334 Feb 06 j 10:20	29°♑05'43	-1°37'32
minimum elong	-2334 Feb 06 j 10:16	29°♑05'42	1°37'34
max. Earth dist.	-2334 Feb 06 j 05:10	29°♑04'04	10.25824 AU
	-2334 Feb 13 j 11:57	0°♒	
morning rise	-2334 Feb 23 j 21:39	1°♒19'07	
retrograde	-2334 Jun 11 j 06:14	9°♒31'26	
opposition	-2334 Aug 19 j 08:12	6°♒02'27	-2°15'43
min. Earth dist.	-2334 Aug 19 j 10:26	6°♒01'59	8.19409 AU
direct	-2334 Oct 25 j 00:52	2°♒38'27	
evening set	-2333 Feb 03 j 04:09	10°♒30'30	

conjunction	-2333 Feb 20 j 14:00	12°♒45'09	-1°58'47
minimum elong	-2333 Feb 20 j 13:57	12°♒45'08	1°58'49
max. Earth dist.	-2333 Feb 20 j 12:33	12°♒44'41	10.13337 AU
morning rise	-2333 Mar 10 j 05:02	15°♒01'28	
	-2333 Mar 10 j 00:24	15°♒	
retrograde	-2333 Jun 25 j 23:08	23°♒23'51	
opposition	-2333 Sep 02 j 12:14	19°♒53'49	-2°38'45
min. Earth dist.	-2333 Sep 02 j 11:43	19°♒53'55	8.07937 AU
direct	-2333 Nov 07 j 20:08	16°♒28'33	
evening set	-2332 Feb 17 j 16:28	24°♒30'54	

conjunction	-2332 Mar 06 j 06:18	26°♒48'17	-2°13'36
minimum elong	-2332 Mar 06 j 06:16	26°♒48'17	2°13'37
max. Earth dist.	-2332 Mar 06 j 09:01	26°♒49'11	10.02922 AU
morning rise	-2332 Mar 24 j 00:49	29°♒07'12	
	-2332 Mar 30 j 22:51	0°♓	
retrograde	-2332 Jul 09 j 22:01	7°♓37'12	
opposition	-2332 Sep 15 j 22:04	4°♓06'25	-2°52'45
min. Earth dist.	-2332 Sep 15 j 18:26	4°♓07'10	7.98883 AU
direct	-2332 Nov 20 j 22:56	0°♓39'58	
evening set	-2331 Mar 03 j 15:27	8°♓51'14	

conjunction	-2331 Mar 21 j 09:18	11°♓10'58	-2°20'31
minimum elong	-2331 Mar 21 j 09:17	11°♓10'58	2°20'31
max. Earth dist.	-2331 Mar 21 j 16:17	11°♓13'16	9.95260 AU
morning rise	-2331 Apr 08 j 07:04	13°♓31'59	
retrograde	-2331 Jul 25 j 00:41	22°♓06'16	
opposition	-2331 Sep 30 j 11:48	18°♓35'07	-2°56'09
min. Earth dist.	-2331 Sep 30 j 05:06	18°♓36'31	7.92831 AU
direct	-2331 Dec 05 j 09:18	15°♓07'33	
evening set	-2330 Mar 18 j 22:50	23°♓25'37	

conjunction	-2330 Apr 05 j 20:34	25°♓47'07	-2°18'36
minimum elong	-2330 Apr 05 j 20:36	25°♓47'08	2°18'36
max. Earth dist.	-2330 Apr 06 j 07:01	25°♓50'35	9.90848 AU
morning rise	-2330 Apr 23 j 21:14	28°♓09'36	
	-2330 May 08 j 09:14	0°♈	
retrograde	-2330 Aug 09 j 03:14	6°♈44'12	
opposition	-2330 Oct 15 j 03:04	3°♈13'08	-2°48'10
min. Earth dist.	-2330 Oct 14 j 18:13	3°♈14'58	7.90140 AU
	-2330 Dec 03 j 16:18	30°℞♓	
direct	-2330 Dec 20 j 01:42	29°♓44'34	
	-2329 Jan 05 j 11:26	0°♈	
evening set	-2329 Apr 03 j 11:12	8°♈06'47	

conjunction	-2329 Apr 21 j 12:19	10°♈29'20	-2°07'44
minimum elong	-2329 Apr 21 j 12:22	10°♈29'21	2°07'43
max. Earth dist.	-2329 Apr 22 j 00:50	10°♈33'29	9.89907 AU
morning rise	-2329 May 09 j 15:12	12°♈52'28	
retrograde	-2329 Aug 24 j 02:42	21°♈23'32	
opposition	-2329 Oct 29 j 17:50	17°♈53'00	-2°29'12
min. Earth dist.	-2329 Oct 29 j 07:59	17°♈55'03	7.90886 AU
direct	-2328 Jan 03 j 22:12	14°♈23'42	
evening set	-2328 Apr 18 j 00:44	22°♈47'11	

conjunction	-2328 May 06 j 04:19	25°♈09'58	-1°48'37
minimum elong	-2328 May 06 j 04:23	25°♈10'00	1°48'35
max. Earth dist.	-2328 May 06 j 17:53	25°♈14'27	9.92399 AU
morning rise	-2328 May 24 j 08:22	27°♈32'54	
	-2328 Jun 12 j 23:25	0°♉	
retrograde	-2328 Sep 06 j 19:59	5°♉57'08	
opposition	-2328 Nov 12 j 05:56	2°♉27'35	-2°00'40
min. Earth dist.	-2328 Nov 11 j 19:39	2°♉29'44	7.94987 AU
	-2328 Dec 15 j 01:59	30°℞♈	
direct	-2327 Jan 17 j 20:04	28°♈57'53	
	-2327 Feb 20 j 10:52	0°♉	
evening set	-2327 May 03 j 12:11	7°♉19'48	

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

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

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

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

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

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

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

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

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

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

conjunction	-2272 Mar 22 j 07:49	12°♓45'46	-2°20'38
minimum elong	-2272 Mar 22 j 07:49	12°♓45'46	2°20'39
max. Earth dist.	-2272 Mar 22 j 14:38	12°♓48'01	9.94996 AU
morning rise	-2272 Apr 09 j 05:39	15°♓06'51	
retrograde	-2272 Jul 26 j 00:04	23°♓41'13	
opposition	-2272 Oct 01 j 09:30	20°♓10'03	-2°55'53
min. Earth dist.	-2272 Oct 01 j 02:48	20°♓11'27	7.92568 AU
direct	-2272 Dec 06 j 06:51	16°♓42'24	
evening set	-2271 Mar 19 j 21:30	25°♓00'48	
conjunction	-2271 Apr 06 j 19:17	27°♓22'22	-2°18'04
minimum elong	-2271 Apr 06 j 19:19	27°♓22'23	2°18'03
max. Earth dist.	-2271 Apr 07 j 05:09	27°♓25'38	9.90605 AU
morning rise	-2271 Apr 24 j 20:05	29°♓44'55	
	-2271 Apr 26 j 18:41	0°♈	
retrograde	-2271 Aug 10 j 02:01	8°♈19'34	
opposition	-2271 Oct 16 j 01:00	4°♈48'30	-2°47'04
min. Earth dist.	-2271 Oct 15 j 16:32	4°♈50'16	7.89936 AU
direct	-2271 Dec 20 j 23:59	1°♈19'53	
evening set	-2270 Apr 04 j 10:00	9°♈42'22	
conjunction	-2270 Apr 22 j 11:11	12°♈04'58	-2°06'33
minimum elong	-2270 Apr 22 j 11:14	12°♈05'00	2°06'31
max. Earth dist.	-2270 Apr 22 j 23:00	12°♈08'54	9.89772 AU
morning rise	-2270 May 10 j 14:16	14°♈28'10	
retrograde	-2270 Aug 25 j 00:33	22°♈59'07	
opposition	-2270 Oct 30 j 15:52	19°♈28'37	-2°27'20
min. Earth dist.	-2270 Oct 30 j 06:32	19°♈30'34	7.90829 AU
direct	-2269 Jan 04 j 20:48	15°♈59'15	
evening set	-2269 Apr 19 j 23:44	24°♈22'49	
conjunction	-2269 May 08 j 03:22	26°♈45'38	-1°46'52
minimum elong	-2269 May 08 j 03:26	26°♈45'39	1°46'49
max. Earth dist.	-2269 May 08 j 16:13	26°♈49'52	9.92427 AU
morning rise	-2269 May 26 j 07:36	29°♈08'33	
	-2269 Jun 02 j 00:22	0°♉	
retrograde	-2269 Sep 08 j 17:11	7°♉32'29	
opposition	-2269 Nov 14 j 03:50	4°♉02'58	-1°58'10
min. Earth dist.	-2269 Nov 13 j 17:56	4°♉05'02	7.95077 AU
direct	-2268 Jan 19 j 18:21	0°♉33'13	
evening set	-2268 May 04 j 11:04	8°♉55'04	
conjunction	-2268 May 22 j 15:55	11°♉17'11	-1°20'32
minimum elong	-2268 May 22 j 15:59	11°♉17'12	1°20'29
max. Earth dist.	-2268 May 23 j 05:17	11°♉21'33	9.98332 AU
morning rise	-2268 Jun 09 j 19:57	13°♉38'56	
	-2268 Jun 20 j 13:02	15°♉	
retrograde	-2268 Sep 22 j 02:24	21°♉53'20	
opposition	-2268 Nov 27 j 11:12	18°♉25'08	-1°21'57
min. Earth dist.	-2268 Nov 27 j 00:47	18°♉27'17	8.02428 AU
	-2267 Jan 24 j 11:02	15°℞♉	
direct	-2267 Feb 02 j 14:54	14°♉55'19	
	-2267 Feb 11 j 18:43	15°♉	
evening set	-2267 May 19 j 16:50	23°♉12'52	
conjunction	-2267 Jun 06 j 21:23	25°♉33'22	-0°49'37
minimum elong	-2267 Jun 06 j 21:26	25°♉33'23	0°49'34
max. Earth dist.	-2267 Jun 07 j 10:54	25°♉37'45	10.07170 AU
morning rise	-2267 Jun 24 j 23:42	27°♉53'05	
	-2267 Jul 12 j 03:52	0°♊	
retrograde	-2267 Oct 06 j 01:55	5°♊56'14	
opposition	-2267 Dec 11 j 12:31	2°♊29'33	-0°41'33
min. Earth dist.	-2267 Dec 11 j 01:45	2°♊31'46	8.12492 AU
	-2266 Jan 14 j 12:15	30°℞♉	
direct	-2266 Feb 17 j 07:27	29°♉00'01	
	-2266 Mar 22 j 23:11	0°♊	
evening set	-2266 Jun 03 j 14:31	7°♊11'05	

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

conjunction	-2266 Jun 21 j 17:04	9°♊29'08	-0°16'25
minimum elong	-2266 Jun 21 j 17:05	9°♊29'08	0°16'22
max. Earth dist.	-2266 Jun 22 j 06:21	9°♊33'23	10.18432 AU
morning rise	-2266 Jul 09 j 16:05	11°♊46'03	
retrograde	-2266 Oct 19 j 15:46	19°♊37'08	
asc. node	-2266 Dec 24 j 00:14	16°♊18'18	
opposition	-2266 Dec 25 j 06:43	16°♊12'07	0°00'08
min. Earth dist.	-2266 Dec 24 j 20:21	16°♊14'13	8.24684 AU
direct	-2265 Mar 03 j 17:28	12°♊43'09	
evening set	-2265 Jun 18 j 01:49	20°♊46'06	
conjunction	-2265 Jul 06 j 00:52	23°♊01'07	0°16'57
minimum elong	-2265 Jul 06 j 00:51	23°♊01'07	0°17'00
max. Earth dist.	-2265 Jul 06 j 13:16	23°♊05'01	10.31451 AU
morning rise	-2265 Jul 23 j 19:24	25°♊14'44	
	-2265 Sep 04 j 17:21	0°♋	
retrograde	-2265 Nov 01 j 20:27	2°♋53'48	
	-2264 Jan 01 j 13:08	30°℞♊	
opposition	-2264 Jan 07 j 17:24	29°♊30'27	0°40'30
min. Earth dist.	-2264 Jan 07 j 08:27	29°♊32'14	8.38301 AU
direct	-2264 Mar 16 j 19:06	26°♊02'17	
	-2264 May 27 j 03:51	0°♋	
evening set	-2264 Jul 01 j 01:21	3°♋56'10	
conjunction	-2264 Jul 18 j 19:44	6°♋07'47	0°48'27
minimum elong	-2264 Jul 18 j 19:41	6°♋07'47	0°48'30
max. Earth dist.	-2264 Jul 19 j 06:02	6°♋10'59	10.45481 AU
morning rise	-2264 Aug 05 j 09:05	8°♋17'51	
retrograde	-2264 Nov 13 j 14:49	15°♋45'34	
opposition	-2263 Jan 19 j 20:19	12°♋23'51	1°17'27
min. Earth dist.	-2263 Jan 19 j 13:25	12°♋25'13	8.52578 AU
direct	-2263 Mar 30 j 13:19	8°♋56'39	
evening set	-2263 Jul 14 j 12:58	16°♋41'09	
conjunction	-2263 Aug 01 j 01:57	18°♋49'16	1°16'41
minimum elong	-2263 Aug 01 j 01:54	18°♋49'15	1°16'43
max. Earth dist.	-2263 Aug 01 j 09:13	18°♋51'29	10.59769 AU
morning rise	-2263 Aug 18 j 09:50	20°♋55'48	
retrograde	-2263 Nov 25 j 22:40	28°♋13'16	
opposition	-2262 Feb 01 j 15:43	24°♋53'03	1°49'27
min. Earth dist.	-2262 Feb 01 j 10:49	24°♋54'00	8.66779 AU
direct	-2262 Apr 12 j 23:54	21°♋26'59	
evening set	-2262 Jul 27 j 12:37	29°♋02'11	
	-2262 Aug 04 j 14:25	0°♌	
conjunction	-2262 Aug 13 j 20:04	1°♌06'54	1°40'33
minimum elong	-2262 Aug 13 j 20:00	1°♌06'53	1°40'36
max. Earth dist.	-2262 Aug 14 j 00:19	1°♌08'11	10.73622 AU
morning rise	-2262 Aug 30 j 22:31	3°♌10'05	
retrograde	-2262 Dec 08 j 00:44	10°♌18'48	
opposition	-2261 Feb 14 j 04:30	6°♌59'52	2°15'30
min. Earth dist.	-2261 Feb 14 j 00:59	7°♌00'32	8.80237 AU
direct	-2261 Apr 26 j 00:55	3°♌35'03	
evening set	-2261 Aug 09 j 00:51	11°♌01'22	
conjunction	-2261 Aug 26 j 03:04	13°♌03'01	1°59'24
minimum elong	-2261 Aug 26 j 03:01	13°♌03'00	1°59'26
max. Earth dist.	-2261 Aug 26 j 05:26	13°♌03'43	10.86432 AU
	-2261 Sep 11 j 13:23	15°♌	
morning rise	-2261 Sep 12 j 00:24	15°♌03'13	
retrograde	-2261 Dec 19 j 20:28	22°♌04'44	
opposition	-2260 Feb 26 j 11:23	18°♌46'52	2°35'02
min. Earth dist.	-2260 Feb 26 j 09:43	18°♌47'11	8.92382 AU
direct	-2260 May 07 j 16:19	15°♌23'19	
evening set	-2260 Aug 20 j 03:10	22°♌41'34	
conjunction	-2260 Sep 06 j 00:40	24°♌40'33	2°12'50
minimum elong	-2260 Sep 06 j 00:38	24°♌40'33	2°12'51
max. Earth dist.	-2260 Sep 06 j 00:57	24°♌40'38	10.97684 AU
morning rise	-2260 Sep 22 j 17:32	26°♌38'15	
	-2260 Oct 23 j 23:29	0°♍	
retrograde	-2260 Dec 30 j 11:41	3°♍34'11	
opposition	-2259 Mar 09 j 13:20	0°♍17'10	2°47'49
min. Earth dist.	-2259 Mar 09 j 14:22	0°♍16'59	9.02748 AU
	-2259 Mar 13 j 09:14	30°℞♌	
direct	-2259 May 20 j 01:13	26°♌54'52	
	-2259 Jul 23 j 10:30	0°♍	
evening set	-2259 Aug 31 j 20:58	4°♍06'03	
conjunction	-2259 Sep 17 j 14:20	6°♍02'53	2°20'42
minimum elong	-2259 Sep 17 j 14:19	6°♍02'53	2°20'44
max. Earth dist.	-2259 Sep 17 j 11:32	6°♍02'04	11.06973 AU
morning rise	-2259 Oct 04 j 03:48	7°♍58'37	
retrograde	-2258 Jan 10 j 22:51	14°♍50'38	
opposition	-2258 Mar 21 j 11:47	11°♍34'14	2°53'49
min. Earth dist.	-2258 Mar 21 j 15:26	11°♍33'33	9.10970 AU
direct	-2258 Jun 01 j 02:54	8°♍13'07	
evening set	-2258 Sep 12 j 07:32	15°♍18'20	
conjunction	-2258 Sep 28 j 21:39	17°♍13'33	2°23'03
minimum elong	-2258 Sep 28 j 21:39	17°♍13'33	2°23'04
max. Earth dist.	-2258 Sep 28 j 15:58	17°♍11'54	11.13986 AU
morning rise	-2258 Oct 15 j 08:45	19°♍07'55	
retrograde	-2257 Jan 22 j 07:49	25°♍57'43	
opposition	-2257 Apr 02 j 07:38	22°♍41'38	2°53'13
min. Earth dist.	-2257 Apr 02 j 12:48	22°♍40'41	9.16764 AU
direct	-2257 Jun 13 j 00:52	19°♍21'35	
evening set	-2257 Sep 23 j 12:44	26°♍22'06	
conjunction	-2257 Oct 10 j 00:46	28°♍16'18	2°20'00
minimum elong	-2257 Oct 10 j 00:46	28°♍16'18	2°20'00
max. Earth dist.	-2257 Oct 09 j 17:40	28°♍14'14	11.18488 AU
	-2257 Oct 24 j 23:49	0°♎	
morning rise	-2257 Oct 26 j 10:21	0°♎09'50	
retrograde	-2256 Feb 02 j 18:58	6°♎59'04	
opposition	-2256 Apr 13 j 02:00	3°♎43'01	2°46'15
min. Earth dist.	-2256 Apr 13 j 08:23	3°♎41'51	9.19937 AU
direct	-2256 Jun 23 j 18:12	0°♎23'55	
evening set	-2256 Oct 03 j 14:23	7°♎21'01	
conjunction	-2256 Oct 20 j 01:14	9°♎14'45	2°11'48
minimum elong	-2256 Oct 20 j 01:15	9°♎14'45	2°11'48
max. Earth dist.	-2256 Oct 19 j 16:50	9°♎12'19	11.20321 AU
morning rise	-2256 Nov 05 j 10:17	11°♎08'04	
retrograde	-2255 Feb 13 j 05:41	17°♎58'21	
opposition	-2255 Apr 24 j 20:27	14°♎42'04	2°33'16
min. Earth dist.	-2255 Apr 25 j 04:43	14°♎40'34	9.20382 AU
direct	-2255 Jul 05 j 07:18	11°♎23'41	
evening set	-2255 Oct 14 j 14:18	18°♎18'48	
conjunction	-2255 Oct 31 j 00:36	20°♎12'35	1°58'46
minimum elong	-2255 Oct 31 j 00:39	20°♎12'36	1°58'45
max. Earth dist.	-2255 Oct 30 j 13:56	20°♎09'29	11.19431 AU
morning rise	-2255 Nov 16 j 10:14	22°♎06'14	
retrograde	-2254 Feb 24 j 19:50	28°♎59'13	
opposition	-2254 May 06 j 16:04	25°♎42'27	2°14'39
min. Earth dist.	-2254 May 07 j 02:07	25°♎40'37	9.18097 AU
direct	-2254 Jul 16 j 21:00	22°♎24'32	
evening set	-2254 Oct 25 j 14:17	29°♎19'06	
	-2254 Oct 31 j 12:35	0°♏	
conjunction	-2254 Nov 11 j 01:00	1°♏13'30	1°41'18
minimum elong	-2254 Nov 11 j 01:03	1°♏13'30	1°41'16
max. Earth dist.	-2254 Nov 10 j 12:58	1°♏09'59	11.15854 AU

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

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

conjunction	-2247 Jan 19 j 01:10	11°♑42'41	-1°00'55
minimum elong	-2247 Jan 19 j 01:08	11°♑42'41	1°00'58
max. Earth dist.	-2247 Jan 18 j 15:45	11°♑39'45	10.49140 AU
morning rise	-2247 Feb 05 j 06:37	13°♑51'06	
retrograde	-2247 May 22 j 12:43	21°♑44'45	
opposition	-2247 Jul 31 j 10:16	18°♑18'15	-1°33'00
min. Earth dist.	-2247 Jul 31 j 16:40	18°♑17'00	8.41714 AU
direct	-2247 Oct 06 j 23:38	14°♑56'29	
evening set	-2246 Jan 15 j 03:58	22°♑31'25	
conjunction	-2246 Feb 01 j 08:17	24°♑41'22	-1°28'00
minimum elong	-2246 Feb 01 j 08:14	24°♑41'21	1°28'02
max. Earth dist.	-2246 Feb 01 j 00:57	24°♑39'02	10.34487 AU
morning rise	-2246 Feb 18 j 17:35	26°♑52'55	
	-2246 Mar 17 j 03:25	0°♒	
retrograde	-2246 Jun 05 j 17:59	4°♒58'34	
opposition	-2246 Aug 14 j 02:43	1°♒30'27	-2°04'43
min. Earth dist.	-2246 Aug 14 j 06:48	1°♒29'38	8.27435 AU
	-2246 Sep 02 j 18:07	30℞♑	
direct	-2246 Oct 20 j 02:11	28°♑07'15	
	-2246 Dec 04 j 22:26	0°♒	
evening set	-2245 Jan 28 j 20:46	5°♒53'01	
conjunction	-2245 Feb 15 j 04:41	8°♒05'59	-1°51'09
minimum elong	-2245 Feb 15 j 04:38	8°♒05'58	1°51'11
max. Earth dist.	-2245 Feb 14 j 23:39	8°♒04'21	10.20677 AU
morning rise	-2245 Mar 04 j 17:48	10°♒20'38	
	-2245 Apr 14 j 06:10	15°♒	
retrograde	-2245 Jun 20 j 07:26	18°♒37'17	
opposition	-2245 Aug 28 j 02:26	15°♒07'46	-2°30'35
min. Earth dist.	-2245 Aug 28 j 04:27	15°♒07'21	8.14416 AU
	-2245 Aug 29 j 16:52	15℞♒	
direct	-2245 Nov 02 j 14:17	11°♒43'04	
	-2244 Jan 02 j 20:26	15°♒	
evening set	-2244 Feb 12 j 02:17	19°♒39'40	
conjunction	-2244 Feb 29 j 14:04	21°♒55'33	-2°08'38
minimum elong	-2244 Feb 29 j 14:01	21°♒55'32	2°08'39
max. Earth dist.	-2244 Feb 29 j 12:24	21°♒55'00	10.08514 AU
morning rise	-2244 Mar 18 j 06:53	24°♒13'03	
	-2244 May 09 j 00:07	0°♓	
retrograde	-2244 Jul 04 j 03:21	2°♓38'50	
	-2244 Aug 30 j 17:04	30℞♒	
opposition	-2244 Sep 10 j 08:47	29°♒08'13	-2°48'22
min. Earth dist.	-2244 Sep 10 j 08:18	29°♒08'19	8.03431 AU
direct	-2244 Nov 15 j 12:53	25°♒42'04	
	-2243 Jan 25 j 05:10	0°♓	
evening set	-2243 Feb 25 j 19:22	3°♓48'38	
conjunction	-2243 Mar 15 j 11:13	6°♓07'10	-2°18'49
minimum elong	-2243 Mar 15 j 11:13	6°♓07'09	2°18'49
max. Earth dist.	-2243 Mar 15 j 13:34	6°♓07'56	9.98755 AU
morning rise	-2243 Apr 02 j 07:34	8°♓27'08	
retrograde	-2243 Jul 19 j 02:49	16°♓59'14	
opposition	-2243 Sep 24 j 20:06	13°♓27'54	-2°56'12
min. Earth dist.	-2243 Sep 24 j 16:48	13°♓28'35	7.95169 AU
direct	-2243 Nov 29 j 20:21	10°♓00'24	
evening set	-2242 Mar 12 j 22:24	18°♓15'16	
conjunction	-2242 Mar 30 j 18:23	20°♓36'01	-2°20'32
minimum elong	-2242 Mar 30 j 18:24	20°♓36'01	2°20'32
max. Earth dist.	-2242 Mar 31 j 00:44	20°♓38'07	9.92038 AU
morning rise	-2242 Apr 17 j 17:54	22°♓57'54	
	-2242 Jun 22 j 15:32	0°♈	
retrograde	-2242 Aug 03 j 04:21	1°♈32'39	
	-2242 Sep 14 j 03:44	30℞♓	
opposition	-2242 Oct 09 j 10:19	28°♓01'04	-2°52'54

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

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

max. Earth dist.	-2236 Jun 29 j 04:01	16°♊54'40	10.23877 AU
morning rise	-2236 Jul 16 j 12:18	19°♊06'03	
retrograde	-2236 Oct 25 j 23:38	26°♊51'19	
opposition	-2236 Dec 31 j 18:04	23°♊26'52	0°21'24
min. Earth dist.	-2236 Dec 31 j 08:03	23°♊28'53	8.30639 AU
direct	-2235 Mar 10 j 12:42	19°♊58'02	
evening set	-2235 Jun 24 j 19:57	27°♊56'49	
	-2235 Jul 11 j 08:04	0°♋	
conjunction	-2235 Jul 12 j 16:44	0°♋10'14	0°33'38
minimum elong	-2235 Jul 12 j 16:42	0°♋10'14	0°33'41
max. Earth dist.	-2235 Jul 13 j 04:08	0°♋13'48	10.37833 AU
morning rise	-2235 Jul 30 j 08:55	2°♋22'10	
retrograde	-2235 Nov 07 j 23:12	9°♋55'40	
opposition	-2234 Jan 14 j 00:51	6°♋33'04	1°00'16
min. Earth dist.	-2234 Jan 13 j 15:40	6°♋34'53	8.45015 AU
direct	-2234 Mar 24 j 11:03	3°♋05'20	
evening set	-2234 Jul 08 j 13:43	10°♋54'49	
conjunction	-2234 Jul 26 j 05:29	13°♋04'43	1°03'38
minimum elong	-2234 Jul 26 j 05:26	13°♋04'43	1°03'41
max. Earth dist.	-2234 Jul 26 j 15:25	13°♋07'47	10.52425 AU
morning rise	-2234 Aug 12 j 16:05	15°♋13'03	
retrograde	-2234 Nov 20 j 13:11	22°♋35'45	
opposition	-2233 Jan 27 j 00:14	19°♋14'53	1°34'50
min. Earth dist.	-2233 Jan 26 j 16:43	19°♋16'22	8.59682 AU
direct	-2233 Apr 07 j 01:03	15°♋48'27	
evening set	-2233 Jul 21 j 19:34	23°♋28'29	
conjunction	-2233 Aug 08 j 05:51	25°♋34'53	1°29'43
minimum elong	-2233 Aug 08 j 05:48	25°♋34'52	1°29'46
max. Earth dist.	-2233 Aug 08 j 13:40	25°♋37'16	10.66922 AU
morning rise	-2233 Aug 25 j 10:48	27°♋39'43	
	-2233 Sep 14 j 20:51	0°♌	
retrograde	-2233 Dec 02 j 19:56	4°♌52'52	
opposition	-2232 Feb 08 j 16:41	1°♌33'35	2°03'50
min. Earth dist.	-2232 Feb 08 j 11:48	1°♌34'31	8.73935 AU
	-2232 Feb 29 j 18:05	30°℞♋	
direct	-2232 Apr 19 j 05:19	28°♋08'29	
	-2232 Jun 06 j 19:47	0°♌	
evening set	-2232 Aug 02 j 13:51	5°♌39'21	
conjunction	-2232 Aug 19 j 18:36	7°♌42'29	1°51'03
minimum elong	-2232 Aug 19 j 18:33	7°♌42'28	1°51'05
max. Earth dist.	-2232 Aug 19 j 23:04	7°♌43'49	10.80653 AU
morning rise	-2232 Sep 05 j 18:19	9°♌44'07	
	-2232 Oct 28 j 04:21	15°♌	
retrograde	-2232 Dec 13 j 18:03	16°♌49'11	
	-2231 Jan 30 j 21:57	15°℞♌	
opposition	-2231 Feb 20 j 02:50	13°♌31'13	2°26'31
min. Earth dist.	-2231 Feb 20 j 00:27	13°♌31'40	8.87116 AU
direct	-2231 May 02 j 01:49	10°♌07'28	
	-2231 Jul 23 j 11:04	15°♌	
evening set	-2231 Aug 14 j 21:36	17°♌29'48	
conjunction	-2231 Aug 31 j 21:10	19°♌30'00	2°07'05
minimum elong	-2231 Aug 31 j 21:07	19°♌30'00	2°07'07
max. Earth dist.	-2231 Aug 31 j 22:09	19°♌30'18	10.93014 AU
morning rise	-2231 Sep 17 j 16:12	21°♌28'52	
retrograde	-2231 Dec 25 j 11:00	28°♌27'29	
opposition	-2230 Mar 04 j 07:33	25°♌10'32	2°42'30
min. Earth dist.	-2230 Mar 04 j 07:09	25°♌10'36	8.98644 AU
direct	-2230 May 14 j 16:27	21°♌48'05	
evening set	-2230 Aug 26 j 19:50	29°♌02'44	
	-2230 Sep 04 j 01:06	0°♍	
conjunction	-2230 Sep 12 j 15:02	1°♍00'31	2°17'35

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

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

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

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

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

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

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

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

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

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

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

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

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

conjunction	-2156 Feb 24 j 05:52	17°♒21'54	-2°02'42
minimum elong	-2156 Feb 24 j 05:49	17°♒21'53	2°02'43
max. Earth dist.	-2156 Feb 24 j 04:04	17°♒21'19	10.13529 AU
morning rise	-2156 Mar 12 j 20:56	19°♒38'08	
retrograde	-2156 Jun 28 j 14:38	28°♒00'07	
opposition	-2156 Sep 05 j 02:36	24°♒29'53	-2°42'33
min. Earth dist.	-2156 Sep 05 j 01:57	24°♒30'01	8.08081 AU
direct	-2156 Nov 10 j 09:38	21°♒04'24	
evening set	-2155 Feb 20 j 07:52	29°♒06'37	
	-2155 Feb 27 j 05:00	0°♓	
conjunction	-2155 Mar 09 j 21:52	1°♓23'59	-2°15'47
minimum elong	-2155 Mar 09 j 21:50	1°♓23'59	2°15'48
max. Earth dist.	-2155 Mar 09 j 23:17	1°♓24'27	10.03001 AU
morning rise	-2155 Mar 27 j 16:38	3°♓42'54	
retrograde	-2155 Jul 13 j 13:59	12°♓12'28	
opposition	-2155 Sep 19 j 11:57	8°♓41'32	-2°54'18
min. Earth dist.	-2155 Sep 19 j 09:03	8°♓42'08	7.98905 AU
direct	-2155 Nov 24 j 11:59	5°♓14'50	
evening set	-2154 Mar 07 j 06:59	13°♓26'10	
conjunction	-2154 Mar 25 j 01:04	15°♓45'55	-2°20'49
minimum elong	-2154 Mar 25 j 01:05	15°♓45'55	2°20'49
max. Earth dist.	-2154 Mar 25 j 06:04	15°♓47'34	9.95234 AU
morning rise	-2154 Apr 11 j 23:16	18°♓06'59	
retrograde	-2154 Jul 28 j 16:01	26°♓40'47	
opposition	-2154 Oct 04 j 01:10	23°♓09'36	-2°55'18
min. Earth dist.	-2154 Oct 03 j 19:56	23°♓10'42	7.92761 AU
direct	-2154 Dec 08 j 23:26	19°♓41'48	
evening set	-2153 Mar 22 j 14:27	28°♓00'08	
	-2153 Apr 06 j 18:59	0°♈	
conjunction	-2153 Apr 09 j 12:29	0°♈21'43	-2°17'00
minimum elong	-2153 Apr 09 j 12:31	0°♈21'44	2°16'59
max. Earth dist.	-2153 Apr 09 j 21:00	0°♈24'32	9.90774 AU
morning rise	-2153 Apr 27 j 13:35	2°♈44'16	
retrograde	-2153 Aug 12 j 17:04	11°♈18'24	
opposition	-2153 Oct 18 j 16:22	7°♈47'24	-2°44'59
min. Earth dist.	-2153 Oct 18 j 08:46	7°♈48'59	7.90078 AU
direct	-2153 Dec 23 j 16:54	4°♈18'43	
evening set	-2152 Apr 06 j 02:41	12°♈41'10	
conjunction	-2152 Apr 24 j 04:10	15°♈03'50	-2°04'19
minimum elong	-2152 Apr 24 j 04:14	15°♈03'51	2°04'17
max. Earth dist.	-2152 Apr 24 j 15:54	15°♈07'43	9.89929 AU
morning rise	-2152 May 12 j 07:25	17°♈27'01	
retrograde	-2152 Aug 26 j 15:05	25°♈57'34	
opposition	-2152 Nov 01 j 07:02	22°♈27'07	-2°23'52
min. Earth dist.	-2152 Oct 31 j 21:18	22°♈29'10	7.91020 AU
direct	-2151 Jan 06 j 13:25	18°♈57'47	
evening set	-2151 Apr 21 j 16:18	27°♈21'16	
conjunction	-2151 May 09 j 20:19	29°♈44'07	-1°43'38
minimum elong	-2151 May 09 j 20:23	29°♈44'08	1°43'36
max. Earth dist.	-2151 May 10 j 10:10	29°♈48'41	9.92702 AU
	-2151 May 11 j 20:29	0°♉	
morning rise	-2151 May 28 j 00:35	2°♉07'00	
retrograde	-2151 Sep 10 j 07:41	10°♉30'24	
opposition	-2151 Nov 15 j 18:41	7°♉00'55	-1°53'36
min. Earth dist.	-2151 Nov 15 j 07:55	7°♉03'10	7.95428 AU
direct	-2150 Jan 21 j 10:16	3°♉31'11	
evening set	-2150 May 07 j 03:31	11°♉52'47	
conjunction	-2150 May 25 j 08:38	14°♉14'52	-1°16'32
minimum elong	-2150 May 25 j 08:41	14°♉14'53	1°16'30
max. Earth dist.	-2150 May 25 j 23:02	14°♉19'35	9.98764 AU
	-2150 May 31 j 02:35	15°♉	
morning rise	-2150 Jun 12 j 12:30	16°♉36'32	
retrograde	-2150 Sep 24 j 17:20	24°♉50'16	
opposition	-2150 Nov 30 j 01:50	21°♉22'07	-1°16'37
min. Earth dist.	-2150 Nov 29 j 15:11	21°♉24'20	8.02878 AU
direct	-2149 Feb 05 j 05:08	17°♉52'20	
evening set	-2149 May 22 j 08:54	26°♉09'36	
conjunction	-2149 Jun 09 j 13:26	28°♉30'02	-0°45'08
minimum elong	-2149 Jun 09 j 13:28	28°♉30'02	0°45'05
max. Earth dist.	-2149 Jun 10 j 03:18	28°♉34'31	10.07612 AU
	-2149 Jun 21 j 03:57	0°♊	
morning rise	-2149 Jun 27 j 15:26	0°♊49'37	
retrograde	-2149 Oct 08 j 17:50	8°♊52'16	
opposition	-2149 Dec 14 j 02:59	5°♊25'42	-0°35'47
min. Earth dist.	-2149 Dec 13 j 17:04	5°♊27'44	8.12881 AU
direct	-2148 Feb 19 j 21:23	1°♊56'12	
evening set	-2148 Jun 05 j 06:12	10°♊07'10	
conjunction	-2148 Jun 23 j 08:30	12°♊25'09	-0°11'43
minimum elong	-2148 Jun 23 j 08:30	12°♊25'09	0°11'40
behind sun begin	-2148 Jun 23 j 03:24	12°♊23'32	
behind sun end	-2148 Jun 23 j 13:37	12°♊26'46	
max. Earth dist.	-2148 Jun 23 j 21:01	12°♊29'09	10.18745 AU
morning rise	-2148 Jul 11 j 07:15	14°♊41'59	
retrograde	-2148 Oct 21 j 06:49	22°♊32'48	
asc. node	-2148 Nov 01 j 23:51	22°♊25'10	
opposition	-2148 Dec 26 j 21:08	19°♊07'58	0°06'01
min. Earth dist.	-2148 Dec 26 j 12:23	19°♊09'44	8.24911 AU
direct	-2147 Mar 05 j 08:01	15°♊39'02	
evening set	-2147 Jun 19 j 17:23	23°♊42'09	
conjunction	-2147 Jul 07 j 16:01	25°♊57'06	0°21'38
minimum elong	-2147 Jul 07 j 16:00	25°♊57'06	0°21'41
max. Earth dist.	-2147 Jul 08 j 02:27	26°♊00'23	10.31563 AU
morning rise	-2147 Jul 25 j 10:23	28°♊10'40	
	-2147 Aug 09 j 13:54	0°♋	
retrograde	-2147 Nov 03 j 10:11	5°♋49'45	
opposition	-2146 Jan 09 j 07:57	2°♋26'36	0°46'12
min. Earth dist.	-2146 Jan 09 j 00:07	2°♋28'10	8.38311 AU
	-2146 Feb 12 j 09:59	30°℞♊	
direct	-2146 Mar 19 j 11:10	28°♊58'30	
	-2146 Apr 23 j 07:33	0°♋	
evening set	-2146 Jul 03 j 17:03	6°♋52'46	
conjunction	-2146 Jul 21 j 10:57	9°♋04'20	0°52'53
minimum elong	-2146 Jul 21 j 10:55	9°♋04'19	0°52'56
max. Earth dist.	-2146 Jul 21 j 19:27	9°♋06'59	10.45365 AU
morning rise	-2146 Aug 08 j 00:03	11°♋14'22	
retrograde	-2146 Nov 16 j 05:14	18°♋42'24	
opposition	-2145 Jan 22 j 11:16	15°♋20'50	1°22'41
min. Earth dist.	-2145 Jan 22 j 04:17	15°♋22'12	8.52359 AU
direct	-2145 Apr 02 j 05:15	11°♋53'46	
evening set	-2145 Jul 17 j 04:44	19°♋38'44	
conjunction	-2145 Aug 03 j 17:23	21°♋46'50	1°20'39
minimum elong	-2145 Aug 03 j 17:20	21°♋46'49	1°20'42
max. Earth dist.	-2145 Aug 04 j 00:20	21°♋48'58	10.59435 AU
morning rise	-2145 Aug 21 j 00:51	23°♋53'21	
	-2145 Oct 22 j 17:42	0°♌	
retrograde	-2145 Nov 28 j 14:54	1°♌11'23	
	-2144 Jan 05 j 06:12	30°℞♋	
opposition	-2144 Feb 04 j 07:17	27°♋51'15	1°54'00
min. Earth dist.	-2144 Feb 04 j 01:46	27°♋52'19	8.66347 AU
direct	-2144 Apr 14 j 15:08	24°♋25'20	
	-2144 Jul 11 j 14:45	0°♌	
evening set	-2144 Jul 29 j 04:36	2°♌01'04	

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

conjunction	-2144 Aug 15 j 11:49	4°♌05'49	1°43'54
minimum elong	-2144 Aug 15 j 11:46	4°♌05'48	1°43'57
max. Earth dist.	-2144 Aug 15 j 16:55	4°♌07'22	10.73089 AU
morning rise	-2144 Sep 01 j 13:44	6°♌09'01	
retrograde	-2144 Dec 09 j 17:57	13°♌18'23	
opposition	-2143 Feb 15 j 20:48	9°♌59'32	2°19'11
min. Earth dist.	-2143 Feb 15 j 17:44	10°♌00'07	8.79615 AU
direct	-2143 Apr 27 j 16:05	6°♌34'49	
evening set	-2143 Aug 10 j 17:26	14°♌01'45	
	-2143 Aug 18 j 22:45	15°♌	
conjunction	-2143 Aug 27 j 19:16	16°♌03'26	2°01'59
minimum elong	-2143 Aug 27 j 19:13	16°♌03'25	2°02'01
max. Earth dist.	-2143 Aug 27 j 21:34	16°♌04'08	10.85718 AU
morning rise	-2143 Sep 13 j 16:11	18°♌03'41	
retrograde	-2143 Dec 21 j 14:06	25°♌05'54	
opposition	-2142 Feb 28 j 04:32	21°♌48'05	2°37'42
min. Earth dist.	-2142 Feb 28 j 04:00	21°♌48'11	8.91603 AU
direct	-2142 May 10 j 08:15	18°♌24'35	
evening set	-2142 Aug 22 j 20:11	25°♌43'26	
conjunction	-2142 Sep 08 j 17:10	27°♌42'28	2°14'32
minimum elong	-2142 Sep 08 j 17:09	27°♌42'28	2°14'34
max. Earth dist.	-2142 Sep 08 j 16:18	27°♌42'13	10.96832 AU
morning rise	-2142 Sep 25 j 09:55	29°♌40'16	
	-2142 Sep 28 j 06:22	0°♍	
retrograde	-2141 Jan 02 j 04:04	6°♍36'57	
opposition	-2141 Mar 12 j 07:22	3°♍19'54	2°49'22
min. Earth dist.	-2141 Mar 12 j 08:32	3°♍19'41	9.01852 AU
	-2141 May 15 j 17:04	30°℞♌	
direct	-2141 May 22 j 18:58	29°♌57'35	
	-2141 May 29 j 20:03	0°♍	
evening set	-2141 Sep 03 j 14:03	7°♍09'17	
conjunction	-2141 Sep 20 j 07:10	9°♍06'12	2°21'28
minimum elong	-2141 Sep 20 j 07:09	9°♍06'11	2°21'29
max. Earth dist.	-2141 Sep 20 j 04:17	9°♍05'21	11.06024 AU
morning rise	-2141 Oct 06 j 20:33	11°♍02'02	
retrograde	-2140 Jan 13 j 17:21	17°♍54'50	
opposition	-2140 Mar 23 j 06:22	14°♍38'17	2°54'12
min. Earth dist.	-2140 Mar 23 j 08:48	14°♍37'50	9.09981 AU
direct	-2140 Jun 02 j 22:22	11°♍17'08	
evening set	-2140 Sep 14 j 00:57	18°♍22'47	
conjunction	-2140 Sep 30 j 15:06	20°♍18'07	2°22'50
minimum elong	-2140 Sep 30 j 15:06	20°♍18'07	2°22'50
max. Earth dist.	-2140 Sep 30 j 10:54	20°♍16'53	11.12965 AU
morning rise	-2140 Oct 17 j 01:59	22°♍12'35	
retrograde	-2139 Jan 24 j 03:42	29°♍03'06	
opposition	-2139 Apr 04 j 02:47	25°♍46'50	2°52'24
min. Earth dist.	-2139 Apr 04 j 07:17	25°♍46'00	9.15716 AU
direct	-2139 Jun 14 j 18:43	22°♍26'44	
evening set	-2139 Sep 25 j 06:33	29°♍27'34	
	-2139 Sep 29 j 23:55	0°♎	
conjunction	-2139 Oct 11 j 18:31	1°♎21'53	2°18'48
minimum elong	-2139 Oct 11 j 18:32	1°♎21'53	2°18'47
max. Earth dist.	-2139 Oct 11 j 11:56	1°♎19'58	11.17432 AU
morning rise	-2139 Oct 28 j 04:05	3°♎15'34	
retrograde	-2138 Feb 04 j 14:10	10°♎05'27	
opposition	-2138 Apr 15 j 22:00	6°♎49'13	2°44'15
min. Earth dist.	-2138 Apr 16 j 04:45	6°♎47'59	9.18883 AU
direct	-2138 Jun 26 j 12:32	3°♎30'00	
evening set	-2138 Oct 06 j 08:24	10°♎27'21	
conjunction	-2138 Oct 22 j 19:07	12°♎21'12	2°09'40
minimum elong	-2138 Oct 22 j 19:09	12°♎21'12	2°09'38
max. Earth dist.	-2138 Oct 22 j 10:13	12°♎18'37	11.19290 AU
morning rise	-2138 Nov 08 j 04:30	14°♎14'41	
retrograde	-2137 Feb 16 j 00:29	21°♎05'35	
opposition	-2137 Apr 27 j 16:54	17°♎49'04	2°30'07
min. Earth dist.	-2137 Apr 28 j 01:05	17°♎47'35	9.19373 AU
direct	-2137 Jul 08 j 03:23	14°♎30'34	
evening set	-2137 Oct 17 j 08:32	21°♎25'51	
conjunction	-2137 Nov 02 j 19:03	23°♎19'47	1°55'44
minimum elong	-2137 Nov 02 j 19:05	23°♎19'48	1°55'43
max. Earth dist.	-2137 Nov 02 j 09:21	23°♎16'57	11.18463 AU
morning rise	-2137 Nov 19 j 04:57	25°♎13'36	
	-2136 Jan 06 j 09:33	0°♏	
retrograde	-2136 Feb 27 j 15:27	2°♏07'10	
	-2136 Apr 22 j 05:12	30°℞♎	
opposition	-2136 May 08 j 12:34	28°♎50'07	2°10'29
min. Earth dist.	-2136 May 08 j 21:08	28°♎48'33	9.17159 AU
direct	-2136 Jul 18 j 17:43	25°♎32'06	
	-2136 Oct 04 j 22:04	0°♏	
evening set	-2136 Oct 27 j 08:45	2°♏26'47	
conjunction	-2136 Nov 12 j 19:51	4°♏21'20	1°37'28
minimum elong	-2136 Nov 12 j 19:54	4°♏21'21	1°37'27
max. Earth dist.	-2136 Nov 12 j 09:38	4°♏18'21	11.14966 AU
morning rise	-2136 Nov 29 j 07:01	6°♏16'01	
retrograde	-2135 Mar 10 j 10:30	13°♏13'49	
opposition	-2135 May 20 j 10:40	9°♏56'00	1°45'51
min. Earth dist.	-2135 May 20 j 19:56	9°♏54'19	9.12314 AU
direct	-2135 Jul 30 j 05:57	6°♏38'16	
evening set	-2135 Nov 07 j 10:55	13°♏33'52	
	-2135 Nov 19 j 18:43	15°♏	
conjunction	-2135 Nov 23 j 23:05	15°♏29'30	1°15'22
minimum elong	-2135 Nov 23 j 23:07	15°♏29'30	1°15'21
max. Earth dist.	-2135 Nov 23 j 11:35	15°♏26'07	11.08918 AU
morning rise	-2135 Dec 10 j 12:26	17°♏25'32	
retrograde	-2134 Mar 22 j 09:39	24°♏29'13	
opposition	-2134 Jun 01 j 12:09	21°♏10'23	1°16'52
min. Earth dist.	-2134 Jun 01 j 22:26	21°♏08'29	9.05004 AU
direct	-2134 Aug 10 j 20:42	17°♏52'37	
evening set	-2134 Nov 18 j 17:00	24°♏50'46	
conjunction	-2134 Dec 05 j 06:53	26°♏47'55	0°50'03
minimum elong	-2134 Dec 05 j 06:55	26°♏47'56	0°50'00
max. Earth dist.	-2134 Dec 04 j 18:39	26°♏44'18	11.00514 AU
morning rise	-2134 Dec 21 j 22:59	28°♏45'46	
	-2133 Jan 01 j 19:22	0°♐	
retrograde	-2133 Apr 03 j 16:08	5°♐56'51	
opposition	-2133 Jun 13 j 17:45	2°♐36'46	0°44'19
min. Earth dist.	-2133 Jun 14 j 04:18	2°♐34'48	8.95470 AU
	-2133 Jul 24 j 08:35	30°℞♏	
direct	-2133 Aug 22 j 14:49	29°♏18'42	
	-2133 Sep 20 j 07:43	0°♐	
evening set	-2133 Nov 30 j 04:45	6°♐21'02	
conjunction	-2133 Dec 16 j 20:59	8°♐20'08	0°22'16
minimum elong	-2133 Dec 16 j 21:00	8°♐20'08	0°22'13
max. Earth dist.	-2133 Dec 16 j 09:29	8°♐16'41	10.90015 AU
morning rise	-2132 Jan 02 j 16:04	10°♐20'09	
retrograde	-2132 Apr 15 j 06:00	17°♐40'07	
opposition	-2132 Jun 25 j 04:46	14°♐18'34	0°09'10
min. Earth dist.	-2132 Jun 25 j 14:24	14°♐16'46	8.84014 AU
direct	-2132 Sep 02 j 12:37	10°♐59'59	
desc. node	-2132 Sep 28 j 19:49	11°♐35'23	
evening set	-2132 Dec 10 j 23:57	18°♐08'05	
conjunction	-2132 Dec 27 j 18:50	20°♐09'28	-0°07'08

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

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

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

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

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

retrograde	-2114 Dec 16 j 10:11	19°♌47'25		
opposition	-2113 Feb 22 j 18:58	16°♌29'19	2°29'39	
min. Earth dist.	-2113 Feb 22 j 15:39	16°♌29'57	8.86182 AU	
	-2113 Mar 15 j 02:27	15°℞♌		
direct	-2113 May 04 j 18:43	13°♌05'32		
	-2113 Jun 23 j 07:31	15°♌		
evening set	-2113 Aug 17 j 13:30	20°♌28'26		
conjunction	-2113 Sep 03 j 12:54	22°♌28'43	2°09'11	
minimum elong	-2113 Sep 03 j 12:51	22°♌28'42	2°09'13	
max. Earth dist.	-2113 Sep 03 j 15:09	22°♌29'23	10.92031 AU	
morning rise	-2113 Sep 20 j 07:31	24°♌27'38		
	-2113 Nov 16 j 11:49	0°♍		
retrograde	-2113 Dec 28 j 04:37	1°♍27'01		
	-2112 Feb 09 j 01:57	30°℞♌		
opposition	-2112 Mar 06 j 00:21	28°♌09'59	2°44'34	
min. Earth dist.	-2112 Mar 05 j 23:37	28°♌10'08	8.97635 AU	
direct	-2112 May 16 j 07:44	24°♌47'33		
	-2112 Aug 10 j 03:20	0°♍		
evening set	-2112 Aug 28 j 12:09	2°♍02'47		
conjunction	-2112 Sep 14 j 07:08	4°♍00'40	2°18'47	
minimum elong	-2112 Sep 14 j 07:07	4°♍00'39	2°18'49	
max. Earth dist.	-2112 Sep 14 j 06:24	4°♍00'27	11.02468 AU	
morning rise	-2112 Sep 30 j 21:56	5°♍57'21		
retrograde	-2111 Jan 07 j 18:52	12°♍51'58		
opposition	-2111 Mar 18 j 01:39	9°♍35'42	2°52'36	
min. Earth dist.	-2111 Mar 18 j 03:49	9°♍35'18	9.07049 AU	
direct	-2111 May 28 j 13:35	6°♍14'29		
evening set	-2111 Sep 09 j 02:51	13°♍23'04		
conjunction	-2111 Sep 25 j 18:11	15°♍19'05	2°22'45	
minimum elong	-2111 Sep 25 j 18:11	15°♍19'05	2°22'46	
max. Earth dist.	-2111 Sep 25 j 14:01	15°♍17'51	11.10674 AU	
morning rise	-2111 Oct 12 j 06:13	17°♍14'07		
retrograde	-2110 Jan 19 j 04:59	24°♍05'39		
opposition	-2110 Mar 29 j 23:44	20°♍49'47	2°53'52	
min. Earth dist.	-2110 Mar 30 j 04:05	20°♍48'59	9.14029 AU	
direct	-2110 Jun 09 j 14:53	17°♍29'40		
evening set	-2110 Sep 20 j 11:14	24°♍32'51		
conjunction	-2110 Oct 07 j 00:04	26°♍27'33	2°21'13	
minimum elong	-2110 Oct 07 j 00:05	26°♍27'34	2°21'13	
max. Earth dist.	-2110 Oct 06 j 17:40	26°♍25'42	11.16310 AU	
morning rise	-2110 Oct 23 j 10:15	28°♍21'33		
	-2110 Nov 07 j 05:06	0°♎		
retrograde	-2109 Jan 30 j 17:13	5°♎11'44		
opposition	-2109 Apr 10 j 19:42	1°♎55'57	2°48'39	
min. Earth dist.	-2109 Apr 11 j 01:32	1°♎54'53	9.18293 AU	
	-2109 May 09 j 00:43	30°℞♍		
direct	-2109 Jun 21 j 11:53	28°♍36'46		
	-2109 Aug 02 j 18:53	0°♎		
evening set	-2109 Oct 01 j 15:05	5°♎35'52		
conjunction	-2109 Oct 18 j 02:27	7°♎29'54	2°14'25	
minimum elong	-2109 Oct 18 j 02:28	7°♎29'55	2°14'24	
max. Earth dist.	-2109 Oct 17 j 18:31	7°♎27'36	11.19176 AU	
morning rise	-2109 Nov 03 j 11:43	9°♎23'26		
retrograde	-2108 Feb 11 j 04:05	16°♎13'56		
opposition	-2108 Apr 21 j 15:00	12°♎57'57	2°37'16	
min. Earth dist.	-2108 Apr 21 j 22:40	12°♎56'33	9.19730 AU	
direct	-2108 Jul 02 j 02:36	9°♎39'29		
evening set	-2108 Oct 11 j 16:25	16°♎35'55		
conjunction	-2108 Oct 28 j 02:59	18°♎29'48	2°02'41	
minimum elong	-2108 Oct 28 j 03:02	18°♎29'49	2°02'39	
max. Earth dist.	-2108 Oct 27 j 16:50	18°♎26'51	11.19232 AU	

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

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

conjunction	-2101 Jan 03 j 19:51	26°♐58'17	-0°23'12
minimum elong	-2101 Jan 03 j 19:50	26°♐58'16	0°23'15
max. Earth dist.	-2101 Jan 03 j 08:41	26°♐54'52	10.68439 AU
morning rise	-2101 Jan 20 j 20:17	29°♐02'32	
	-2101 Jan 28 j 22:27	0°♑	
retrograde	-2101 May 05 j 19:41	6°♑39'19	
opposition	-2101 Jul 15 j 08:25	3°♑14'38	-0°47'14
min. Earth dist.	-2101 Jul 15 j 17:08	3°♑12'58	8.61397 AU
	-2101 Sep 11 j 02:41	30°℞♐	
direct	-2101 Sep 21 j 18:53	29°♐54'00	
	-2101 Oct 02 j 09:21	0°♑	
evening set	-2101 Dec 30 j 09:54	7°♑14'53	
conjunction	-2100 Jan 16 j 09:29	9°♑20'36	-0°52'39
minimum elong	-2100 Jan 16 j 09:27	9°♑20'35	0°52'41
max. Earth dist.	-2100 Jan 16 j 00:29	9°♑17'48	10.54370 AU
morning rise	-2100 Feb 02 j 13:26	11°♑27'46	
retrograde	-2100 May 18 j 10:01	19°♑16'14	
opposition	-2100 Jul 27 j 13:06	15°♑49'53	-1°22'59
min. Earth dist.	-2100 Jul 27 j 19:24	15°♑48'39	8.47160 AU
direct	-2100 Oct 03 j 08:56	12°♑28'09	
evening set	-2099 Jan 11 j 07:55	19°♑58'34	
conjunction	-2099 Jan 28 j 10:46	22°♑07'12	-1°20'23
minimum elong	-2099 Jan 28 j 10:43	22°♑07'12	1°20'25
max. Earth dist.	-2099 Jan 28 j 03:39	22°♑04'58	10.40079 AU
morning rise	-2099 Feb 14 j 18:26	24°♑17'25	
	-2099 Apr 09 j 07:02	0°♒	
retrograde	-2099 Jun 01 j 10:32	2°♒17'48	
	-2099 Jul 25 j 23:57	30°℞♑	
opposition	-2099 Aug 10 j 01:37	28°♑49'54	-1°55'47
min. Earth dist.	-2099 Aug 10 j 05:46	28°♑49'05	8.33070 AU
direct	-2099 Oct 16 j 07:15	25°♑26'56	
	-2099 Dec 29 j 09:05	0°♒	
evening set	-2098 Jan 24 j 18:45	3°♒07'50	
conjunction	-2098 Feb 11 j 01:04	5°♒19'27	-1°44'44
minimum elong	-2098 Feb 11 j 01:01	5°♒19'26	1°44'46
max. Earth dist.	-2098 Feb 10 j 20:00	5°♒17'50	10.26283 AU
morning rise	-2098 Feb 28 j 12:33	7°♒32'44	
	-2098 May 17 j 11:33	15°♒	
retrograde	-2098 Jun 15 j 20:19	15°♒44'27	
	-2098 Jul 15 j 07:12	15°℞♒	
opposition	-2098 Aug 23 j 21:37	12°♒15'14	-2°23'27
min. Earth dist.	-2098 Aug 23 j 23:48	12°♒14'48	8.19870 AU
direct	-2098 Oct 29 j 14:22	8°♒50'57	
	-2097 Jan 24 j 23:12	15°♒	
evening set	-2097 Feb 07 j 18:27	16°♒42'40	
conjunction	-2097 Feb 25 j 04:32	18°♒57'13	-2°03'59
minimum elong	-2097 Feb 25 j 04:29	18°♒57'12	2°04'00
max. Earth dist.	-2097 Feb 25 j 02:11	18°♒56'28	10.13753 AU
morning rise	-2097 Mar 14 j 19:46	21°♒13'26	
retrograde	-2097 Jun 30 j 12:59	29°♒35'05	
opposition	-2097 Sep 07 j 00:44	26°♒04'50	-2°43'47
min. Earth dist.	-2097 Sep 07 j 00:46	26°♒04'49	8.08326 AU
direct	-2097 Nov 12 j 08:12	22°♒39'16	
	-2096 Feb 16 j 20:25	0°♓	
evening set	-2096 Feb 22 j 06:18	0°♓41'20	
conjunction	-2096 Mar 10 j 20:24	2°♓58'38	-2°16'28
minimum elong	-2096 Mar 10 j 20:22	2°♓58'38	2°16'29
max. Earth dist.	-2096 Mar 10 j 21:50	2°♓59'07	10.03259 AU
morning rise	-2096 Mar 28 j 15:13	5°♓17'29	
retrograde	-2096 Jul 14 j 11:02	13°♓46'41	
opposition	-2096 Sep 20 j 09:39	10°♓15'45	-2°54'44
min. Earth dist.	-2096 Sep 20 j 07:00	10°♓16'17	7.99174 AU

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

direct	-2096 Nov 25 j 11:23	6°♓48'59	
evening set	-2095 Mar 08 j 05:06	15°♓00'07	
conjunction	-2095 Mar 25 j 23:22	17°♓19'50	-2°20'51
minimum elong	-2095 Mar 25 j 23:22	17°♓19'50	2°20'51
max. Earth dist.	-2095 Mar 26 j 04:49	17°♓21'38	9.95508 AU
morning rise	-2095 Apr 12 j 21:33	19°♓40'50	
retrograde	-2095 Jul 29 j 12:02	28°♓14'15	
opposition	-2095 Oct 04 j 22:29	24°♓43'04	-2°54'56
min. Earth dist.	-2095 Oct 04 j 17:00	24°♓44'12	7.93037 AU
direct	-2095 Dec 09 j 21:38	21°♓15'14	
evening set	-2094 Mar 23 j 12:18	29°♓33'20	
	-2094 Mar 26 j 22:11	0°♈	
conjunction	-2094 Apr 10 j 10:34	1°♈54'55	-2°16'23
minimum elong	-2094 Apr 10 j 10:36	1°♈54'55	2°16'23
max. Earth dist.	-2094 Apr 10 j 19:39	1°♈57'55	9.91047 AU
morning rise	-2094 Apr 28 j 11:40	4°♈17'24	
retrograde	-2094 Aug 13 j 13:37	12°♈51'10	
opposition	-2094 Oct 19 j 13:18	9°♈20'10	-2°43'49
min. Earth dist.	-2094 Oct 19 j 05:18	9°♈21'50	7.90345 AU
direct	-2094 Dec 24 j 13:19	5°♈51'28	
evening set	-2093 Apr 08 j 00:26	14°♈13'45	
conjunction	-2093 Apr 26 j 02:04	16°♈36'24	-2°03'06
minimum elong	-2093 Apr 26 j 02:08	16°♈36'25	2°03'05
max. Earth dist.	-2093 Apr 26 j 14:10	16°♈40'25	9.90193 AU
morning rise	-2093 May 14 j 05:16	18°♈59'33	
retrograde	-2093 Aug 28 j 12:45	27°♈29'43	
opposition	-2093 Nov 03 j 03:39	23°♈59'20	-2°22'00
min. Earth dist.	-2093 Nov 02 j 17:48	24°♈01'23	7.91282 AU
direct	-2092 Jan 08 j 09:17	20°♈29'59	
evening set	-2092 Apr 22 j 13:50	28°♈53'22	
	-2092 May 01 j 02:25	0°♉	
conjunction	-2092 May 10 j 17:52	1°♉16'11	-1°41'55
minimum elong	-2092 May 10 j 17:57	1°♉16'12	1°41'53
max. Earth dist.	-2092 May 11 j 07:47	1°♉20'46	9.92981 AU
morning rise	-2092 May 28 j 22:06	3°♉39'02	
retrograde	-2092 Sep 11 j 05:36	12°♉02'04	
opposition	-2092 Nov 16 j 15:11	8°♉32'40	-1°51'11
min. Earth dist.	-2092 Nov 16 j 04:44	8°♉34'50	7.95735 AU
direct	-2091 Jan 22 j 06:37	5°♉02'56	
evening set	-2091 May 08 j 00:46	13°♉24'24	
	-2091 May 20 j 07:51	15°♉	
conjunction	-2091 May 26 j 05:49	15°♉46'24	-1°14'26
minimum elong	-2091 May 26 j 05:52	15°♉46'26	1°14'24
max. Earth dist.	-2091 May 26 j 19:50	15°♉51'00	9.99116 AU
morning rise	-2091 Jun 13 j 09:42	18°♉08'01	
retrograde	-2091 Sep 25 j 14:04	26°♉21'19	
opposition	-2091 Nov 30 j 22:05	22°♉53'15	-1°13'50
min. Earth dist.	-2091 Nov 30 j 12:04	22°♉55'19	8.03272 AU
direct	-2090 Feb 06 j 02:46	19°♉23'27	
evening set	-2090 May 23 j 05:57	27°♉40'30	
conjunction	-2090 Jun 10 j 10:19	0°♊00'49	-0°42'49
minimum elong	-2090 Jun 10 j 10:21	0°♊00'49	0°42'46
	-2090 Jun 10 j 07:48	0°♊	
max. Earth dist.	-2090 Jun 10 j 23:13	0°♊04'59	10.08033 AU
morning rise	-2090 Jun 28 j 12:18	2°♊20'19	
retrograde	-2090 Oct 09 j 12:27	10°♊22'28	
opposition	-2090 Dec 14 j 22:54	6°♊56'00	-0°32'49
min. Earth dist.	-2090 Dec 14 j 13:38	6°♊57'54	8.13304 AU
direct	-2089 Feb 20 j 18:42	3°♊26'31	
evening set	-2089 Jun 07 j 02:50	11°♊37'14	

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

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

conjunction	-2083 Sep 09 j 13:30	29°♌13'15	2°15'19
minimum elong	-2083 Sep 09 j 13:28	29°♌13'14	2°15'21
max. Earth dist.	-2083 Sep 09 j 12:35	29°♌12'59	10.96337 AU
	-2083 Sep 16 j 03:27	0°♍	
morning rise	-2083 Sep 26 j 06:07	1°♍11'04	
retrograde	-2082 Jan 03 j 02:18	8°♍08'11	
opposition	-2082 Mar 13 j 04:16	4°♍51'05	2°50'04
min. Earth dist.	-2082 Mar 13 j 05:00	4°♍50'57	9.01281 AU
direct	-2082 May 23 j 16:04	1°♍28'47	
evening set	-2082 Sep 04 j 10:39	8°♍40'47	

conjunction	-2082 Sep 21 j 03:45	10°♍37'46	2°21'47
minimum elong	-2082 Sep 21 j 03:45	10°♍37'46	2°21'48
max. Earth dist.	-2082 Sep 21 j 01:29	10°♍37'06	11.05384 AU
morning rise	-2082 Oct 07 j 16:57	12°♍33'40	
retrograde	-2081 Jan 14 j 14:41	19°♍26'57	
opposition	-2081 Mar 25 j 03:51	16°♍10'20	2°54'19
min. Earth dist.	-2081 Mar 25 j 06:29	16°♍09'50	9.09277 AU
direct	-2081 Jun 04 j 18:23	12°♍49'09	
evening set	-2081 Sep 15 j 21:54	19°♍55'07	

conjunction	-2081 Oct 02 j 11:58	21°♍50'33	2°22'39
minimum elong	-2081 Oct 02 j 11:58	21°♍50'33	2°22'39
max. Earth dist.	-2081 Oct 02 j 07:30	21°♍49'14	11.12204 AU
morning rise	-2081 Oct 18 j 22:51	23°♍45'06	
	-2081 Dec 30 j 00:33	0°♎	
retrograde	-2080 Jan 26 j 01:42	0°♎36'08	
	-2080 Feb 22 j 12:34	30°℞♍	
opposition	-2080 Apr 05 j 00:43	27°♍19'47	2°51'54
min. Earth dist.	-2080 Apr 05 j 05:55	27°♍18'49	9.14907 AU
direct	-2080 Jun 15 j 16:24	23°♍59'36	
	-2080 Sep 17 j 02:54	0°♎	
evening set	-2080 Sep 26 j 03:49	1°♎00'49	

conjunction	-2080 Oct 12 j 15:43	2°♎55'14	2°18'08
minimum elong	-2080 Oct 12 j 15:44	2°♎55'14	2°18'07
max. Earth dist.	-2080 Oct 12 j 08:28	2°♎53'07	11.16579 AU
morning rise	-2080 Oct 29 j 01:27	4°♎49'02	
retrograde	-2079 Feb 05 j 11:09	11°♎39'28	
opposition	-2079 Apr 16 j 20:19	8°♎23'06	2°43'10
min. Earth dist.	-2079 Apr 17 j 03:03	8°♎21'52	9.17988 AU
direct	-2079 Jun 27 j 10:04	5°♎03'48	
evening set	-2079 Oct 07 j 05:56	12°♎01'32	

conjunction	-2079 Oct 23 j 16:46	13°♎55'31	2°08'31
minimum elong	-2079 Oct 23 j 16:48	13°♎55'31	2°08'29
max. Earth dist.	-2079 Oct 23 j 08:22	13°♎53'04	11.18362 AU
morning rise	-2079 Nov 09 j 02:12	15°♎49'08	
retrograde	-2078 Feb 16 j 23:59	22°♎40'39	
opposition	-2078 Apr 28 j 15:42	19°♎23'59	2°28'28
min. Earth dist.	-2078 Apr 28 j 23:02	19°♎22'38	9.18413 AU
direct	-2078 Jul 09 j 02:47	16°♎05'24	
evening set	-2078 Oct 18 j 06:24	23°♎01'03	

conjunction	-2078 Nov 03 j 17:06	24°♎55'09	1°54'08
minimum elong	-2078 Nov 03 j 17:09	24°♎55'09	1°54'07
max. Earth dist.	-2078 Nov 03 j 08:14	24°♎52'34	11.17486 AU
morning rise	-2078 Nov 20 j 03:03	26°♎49'07	
	-2078 Dec 20 j 00:09	0°♏	
retrograde	-2077 Feb 28 j 15:29	3°♏43'16	
opposition	-2077 May 10 j 11:55	0°♏26'05	2°08'18
min. Earth dist.	-2077 May 10 j 20:10	0°♏24'35	9.16167 AU
	-2077 May 16 j 11:06	30°℞♎	
direct	-2077 Jul 20 j 15:27	27°♎08'01	
	-2077 Sep 20 j 00:24	0°♏	
evening set	-2077 Oct 29 j 07:04	4°♏03'04	

conjunction	-2077 Nov 14 j 18:14	5°♏57'47	1°35'28
minimum elong	-2077 Nov 14 j 18:17	5°♏57'48	1°35'27
max. Earth dist.	-2077 Nov 14 j 07:47	5°♏54'43	11.13975 AU
morning rise	-2077 Dec 01 j 05:41	7°♏52'39	
retrograde	-2076 Mar 11 j 09:46	14°♏51'04	
opposition	-2076 May 21 j 10:28	11°♏33'07	1°43'11
min. Earth dist.	-2076 May 21 j 20:04	11°♏31'22	9.11323 AU
direct	-2076 Jul 31 j 04:38	8°♏15'17	
	-2076 Nov 06 j 18:12	15°♏	
evening set	-2076 Nov 08 j 09:39	15°♏11'19	

conjunction	-2076 Nov 24 j 21:55	17°♏07'07	1°13'00
minimum elong	-2076 Nov 24 j 21:58	17°♏07'07	1°12'59
max. Earth dist.	-2076 Nov 24 j 10:18	17°♏03'42	11.07944 AU
morning rise	-2076 Dec 11 j 11:35	19°♏03'20	
retrograde	-2075 Mar 23 j 09:50	26°♏07'40	
opposition	-2075 Jun 02 j 12:20	22°♏48'41	1°13'49
min. Earth dist.	-2075 Jun 02 j 22:31	22°♏46'49	9.04047 AU
direct	-2075 Aug 11 j 20:29	19°♏30'51	
evening set	-2075 Nov 19 j 16:07	26°♏29'25	

conjunction	-2075 Dec 06 j 06:16	28°♏26'45	0°47'25
minimum elong	-2075 Dec 06 j 06:17	28°♏26'45	0°47'22
max. Earth dist.	-2075 Dec 05 j 19:06	28°♏23'26	10.99589 AU
	-2075 Dec 19 j 09:39	0°♐	
morning rise	-2075 Dec 22 j 22:31	0°♐24'46	
retrograde	-2074 Apr 04 j 16:26	7°♐36'31	
opposition	-2074 Jun 14 j 18:23	4°♐16'17	0°40'58
min. Earth dist.	-2074 Jun 15 j 03:53	4°♐14'31	8.94584 AU
direct	-2074 Aug 23 j 14:42	0°♐58'12	
evening set	-2074 Dec 01 j 04:21	8°♐00'56	

conjunction	-2074 Dec 17 j 20:50	10°♐00'11	0°19'27
minimum elong	-2074 Dec 17 j 20:50	10°♐00'12	0°19'24
max. Earth dist.	-2074 Dec 17 j 10:21	9°♐57'03	10.89181 AU
morning rise	-2073 Jan 03 j 16:04	12°♐00'22	
retrograde	-2073 Apr 17 j 08:45	19°♐20'59	
opposition	-2073 Jun 27 j 05:48	15°♐59'19	0°05'39
min. Earth dist.	-2073 Jun 27 j 14:27	15°♐57'42	8.83248 AU
desc. node	-2073 Aug 25 j 04:23	12°♐46'08	
direct	-2073 Sep 04 j 13:10	12°♐40'43	
evening set	-2073 Dec 13 j 00:15	19°♐49'12	

conjunction	-2073 Dec 29 j 19:12	21°♐50'43	-0°10'00
minimum elong	-2073 Dec 29 j 19:12	21°♐50'43	0°10'03
behind sun begin	-2073 Dec 29 j 13:30	21°♐49'01	
behind sun end	-2073 Dec 30 j 00:54	21°♐52'26	
max. Earth dist.	-2073 Dec 29 j 08:43	21°♐47'33	10.77073 AU
morning rise	-2072 Jan 15 j 17:48	23°♐53'25	
	-2072 Mar 18 j 12:00	0°♑	
retrograde	-2072 Apr 29 j 08:24	1°♑24'05	
	-2072 Jun 10 j 24:00	30°℞♐	
opposition	-2072 Jul 08 j 23:29	28°♐00'54	-0°30'54
min. Earth dist.	-2072 Jul 09 j 07:40	27°♐59'21	8.70437 AU
direct	-2072 Sep 15 j 15:02	24°♐41'28	
	-2072 Dec 07 j 11:18	0°♑	
evening set	-2072 Dec 24 j 05:25	1°♑57'20	

conjunction	-2071 Jan 10 j 03:12	4°♑01'23	-0°39'38
minimum elong	-2071 Jan 10 j 03:10	4°♑01'23	0°39'41
max. Earth dist.	-2071 Jan 09 j 16:51	3°♑58'12	10.63701 AU
morning rise	-2071 Jan 27 j 05:26	6°♑06'50	
retrograde	-2071 May 12 j 16:12	13°♑48'37	
opposition	-2071 Jul 22 j 00:09	10°♑23'48	-1°07'11
min. Earth dist.	-2071 Jul 22 j 07:55	10°♑22'18	8.56622 AU
direct	-2071 Sep 28 j 02:06	7°♑03'19	
evening set	-2070 Jan 05 j 21:17	14°♑28'00	

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

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

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

	-2059 Dec	07 j	16:21	30°℞♊		morning rise	-2053 Oct	02 j	18:45	7°♍29'55	
opposition	-2058 Jan	04 j	05:56	27°♊56'03	0°30'19	retrograde	-2052 Jan	09 j	15:05	14°♍25'00	
min. Earth dist.	-2058 Jan	03 j	21:24	27°♊57'46	8.30972 AU	opposition	-2052 Mar	18 j	23:21	11°♍08'40	2°52'59
direct	-2058 Mar	14 j	01:28	24°♊27'03		min. Earth dist.	-2052 Mar	19 j	01:27	11°♍08'17	9.06422 AU
	-2058 Jun	07 j	20:34	0°♋		direct	-2052 May	29 j	11:14	7°♍47'27	
evening set	-2058 Jun	28 j	09:23	2°♋25'39		evening set	-2052 Sep	10 j	00:03	14°♍56'25	
conjunction	-2058 Jul	16 j	05:34	4°♋38'52	0°40'37	conjunction	-2052 Sep	26 j	15:21	16°♍52'30	2°22'48
minimum elong	-2058 Jul	16 j	05:32	4°♋38'52	0°40'39	minimum elong	-2052 Sep	26 j	15:21	16°♍52'30	2°22'48
max. Earth dist.	-2058 Jul	16 j	15:41	4°♋42'03	10.37938 AU	max. Earth dist.	-2052 Sep	26 j	11:22	16°♍51'20	11.10005 AU
morning rise	-2058 Aug	02 j	21:04	6°♋50'37		morning rise	-2052 Oct	13 j	03:21	18°♍47'38	
retrograde	-2058 Nov	11 j	09:58	14°♋23'51		retrograde	-2051 Jan	20 j	04:08	25°♍39'42	
opposition	-2057 Jan	17 j	12:43	11°♋01'12	1°08'34	opposition	-2051 Mar	30 j	21:46	22°♍23'46	2°53'39
min. Earth dist.	-2057 Jan	17 j	05:23	11°♋02'39	8.44923 AU	min. Earth dist.	-2051 Mar	31 j	01:18	22°♍23'07	9.13331 AU
direct	-2057 Mar	28 j	00:17	7°♋33'17		direct	-2051 Jun	10 j	13:36	19°♍03'39	
evening set	-2057 Jul	12 j	02:40	15°♋22'52		evening set	-2051 Sep	21 j	08:42	26°♍07'10	
conjunction	-2057 Jul	29 j	17:41	17°♋32'38	1°10'00	conjunction	-2051 Oct	07 j	21:36	28°♍02'00	2°20'46
minimum elong	-2057 Jul	29 j	17:38	17°♋32'37	1°10'02	minimum elong	-2051 Oct	07 j	21:36	28°♍02'00	2°20'45
max. Earth dist.	-2057 Jul	30 j	01:26	17°♋35'02	10.52101 AU	max. Earth dist.	-2051 Oct	07 j	16:08	28°♍00'24	11.15601 AU
morning rise	-2057 Aug	16 j	03:46	19°♋40'51		morning rise	-2051 Oct	24 j	07:41	29°♍56'05	
retrograde	-2057 Nov	24 j	00:15	27°♋03'41			-2051 Oct	24 j	21:27	0°♎	
opposition	-2056 Jan	30 j	12:08	23°♋42'43	1°42'11	retrograde	-2050 Jan	31 j	15:39	6°♎46'46	
min. Earth dist.	-2056 Jan	30 j	05:51	23°♋43'57	8.59171 AU	opposition	-2050 Apr	11 j	18:20	3°♎30'56	2°47'49
direct	-2056 Apr	09 j	13:52	20°♋16'05		min. Earth dist.	-2050 Apr	11 j	23:57	3°♎29'54	9.17572 AU
evening set	-2056 Jul	24 j	08:15	27°♋56'31		direct	-2050 Jun	22 j	08:27	0°♎11'46	
						evening set	-2050 Oct	02 j	12:51	7°♎11'09	
conjunction	-2056 Aug	10 j	17:51	0°♌02'52	1°35'12						
minimum elong	-2056 Aug	10 j	17:48	0°♌02'51	1°35'14	conjunction	-2050 Oct	19 j	00:10	9°♎05'18	2°13'28
	-2056 Aug	10 j	08:26	0°♌		minimum elong	-2050 Oct	19 j	00:12	9°♎05'18	2°13'27
max. Earth dist.	-2056 Aug	10 j	23:47	0°♌04'41	10.66188 AU	max. Earth dist.	-2050 Oct	18 j	16:13	9°♎02'59	11.18452 AU
morning rise	-2056 Aug	27 j	22:20	2°♌07'40		morning rise	-2050 Nov	04 j	09:32	10°♎58'57	
retrograde	-2056 Dec	05 j	07:04	9°♌21'20		retrograde	-2049 Feb	12 j	03:19	17°♎49'59	
opposition	-2055 Feb	11 j	04:58	6°♌01'55	2°09'57	opposition	-2049 Apr	23 j	14:11	14°♎33'57	2°35'50
min. Earth dist.	-2055 Feb	11 j	00:05	6°♌02'51	8.73015 AU	min. Earth dist.	-2049 Apr	23 j	22:15	14°♎32'28	9.19000 AU
direct	-2055 Apr	22 j	18:34	2°♌36'41		direct	-2049 Jul	04 j	01:27	11°♎15'27	
evening set	-2055 Aug	06 j	02:33	10°♌08'12		evening set	-2049 Oct	13 j	14:34	18°♎12'13	
conjunction	-2055 Aug	23 j	06:46	12°♌11'20	1°55'26	conjunction	-2049 Oct	30 j	01:08	20°♎06'14	2°01'15
minimum elong	-2055 Aug	23 j	06:43	12°♌11'20	1°55'28	minimum elong	-2049 Oct	30 j	01:11	20°♎06'15	2°01'13
max. Earth dist.	-2055 Aug	23 j	11:01	12°♌12'37	10.79538 AU	max. Earth dist.	-2049 Oct	29 j	14:35	20°♎03'10	11.18502 AU
morning rise	-2055 Sep	09 j	05:51	14°♌12'59		morning rise	-2049 Nov	15 j	10:51	22°♎00'01	
	-2055 Sep	15 j	23:16	15°♌		retrograde	-2048 Feb	23 j	16:06	28°♎53'01	
retrograde	-2055 Dec	17 j	07:14	21°♌18'57		opposition	-2048 May	04 j	10:19	25°♎36'27	2°18'08
opposition	-2054 Feb	23 j	15:57	18°♌00'51	2°31'11	min. Earth dist.	-2048 May	04 j	20:05	25°♎34'40	9.17626 AU
min. Earth dist.	-2054 Feb	23 j	13:18	18°♌01'22	8.85841 AU	direct	-2048 Jul	14 j	16:28	22°♎18'24	
	-2054 Apr	13 j	19:00	15°℞♌		evening set	-2048 Oct	23 j	15:24	29°♎13'57	
direct	-2054 May	05 j	15:39	14°♌37'03			-2048 Oct	30 j	07:29	0°♏	
	-2054 May	27 j	09:39	15°♌							
evening set	-2054 Aug	18 j	10:31	22°♌00'11		conjunction	-2048 Nov	09 j	02:14	1°♏08'22	1°44'29
						minimum elong	-2048 Nov	09 j	02:17	1°♏08'23	1°44'28
conjunction	-2054 Sep	04 j	09:41	24°♌00'29	2°10'12	max. Earth dist.	-2048 Nov	08 j	14:51	1°♏05'03	11.15807 AU
minimum elong	-2054 Sep	04 j	09:39	24°♌00'28	2°10'14	morning rise	-2048 Nov	25 j	12:59	3°♏02'50	
max. Earth dist.	-2054 Sep	04 j	11:26	24°♌01'00	10.91597 AU	retrograde	-2047 Mar	06 j	09:00	9°♏59'26	
morning rise	-2054 Sep	21 j	04:08	25°♌59'26		opposition	-2047 May	16 j	08:10	6°♏42'00	1°55'15
	-2054 Oct	29 j	01:11	0°♍		min. Earth dist.	-2047 May	16 j	18:06	6°♏40'11	9.13546 AU
retrograde	-2054 Dec	29 j	02:26	2°♍59'10		direct	-2047 Jul	26 j	07:34	3°♏24'08	
	-2053 Mar	03 j	22:21	30°℞♌		evening set	-2047 Nov	03 j	17:07	10°♏19'55	
opposition	-2053 Mar	07 j	21:47	29°♌42'07	2°45'32						
min. Earth dist.	-2053 Mar	07 j	21:50	29°♌42'07	8.97131 AU	conjunction	-2047 Nov	20 j	05:00	12°♏15'15	1°23'42
direct	-2053 May	18 j	04:17	26°♌19'40		minimum elong	-2047 Nov	20 j	05:02	12°♏15'16	1°23'41
	-2053 Jul	27 j	19:20	0°♍		max. Earth dist.	-2047 Nov	19 j	17:32	12°♏11'53	11.10483 AU
evening set	-2053 Aug	30 j	09:11	3°♍35'13		morning rise	-2047 Dec	06 j	17:29	14°♏10'52	
							-2047 Dec	13 j	22:30	15°♏	
conjunction	-2053 Sep	16 j	03:56	5°♍33'09	2°19'19	retrograde	-2046 Mar	18 j	08:26	21°♏12'39	
minimum elong	-2053 Sep	16 j	03:55	5°♍33'08	2°19'21	opposition	-2046 May	28 j	08:43	17°♏54'06	1°27'45
max. Earth dist.	-2053 Sep	16 j	02:21	5°♍32'40	11.01891 AU	min. Earth dist.	-2046 May	28 j	18:52	17°♏52'14	9.06921 AU

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

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

retrograde	-2040 Jun 02 j 13:36	4°♒01'47	
opposition	-2040 Aug 11 j 03:39	0°♒33'51	-1°58'33
min. Earth dist.	-2040 Aug 11 j 08:02	0°♒32'59	8.33002 AU
	-2040 Aug 18 j 07:20	30°℞♑	
direct	-2040 Oct 17 j 08:09	27°♑10'49	
	-2040 Dec 13 j 09:03	0°♒	
evening set	-2039 Jan 25 j 20:41	4°♒51'46	
conjunction	-2039 Feb 12 j 03:04	7°♒03'23	-1°46'44
minimum elong	-2039 Feb 12 j 03:01	7°♒03'22	1°46'45
max. Earth dist.	-2039 Feb 11 j 22:06	7°♒01'48	10.26294 AU
morning rise	-2039 Mar 01 j 14:43	9°♒16'40	
	-2039 Apr 23 j 02:41	15°♒	
retrograde	-2039 Jun 16 j 21:30	17°♒28'21	
	-2039 Aug 12 j 03:33	15°℞♒	
opposition	-2039 Aug 24 j 23:32	13°♒59'05	-2°25'34
min. Earth dist.	-2039 Aug 25 j 01:55	13°♒58'37	8.19965 AU
direct	-2039 Oct 30 j 17:08	10°♒34'45	
	-2038 Jan 11 j 01:07	15°♒	
evening set	-2038 Feb 08 j 20:21	18°♒26'24	
conjunction	-2038 Feb 26 j 06:37	20°♒40'57	-2°05'23
minimum elong	-2038 Feb 26 j 06:35	20°♒40'56	2°05'24
max. Earth dist.	-2038 Feb 26 j 05:00	20°♒40'26	10.13918 AU
morning rise	-2038 Mar 15 j 21:55	22°♒57'07	
	-2038 May 23 j 15:46	0°♓	
retrograde	-2038 Jul 01 j 13:20	1°♓18'33	
	-2038 Aug 09 j 20:41	30°℞♒	
opposition	-2038 Sep 08 j 02:14	27°♒48'16	-2°45'05
min. Earth dist.	-2038 Sep 08 j 02:04	27°♒48'18	8.08567 AU
direct	-2038 Nov 13 j 10:47	24°♒22'39	
	-2037 Feb 03 j 21:24	0°♓	
evening set	-2037 Feb 23 j 08:10	2°♓24'32	
conjunction	-2037 Mar 12 j 22:29	4°♓41'49	-2°17'11
minimum elong	-2037 Mar 12 j 22:28	4°♓41'49	2°17'12
max. Earth dist.	-2037 Mar 13 j 00:49	4°♓42'35	10.03551 AU
morning rise	-2037 Mar 30 j 17:16	7°♓00'36	
retrograde	-2037 Jul 16 j 11:30	15°♓29'24	
opposition	-2037 Sep 22 j 10:34	11°♓58'26	-2°55'10
min. Earth dist.	-2037 Sep 22 j 07:20	11°♓59'06	7.99526 AU
direct	-2037 Nov 27 j 12:20	8°♓31'38	
evening set	-2036 Mar 09 j 06:42	16°♓42'29	
conjunction	-2036 Mar 27 j 01:07	19°♓02'09	-2°20'50
minimum elong	-2036 Mar 27 j 01:08	19°♓02'10	2°20'51
max. Earth dist.	-2036 Mar 27 j 07:08	19°♓04'08	9.95900 AU
morning rise	-2036 Apr 13 j 23:16	21°♓23'05	
retrograde	-2036 Jul 30 j 13:12	29°♓55'58	
opposition	-2036 Oct 05 j 22:55	26°♓24'46	-2°54'26
min. Earth dist.	-2036 Oct 05 j 16:58	26°♓26'00	7.93470 AU
direct	-2036 Dec 10 j 21:16	22°♓56'54	
	-2035 Mar 14 j 19:52	0°♈	
evening set	-2035 Mar 24 j 13:25	1°♈14'39	
conjunction	-2035 Apr 11 j 11:48	3°♈36'09	-2°15'39
minimum elong	-2035 Apr 11 j 11:50	3°♈36'10	2°15'39
max. Earth dist.	-2035 Apr 11 j 20:54	3°♈39'10	9.91510 AU
morning rise	-2035 Apr 29 j 12:55	5°♈58'35	
retrograde	-2035 Aug 14 j 15:07	14°♈31'42	
opposition	-2035 Oct 20 j 13:12	11°♈00'44	-2°42'28
min. Earth dist.	-2035 Oct 20 j 05:16	11°♈02'23	7.90828 AU
direct	-2035 Dec 25 j 13:29	7°♈32'00	
evening set	-2034 Apr 09 j 01:14	15°♈53'57	
conjunction	-2034 Apr 27 j 02:55	18°♈16'31	-2°01'44
minimum elong	-2034 Apr 27 j 02:59	18°♈16'32	2°01'42

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

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

max. Earth dist.	-2028 Jul 23 j 13:17	12°♋09'29	10.45891 AU
morning rise	-2028 Aug 09 j 17:05	14°♋16'37	
retrograde	-2028 Nov 17 j 22:37	21°♋44'25	
opposition	-2027 Jan 24 j 04:16	18°♋22'59	1°27'57
min. Earth dist.	-2027 Jan 23 j 22:26	18°♋24'08	8.52710 AU
direct	-2027 Apr 03 j 22:12	14°♋55'59	
evening set	-2027 Jul 18 j 22:35	22°♋40'58	
conjunction	-2027 Aug 05 j 10:44	24°♋48'57	1°24'37
minimum elong	-2027 Aug 05 j 10:41	24°♋48'56	1°24'39
max. Earth dist.	-2027 Aug 05 j 16:48	24°♋50'48	10.59586 AU
morning rise	-2027 Aug 22 j 17:39	26°♋55'20	
	-2027 Sep 18 j 21:20	0°♌	
retrograde	-2027 Nov 30 j 08:46	4°♌13'27	
opposition	-2026 Feb 06 j 00:44	0°♌53'27	1°58'29
min. Earth dist.	-2026 Feb 05 j 20:57	0°♌54'11	8.66322 AU
	-2026 Feb 17 j 15:32	30°℞♋	
direct	-2026 Apr 17 j 07:36	27°♋27'35	
	-2026 Jun 13 j 09:44	0°♌	
evening set	-2026 Jul 31 j 22:25	5°♌03'35	
conjunction	-2026 Aug 18 j 04:58	7°♌08'15	1°47'11
minimum elong	-2026 Aug 18 j 04:55	7°♌08'14	1°47'12
max. Earth dist.	-2026 Aug 18 j 08:08	7°♌09'13	10.72858 AU
morning rise	-2026 Sep 04 j 06:34	9°♌11'25	
	-2026 Nov 02 j 17:17	15°♌	
retrograde	-2026 Dec 12 j 10:25	16°♌21'12	
	-2025 Jan 22 j 04:46	15°℞♌	
opposition	-2025 Feb 18 j 14:44	13°♌02'24	2°22'44
min. Earth dist.	-2025 Feb 18 j 12:33	13°♌02'49	8.79217 AU
direct	-2025 Apr 30 j 10:33	9°♌37'43	
	-2025 Jul 26 j 01:37	15°♌	
evening set	-2025 Aug 13 j 11:20	17°♌05'06	
conjunction	-2025 Aug 30 j 12:43	19°♌06'47	2°04'26
minimum elong	-2025 Aug 30 j 12:40	19°♌06'46	2°04'28
max. Earth dist.	-2025 Aug 30 j 13:35	19°♌07'02	10.85125 AU
morning rise	-2025 Sep 16 j 09:24	21°♌07'03	
retrograde	-2025 Dec 24 j 08:00	28°♌09'57	
opposition	-2024 Mar 01 j 22:54	24°♌52'06	2°40'12
min. Earth dist.	-2024 Mar 01 j 22:00	24°♌52'16	8.90837 AU
direct	-2024 May 12 j 03:50	21°♌28'38	
evening set	-2024 Aug 24 j 14:23	28°♌48'04	
	-2024 Sep 03 j 19:54	0°♍	
conjunction	-2024 Sep 10 j 11:14	0°♍47'11	2°16'05
minimum elong	-2024 Sep 10 j 11:12	0°♍47'11	2°16'07
max. Earth dist.	-2024 Sep 10 j 10:45	0°♍47'03	10.95883 AU
morning rise	-2024 Sep 27 j 03:37	2°♍45'03	
retrograde	-2023 Jan 04 j 00:30	9°♍42'35	
opposition	-2023 Mar 14 j 02:37	6°♍25'28	2°50'43
min. Earth dist.	-2023 Mar 14 j 03:45	6°♍25'15	9.00727 AU
direct	-2023 May 24 j 13:03	3°♍03'10	
evening set	-2023 Sep 05 j 08:48	10°♍15'32	
conjunction	-2023 Sep 22 j 01:45	12°♍12'35	2°22'03
minimum elong	-2023 Sep 22 j 01:44	12°♍12'34	2°22'04
max. Earth dist.	-2023 Sep 21 j 23:09	12°♍11'49	11.04733 AU
morning rise	-2023 Oct 08 j 14:50	14°♍08'33	
retrograde	-2022 Jan 15 j 13:54	21°♍02'21	
opposition	-2022 Mar 26 j 02:47	17°♍45'42	2°54'21
min. Earth dist.	-2022 Mar 26 j 06:18	17°♍45'03	9.08541 AU
direct	-2022 Jun 05 j 16:48	14°♍24'30	
evening set	-2022 Sep 16 j 20:21	21°♍30'54	
conjunction	-2022 Oct 03 j 10:14	23°♍26'24	2°22'24
minimum elong	-2022 Oct 03 j 10:14	23°♍26'25	2°22'24

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

max. Earth dist.	-2022 Oct 03 j 04:52	23°♍24'50	11.11386 AU	
morning rise	-2022 Oct 19 j 21:13	25°♍21'05		
	-2022 Dec 05 j 05:49	0°♎		
retrograde	-2021 Jan 27 j 00:04	2°♎12'43		
	-2021 Mar 23 j 07:24	30°℞♍		
opposition	-2021 Apr 07 j 00:11	28°♍56'16	2°51'19	
min. Earth dist.	-2021 Apr 07 j 05:32	28°♍55'17	9.14019 AU	
direct	-2021 Jun 17 j 15:05	25°♍36'03		
	-2021 Sep 03 j 20:13	0°♎		
evening set	-2021 Sep 28 j 02:28	2°♎37'43		
conjunction	-2021 Oct 14 j 14:24	4°♎32'15	2°17'22	
minimum elong	-2021 Oct 14 j 14:26	4°♎32'16	2°17'21	
max. Earth dist.	-2021 Oct 14 j 07:20	4°♎30'12	11.15622 AU	
morning rise	-2021 Oct 31 j 00:13	6°♎26'13		
retrograde	-2020 Feb 07 j 11:52	13°♎17'20		
opposition	-2020 Apr 17 j 20:12	10°♎00'50	2°41'57	
min. Earth dist.	-2020 Apr 18 j 02:19	9°♎59'42	9.16966 AU	
direct	-2020 Jun 28 j 10:44	6°♎41'29		
evening set	-2020 Oct 08 j 04:59	13°♎39'41		
conjunction	-2020 Oct 24 j 15:58	15°♎33'50	2°07'14	
minimum elong	-2020 Oct 24 j 16:01	15°♎33'51	2°07'13	
max. Earth dist.	-2020 Oct 24 j 08:16	15°♎31'36	11.17285 AU	
morning rise	-2020 Nov 10 j 01:25	17°♎27'37		
retrograde	-2019 Feb 18 j 01:04	24°♎19'49		
opposition	-2019 Apr 29 j 16:09	21°♎03'02	2°26'39	
min. Earth dist.	-2019 Apr 29 j 23:12	21°♎01'45	9.17285 AU	
direct	-2019 Jul 10 j 01:22	17°♎44'25		
evening set	-2019 Oct 19 j 05:57	24°♎40'33		
conjunction	-2019 Nov 04 j 16:42	26°♎34'49	1°52'23	
minimum elong	-2019 Nov 04 j 16:45	26°♎34'50	1°52'23	
max. Earth dist.	-2019 Nov 04 j 07:39	26°♎32'11	11.16325 AU	
morning rise	-2019 Nov 21 j 02:51	28°♎29'00		
	-2019 Dec 04 j 17:37	0°♏		
retrograde	-2018 Mar 01 j 16:01	5°♏23'54		
opposition	-2018 May 11 j 13:07	2°♏06'35	2°05'55	
min. Earth dist.	-2018 May 11 j 21:46	2°♏05'00	9.14978 AU	
	-2018 Jun 11 j 20:25	30°℞♎		
direct	-2018 Jul 21 j 15:16	28°♎48'25		
	-2018 Aug 29 j 10:33	0°♏		
evening set	-2018 Oct 30 j 07:01	5°♏44'01		
conjunction	-2018 Nov 15 j 18:17	7°♏38'54	1°33'17	
minimum elong	-2018 Nov 15 j 18:19	7°♏38'55	1°33'16	
max. Earth dist.	-2018 Nov 15 j 07:30	7°♏35'45	11.12776 AU	
morning rise	-2018 Dec 02 j 06:03	9°♏33'59		
	-2017 Jan 28 j 00:23	15°♏		
retrograde	-2017 Mar 13 j 11:35	16°♏33'12		
	-2017 Apr 28 j 08:40	15°℞♏		
opposition	-2017 May 23 j 12:12	13°♏15'05	1°40'19	
min. Earth dist.	-2017 May 23 j 21:47	13°♏13'19	9.10112 AU	
direct	-2017 Aug 02 j 06:02	9°♏57'10		
	-2017 Oct 24 j 10:10	15°♏		
evening set	-2017 Nov 10 j 10:08	16°♏53'44		
conjunction	-2017 Nov 26 j 22:41	18°♏49'44	1°10'27	
minimum elong	-2017 Nov 26 j 22:43	18°♏49'44	1°10'25	
max. Earth dist.	-2017 Nov 26 j 11:50	18°♏46'32	11.06736 AU	
morning rise	-2017 Dec 13 j 12:33	20°♏46'10		
retrograde	-2016 Mar 24 j 11:38	27°♏51'18		
opposition	-2016 Jun 03 j 14:26	24°♏32'09	1°10'31	
min. Earth dist.	-2016 Jun 03 j 23:46	24°♏30'25	9.02843 AU	
direct	-2016 Aug 12 j 21:54	21°♏14'14		
evening set	-2016 Nov 20 j 17:13	28°♏13'22		
	-2016 Dec 05 j 18:58	0°♐		

conjunction	-2016 Dec 07 j 07:39	0°♐10'54	0°44'34	
minimum elong	-2016 Dec 07 j 07:40	0°♐10'54	0°44'31	
max. Earth dist.	-2016 Dec 06 j 21:26	0°♐07'52	10.98404 AU	
morning rise	-2016 Dec 24 j 00:03	2°♐09'07		
retrograde	-2015 Apr 05 j 20:44	9°♐21'41		
opposition	-2015 Jun 15 j 21:09	6°♐01'18	0°37'22	
min. Earth dist.	-2015 Jun 16 j 05:43	5°♐59'42	8.93427 AU	
direct	-2015 Aug 24 j 16:51	2°♐43'08		
evening set	-2015 Dec 02 j 06:07	9°♐46'24		
conjunction	-2015 Dec 18 j 22:43	11°♐45'51	0°16'26	
minimum elong	-2015 Dec 18 j 22:44	11°♐45'51	0°16'22	
max. Earth dist.	-2015 Dec 18 j 12:19	11°♐42'44	10.88071 AU	
morning rise	-2014 Jan 04 j 18:15	13°♐46'16		
retrograde	-2014 Apr 18 j 12:51	21°♐07'38		
opposition	-2014 Jun 28 j 09:12	17°♐45'51	0°01'53	
min. Earth dist.	-2014 Jun 28 j 17:39	17°♐44'16	8.82197 AU	
desc. node	-2014 Jul 17 j 21:38	16°♐20'41		
direct	-2014 Sep 05 j 13:57	14°♐27'10		
evening set	-2014 Dec 14 j 02:46	21°♐36'13		
conjunction	-2014 Dec 30 j 21:51	23°♐37'54	-0°13'05	
minimum elong	-2014 Dec 30 j 21:51	23°♐37'54	0°13'08	
behind sun begin	-2014 Dec 30 j 17:36	23°♐36'37		
behind sun end	-2014 Dec 31 j 02:07	23°♐39'10		
max. Earth dist.	-2014 Dec 30 j 11:23	23°♐34'44	10.76103 AU	
morning rise	-2013 Jan 16 j 20:49	25°♐40'47		
	-2013 Feb 25 j 22:07	0°♑		
retrograde	-2013 May 01 j 11:13	3°♑12'10		
	-2013 Jul 08 j 16:40	30°℞♐		
opposition	-2013 Jul 11 j 03:14	29°♐48'52	-0°34'41	
min. Earth dist.	-2013 Jul 11 j 11:25	29°♐47'18	8.69563 AU	
direct	-2013 Sep 17 j 18:40	26°♐29'21		
	-2013 Nov 22 j 12:10	0°♑		
evening set	-2013 Dec 26 j 08:34	3°♑45'44		
conjunction	-2012 Jan 12 j 06:35	5°♑49'57	-0°42'39	
minimum elong	-2012 Jan 12 j 06:33	5°♑49'57	0°42'41	
max. Earth dist.	-2012 Jan 11 j 21:17	5°♑47'06	10.62937 AU	
morning rise	-2012 Jan 29 j 09:01	7°♑55'33		
retrograde	-2012 May 13 j 20:39	15°♑37'55		
opposition	-2012 Jul 23 j 04:14	12°♑13'00	-1°10'47	
min. Earth dist.	-2012 Jul 23 j 11:20	12°♑11'38	8.55996 AU	
direct	-2012 Sep 29 j 06:13	8°♑52'28		
evening set	-2011 Jan 07 j 00:58	16°♑17'30		
conjunction	-2011 Jan 24 j 02:15	18°♑24'29	-1°11'00	
minimum elong	-2011 Jan 24 j 02:12	18°♑24'28	1°11'02	
max. Earth dist.	-2011 Jan 23 j 19:02	18°♑22'14	10.49066 AU	
morning rise	-2011 Feb 10 j 08:11	20°♑33'00		
retrograde	-2011 May 27 j 15:56	28°♑26'54		
opposition	-2011 Aug 05 j 12:28	25°♑00'23	-1°44'37	
min. Earth dist.	-2011 Aug 05 j 17:35	24°♑59'23	8.42028 AU	
direct	-2011 Oct 12 j 00:14	21°♑38'39		
evening set	-2010 Jan 20 j 05:30	29°♑13'35		
	-2010 Jan 26 j 10:06	0°♒		
conjunction	-2010 Feb 06 j 10:13	1°♒23'29	-1°36'36	
minimum elong	-2010 Feb 06 j 10:10	1°♒23'28	1°36'37	
max. Earth dist.	-2010 Feb 06 j 04:43	1°♒21'45	10.35097 AU	
morning rise	-2010 Feb 23 j 19:47	3°♒35'00		
retrograde	-2010 Jun 10 j 20:10	11°♒40'23		
opposition	-2010 Aug 19 j 04:02	8°♒12'23	-2°14'10	
min. Earth dist.	-2010 Aug 19 j 07:06	8°♒11'47	8.28359 AU	
direct	-2010 Oct 25 j 03:01	4°♒49'19		
evening set	-2009 Feb 02 j 22:40	12°♒34'51		

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

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

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

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

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

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

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

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

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

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

minimum elong	-1961 Oct 26 j 16:57	17°♎17'10	2°05'47
max. Earth dist.	-1961 Oct 26 j 08:56	17°♎14'49	11.16134 AU
morning rise	-1961 Nov 12 j 02:28	19°♎11'08	
retrograde	-1960 Feb 20 j 03:20	26°♎04'07	
opposition	-1960 Apr 30 j 18:42	22°♎47'13	2°24'38
min. Earth dist.	-1960 May 01 j 02:26	22°♎45'48	9.16030 AU
direct	-1960 Jul 11 j 02:29	19°♎28'31	
evening set	-1960 Oct 20 j 07:24	26°♎25'15	
conjunction	-1960 Nov 05 j 18:11	28°♎19'43	1°50'27
minimum elong	-1960 Nov 05 j 18:14	28°♎19'44	1°50'26
max. Earth dist.	-1960 Nov 05 j 08:19	28°♎16'50	11.14985 AU
	-1960 Nov 20 j 03:21	0°♏	
morning rise	-1960 Nov 22 j 04:37	0°♏14'07	
retrograde	-1959 Mar 02 j 19:19	7°♏09'55	
opposition	-1959 May 12 j 16:23	3°♏52'26	2°03'18
min. Earth dist.	-1959 May 13 j 01:24	3°♏50'48	9.13554 AU
direct	-1959 Jul 22 j 17:55	0°♏34'11	
evening set	-1959 Oct 31 j 08:59	7°♏30'25	
conjunction	-1959 Nov 16 j 20:27	9°♏25'33	1°30'53
minimum elong	-1959 Nov 16 j 20:29	9°♏25'34	1°30'52
max. Earth dist.	-1959 Nov 16 j 10:01	9°♏22'29	11.11290 AU
morning rise	-1959 Dec 03 j 08:26	11°♏20'53	
	-1958 Jan 06 j 22:36	15°♏	
retrograde	-1958 Mar 14 j 14:50	18°♏21'06	
opposition	-1958 May 24 j 16:09	15°♏02'46	1°37'10
min. Earth dist.	-1958 May 25 j 01:07	15°♏01'08	9.08566 AU
	-1958 May 25 j 07:16	15°℞♏	
direct	-1958 Aug 03 j 08:59	11°♏44'45	
	-1958 Oct 07 j 13:19	15°♏	
evening set	-1958 Nov 11 j 12:51	18°♏42'02	
conjunction	-1958 Nov 28 j 01:44	20°♏38'18	1°07'40
minimum elong	-1958 Nov 28 j 01:46	20°♏38'19	1°07'38
max. Earth dist.	-1958 Nov 27 j 15:41	20°♏35'20	11.05150 AU
morning rise	-1958 Dec 14 j 15:46	22°♏35'00	
retrograde	-1957 Mar 26 j 18:26	29°♏41'11	
opposition	-1957 Jun 05 j 19:04	26°♏21'49	1°06'55
min. Earth dist.	-1957 Jun 06 j 03:42	26°♏20'13	9.01224 AU
direct	-1957 Aug 15 j 02:04	23°♏03'47	
evening set	-1957 Nov 22 j 20:51	0°♐03'41	
	-1957 Nov 22 j 08:11	0°♐	
conjunction	-1957 Dec 09 j 11:28	2°♐01'30	0°41'28
minimum elong	-1957 Dec 09 j 11:30	2°♐01'30	0°41'25
max. Earth dist.	-1957 Dec 09 j 01:13	1°♐58'27	10.96773 AU
morning rise	-1957 Dec 26 j 04:12	4°♐00'01	
retrograde	-1956 Apr 07 j 02:47	11°♐13'38	
opposition	-1956 Jun 17 j 02:38	7°♐53'03	0°33'25
min. Earth dist.	-1956 Jun 17 j 11:12	7°♐51'27	8.91794 AU
direct	-1956 Aug 25 j 19:35	4°♐34'45	
evening set	-1956 Dec 03 j 10:37	11°♐38'52	
conjunction	-1956 Dec 20 j 03:23	13°♐38'34	0°13'08
minimum elong	-1956 Dec 20 j 03:24	13°♐38'34	0°13'05
behind sun begin	-1956 Dec 19 j 23:06	13°♐37'18	
behind sun end	-1956 Dec 20 j 07:41	13°♐39'51	
max. Earth dist.	-1956 Dec 19 j 16:44	13°♐35'23	10.86464 AU
morning rise	-1955 Jan 05 j 23:19	15°♐39'16	
retrograde	-1955 Apr 19 j 18:10	23°♐01'45	
desc. node	-1955 Jun 06 j 04:03	21°♐20'48	
opposition	-1955 Jun 29 j 15:34	19°♐39'46	-0°02'16
min. Earth dist.	-1955 Jun 30 j 00:09	19°♐38'09	8.80627 AU
direct	-1955 Sep 06 j 19:33	16°♐20'55	
evening set	-1955 Dec 15 j 08:10	23°♐30'50	

conjunction	-1954 Jan 01 j 03:35	25°♐32'48	-0°16'28
minimum elong	-1954 Jan 01 j 03:34	25°♐32'48	0°16'30
max. Earth dist.	-1955 Dec 31 j 18:00	25°♐29'54	10.74595 AU
morning rise	-1954 Jan 18 j 02:50	27°♐35'58	
	-1954 Feb 08 j 01:49	0°♑	
retrograde	-1954 May 02 j 19:23	5°♑08'26	
opposition	-1954 Jul 12 j 10:20	1°♑44'56	-0°38'50
min. Earth dist.	-1954 Jul 12 j 17:54	1°♑43'30	8.68139 AU
	-1954 Aug 05 j 14:14	30°℞♐	
direct	-1954 Sep 19 j 01:13	28°♐25'18	
	-1954 Nov 01 j 00:20	0°♑	
evening set	-1954 Dec 27 j 15:00	5°♑42'31	
conjunction	-1953 Jan 13 j 13:23	7°♑46'59	-0°45'57
minimum elong	-1953 Jan 13 j 13:21	7°♑46'59	0°45'59
max. Earth dist.	-1953 Jan 13 j 05:36	7°♑44'35	10.61611 AU
morning rise	-1953 Jan 30 j 16:00	9°♑52'51	
retrograde	-1953 May 16 j 05:26	17°♑36'11	
opposition	-1953 Jul 25 j 11:56	14°♑11'06	-1°14'44
min. Earth dist.	-1953 Jul 25 j 17:44	14°♑09'59	8.54809 AU
direct	-1953 Oct 01 j 12:32	10°♑50'28	
evening set	-1952 Jan 09 j 08:27	18°♑16'16	
conjunction	-1952 Jan 26 j 09:56	20°♑23'27	-1°14'03
minimum elong	-1952 Jan 26 j 09:54	20°♑23'27	1°14'04
max. Earth dist.	-1952 Jan 26 j 03:45	20°♑21'31	10.48023 AU
morning rise	-1952 Feb 12 j 16:04	22°♑32'10	
	-1952 May 06 j 00:36	0°♒	
retrograde	-1952 May 29 j 00:56	0°♒26'51	
	-1952 Jun 21 j 04:07	30°℞♑	
opposition	-1952 Aug 06 j 20:45	27°♑00'11	-1°48'08
min. Earth dist.	-1952 Aug 07 j 00:44	26°♑59'24	8.41170 AU
direct	-1952 Oct 13 j 07:42	23°♑38'22	
	-1951 Jan 11 j 11:54	0°♒	
evening set	-1951 Jan 21 j 13:51	1°♒13'52	
conjunction	-1951 Feb 07 j 18:39	3°♒23'55	-1°39'11
minimum elong	-1951 Feb 07 j 18:36	3°♒23'54	1°39'12
max. Earth dist.	-1951 Feb 07 j 13:28	3°♒22'16	10.34407 AU
morning rise	-1951 Feb 25 j 04:30	5°♒35'35	
retrograde	-1951 Jun 12 j 05:52	13°♒41'27	
opposition	-1951 Aug 20 j 12:45	10°♒13'22	-2°17'00
min. Earth dist.	-1951 Aug 20 j 15:26	10°♒12'49	8.27853 AU
direct	-1951 Oct 26 j 10:33	6°♒50'12	
evening set	-1950 Feb 04 j 07:39	14°♒36'09	
	-1950 Feb 07 j 11:12	15°♒	
conjunction	-1950 Feb 21 j 16:05	16°♒49'06	-1°59'41
minimum elong	-1950 Feb 21 j 16:02	16°♒49'05	1°59'42
max. Earth dist.	-1950 Feb 21 j 12:37	16°♒47'59	10.21485 AU
morning rise	-1950 Mar 11 j 05:41	19°♒03'42	
retrograde	-1950 Jun 26 j 18:50	27°♒19'48	
opposition	-1950 Sep 03 j 11:47	23°♒50'30	-2°39'10
min. Earth dist.	-1950 Sep 03 j 12:54	23°♒50'16	8.15647 AU
direct	-1950 Nov 08 j 23:00	20°♒25'56	
evening set	-1949 Feb 18 j 13:32	28°♒22'15	
	-1949 Mar 03 j 04:59	0°♓	
conjunction	-1949 Mar 08 j 01:53	0°♓38'01	-2°13'55
minimum elong	-1949 Mar 08 j 01:52	0°♓38'00	2°13'56
max. Earth dist.	-1949 Mar 08 j 01:12	0°♓37'47	10.10084 AU
morning rise	-1949 Mar 25 j 19:08	2°♓55'20	
retrograde	-1949 Jul 11 j 12:38	11°♓19'45	
opposition	-1949 Sep 17 j 16:51	7°♓49'29	-2°52'38
min. Earth dist.	-1949 Sep 17 j 15:54	7°♓49'41	8.05363 AU
direct	-1949 Nov 22 j 21:43	4°♓23'31	
evening set	-1948 Mar 04 j 06:36	12°♓29'20	

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

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

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

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

Attention, astronomical year style is used: The year -1923 in astronomical counting style is the year 1924 BCE in historical counting style.

conjunction	-1923 Jan 19 j 23:46	14°♑55'50	-1°01'39	
minimum elong	-1923 Jan 19 j 23:43	14°♑55'49	1°01'41	
max. Earth dist.	-1923 Jan 19 j 15:07	14°♑53'08	10.52159 AU	
morning rise	-1923 Feb 06 j 04:32	17°♑03'28		
retrograde	-1923 May 23 j 03:54	24°♑53'48		
opposition	-1923 Aug 01 j 05:45	21°♑27'13	-1°33'36	
min. Earth dist.	-1923 Aug 01 j 11:46	21°♑26'02	8.45189 AU	
direct	-1923 Oct 07 j 23:24	18°♑05'16		
evening set	-1922 Jan 15 j 23:54	25°♑37'09		
conjunction	-1922 Feb 02 j 03:17	27°♑46'10	-1°28'22	
minimum elong	-1922 Feb 02 j 03:14	27°♑46'09	1°28'23	
max. Earth dist.	-1922 Feb 01 j 21:24	27°♑44'18	10.38346 AU	
morning rise	-1922 Feb 19 j 11:35	29°♑56'45		
	-1922 Feb 19 j 22:05	0°♒		
retrograde	-1922 Jun 06 j 04:45	7°♒58'30		
opposition	-1922 Aug 14 j 18:43	4°♒30'24	-2°04'49	
min. Earth dist.	-1922 Aug 14 j 22:25	4°♒29'40	8.31630 AU	
direct	-1922 Oct 20 j 23:19	1°♒07'12		
evening set	-1921 Jan 29 j 12:15	8°♒49'16		
conjunction	-1921 Feb 15 j 19:13	11°♒01'10	-1°51'11	
minimum elong	-1921 Feb 15 j 19:10	11°♒01'09	1°51'12	
max. Earth dist.	-1921 Feb 15 j 16:19	11°♒00'15	10.25109 AU	
morning rise	-1921 Mar 05 j 07:04	13°♒14'43		
	-1921 Mar 19 j 14:53	15°♒		
retrograde	-1921 Jun 20 j 14:49	21°♒27'14		
opposition	-1921 Aug 28 j 15:00	17°♒57'48	-2°30'17	
min. Earth dist.	-1921 Aug 28 j 15:51	17°♒57'38	8.19024 AU	
	-1921 Oct 12 j 07:44	15°℞♒		
direct	-1921 Nov 03 j 07:18	14°♒33'19		
	-1921 Nov 25 j 02:36	15°♒		
evening set	-1920 Feb 12 j 12:54	22°♒25'45		
conjunction	-1920 Feb 29 j 23:38	24°♒40'30	-2°08'26	
minimum elong	-1920 Feb 29 j 23:36	24°♒40'30	2°08'27	
max. Earth dist.	-1920 Feb 29 j 23:38	24°♒40'30	10.13190 AU	
morning rise	-1920 Mar 18 j 15:09	26°♒56'51		
	-1920 Apr 12 j 20:03	0°♓		
retrograde	-1920 Jul 04 j 07:25	5°♓18'37		
opposition	-1920 Sep 10 j 17:49	1°♓48'10	-2°47'54	
min. Earth dist.	-1920 Sep 10 j 16:10	1°♓48'30	8.08099 AU	
	-1920 Oct 04 j 00:25	30°℞♒		
direct	-1920 Nov 16 j 01:15	28°♒22'22		
	-1920 Dec 28 j 03:23	0°♓		
evening set	-1919 Feb 26 j 01:30	6°♓24'42		
conjunction	-1919 Mar 15 j 16:12	8°♓42'07	-2°18'36	
minimum elong	-1919 Mar 15 j 16:11	8°♓42'07	2°18'36	
max. Earth dist.	-1919 Mar 15 j 18:51	8°♓42'59	10.03320 AU	
morning rise	-1919 Apr 02 j 11:22	11°♓00'59		
retrograde	-1919 Jul 19 j 04:47	19°♓29'27		
opposition	-1919 Sep 25 j 01:48	15°♓58'24	-2°55'48	
min. Earth dist.	-1919 Sep 24 j 22:07	15°♓59'09	7.99547 AU	
direct	-1919 Nov 30 j 03:20	12°♓31'22		
evening set	-1918 Mar 13 j 00:14	20°♓42'18		
conjunction	-1918 Mar 30 j 19:00	23°♓02'00	-2°20'29	
minimum elong	-1918 Mar 30 j 19:01	23°♓02'01	2°20'29	
max. Earth dist.	-1918 Mar 31 j 00:14	23°♓03'44	9.96157 AU	
morning rise	-1918 Apr 17 j 17:36	25°♓22'56		
	-1918 May 26 j 16:14	0°♈		
retrograde	-1918 Aug 03 j 04:51	3°♈54'52		
opposition	-1918 Oct 09 j 13:35	0°♈23'38	-2°52'50	
min. Earth dist.	-1918 Oct 09 j 08:13	0°♈24'45	7.93954 AU	
	-1918 Oct 14 j 07:25	30°℞♓		
direct	-1918 Dec 14 j 13:04	26°♓55'34		
	-1917 Feb 11 j 08:58	0°♈		
evening set	-1917 Mar 28 j 06:27	5°♈12'57		
conjunction	-1917 Apr 15 j 05:05	7°♈34'23	-2°13'33	
minimum elong	-1917 Apr 15 j 05:08	7°♈34'24	2°13'33	
max. Earth dist.	-1917 Apr 15 j 13:09	7°♈37'03	9.92219 AU	
morning rise	-1917 May 03 j 06:37	9°♈56'43		
retrograde	-1917 Aug 18 j 04:26	18°♈28'25		
opposition	-1917 Oct 24 j 02:56	14°♈57'28	-2°38'45	
min. Earth dist.	-1917 Oct 23 j 19:48	14°♈58'58	7.91734 AU	
direct	-1917 Dec 29 j 04:49	11°♈28'34		
evening set	-1916 Apr 11 j 17:19	19°♈49'46		
conjunction	-1916 Apr 29 j 19:20	22°♈12'11	-1°58'02	
minimum elong	-1916 Apr 29 j 19:23	22°♈12'13	1°58'01	
max. Earth dist.	-1916 Apr 30 j 05:56	22°♈15'42	9.91805 AU	
morning rise	-1916 May 17 j 22:56	24°♈35'05		
	-1916 Jul 03 j 20:07	0°♉		
retrograde	-1916 Sep 01 j 00:36	3°♉02'46		
	-1916 Nov 01 j 03:37	30°℞♈		
opposition	-1916 Nov 06 j 15:29	29°♈32'33	-2°14'23	
min. Earth dist.	-1916 Nov 06 j 06:45	29°♈34'23	7.93060 AU	
direct	-1915 Jan 12 j 00:42	26°♈03'05		
	-1915 Mar 21 j 01:13	0°♉		
evening set	-1915 Apr 27 j 05:12	4°♉25'08		
conjunction	-1915 May 15 j 09:31	6°♉47'38	-1°35'01	
minimum elong	-1915 May 15 j 09:35	6°♉47'39	1°34'59	
max. Earth dist.	-1915 May 15 j 22:00	6°♉51'45	9.94945 AU	
morning rise	-1915 Jun 02 j 13:55	9°♉10'08		
	-1915 Jul 24 j 09:31	15°♉		
retrograde	-1915 Sep 15 j 14:21	17°♉30'32		
	-1915 Nov 09 j 03:52	15°℞♉		
opposition	-1915 Nov 21 j 01:21	14°♉01'25	-1°41'37	
min. Earth dist.	-1915 Nov 20 j 15:20	14°♉03'30	7.97838 AU	
direct	-1914 Jan 26 j 20:59	10°♉31'42		
	-1914 Apr 10 j 08:10	15°♉		
evening set	-1914 May 12 j 14:16	18°♉51'37		
conjunction	-1914 May 30 j 19:21	21°♉13'13	-1°06'15	
minimum elong	-1914 May 30 j 19:24	21°♉13'15	1°06'13	
max. Earth dist.	-1914 May 31 j 09:00	21°♉17'41	10.01397 AU	
morning rise	-1914 Jun 17 j 23:01	23°♉34'21		
	-1914 Aug 16 j 20:56	0°♊		
retrograde	-1914 Sep 29 j 20:27	1°♊45'02		
	-1914 Nov 13 j 13:49	30°℞♉		
opposition	-1914 Dec 05 j 06:32	28°♉17'17	-1°03'03	
min. Earth dist.	-1914 Dec 04 j 19:54	28°♉19'29	8.05710 AU	
direct	-1913 Feb 10 j 14:45	24°♉47'37		
	-1913 May 02 j 10:50	0°♊		
evening set	-1913 May 27 j 17:25	3°♊02'51		
conjunction	-1913 Jun 14 j 21:38	5°♊22'38	-0°33'55	
minimum elong	-1913 Jun 14 j 21:39	5°♊22'39	0°33'53	
max. Earth dist.	-1913 Jun 15 j 11:20	5°♊27'03	10.10667 AU	
morning rise	-1913 Jul 02 j 23:02	7°♊41'31		
retrograde	-1913 Oct 13 j 18:08	15°♊41'00		
opposition	-1913 Dec 19 j 05:33	12°♊14'48	-0°21'35	
min. Earth dist.	-1913 Dec 18 j 19:39	12°♊16'49	8.16086 AU	
direct	-1912 Feb 25 j 03:53	8°♊45'26		
evening set	-1912 Jun 10 j 12:05	16°♊54'04		
conjunction	-1912 Jun 28 j 13:44	19°♊11'19	-0°00'17	
minimum elong	-1912 Jun 28 j 13:44	19°♊11'19	0°00'15	
behind sun begin	-1912 Jun 28 j 06:29	19°♊09'01		
behind sun end	-1912 Jun 28 j 21:00	19°♊13'36		
max. Earth dist.	-1912 Jun 29 j 01:50	19°♊15'09	10.22040 AU	

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

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

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

	-1900 Dec 20 j 10:48	15°♏	
retrograde	-1899 Mar 15 j 22:38	20°♏14'40	
opposition	-1899 May 25 j 22:30	16°♏56'07	1°33'44
min. Earth dist.	-1899 May 26 j 06:56	16°♏54'34	9.06937 AU
	-1899 Jun 23 j 01:24	15°℞♏	
direct	-1899 Aug 04 j 15:02	13°♏37'58	
	-1899 Sep 14 j 20:38	15°♏	
evening set	-1899 Nov 12 j 17:49	20°♏35'57	
conjunction	-1899 Nov 29 j 06:54	22°♏32'29	1°04'38
minimum elong	-1899 Nov 29 j 06:56	22°♏32'30	1°04'36
max. Earth dist.	-1899 Nov 28 j 20:47	22°♏29'30	11.03440 AU
morning rise	-1899 Dec 15 j 21:14	24°♏29'30	