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

	-2400 Mar 01 j 08:18	0°♈	
evening set	-2400 Apr 08 j 16:18	8°♈24'08	
conjunction	-2400 Apr 22 j 10:28	11°♈33'35	-0°54'44
minimum elong	-2400 Apr 22 j 10:32	11°♈33'37	0°54'43
max. Earth dist.	-2400 Apr 24 j 06:39	11°♈58'58	6.12648 AU
morning rise	-2400 May 06 j 05:36	14°♈43'19	
	-2400 Jul 23 j 05:33	0°♉	
retrograde	-2400 Sep 10 j 12:57	3°♉42'44	
	-2400 Oct 30 j 00:00	30°℞♈	
min. Earth dist.	-2400 Nov 08 j 01:13	28°♈47'09	4.18450 AU
opposition	-2400 Nov 09 j 00:02	28°♈39'24	-0°53'24
direct	-2399 Jan 07 j 07:41	23°♈38'05	
	-2399 Mar 15 j 02:44	0°♉	
evening set	-2399 May 14 j 10:25	12°♉14'26	
	-2399 May 26 j 18:44	15°♉	
conjunction	-2399 May 28 j 04:05	15°♉18'41	-0°14'54
minimum elong	-2399 May 28 j 04:06	15°♉18'42	0°14'51
behind sun begin	-2399 May 28 j 01:16	15°♉17'07	
behind sun end	-2399 May 28 j 06:57	15°♉20'17	
max. Earth dist.	-2399 May 29 j 03:46	15°♉31'56	6.24355 AU
morning rise	-2399 Jun 10 j 20:45	18°♉22'11	
	-2399 Aug 07 j 04:51	0°♊	
asc. node	-2399 Oct 09 j 14:39	6°♊20'56	
retrograde	-2399 Oct 12 j 18:03	6°♊21'56	
opposition	-2399 Dec 11 j 07:14	1°♊22'09	0°10'08
min. Earth dist.	-2399 Dec 10 j 23:54	1°♊24'36	4.29783 AU
	-2399 Dec 21 j 15:56	30°℞♉	
direct	-2398 Feb 09 j 23:23	26°♉19'00	
	-2398 Apr 01 j 10:43	0°♊	
evening set	-2398 Jun 17 j 12:30	14°♊29'20	
conjunction	-2398 Jul 01 j 00:20	17°♊26'54	0°28'17
minimum elong	-2398 Jul 01 j 00:18	17°♊26'53	0°28'20
max. Earth dist.	-2398 Jun 30 j 23:24	17°♊26'23	6.34477 AU
morning rise	-2398 Jul 14 j 09:21	20°♊23'00	
	-2398 Aug 30 j 12:41	0°♋	
retrograde	-2398 Nov 12 j 16:38	7°♋39'13	
opposition	-2397 Jan 11 j 14:15	2°♋43'19	1°07'54
min. Earth dist.	-2397 Jan 11 j 22:26	2°♋40'38	4.37995 AU
	-2397 Feb 02 j 13:24	30°℞♊	
direct	-2397 Mar 14 j 09:19	27°♊39'47	
	-2397 Apr 23 j 16:18	0°♋	
evening set	-2397 Jul 20 j 00:34	15°♋33'00	
max. Earth dist.	-2397 Aug 01 j 02:39	18°♋11'02	6.40101 AU
conjunction	-2397 Aug 02 j 03:23	18°♋24'34	1°02'03
minimum elong	-2397 Aug 02 j 03:20	18°♋24'32	1°02'07
morning rise	-2397 Aug 15 j 03:02	21°♋14'32	
	-2397 Sep 26 j 21:40	0°♌	
retrograde	-2397 Dec 13 j 09:44	8°♌11'58	
opposition	-2396 Feb 11 j 16:07	3°♌19'02	1°45'20
min. Earth dist.	-2396 Feb 12 j 15:22	3°♌11'32	4.40812 AU
	-2396 Mar 10 j 20:26	30°℞♋	
direct	-2396 Apr 14 j 05:46	28°♋16'26	
	-2396 May 18 j 19:43	0°♌	
	-2396 Aug 14 j 10:58	15°♌	
evening set	-2396 Aug 19 j 09:28	16°♌04'24	
max. Earth dist.	-2396 Aug 30 j 12:06	18°♌30'37	6.39771 AU
conjunction	-2396 Sep 01 j 04:17	18°♌52'43	1°18'06
minimum elong	-2396 Sep 01 j 04:16	18°♌52'42	1°18'08
morning rise	-2396 Sep 13 j 20:17	21°♌39'43	
	-2396 Oct 24 j 01:17	0°♍	
retrograde	-2395 Jan 12 j 14:21	8°♍44'43	
opposition	-2395 Mar 14 j 07:13	3°♍53'04	1°53'47
min. Earth dist.	-2395 Mar 15 j 14:04	3°♍43'13	4.37469 AU
	-2395 Apr 18 j 07:45	30°℞♌	
direct	-2395 May 15 j 21:59	28°♌52'25	
	-2395 Jun 12 j 14:50	0°♍	
evening set	-2395 Sep 19 j 08:14	16°♍47'38	
max. Earth dist.	-2395 Sep 30 j 03:00	19°♍12'03	6.33599 AU
conjunction	-2395 Oct 01 j 22:28	19°♍36'25	1°12'20
minimum elong	-2395 Oct 01 j 22:30	19°♍36'26	1°12'21
morning rise	-2395 Oct 14 j 10:51	22°♍24'30	
	-2395 Nov 19 j 01:18	0°♎	
retrograde	-2394 Feb 14 j 04:42	10°♎01'37	
opposition	-2394 Apr 16 j 04:12	5°♎09'33	1°29'52
min. Earth dist.	-2394 Apr 17 j 10:58	4°♎59'46	4.28811 AU
direct	-2394 Jun 17 j 05:08	0°♎11'39	
evening set	-2394 Oct 20 j 16:35	18°♎25'01	
max. Earth dist.	-2394 Oct 31 j 17:33	20°♎56'42	6.23178 AU
conjunction	-2394 Nov 02 j 06:26	21°♎17'54	0°45'06
minimum elong	-2394 Nov 02 j 06:29	21°♎17'55	0°45'05
morning rise	-2394 Nov 14 j 20:18	24°♎10'56	
	-2394 Dec 11 j 00:36	0°♏	
retrograde	-2393 Mar 20 j 15:26	12°♏39'41	
opposition	-2393 May 20 j 16:42	7°♏45'26	0°36'58
min. Earth dist.	-2393 May 21 j 12:28	7°♏39'06	4.17235 AU
direct	-2393 Jul 20 j 13:34	2°♏50'14	
	-2393 Oct 24 j 12:47	15°♏	
evening set	-2393 Nov 22 j 06:28	21°♏29'31	
max. Earth dist.	-2393 Dec 04 j 08:09	24°♏19'30	6.11529 AU
conjunction	-2393 Dec 05 j 00:03	24°♏28'50	0°02'36
minimum elong	-2393 Dec 05 j 00:03	24°♏28'51	0°02'33
behind sun begin	-2393 Dec 04 j 16:01	24°♏24'09	
behind sun end	-2393 Dec 05 j 08:04	24°♏33'32	
morning rise	-2393 Dec 17 j 18:57	27°♏29'09	
desc. node	-2393 Dec 26 j 19:25	29°♏34'49	
	-2393 Dec 28 j 15:13	0°♐	
retrograde	-2392 Apr 25 j 00:21	16°♐56'54	
opposition	-2392 Jun 24 j 19:03	11°♐59'16	-0°31'25
min. Earth dist.	-2392 Jun 24 j 21:36	11°♐58'26	4.06419 AU
direct	-2392 Aug 23 j 07:19	7°♐05'54	
evening set	-2392 Dec 25 j 16:02	26°♐11'51	
conjunction	-2391 Jan 07 j 15:28	29°♐17'41	-0°42'23
minimum elong	-2391 Jan 07 j 15:25	29°♐17'39	0°42'25
max. Earth dist.	-2391 Jan 08 j 01:12	29°♐23'29	6.02525 AU
	-2391 Jan 10 j 14:17	0°♑	
morning rise	-2391 Jan 20 j 17:55	2°♑25'10	
retrograde	-2391 Jun 01 j 10:29	22°♑38'44	
opposition	-2391 Jul 31 j 19:06	17°♑37'08	-1°30'58
min. Earth dist.	-2391 Jul 31 j 01:46	17°♑42'55	4.00225 AU
direct	-2391 Sep 28 j 03:23	12°♑43'40	
	-2390 Jan 21 j 21:56	0°♒	
evening set	-2390 Jan 30 j 20:09	2°♒06'32	
conjunction	-2390 Feb 13 j 03:06	5°♒16'52	-1°12'28
minimum elong	-2390 Feb 13 j 03:04	5°♒16'51	1°12'30
max. Earth dist.	-2390 Feb 14 j 15:32	5°♒38'40	5.99631 AU
morning rise	-2390 Feb 26 j 13:14	8°♒28'55	
	-2390 Mar 26 j 20:18	15°♒	
retrograde	-2390 Jul 08 j 17:15	28°♒52'19	
min. Earth dist.	-2390 Sep 05 j 08:59	23°♒57'28	4.01113 AU
opposition	-2390 Sep 06 j 13:29	23°♒47'47	-1°56'10

Attention, astronomical year style is used: The year -2390 in astronomical counting style is the year 2391 BCE in historical counting style.

direct	-2390 Nov 03 j 13:00	18°♒52'12		
	-2389 Jan 31 j 10:39	0°♓		
evening set	-2389 Mar 08 j 23:40	8°♓13'12		
conjunction	-2389 Mar 22 j 13:52	11°♓24'43	-1°14'58	
minimum elong	-2389 Mar 22 j 13:54	11°♓24'44	1°14'59	
max. Earth dist.	-2389 Mar 24 j 14:58	11°♓53'35	6.04111 AU	
morning rise	-2389 Apr 05 j 06:35	14°♓37'23		
	-2389 Jun 20 j 02:17	0°♈		
retrograde	-2389 Aug 13 j 11:25	4°♈27'20		
	-2389 Oct 07 j 09:29	30°℞♓		
min. Earth dist.	-2389 Oct 10 j 17:35	29°♓32'44	4.08750 AU	
opposition	-2389 Oct 12 j 00:02	29°♓22'21	-1°37'03	
direct	-2389 Dec 09 j 09:37	24°♓23'35		
	-2388 Feb 08 j 11:46	0°♈		
evening set	-2388 Apr 13 j 20:03	13°♈24'20		
conjunction	-2388 Apr 27 j 14:25	16°♈33'13	-0°49'52	
minimum elong	-2388 Apr 27 j 14:29	16°♈33'15	0°49'50	
max. Earth dist.	-2388 Apr 29 j 08:08	16°♈57'06	6.14244 AU	
morning rise	-2388 May 11 j 09:39	19°♈42'15		
	-2388 Jun 28 j 20:49	0°♉		
retrograde	-2388 Sep 15 j 05:15	8°♉32'48		
opposition	-2388 Nov 13 j 15:57	3°♉29'53	-0°44'48	
min. Earth dist.	-2388 Nov 12 j 19:11	3°♉36'56	4.20239 AU	
	-2388 Dec 12 j 09:18	30°℞♈		
direct	-2387 Jan 12 j 04:45	28°♈28'16		
	-2387 Feb 12 j 09:09	0°♉		
	-2387 May 10 j 06:28	15°♉		
evening set	-2387 May 19 j 08:17	16°♉59'57		
conjunction	-2387 Jun 02 j 01:32	20°♉03'12	-0°08'44	
minimum elong	-2387 Jun 02 j 01:32	20°♉03'12	0°08'40	
behind sun begin	-2387 Jun 01 j 18:22	19°♉59'14		
behind sun end	-2387 Jun 02 j 08:42	20°♉07'11		
max. Earth dist.	-2387 Jun 02 j 23:58	20°♉15'43	6.26231 AU	
morning rise	-2387 Jun 15 j 17:13	23°♉05'31		
	-2387 Jul 18 j 02:19	0°♊		
asc. node	-2387 Aug 19 j 16:13	5°♊55'03		
retrograde	-2387 Oct 17 j 02:25	10°♊56'44		
opposition	-2387 Dec 15 j 17:49	5°♊57'31	0°18'55	
min. Earth dist.	-2387 Dec 15 j 11:27	5°♊59'38	4.31593 AU	
direct	-2386 Feb 14 j 13:24	0°♊54'17		
evening set	-2386 Jun 22 j 03:34	18°♊59'59		
conjunction	-2386 Jul 05 j 14:00	21°♊56'21	0°33'44	
minimum elong	-2386 Jul 05 j 13:57	21°♊56'20	0°33'47	
max. Earth dist.	-2386 Jul 05 j 08:43	21°♊53'28	6.36079 AU	
morning rise	-2386 Jul 18 j 21:46	24°♊51'15		
	-2386 Aug 12 j 03:04	0°♋		
retrograde	-2386 Nov 16 j 23:01	12°♋01'35		
opposition	-2385 Jan 15 j 21:24	7°♋06'10	1°14'25	
min. Earth dist.	-2385 Jan 16 j 08:43	7°♋02'28	4.39281 AU	
direct	-2385 Mar 18 j 21:35	2°♋02'41		
evening set	-2385 Jul 24 j 09:14	19°♋52'35		
max. Earth dist.	-2385 Aug 05 j 07:48	22°♋28'31	6.40948 AU	
conjunction	-2385 Aug 06 j 10:53	22°♋43'18	1°05'22	
minimum elong	-2385 Aug 06 j 10:50	22°♋43'16	1°05'25	
morning rise	-2385 Aug 19 j 09:09	25°♋32'24		
	-2385 Sep 09 j 08:37	0°♌		
retrograde	-2385 Dec 17 j 12:49	12°♌27'42		
opposition	-2384 Feb 15 j 22:12	7°♌35'01	1°48'11	
min. Earth dist.	-2384 Feb 16 j 22:26	7°♌27'13	4.41182 AU	
direct	-2384 Apr 18 j 12:34	2°♌32'36		
	-2384 Jul 29 j 12:36	15°♌		
evening set	-2384 Aug 23 j 14:11	20°♌19'27		
max. Earth dist.	-2384 Sep 03 j 14:19	22°♌44'27	6.39612 AU	
conjunction	-2384 Sep 05 j 08:03	23°♌07'26	1°18'34	
minimum elong	-2384 Sep 05 j 08:02	23°♌07'26	1°18'36	
morning rise	-2384 Sep 17 j 23:14	25°♌54'12		
	-2384 Oct 07 j 00:03	0°♍		
retrograde	-2383 Jan 16 j 21:46	13°♍01'14		
opposition	-2383 Mar 18 j 15:28	8°♍09'41	1°52'21	
min. Earth dist.	-2383 Mar 20 j 00:11	7°♍59'16	4.36771 AU	
direct	-2383 May 20 j 06:30	3°♍09'20		
evening set	-2383 Sep 23 j 12:20	21°♍06'00		
max. Earth dist.	-2383 Oct 04 j 04:44	23°♍29'35	6.32396 AU	
conjunction	-2383 Oct 06 j 02:13	23°♍55'08	1°09'48	
minimum elong	-2383 Oct 06 j 02:15	23°♍55'10	1°09'48	
morning rise	-2383 Oct 18 j 14:38	26°♍43'42		
	-2383 Nov 02 j 10:19	0°♎		
retrograde	-2382 Feb 18 j 16:46	14°♎27'05		
opposition	-2382 Apr 20 j 17:06	9°♎34'49	1°24'14	
min. Earth dist.	-2382 Apr 21 j 23:09	9°♎25'14	4.27166 AU	
direct	-2382 Jun 21 j 14:26	4°♎37'12		
evening set	-2382 Oct 25 j 00:01	22°♎54'45		
max. Earth dist.	-2382 Nov 05 j 03:49	25°♎28'40	6.21239 AU	
conjunction	-2382 Nov 06 j 14:22	25°♎48'36	0°40'02	
minimum elong	-2382 Nov 06 j 14:25	25°♎48'37	0°40'01	
morning rise	-2382 Nov 19 j 04:38	28°♎42'41		
	-2382 Nov 24 j 20:05	0°♏		
	-2381 Feb 13 j 23:36	15°♏		
retrograde	-2381 Mar 25 j 12:46	17°♏20'53		
	-2381 May 04 j 11:28	15°℞♏		
opposition	-2381 May 25 j 12:21	12°♏26'19	0°28'11	
min. Earth dist.	-2381 May 26 j 07:17	12°♏20'14	4.15127 AU	
direct	-2381 Jul 25 j 04:57	7°♏31'26		
	-2381 Oct 05 j 14:25	15°♏		
desc. node	-2381 Nov 07 j 04:33	21°♏45'03		
evening set	-2381 Nov 26 j 20:50	26°♏16'37		
conjunction	-2381 Dec 09 j 15:06	29°♏17'11	-0°03'51	
minimum elong	-2381 Dec 09 j 15:05	29°♏17'11	0°03'55	
behind sun begin	-2381 Dec 09 j 07:08	29°♏12'30		
behind sun end	-2381 Dec 09 j 23:03	29°♏21'52		
max. Earth dist.	-2381 Dec 09 j 00:38	29°♏08'39	6.09438 AU	
	-2381 Dec 12 j 15:33	0°♐		
morning rise	-2381 Dec 22 j 11:14	2°♐18'54		
retrograde	-2380 Apr 30 j 03:54	21°♐56'52		
opposition	-2380 Jun 29 j 21:12	16°♐58'40	-0°40'45	
min. Earth dist.	-2380 Jun 29 j 20:08	16°♐59'01	4.04545 AU	
direct	-2380 Aug 28 j 03:15	12°♐05'24		
	-2380 Dec 25 j 04:50	0°♑		
evening set	-2380 Dec 30 j 14:55	1°♑17'09		
conjunction	-2379 Jan 12 j 15:35	4°♑24'08	-0°47'46	
minimum elong	-2379 Jan 12 j 15:32	4°♑24'06	0°47'50	
max. Earth dist.	-2379 Jan 13 j 06:33	4°♑33'07	6.01048 AU	
morning rise	-2379 Jan 25 j 19:05	7°♑32'47		
retrograde	-2379 Jun 06 j 19:23	27°♑52'55		
min. Earth dist.	-2379 Aug 05 j 05:46	22°♑57'08	3.99321 AU	
opposition	-2379 Aug 06 j 00:47	22°♑50'47	-1°36'59	
direct	-2379 Oct 03 j 06:41	17°♑57'08		
	-2378 Jan 03 j 23:22	0°♒		
evening set	-2378 Feb 05 j 02:11	7°♒23'00		
conjunction	-2378 Feb 18 j 10:15	10°♒33'59	-1°14'34	
minimum elong	-2378 Feb 18 j 10:13	10°♒33'58	1°14'36	
max. Earth dist.	-2378 Feb 20 j 02:18	10°♒57'54	5.99366 AU	
morning rise	-2378 Mar 03 j 21:37	13°♒46'38		

Attention, astronomical year style is used: The year -2378 in astronomical counting style is the year 2379 BCE in historical counting style.

	-2378 Mar 09 j 01:54	15°♒	
	-2378 May 22 j 11:49	0°♓	
retrograde	-2378 Jul 13 j 22:49	4°♓09'08	
	-2378 Sep 04 j 20:43	30°℞♒	
min. Earth dist.	-2378 Sep 10 j 10:43	29°♒14'45	4.01539 AU
opposition	-2378 Sep 11 j 17:29	29°♒04'18	-1°56'00
direct	-2378 Nov 08 j 16:06	24°♒08'16	
	-2377 Jan 09 j 10:23	0°♓	
evening set	-2377 Mar 14 j 07:36	13°♓28'03	
conjunction	-2377 Mar 27 j 22:36	16°♓39'27	-1°12'49
minimum elong	-2377 Mar 27 j 22:39	16°♓39'28	1°12'49
max. Earth dist.	-2377 Mar 29 j 23:50	17°♓08'18	6.05154 AU
morning rise	-2377 Apr 10 j 16:04	19°♓51'53	
	-2377 May 27 j 00:20	0°♈	
retrograde	-2377 Aug 18 j 10:21	9°♈34'27	
opposition	-2377 Oct 16 j 22:43	4°♈29'25	-1°31'03
min. Earth dist.	-2377 Oct 15 j 17:06	4°♈39'33	4.10245 AU
	-2377 Nov 27 j 08:53	30°℞♓	
direct	-2377 Dec 14 j 12:05	29°♓30'06	
	-2377 Dec 31 j 17:51	0°♈	
evening set	-2376 Apr 19 j 00:14	18°♈26'26	
conjunction	-2376 May 02 j 18:55	21°♈34'37	-0°44'34
minimum elong	-2376 May 02 j 18:59	21°♈34'39	0°44'33
max. Earth dist.	-2376 May 04 j 12:28	21°♈58'18	6.16048 AU
morning rise	-2376 May 16 j 13:50	24°♈42'43	
	-2376 Jun 09 j 12:36	0°♉	
retrograde	-2376 Sep 19 j 20:17	13°♉23'31	
opposition	-2376 Nov 18 j 07:59	8°♉21'00	-0°35'51
min. Earth dist.	-2376 Nov 17 j 12:27	8°♉27'37	4.22131 AU
direct	-2375 Jan 17 j 00:53	3°♉19'04	
	-2375 Apr 22 j 14:36	15°♉	
evening set	-2375 May 24 j 06:22	21°♉45'46	
conjunction	-2375 Jun 06 j 22:41	24°♉47'53	-0°02'26
minimum elong	-2375 Jun 06 j 22:43	24°♉47'54	0°02'24
behind sun begin	-2375 Jun 06 j 14:24	24°♉43'19	
behind sun end	-2375 Jun 07 j 07:01	24°♉52'30	
max. Earth dist.	-2375 Jun 07 j 16:08	24°♉57'34	6.28035 AU
morning rise	-2375 Jun 20 j 13:35	27°♉49'04	
asc. node	-2375 Jun 28 j 13:00	29°♉33'59	
	-2375 Jun 30 j 12:53	0°♊	
retrograde	-2375 Oct 21 j 12:30	15°♊32'21	
opposition	-2375 Dec 20 j 04:51	10°♊33'38	0°27'42
min. Earth dist.	-2375 Dec 20 j 01:38	10°♊34'42	4.33160 AU
direct	-2374 Feb 19 j 06:06	5°♊30'13	
evening set	-2374 Jun 26 j 19:00	23°♊32'15	
conjunction	-2374 Jul 10 j 04:22	26°♊27'39	0°39'06
minimum elong	-2374 Jul 10 j 04:20	26°♊27'37	0°39'09
max. Earth dist.	-2374 Jul 09 j 20:50	26°♊23'31	6.37284 AU
morning rise	-2374 Jul 23 j 10:37	29°♊21'28	
	-2374 Jul 26 j 09:42	0°♋	
retrograde	-2374 Nov 21 j 05:10	16°♋27'32	
opposition	-2373 Jan 20 j 06:15	11°♋32'34	1°20'43
min. Earth dist.	-2373 Jan 20 j 19:03	11°♋28'24	4.40064 AU
direct	-2373 Mar 23 j 08:50	6°♋29'11	
evening set	-2373 Jul 28 j 19:57	24°♋17'26	
conjunction	-2373 Aug 10 j 20:11	27°♋07'28	1°08'28
minimum elong	-2373 Aug 10 j 20:09	27°♋07'27	1°08'30
max. Earth dist.	-2373 Aug 09 j 13:13	26°♋50'34	6.41230 AU
morning rise	-2373 Aug 23 j 17:23	29°♋56'00	
	-2373 Aug 24 j 00:46	0°♌	
	-2373 Nov 17 j 02:46	15°♌	
retrograde	-2373 Dec 21 j 22:13	16°♌51'11	
	-2372 Jan 25 j 21:08	15°℞♌	
opposition	-2372 Feb 20 j 08:08	11°♌58'47	1°50'39
min. Earth dist.	-2372 Feb 21 j 11:05	11°♌50'07	4.40963 AU
direct	-2372 Apr 23 j 00:49	6°♌56'34	
	-2372 Jul 11 j 02:57	15°♌	
evening set	-2372 Aug 27 j 22:42	24°♌44'02	
max. Earth dist.	-2372 Sep 07 j 20:41	27°♌08'09	6.38894 AU
conjunction	-2372 Sep 09 j 15:51	27°♌31'59	1°18'40
minimum elong	-2372 Sep 09 j 15:51	27°♌31'59	1°18'43
	-2372 Sep 20 j 20:12	0°♍	
morning rise	-2372 Sep 22 j 06:19	0°♍18'45	
retrograde	-2371 Jan 21 j 09:16	17°♍29'39	
opposition	-2371 Mar 23 j 04:55	12°♍38'05	1°50'18
min. Earth dist.	-2371 Mar 24 j 13:13	12°♍27'48	4.35611 AU
direct	-2371 May 24 j 17:34	7°♍38'06	
evening set	-2371 Sep 27 j 21:52	25°♍37'32	
max. Earth dist.	-2371 Oct 08 j 15:16	28°♍02'12	6.30893 AU
conjunction	-2371 Oct 10 j 11:34	28°♍27'11	1°06'46
minimum elong	-2371 Oct 10 j 11:36	28°♍27'13	1°06'45
	-2371 Oct 17 j 08:05	0°♎	
morning rise	-2371 Oct 22 j 23:57	1°♎16'23	
retrograde	-2370 Feb 23 j 12:56	19°♎07'01	
opposition	-2370 Apr 25 j 12:41	14°♎14'36	1°17'45
min. Earth dist.	-2370 Apr 26 j 18:42	14°♎05'02	4.25398 AU
direct	-2370 Jun 26 j 07:20	9°♎17'25	
evening set	-2370 Oct 29 j 13:31	27°♎39'12	
	-2370 Nov 08 j 17:29	0°♏	
max. Earth dist.	-2370 Nov 09 j 18:55	0°♏14'43	6.19372 AU
conjunction	-2370 Nov 11 j 04:12	0°♏33'59	0°34'24
minimum elong	-2370 Nov 11 j 04:14	0°♏34'01	0°34'23
morning rise	-2370 Nov 23 j 19:15	3°♏29'11	
	-2369 Jan 17 j 06:00	15°♏	
retrograde	-2369 Mar 30 j 14:39	22°♏16'35	
opposition	-2369 May 30 j 14:18	17°♏21'36	0°18'39
min. Earth dist.	-2369 May 31 j 05:44	17°♏16'38	4.13317 AU
	-2369 Jun 18 j 17:35	15°℞♏	
direct	-2369 Jul 30 j 00:48	12°♏27'06	
	-2369 Sep 08 j 14:38	15°♏	
desc. node	-2369 Sep 16 j 02:03	15°♏58'10	
	-2369 Nov 26 j 05:28	0°♐	
evening set	-2369 Dec 01 j 16:49	1°♐16'55	
conjunction	-2369 Dec 14 j 11:57	4°♐18'32	-0°10'29
minimum elong	-2369 Dec 14 j 11:56	4°♐18'31	0°10'32
behind sun begin	-2369 Dec 14 j 05:36	4°♐14'47	
behind sun end	-2369 Dec 14 j 18:16	4°♐22'15	
max. Earth dist.	-2369 Dec 14 j 02:43	4°♐13'04	6.07879 AU
morning rise	-2369 Dec 27 j 08:56	7°♐21'20	
retrograde	-2368 May 05 j 12:50	27°♐07'12	
opposition	-2368 Jul 05 j 03:42	22°♐08'29	-0°50'11
min. Earth dist.	-2368 Jul 05 j 00:25	22°♐09'34	4.03408 AU
direct	-2368 Sep 02 j 06:15	17°♐15'22	
	-2368 Dec 07 j 15:28	0°♑	
evening set	-2367 Jan 04 j 17:34	6°♑30'04	
conjunction	-2367 Jan 17 j 19:10	9°♑37'45	-0°53'00
minimum elong	-2367 Jan 17 j 19:07	9°♑37'43	0°53'04
max. Earth dist.	-2367 Jan 18 j 14:18	9°♑49'13	6.00443 AU
morning rise	-2367 Jan 30 j 23:52	12°♑47'10	
	-2367 Apr 27 j 12:29	0°♒	
retrograde	-2367 Jun 12 j 02:42	3°♒09'45	
	-2367 Jul 27 j 22:05	30°℞♑	
min. Earth dist.	-2367 Aug 10 j 08:55	28°♑14'39	3.99362 AU
opposition	-2367 Aug 11 j 07:13	28°♑07'10	-1°42'18

Attention, astronomical year style is used: The year -2367 in astronomical counting style is the year 2368 BCE in historical counting style.

direct	-2367 Oct 08 j 10:18	23°♉13'22		
	-2367 Dec 14 j 01:56	0°♒		
evening set	-2366 Feb 10 j 08:21	12°♒38'46		
	-2366 Feb 20 j 05:45	15°♒		
conjunction	-2366 Feb 23 j 17:21	15°♒49'52	-1°16'07	
minimum elong	-2366 Feb 23 j 17:20	15°♒49'51	1°16'10	
max. Earth dist.	-2366 Feb 25 j 11:22	16°♒14'54	6.00015 AU	
morning rise	-2366 Mar 09 j 05:41	19°♒02'35		
	-2366 Apr 27 j 19:03	0°♓		
retrograde	-2366 Jul 19 j 01:04	9°♓20'41		
opposition	-2366 Sep 16 j 19:15	4°♓15'36	-1°54'55	
min. Earth dist.	-2366 Sep 15 j 12:06	4°♓26'13	4.02718 AU	
	-2366 Oct 24 j 21:23	30°℞♒		
direct	-2366 Nov 13 j 19:48	29°♒19'06		
	-2366 Dec 03 j 19:31	0°♓		
evening set	-2365 Mar 19 j 12:31	18°♓35'13		
conjunction	-2365 Apr 02 j 04:22	21°♓46'14	-1°10'11	
minimum elong	-2365 Apr 02 j 04:25	21°♓46'16	1°10'11	
max. Earth dist.	-2365 Apr 04 j 06:50	22°♓15'42	6.06754 AU	
morning rise	-2365 Apr 15 j 22:09	24°♓58'06		
	-2365 May 08 j 03:12	0°♈		
retrograde	-2365 Aug 23 j 05:20	14°♈31'33		
opposition	-2365 Oct 21 j 17:16	9°♈26'48	-1°24'35	
min. Earth dist.	-2365 Oct 20 j 12:43	9°♈36'32	4.12079 AU	
direct	-2365 Dec 19 j 09:50	4°♈27'06		
evening set	-2364 Apr 24 j 00:27	23°♈18'26		
conjunction	-2364 May 07 j 18:58	26°♈25'46	-0°39'09	
minimum elong	-2364 May 07 j 19:01	26°♈25'47	0°39'07	
max. Earth dist.	-2364 May 09 j 08:14	26°♈46'54	6.17950 AU	
morning rise	-2364 May 21 j 13:46	29°♈32'56		
	-2364 May 23 j 13:56	0°♉		
	-2364 Aug 10 j 15:53	15°♉		
retrograde	-2364 Sep 24 j 07:12	18°♉04'27		
	-2364 Nov 07 j 22:13	15°℞♉		
opposition	-2364 Nov 22 j 20:02	13°♉02'25	-0°27'00	
min. Earth dist.	-2364 Nov 22 j 02:52	13°♉08'13	4.23918 AU	
direct	-2363 Jan 21 j 17:48	8°♉00'09		
	-2363 Apr 02 j 20:31	15°♉		
asc. node	-2363 May 08 j 17:20	21°♉59'29		
evening set	-2363 May 29 j 00:11	26°♉22'41		
conjunction	-2363 Jun 11 j 15:56	29°♉23'54	0°03'48	
minimum elong	-2363 Jun 11 j 15:56	29°♉23'54	0°03'50	
behind sun begin	-2363 Jun 11 j 07:44	29°♉19'23		
behind sun end	-2363 Jun 12 j 00:07	29°♉28'25		
max. Earth dist.	-2363 Jun 12 j 06:26	29°♉31'55	6.29583 AU	
	-2363 Jun 14 j 09:03	0°♊		
morning rise	-2363 Jun 25 j 05:40	2°♊23'59		
retrograde	-2363 Oct 25 j 19:48	20°♊00'50		
opposition	-2363 Dec 24 j 13:06	15°♊02'45	0°36'02	
min. Earth dist.	-2363 Dec 24 j 12:14	15°♊03'02	4.34353 AU	
direct	-2362 Feb 23 j 18:21	9°♊59'18		
evening set	-2362 Jul 01 j 07:43	27°♊59'04		
	-2362 Jul 10 j 13:37	0°♋		
conjunction	-2362 Jul 14 j 15:46	0°♋53'39	0°44'05	
minimum elong	-2362 Jul 14 j 15:43	0°♋53'38	0°44'09	
max. Earth dist.	-2362 Jul 14 j 02:54	0°♋46'37	6.38017 AU	
morning rise	-2362 Jul 27 j 20:55	3°♋46'42		
retrograde	-2362 Nov 25 j 12:17	20°♋50'23		
opposition	-2361 Jan 24 j 13:53	15°♋55'52	1°26'29	
min. Earth dist.	-2361 Jan 25 j 05:37	15°♋50'44	4.40327 AU	
direct	-2361 Mar 27 j 19:38	10°♋52'32		
evening set	-2361 Aug 02 j 05:24	28°♋40'50		
	-2361 Aug 08 j 06:58	0°♌		
max. Earth dist.	-2361 Aug 13 j 20:24	1°♌12'52	6.40998 AU	
conjunction	-2361 Aug 15 j 04:43	1°♌30'32	1°11'07	
minimum elong	-2361 Aug 15 j 04:40	1°♌30'31	1°11'10	
morning rise	-2361 Aug 28 j 00:40	4°♌18'41		
	-2361 Oct 20 j 15:44	15°♌		
retrograde	-2361 Dec 26 j 06:07	21°♌15'28		
opposition	-2360 Feb 24 j 18:06	16°♌23'18	1°52'29	
min. Earth dist.	-2360 Feb 25 j 21:30	16°♌14'31	4.40283 AU	
	-2360 Mar 06 j 17:22	15°℞♌		
direct	-2360 Apr 27 j 10:05	11°♌21'23		
	-2360 Jun 17 j 14:48	15°♌		
evening set	-2360 Sep 01 j 07:30	29°♌10'48		
	-2360 Sep 05 j 00:57	0°♍		
max. Earth dist.	-2360 Sep 12 j 03:17	1°♍34'10	6.37810 AU	
conjunction	-2360 Sep 13 j 23:51	1°♍58'51	1°18'18	
minimum elong	-2360 Sep 13 j 23:51	1°♍58'51	1°18'19	
morning rise	-2360 Sep 26 j 13:54	4°♍45'51		
retrograde	-2359 Jan 26 j 00:46	22°♍01'52		
opposition	-2359 Mar 27 j 20:09	17°♍10'18	1°47'33	
min. Earth dist.	-2359 Mar 29 j 05:20	16°♍59'44	4.34194 AU	
direct	-2359 May 29 j 07:49	12°♍10'40		
	-2359 Oct 01 j 08:39	0°♎		
evening set	-2359 Oct 02 j 08:22	0°♎13'18		
max. Earth dist.	-2359 Oct 13 j 02:58	2°♎39'11	6.29267 AU	
conjunction	-2359 Oct 14 j 22:05	3°♎03'36	1°03'15	
minimum elong	-2359 Oct 14 j 22:08	3°♎03'37	1°03'14	
morning rise	-2359 Oct 27 j 10:35	5°♎53'31		
retrograde	-2358 Feb 28 j 08:53	23°♎51'41		
opposition	-2358 Apr 30 j 09:53	18°♎58'56	1°10'38	
min. Earth dist.	-2358 May 01 j 13:08	18°♎50'15	4.23682 AU	
direct	-2358 Jun 30 j 23:24	14°♎02'11		
	-2358 Oct 23 j 09:38	0°♏		
evening set	-2358 Nov 03 j 04:24	2°♏27'41		
conjunction	-2358 Nov 15 j 19:30	5°♏23'20	0°28'29	
minimum elong	-2358 Nov 15 j 19:32	5°♏23'22	0°28'26	
max. Earth dist.	-2358 Nov 14 j 14:04	5°♏06'14	6.17725 AU	
morning rise	-2358 Nov 28 j 11:10	8°♏19'31		
	-2358 Dec 28 j 07:33	15°♏		
retrograde	-2357 Apr 04 j 19:28	27°♏15'02		
opposition	-2357 Jun 04 j 17:12	22°♏19'32	0°08'52	
min. Earth dist.	-2357 Jun 05 j 06:44	22°♏15'09	4.11852 AU	
desc. node	-2357 Jul 26 j 00:16	17°♏33'09		
direct	-2357 Aug 04 j 00:08	17°♏25'17		
	-2357 Nov 08 j 23:51	0°♐		
evening set	-2357 Dec 06 j 13:12	6°♐18'12		
conjunction	-2357 Dec 19 j 09:07	9°♐20'39	-0°17'04	
minimum elong	-2357 Dec 19 j 09:06	9°♐20'38	0°17'07	
max. Earth dist.	-2357 Dec 19 j 03:43	9°♐17'27	6.06723 AU	
morning rise	-2356 Jan 01 j 07:09	12°♐24'24		
	-2356 Apr 02 j 05:10	0°♑		
retrograde	-2356 May 10 j 18:34	2°♑16'10		
	-2356 Jun 18 j 11:28	30°℞♐		
opposition	-2356 Jul 10 j 09:19	27°♐16'51	-0°59'12	
min. Earth dist.	-2356 Jul 10 j 02:20	27°♐19'09	4.02688 AU	
direct	-2356 Sep 07 j 07:00	22°♐23'46		
	-2356 Nov 17 j 19:21	0°♑		
evening set	-2355 Jan 09 j 19:16	11°♑39'54		
conjunction	-2355 Jan 22 j 21:44	14°♑48'05	-0°57'46	
minimum elong	-2355 Jan 22 j 21:41	14°♑48'03	0°57'50	
max. Earth dist.	-2355 Jan 23 j 20:14	15°♑01'34	6.00191 AU	

Attention, astronomical year style is used: The year -2355 in astronomical counting style is the year 2356 BCE in historical counting style.

morning rise	-2355 Feb 05 j 03:27	17°♑58'01	
	-2355 Mar 31 j 22:10	0°♒	
retrograde	-2355 Jun 17 j 08:17	8°♒21'40	
min. Earth dist.	-2355 Aug 15 j 11:39	3°♒26'36	3.99620 AU
opposition	-2355 Aug 16 j 11:30	3°♒18'34	-1°46'44
	-2355 Sep 12 j 15:03	30°℞♑	
direct	-2355 Oct 13 j 14:02	28°♑24'25	
	-2355 Nov 13 j 09:39	0°♒	
	-2354 Feb 03 j 12:49	15°♒	
evening set	-2354 Feb 15 j 12:44	17°♒48'51	
conjunction	-2354 Feb 28 j 22:52	21°♒00'04	-1°17'05
minimum elong	-2354 Feb 28 j 22:52	21°♒00'04	1°17'08
max. Earth dist.	-2354 Mar 02 j 20:08	21°♒26'58	6.00750 AU
morning rise	-2354 Mar 14 j 11:58	24°♒12'47	
	-2354 Apr 08 j 15:45	0°♓	
retrograde	-2354 Jul 24 j 02:04	14°♓26'00	
min. Earth dist.	-2354 Sep 20 j 11:31	9°♓31'25	4.03866 AU
opposition	-2354 Sep 21 j 18:33	9°♓20'51	-1°53'02
direct	-2354 Nov 18 j 19:56	4°♓23'56	
evening set	-2353 Mar 24 j 15:52	23°♓36'51	
conjunction	-2353 Apr 07 j 08:14	26°♓47'29	-1°07'06
minimum elong	-2353 Apr 07 j 08:17	26°♓47'31	1°07'07
max. Earth dist.	-2353 Apr 09 j 08:25	27°♓15'30	6.08195 AU
morning rise	-2353 Apr 21 j 02:38	29°♓58'55	
	-2353 Apr 21 j 04:31	0°♈	
retrograde	-2353 Aug 27 j 21:35	19°♈24'06	
min. Earth dist.	-2353 Oct 25 j 06:40	14°♈29'00	4.13659 AU
opposition	-2353 Oct 26 j 10:16	14°♈19'35	-1°17'41
direct	-2353 Dec 24 j 06:13	9°♈19'27	
evening set	-2352 Apr 28 j 23:23	28°♈06'52	
	-2352 May 07 j 08:02	0°♉	
conjunction	-2352 May 12 j 17:59	1°♉13'31	-0°33'32
minimum elong	-2352 May 12 j 18:02	1°♉13'33	0°33'29
max. Earth dist.	-2352 May 14 j 04:50	1°♉33'14	6.19564 AU
morning rise	-2352 May 26 j 12:18	4°♉19'49	
	-2352 Jul 16 j 17:19	15°♉	
retrograde	-2352 Sep 28 j 19:42	22°♉43'19	
opposition	-2352 Nov 27 j 07:52	17°♉41'51	-0°18'02
min. Earth dist.	-2352 Nov 26 j 17:21	17°♉46'44	4.25405 AU
	-2352 Dec 18 j 12:28	15°℞♉	
direct	-2351 Jan 26 j 10:31	12°♉39'22	
	-2351 Mar 06 j 18:41	15°♉	
asc. node	-2351 Mar 18 j 14:02	16°♉29'28	
	-2351 May 29 j 06:46	0°♊	
evening set	-2351 Jun 02 j 18:05	0°♊58'45	
conjunction	-2351 Jun 16 j 08:58	3°♊59'06	0°09'51
minimum elong	-2351 Jun 16 j 08:57	3°♊59'06	0°09'54
behind sun begin	-2351 Jun 16 j 02:18	3°♊55'26	
behind sun end	-2351 Jun 16 j 15:36	4°♊02'45	
max. Earth dist.	-2351 Jun 16 j 18:50	4°♊04'33	6.30824 AU
morning rise	-2351 Jun 29 j 21:48	6°♊58'16	
retrograde	-2351 Oct 30 j 03:34	24°♊29'48	
opposition	-2351 Dec 28 j 21:55	19°♊32'15	0°44'12
min. Earth dist.	-2351 Dec 28 j 23:21	19°♊31'47	4.35278 AU
direct	-2350 Feb 28 j 06:35	14°♊28'43	
	-2350 Jun 24 j 11:14	0°♋	
evening set	-2350 Jul 05 j 21:00	2°♋27'04	
conjunction	-2350 Jul 19 j 03:57	5°♋20'58	0°48'53
minimum elong	-2350 Jul 19 j 03:54	5°♋20'56	0°48'56
max. Earth dist.	-2350 Jul 18 j 12:49	5°♋12'41	6.38560 AU
morning rise	-2350 Aug 01 j 07:42	8°♋13'15	
retrograde	-2350 Nov 29 j 20:08	25°♋15'12	
opposition	-2349 Jan 28 j 22:48	20°♋21'11	1°31'50
min. Earth dist.	-2349 Jan 29 j 16:17	20°♋15'30	4.40475 AU
direct	-2349 Apr 01 j 06:22	15°♋18'04	
	-2349 Jul 23 j 03:29	0°♌	
evening set	-2349 Aug 06 j 15:45	3°♌06'34	
max. Earth dist.	-2349 Aug 18 j 02:10	5°♌36'23	6.40725 AU
conjunction	-2349 Aug 19 j 13:49	5°♌55'54	1°13'26
minimum elong	-2349 Aug 19 j 13:47	5°♌55'53	1°13'29
morning rise	-2349 Sep 01 j 08:55	8°♌43'47	
	-2349 Oct 01 j 03:36	15°♌	
retrograde	-2349 Dec 30 j 17:31	25°♌42'25	
opposition	-2348 Feb 29 j 05:48	20°♌50'29	1°53'45
min. Earth dist.	-2348 Mar 01 j 10:42	20°♌41'14	4.39641 AU
direct	-2348 May 01 j 22:14	15°♌48'53	
	-2348 Aug 19 j 18:48	0°♍	
evening set	-2348 Sep 05 j 16:59	3°♍39'53	
max. Earth dist.	-2348 Sep 16 j 13:27	6°♍03'59	6.36866 AU
conjunction	-2348 Sep 18 j 08:52	6°♍28'05	1°17'30
minimum elong	-2348 Sep 18 j 08:53	6°♍28'06	1°17'31
morning rise	-2348 Sep 30 j 22:17	9°♍15'15	
retrograde	-2347 Jan 30 j 14:50	26°♍35'53	
opposition	-2347 Apr 01 j 12:03	21°♍44'19	1°44'11
min. Earth dist.	-2347 Apr 02 j 19:57	21°♍34'10	4.33023 AU
direct	-2347 Jun 02 j 20:40	16°♍45'11	
	-2347 Sep 14 j 19:40	0°♎	
evening set	-2347 Oct 06 j 19:22	4°♎50'07	
max. Earth dist.	-2347 Oct 17 j 15:09	7°♎17'11	6.27979 AU
conjunction	-2347 Oct 19 j 08:52	7°♎40'53	0°59'23
minimum elong	-2347 Oct 19 j 08:55	7°♎40'55	0°59'23
morning rise	-2347 Oct 31 j 21:37	10°♎31'26	
retrograde	-2346 Mar 05 j 06:54	28°♎36'05	
opposition	-2346 May 05 j 07:07	23°♎43'04	1°03'07
min. Earth dist.	-2346 May 06 j 09:19	23°♎34'42	4.22339 AU
direct	-2346 Jul 05 j 17:45	18°♎46'43	
	-2346 Oct 06 j 02:59	0°♏	
evening set	-2346 Nov 07 j 18:24	7°♏14'39	
max. Earth dist.	-2346 Nov 19 j 07:55	9°♏55'50	6.16461 AU
conjunction	-2346 Nov 20 j 10:02	10°♏11'03	0°22'27
minimum elong	-2346 Nov 20 j 10:04	10°♏11'04	0°22'25
morning rise	-2346 Dec 03 j 02:20	13°♏08'04	
	-2346 Dec 11 j 04:47	15°♏	
	-2345 Mar 02 j 22:01	0°♐	
retrograde	-2345 Apr 09 j 19:45	2°♐10'19	
	-2345 May 18 j 00:36	30°℞♏	
desc. node	-2345 Jun 05 j 05:03	27°♏49'35	
opposition	-2345 Jun 09 j 18:22	27°♏14'20	-0°00'47
min. Earth dist.	-2345 Jun 10 j 04:37	27°♏11'01	4.10770 AU
direct	-2345 Aug 08 j 20:08	22°♏20'23	
	-2345 Oct 20 j 16:29	0°♐	
evening set	-2345 Dec 11 j 08:04	11°♐15'22	
conjunction	-2345 Dec 24 j 04:38	14°♐18'27	-0°23'23
minimum elong	-2345 Dec 24 j 04:36	14°♐18'26	0°23'26
max. Earth dist.	-2345 Dec 24 j 02:32	14°♐17'13	6.05908 AU
morning rise	-2344 Jan 06 j 03:35	17°♐22'57	
	-2344 Mar 04 j 16:44	0°♑	
retrograde	-2344 May 15 j 22:10	7°♑19'25	
opposition	-2344 Jul 15 j 11:52	2°♑19'32	-1°07'32
min. Earth dist.	-2344 Jul 15 j 02:46	2°♑22'32	4.02219 AU
	-2344 Aug 02 j 21:25	30°℞♐	
direct	-2344 Sep 12 j 07:34	27°♐26'22	
	-2344 Oct 22 j 00:50	0°♑	
evening set	-2343 Jan 14 j 18:30	16°♑43'26	

Attention, astronomical year style is used: The year -2343 in astronomical counting style is the year 2344 BCE in historical counting style.

conjunction	-2343 Jan 27 j 22:03	19°♑52'05	-1°01'59
minimum elong	-2343 Jan 27 j 22:00	19°♑52'03	1°02'01
max. Earth dist.	-2343 Jan 29 j 00:46	20°♑08'05	6.00106 AU
morning rise	-2343 Feb 10 j 04:40	23°♑02'27	
	-2343 Mar 12 j 10:10	0°♒	
retrograde	-2343 Jun 22 j 11:04	13°♒26'18	
min. Earth dist.	-2343 Aug 20 j 11:22	8°♒31'11	3.99953 AU
opposition	-2343 Aug 21 j 12:08	8°♒22'51	-1°50'14
direct	-2343 Oct 18 j 13:14	3°♒28'24	
	-2342 Jan 17 j 00:26	15°♒	
evening set	-2342 Feb 20 j 14:23	22°♒51'58	
conjunction	-2342 Mar 06 j 01:19	26°♒03'15	-1°17'26
minimum elong	-2342 Mar 06 j 01:19	26°♒03'16	1°17'28
max. Earth dist.	-2342 Mar 07 j 22:04	26°♒29'48	6.01439 AU
morning rise	-2342 Mar 19 j 15:29	29°♒16'04	
	-2342 Mar 22 j 18:22	0°♓	
retrograde	-2342 Jul 28 j 21:51	19°♓24'42	
min. Earth dist.	-2342 Sep 25 j 07:09	14°♓30'11	4.04844 AU
opposition	-2342 Sep 26 j 14:33	14°♓19'29	-1°50'24
direct	-2342 Nov 23 j 17:05	9°♓22'06	
evening set	-2341 Mar 29 j 16:38	28°♓32'45	
	-2341 Apr 04 j 23:44	0°♈	
conjunction	-2341 Apr 12 j 09:45	1°♈43'10	-1°03'38
minimum elong	-2341 Apr 12 j 09:49	1°♈43'12	1°03'38
max. Earth dist.	-2341 Apr 14 j 08:58	2°♈10'31	6.09398 AU
morning rise	-2341 Apr 26 j 04:24	4°♈54'10	
retrograde	-2341 Sep 01 j 14:24	24°♈12'10	
min. Earth dist.	-2341 Oct 29 j 23:51	19°♈16'38	4.14951 AU
opposition	-2341 Oct 31 j 01:10	19°♈08'00	-1°10'27
direct	-2341 Dec 29 j 01:19	14°♈07'29	
	-2340 Apr 20 j 22:57	0°♉	
evening set	-2340 May 03 j 21:01	2°♉52'09	
conjunction	-2340 May 17 j 15:31	5°♉58'13	-0°27'48
minimum elong	-2340 May 17 j 15:33	5°♉58'14	0°27'46
max. Earth dist.	-2340 May 18 j 23:19	6°♉16'08	6.20859 AU
morning rise	-2340 May 31 j 09:32	9°♉03'49	
	-2340 Jun 27 j 16:42	15°♉	
retrograde	-2340 Oct 03 j 05:34	27°♉20'26	
opposition	-2340 Dec 01 j 18:37	22°♉19'27	-0°09'07
min. Earth dist.	-2340 Dec 01 j 05:23	22°♉23'54	4.26605 AU
asc. node	-2339 Jan 26 j 23:38	17°♉18'18	
direct	-2339 Jan 31 j 00:11	17°♉16'43	
	-2339 May 12 j 10:21	0°♊	
evening set	-2339 Jun 07 j 11:18	5°♊33'51	
conjunction	-2339 Jun 21 j 01:20	8°♊33'26	0°15'48
minimum elong	-2339 Jun 21 j 01:18	8°♊33'25	0°15'52
max. Earth dist.	-2339 Jun 21 j 07:48	8°♊37'00	6.31858 AU
morning rise	-2339 Jul 04 j 13:06	11°♊31'44	
retrograde	-2339 Nov 03 j 12:49	28°♊58'36	
opposition	-2338 Jan 02 j 06:54	24°♊01'34	0°52'03
min. Earth dist.	-2338 Jan 02 j 10:54	24°♊00'15	4.36079 AU
direct	-2338 Mar 04 j 19:35	18°♊58'01	
	-2338 Jun 07 j 06:34	0°♋	
evening set	-2338 Jul 10 j 09:55	6°♋54'54	
conjunction	-2338 Jul 23 j 15:38	9°♋48'04	0°53'22
minimum elong	-2338 Jul 23 j 15:35	9°♋48'03	0°53'25
max. Earth dist.	-2338 Jul 22 j 21:13	9°♋38'00	6.39053 AU
morning rise	-2338 Aug 05 j 18:11	12°♋39'39	
retrograde	-2338 Dec 04 j 03:40	29°♋39'51	
opposition	-2337 Feb 02 j 07:50	24°♋46'07	1°36'37
min. Earth dist.	-2337 Feb 03 j 02:39	24°♋40'01	4.40658 AU
direct	-2337 Apr 05 j 16:48	19°♋43'04	
	-2337 Jul 05 j 20:03	0°♌	
evening set	-2337 Aug 11 j 01:31	7°♌31'13	
max. Earth dist.	-2337 Aug 22 j 10:45	10°♌00'30	6.40567 AU
conjunction	-2337 Aug 23 j 22:36	10°♌20'10	1°15'18
minimum elong	-2337 Aug 23 j 22:34	10°♌20'09	1°15'20
morning rise	-2337 Sep 05 j 16:32	13°♌07'39	
	-2337 Sep 14 j 08:05	15°♌	
	-2337 Dec 26 j 04:59	0°♍	
retrograde	-2336 Jan 04 j 02:58	0°♍07'30	
	-2336 Jan 13 j 00:51	30°℞♌	
opposition	-2336 Mar 04 j 16:52	25°♌15'41	1°54'20
min. Earth dist.	-2336 Mar 05 j 22:26	25°♌06'14	4.39142 AU
direct	-2336 May 06 j 09:17	20°♌14'21	
	-2336 Aug 02 j 08:20	0°♍	
evening set	-2336 Sep 10 j 01:23	8°♍06'08	
max. Earth dist.	-2336 Sep 20 j 19:31	10°♍29'19	6.36023 AU
conjunction	-2336 Sep 22 j 16:31	10°♍54'23	1°16'15
minimum elong	-2336 Sep 22 j 16:32	10°♍54'23	1°16'16
morning rise	-2336 Oct 05 j 05:42	13°♍41'45	
	-2335 Jan 08 j 07:18	0°♎	
retrograde	-2335 Feb 04 j 05:43	1°♎06'45	
	-2335 Mar 03 j 05:59	30°℞♍	
opposition	-2335 Apr 06 j 03:16	26°♍15'00	1°40'11
min. Earth dist.	-2335 Apr 07 j 11:17	26°♍04'49	4.31860 AU
direct	-2335 Jun 07 j 10:01	21°♍16'09	
	-2335 Aug 27 j 19:26	0°♎	
evening set	-2335 Oct 11 j 04:46	9°♎23'18	
max. Earth dist.	-2335 Oct 22 j 02:56	11°♎52'08	6.26585 AU
conjunction	-2335 Oct 23 j 18:29	12°♎14'40	0°55'10
minimum elong	-2335 Oct 23 j 18:32	12°♎14'42	0°55'09
morning rise	-2335 Nov 05 j 07:20	15°♎05'53	
	-2334 Jan 21 j 20:18	0°♏	
retrograde	-2334 Mar 10 j 02:17	3°♏17'31	
	-2334 Apr 27 j 09:14	30°℞♎	
opposition	-2334 May 10 j 03:17	28°♎24'10	0°55'12
min. Earth dist.	-2334 May 11 j 03:37	28°♎16'23	4.20793 AU
direct	-2334 Jul 10 j 09:26	23°♎28'12	
	-2334 Sep 16 j 06:50	0°♏	
evening set	-2334 Nov 12 j 08:11	11°♏59'34	
max. Earth dist.	-2334 Nov 23 j 23:49	14°♏42'35	6.14892 AU
conjunction	-2334 Nov 25 j 00:12	14°♏56'50	0°16'16
minimum elong	-2334 Nov 25 j 00:13	14°♏56'50	0°16'15
behind sun begin	-2334 Nov 24 j 23:34	14°♏56'28	
behind sun end	-2334 Nov 25 j 00:52	14°♏57'13	
	-2334 Nov 25 j 05:38	15°♏	
morning rise	-2334 Dec 07 j 17:21	17°♏54'52	
	-2333 Feb 02 j 16:06	0°♐	
retrograde	-2333 Apr 14 j 21:54	7°♐05'15	
desc. node	-2333 Apr 15 j 07:14	7°♐05'15	
opposition	-2333 Jun 14 j 19:31	2°♐08'44	-0°10'31
min. Earth dist.	-2333 Jun 15 j 03:34	2°♐06'08	4.09289 AU
	-2333 Jul 01 j 23:04	30°℞♏	
direct	-2333 Aug 13 j 17:20	27°♏14'58	
	-2333 Sep 24 j 13:57	0°♐	
evening set	-2333 Dec 16 j 03:48	16°♐13'48	
conjunction	-2333 Dec 29 j 01:24	19°♐17'51	-0°29'36
minimum elong	-2333 Dec 29 j 01:21	19°♐17'50	0°29'40
max. Earth dist.	-2333 Dec 29 j 03:52	19°♐19'19	6.04658 AU
morning rise	-2332 Jan 11 j 01:18	22°♐23'21	
	-2332 Feb 13 j 10:33	0°♑	
retrograde	-2332 May 21 j 05:13	12°♑26'10	
opposition	-2332 Jul 20 j 16:02	7°♑25'48	-1°15'32

Attention, astronomical year style is used: The year -2332 in astronomical counting style is the year 2333 BCE in historical counting style.

min. Earth dist.	-2332 Jul 20 j 04:54	7°♑29'29	4.01344 AU
direct	-2332 Sep 17 j 07:54	2°♑32'37	
evening set	-2331 Jan 19 j 20:33	21°♑52'22	
conjunction	-2331 Feb 02 j 00:58	25°♑01'38	-1°05'48
minimum elong	-2331 Feb 02 j 00:55	25°♑01'37	1°05'51
max. Earth dist.	-2331 Feb 03 j 05:30	25°♑18'44	5.99654 AU
morning rise	-2331 Feb 15 j 08:52	28°♑12'43	
	-2331 Feb 22 j 22:24	0°♒	
	-2331 May 09 j 16:24	15°♒	
retrograde	-2331 Jun 27 j 15:01	18°♒38'03	
	-2331 Aug 15 j 22:04	15°℞♒	
opposition	-2331 Aug 26 j 15:29	13°♒34'13	-1°53'00
min. Earth dist.	-2331 Aug 25 j 12:33	13°♒43'19	3.99999 AU
direct	-2331 Oct 23 j 14:31	8°♒39'28	
	-2331 Dec 26 j 21:57	15°♒	
evening set	-2330 Feb 25 j 19:54	28°♒03'23	
	-2330 Mar 06 j 01:29	0°♓	
conjunction	-2330 Mar 11 j 08:01	1°♓14'55	-1°17'13
minimum elong	-2330 Mar 11 j 08:02	1°♓14'56	1°17'14
max. Earth dist.	-2330 Mar 13 j 07:11	1°♓42'50	6.01982 AU
morning rise	-2330 Mar 24 j 22:56	4°♓27'50	
retrograde	-2330 Aug 02 j 23:53	24°♓32'04	
min. Earth dist.	-2330 Sep 30 j 07:30	19°♓37'19	4.05824 AU
opposition	-2330 Oct 01 j 14:02	19°♓26'54	-1°46'51
direct	-2330 Nov 28 j 19:11	14°♓29'08	
	-2329 Mar 18 j 22:16	0°♈	
evening set	-2329 Apr 03 j 21:30	3°♈37'28	
conjunction	-2329 Apr 17 j 15:10	6°♈47'33	-0°59'35
minimum elong	-2329 Apr 17 j 15:13	6°♈47'35	0°59'34
max. Earth dist.	-2329 Apr 19 j 13:59	7°♈14'35	6.10754 AU
morning rise	-2329 May 01 j 10:11	9°♈58'06	
retrograde	-2329 Sep 06 j 07:51	29°♈07'57	
opposition	-2329 Nov 04 j 19:05	24°♈04'11	-1°02'32
min. Earth dist.	-2329 Nov 03 j 17:47	24°♈12'48	4.16569 AU
direct	-2328 Jan 02 j 21:53	19°♈03'23	
	-2328 Apr 02 j 21:08	0°♉	
evening set	-2328 May 08 j 21:19	7°♉43'57	
conjunction	-2328 May 22 j 15:25	10°♉49'07	-0°21'45
minimum elong	-2328 May 22 j 15:27	10°♉49'08	0°21'43
max. Earth dist.	-2328 May 23 j 20:05	11°♉05'14	6.22650 AU
morning rise	-2328 Jun 05 j 08:52	13°♉53'41	
	-2328 Jun 10 j 08:20	15°♉	
	-2328 Sep 01 j 19:36	0°♊	
retrograde	-2328 Oct 07 j 18:29	2°♊01'41	
	-2328 Nov 12 j 11:03	30°℞♉	
opposition	-2328 Dec 06 j 07:21	27°♉01'14	-0°00'04
min. Earth dist.	-2328 Dec 05 j 20:42	27°♉04'49	4.28412 AU
asc. node	-2328 Dec 06 j 16:17	26°♉58'14	
direct	-2327 Feb 04 j 18:33	21°♉58'22	
	-2327 Apr 23 j 06:35	0°♊	
evening set	-2327 Jun 12 j 04:59	10°♊10'51	
conjunction	-2327 Jun 25 j 18:01	13°♊09'18	0°21'40
minimum elong	-2327 Jun 25 j 17:59	13°♊09'17	0°21'43
max. Earth dist.	-2327 Jun 25 j 22:13	13°♊11'36	6.33554 AU
morning rise	-2327 Jul 09 j 04:27	16°♊06'21	
	-2327 Sep 21 j 00:20	0°♋	
retrograde	-2327 Nov 07 j 18:30	3°♋26'27	
	-2327 Dec 26 j 01:13	30°℞♊	
opposition	-2326 Jan 06 j 15:22	28°♊29'55	0°59'28
min. Earth dist.	-2326 Jan 06 j 20:33	28°♊28'12	4.37558 AU
direct	-2326 Mar 09 j 06:54	23°♊26'22	
	-2326 May 18 j 12:51	0°♋	
evening set	-2326 Jul 14 j 21:05	11°♋19'27	
max. Earth dist.	-2326 Jul 27 j 04:07	13°♋59'59	6.40194 AU
conjunction	-2326 Jul 28 j 01:23	14°♋11'35	0°57'26
minimum elong	-2326 Jul 28 j 01:20	14°♋11'33	0°57'29
morning rise	-2326 Aug 10 j 02:31	17°♋02'08	
	-2326 Oct 17 j 10:01	0°♌	
retrograde	-2326 Dec 08 j 09:26	3°♌58'50	
	-2325 Jan 30 j 12:49	30°℞♋	
opposition	-2325 Feb 06 j 14:41	29°♋05'29	1°40'40
min. Earth dist.	-2325 Feb 07 j 12:05	28°♋58'34	4.41384 AU
direct	-2325 Apr 10 j 03:05	24°♋02'36	
	-2325 Jun 16 j 00:43	0°♌	
evening set	-2325 Aug 15 j 07:35	11°♌48'34	
max. Earth dist.	-2325 Aug 26 j 12:38	14°♌15'38	6.40791 AU
conjunction	-2325 Aug 28 j 03:33	14°♌36'58	1°16'39
minimum elong	-2325 Aug 28 j 03:32	14°♌36'57	1°16'41
	-2325 Aug 29 j 21:33	15°♌	
morning rise	-2325 Sep 09 j 20:35	17°♌23'59	
	-2325 Nov 14 j 07:04	0°♍	
retrograde	-2324 Jan 08 j 08:55	4°♍24'20	
	-2324 Mar 05 j 10:35	30°℞♌	
opposition	-2324 Mar 09 j 00:36	29°♌32'34	1°54'11
min. Earth dist.	-2324 Mar 10 j 07:14	29°♌22'47	4.38849 AU
direct	-2324 May 10 j 16:44	24°♌31'27	
	-2324 Jul 13 j 07:21	0°♍	
evening set	-2324 Sep 14 j 05:33	12°♍23'31	
max. Earth dist.	-2324 Sep 24 j 23:34	14°♍46'54	6.35230 AU
conjunction	-2324 Sep 26 j 20:18	15°♍11'52	1°14'36
minimum elong	-2324 Sep 26 j 20:20	15°♍11'53	1°14'37
morning rise	-2324 Oct 09 j 08:58	17°♍59'23	
	-2324 Dec 08 j 13:08	0°♎	
retrograde	-2323 Feb 08 j 15:58	5°♎28'54	
opposition	-2323 Apr 10 j 14:30	0°♎37'03	1°35'44
min. Earth dist.	-2323 Apr 11 j 23:00	0°♎26'44	4.30588 AU
	-2323 Apr 15 j 11:20	30°℞♍	
direct	-2323 Jun 11 j 19:09	25°♍38'33	
	-2323 Aug 06 j 05:41	0°♎	
evening set	-2323 Oct 15 j 10:54	13°♎48'35	
max. Earth dist.	-2323 Oct 26 j 08:01	16°♎17'27	6.24933 AU
conjunction	-2323 Oct 28 j 00:35	16°♎40'39	0°50'47
minimum elong	-2323 Oct 28 j 00:38	16°♎40'41	0°50'45
morning rise	-2323 Nov 09 j 13:58	19°♎32'45	
	-2323 Dec 29 j 01:08	0°♏	
retrograde	-2322 Mar 14 j 19:52	7°♏52'37	
opposition	-2322 May 14 j 20:32	2°♏58'53	0°47'12
min. Earth dist.	-2322 May 15 j 19:44	2°♏51'27	4.18846 AU
	-2322 Jun 08 j 21:46	30°℞♎	
direct	-2322 Jul 14 j 22:35	28°♎03'10	
	-2322 Aug 19 j 13:30	0°♏	
	-2322 Nov 09 j 15:25	15°♏	
evening set	-2322 Nov 16 j 19:36	16°♏39'42	
conjunction	-2322 Nov 29 j 12:29	19°♏38'10	0°10'10
minimum elong	-2322 Nov 29 j 12:30	19°♏38'10	0°10'08
behind sun begin	-2322 Nov 29 j 06:01	19°♏34'23	
behind sun end	-2322 Nov 29 j 18:58	19°♏41'57	
max. Earth dist.	-2322 Nov 28 j 15:29	19°♏25'50	6.12839 AU
morning rise	-2322 Dec 12 j 06:24	22°♏37'27	
	-2321 Jan 14 j 01:52	0°♐	
desc. node	-2321 Feb 24 j 23:35	7°♐41'46	
retrograde	-2321 Apr 20 j 00:08	11°♐57'54	
opposition	-2321 Jun 19 j 19:27	7°♐00'57	-0°20'00
min. Earth dist.	-2321 Jun 20 j 01:42	6°♐58'55	4.07303 AU

Attention, astronomical year style is used: The year -2321 in astronomical counting style is the year 2322 BCE in historical counting style.

direct	-2321 Aug 18 j 12:23	2°♐07'22	
evening set	-2321 Dec 20 j 23:44	21°♐12'08	
conjunction	-2320 Jan 02 j 22:10	24°♐17'22	-0°35'30
minimum elong	-2320 Jan 02 j 22:08	24°♐17'20	0°35'33
max. Earth dist.	-2320 Jan 03 j 02:48	24°♐20'08	6.02914 AU
morning rise	-2320 Jan 15 j 23:25	27°♐24'11	
	-2320 Jan 27 j 00:10	0°♑	
retrograde	-2320 May 26 j 10:46	17°♑35'08	
opposition	-2320 Jul 25 j 20:23	12°♑34'11	-1°22'53
min. Earth dist.	-2320 Jul 25 j 05:50	12°♑39'01	4.00043 AU
direct	-2320 Sep 22 j 07:34	7°♑40'53	
evening set	-2319 Jan 25 j 00:21	27°♑05'00	
	-2319 Feb 06 j 04:52	0°♒	
conjunction	-2319 Feb 07 j 06:08	0°♒15'09	-1°09'04
minimum elong	-2319 Feb 07 j 06:05	0°♒15'08	1°09'07
max. Earth dist.	-2319 Feb 08 j 15:38	0°♒35'15	5.98921 AU
morning rise	-2319 Feb 20 j 15:04	3°♒27'02	
	-2319 Apr 13 j 20:56	15°♒	
retrograde	-2319 Jul 02 j 22:56	23°♒54'19	
opposition	-2319 Aug 31 j 20:21	18°♒50'05	-1°54'48
min. Earth dist.	-2319 Aug 30 j 16:30	18°♒59'31	3.99924 AU
	-2319 Oct 03 j 12:48	15°℞♒	
direct	-2319 Oct 28 j 19:24	13°♒54'57	
	-2319 Nov 23 j 01:42	15°♒	
	-2318 Feb 16 j 20:55	0°♓	
evening set	-2318 Mar 03 j 03:41	3°♓19'17	
conjunction	-2318 Mar 16 j 16:50	6°♓31'02	-1°16'18
minimum elong	-2318 Mar 16 j 16:51	6°♓31'03	1°16'19
max. Earth dist.	-2318 Mar 18 j 18:15	7°♓00'12	6.02551 AU
morning rise	-2318 Mar 30 j 08:45	9°♓44'04	
retrograde	-2318 Aug 08 j 00:57	29°♓42'54	
min. Earth dist.	-2318 Oct 05 j 06:53	24°♓48'30	4.06963 AU
opposition	-2318 Oct 06 j 14:40	24°♓37'39	-1°42'22
direct	-2318 Dec 03 j 20:59	19°♓39'23	
	-2317 Feb 28 j 04:47	0°♈	
evening set	-2317 Apr 09 j 03:40	8°♈44'23	
conjunction	-2317 Apr 22 j 21:40	11°♈53'55	-0°55'01
minimum elong	-2317 Apr 22 j 21:43	11°♈53'57	0°54'59
max. Earth dist.	-2317 Apr 24 j 18:37	12°♈19'47	6.12335 AU
morning rise	-2317 May 06 j 16:51	15°♈03'47	
	-2317 Jul 21 j 05:38	0°♉	
retrograde	-2317 Sep 11 j 02:27	4°♉04'22	
	-2317 Nov 02 j 06:17	30°℞♈	
opposition	-2317 Nov 09 j 13:26	29°♈00'51	-0°54'05
min. Earth dist.	-2317 Nov 08 j 14:14	29°♈08'44	4.18369 AU
direct	-2316 Jan 07 j 21:32	23°♈59'35	
	-2316 Mar 12 j 12:08	0°♉	
evening set	-2316 May 13 j 21:45	12°♉35'17	
	-2316 May 24 j 17:00	15°♉	
conjunction	-2316 May 27 j 15:33	15°♉39'29	-0°15'31
minimum elong	-2316 May 27 j 15:34	15°♉39'30	0°15'28
behind sun begin	-2316 May 27 j 13:59	15°♉38'37	
behind sun end	-2316 May 27 j 17:09	15°♉40'23	
max. Earth dist.	-2316 May 28 j 18:30	15°♉54'34	6.24509 AU
morning rise	-2316 Jun 10 j 08:07	18°♉42'54	
	-2316 Aug 04 j 17:03	0°♊	
retrograde	-2316 Oct 12 j 05:04	6°♊42'06	
asc. node	-2316 Oct 15 j 09:19	6°♊41'06	
opposition	-2316 Dec 10 j 19:54	1°♊42'11	0°09'05
min. Earth dist.	-2316 Dec 10 j 10:37	1°♊45'17	4.30145 AU
	-2316 Dec 23 j 19:57	30°℞♉	
direct	-2315 Feb 09 j 10:38	26°♉39'07	
	-2315 Mar 29 j 11:02	0°♊	
evening set	-2315 Jun 16 j 22:49	14°♊47'27	
conjunction	-2315 Jun 30 j 10:34	17°♊44'48	0°27'29
minimum elong	-2315 Jun 30 j 10:32	17°♊44'47	0°27'33
max. Earth dist.	-2315 Jun 30 j 09:45	17°♊44'21	6.35009 AU
morning rise	-2315 Jul 13 j 19:51	20°♊40'45	
	-2315 Aug 28 j 09:51	0°♋	
retrograde	-2315 Nov 12 j 03:50	7°♋55'21	
opposition	-2314 Jan 11 j 01:04	2°♋59'20	1°06'42
min. Earth dist.	-2314 Jan 11 j 09:41	2°♋56'30	4.38635 AU
	-2314 Feb 04 j 12:00	30°℞♊	
direct	-2314 Mar 13 j 21:31	27°♊55'47	
	-2314 Apr 20 j 16:10	0°♋	
evening set	-2314 Jul 19 j 09:13	15°♋46'32	
conjunction	-2314 Aug 01 j 12:21	18°♋37'55	1°01'18
minimum elong	-2314 Aug 01 j 12:19	18°♋37'54	1°01'22
max. Earth dist.	-2314 Jul 31 j 12:30	18°♋24'54	6.40791 AU
morning rise	-2314 Aug 14 j 12:07	21°♋27'41	
	-2314 Sep 25 j 04:27	0°♌	
retrograde	-2314 Dec 12 j 16:14	8°♌22'59	
opposition	-2313 Feb 11 j 00:05	3°♌29'57	1°44'23
min. Earth dist.	-2313 Feb 11 j 22:33	3°♌22'42	4.41498 AU
	-2313 Mar 13 j 02:56	30°℞♋	
direct	-2313 Apr 14 j 13:06	28°♋27'16	
	-2313 May 17 j 06:14	0°♌	
	-2313 Aug 14 j 01:44	15°♌	
evening set	-2313 Aug 19 j 16:50	16°♌13'13	
max. Earth dist.	-2313 Aug 30 j 19:17	18°♌39'05	6.40401 AU
conjunction	-2313 Sep 01 j 11:47	19°♌01'21	1°17'42
minimum elong	-2313 Sep 01 j 11:46	19°♌01'20	1°17'44
morning rise	-2313 Sep 14 j 03:55	21°♌48'10	
	-2313 Oct 23 j 16:43	0°♍	
retrograde	-2312 Jan 12 j 20:43	8°♍51'09	
opposition	-2312 Mar 13 j 12:57	3°♍59'32	1°53'31
min. Earth dist.	-2312 Mar 14 j 21:16	3°♍49'14	4.37982 AU
	-2312 Apr 18 j 22:45	30°℞♌	
direct	-2312 May 15 j 05:11	28°♌58'47	
	-2312 Jun 10 j 12:33	0°♍	
evening set	-2312 Sep 18 j 14:34	16°♍52'56	
max. Earth dist.	-2312 Sep 29 j 06:37	19°♍15'44	6.33939 AU
conjunction	-2312 Oct 01 j 04:54	19°♍41'39	1°12'29
minimum elong	-2312 Oct 01 j 04:56	19°♍41'40	1°12'30
morning rise	-2312 Oct 13 j 17:31	22°♍29'40	
	-2312 Nov 17 j 22:11	0°♎	
retrograde	-2311 Feb 13 j 08:59	10°♎05'34	
opposition	-2311 Apr 15 j 08:14	5°♎13'33	1°30'31
min. Earth dist.	-2311 Apr 16 j 15:39	5°♎03'33	4.28956 AU
direct	-2311 Jun 16 j 09:17	0°♎15'27	
evening set	-2311 Oct 19 j 22:52	18°♎29'24	
max. Earth dist.	-2311 Oct 30 j 23:29	21°♎00'50	6.23113 AU
conjunction	-2311 Nov 01 j 12:56	21°♎22'21	0°45'49
minimum elong	-2311 Nov 01 j 12:58	21°♎22'23	0°45'48
morning rise	-2311 Nov 14 j 02:37	24°♎15'24	
	-2311 Dec 09 j 22:23	0°♏	
retrograde	-2310 Mar 19 j 21:05	12°♏44'11	
opposition	-2310 May 19 j 20:52	7°♏50'10	0°38'20
min. Earth dist.	-2310 May 20 j 18:37	7°♏43'12	4.16967 AU
direct	-2310 Jul 19 j 18:44	2°♏54'55	
	-2310 Oct 23 j 08:26	15°♏	
evening set	-2310 Nov 21 j 13:44	21°♏36'12	
conjunction	-2310 Dec 04 j 07:10	24°♏35'42	0°03'37

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

minimum elong	-2310 Dec 04 j 07:10	24°♏35'42	0°03'34
behind sun begin	-2310 Dec 03 j 23:12	24°♏31'02	
behind sun end	-2310 Dec 04 j 15:08	24°♏40'22	
max. Earth dist.	-2310 Dec 03 j 12:21	24°♏24'38	6.11082 AU
morning rise	-2310 Dec 17 j 02:11	27°♏36'13	
	-2310 Dec 27 j 09:44	0°♐	
desc. node	-2309 Jan 03 j 21:02	1°♐42'12	
retrograde	-2309 Apr 25 j 06:37	17°♐05'31	
opposition	-2309 Jun 25 j 01:07	12°♐08'02	-0°29'54
min. Earth dist.	-2309 Jun 25 j 03:22	12°♐07'18	4.05855 AU
direct	-2309 Aug 23 j 12:21	7°♐14'40	
evening set	-2309 Dec 26 j 00:41	26°♐23'18	
conjunction	-2308 Jan 08 j 00:14	29°♐29'25	-0°41'26
minimum elong	-2308 Jan 08 j 00:11	29°♐29'24	0°41'29
max. Earth dist.	-2308 Jan 08 j 10:47	29°♐35'45	6.01930 AU
	-2308 Jan 10 j 03:16	0°♑	
morning rise	-2308 Jan 21 j 02:25	2°♑37'07	
retrograde	-2308 May 31 j 20:53	22°♑52'52	
min. Earth dist.	-2308 Jul 30 j 11:35	17°♑56'52	3.99662 AU
opposition	-2308 Jul 31 j 04:05	17°♑51'23	-1°29'50
direct	-2308 Sep 27 j 12:56	12°♑58'00	
	-2307 Jan 20 j 04:38	0°♒	
evening set	-2307 Jan 30 j 06:17	2°♒22'49	
conjunction	-2307 Feb 12 j 13:02	5°♒33'18	-1°11'53
minimum elong	-2307 Feb 12 j 12:59	5°♒33'17	1°11'55
max. Earth dist.	-2307 Feb 14 j 01:58	5°♒55'25	5.99157 AU
morning rise	-2307 Feb 25 j 23:07	8°♒45'32	
	-2307 Mar 24 j 23:24	15°♒	
retrograde	-2307 Jul 08 j 03:51	29°♒10'26	
min. Earth dist.	-2307 Sep 04 j 18:28	24°♒16'05	4.00785 AU
opposition	-2307 Sep 06 j 00:31	24°♒05'54	-1°55'41
direct	-2307 Nov 02 j 22:55	19°♒10'23	
	-2306 Jan 29 j 10:10	0°♓	
evening set	-2306 Mar 08 j 10:09	8°♓31'50	
conjunction	-2306 Mar 22 j 00:03	11°♓43'19	-1°14'51
minimum elong	-2306 Mar 22 j 00:05	11°♓43'20	1°14'52
max. Earth dist.	-2306 Mar 24 j 01:23	12°♓12'20	6.03929 AU
morning rise	-2306 Apr 04 j 16:40	14°♓55'58	
	-2306 Jun 17 j 10:50	0°♈	
retrograde	-2306 Aug 12 j 22:37	4°♈46'37	
	-2306 Oct 09 j 05:35	30°℞♓	
min. Earth dist.	-2306 Oct 10 j 05:27	29°♓51'51	4.08682 AU
opposition	-2306 Oct 11 j 12:02	29°♓41'24	-1°37'14
direct	-2306 Dec 08 j 22:11	24°♓42'37	
	-2305 Feb 06 j 00:55	0°♈	
evening set	-2305 Apr 14 j 05:55	13°♈42'38	
conjunction	-2305 Apr 28 j 00:21	16°♈51'28	-0°50'13
minimum elong	-2305 Apr 28 j 00:24	16°♈51'30	0°50'12
max. Earth dist.	-2305 Apr 29 j 20:37	17°♈16'49	6.14259 AU
morning rise	-2305 May 11 j 19:21	20°♈00'25	
	-2305 Jun 27 j 16:43	0°♉	
retrograde	-2305 Sep 15 j 16:01	8°♉51'06	
min. Earth dist.	-2305 Nov 13 j 06:03	3°♉55'23	4.20291 AU
opposition	-2305 Nov 14 j 03:44	3°♉48'02	-0°45'35
	-2305 Dec 16 j 04:43	30°℞♈	
direct	-2304 Jan 12 j 15:33	28°♈46'28	
	-2304 Feb 09 j 11:36	0°♉	
	-2304 May 08 j 08:12	15°♉	
evening set	-2304 May 18 j 17:51	17°♉17'15	
conjunction	-2304 Jun 01 j 10:56	20°♉20'26	-0°09'24
minimum elong	-2304 Jun 01 j 10:57	20°♉20'26	0°09'21
behind sun begin	-2304 Jun 01 j 04:02	20°♉16'36	
behind sun end	-2304 Jun 01 j 17:51	20°♉24'16	
max. Earth dist.	-2304 Jun 02 j 08:28	20°♉32'26	6.26270 AU
morning rise	-2304 Jun 15 j 02:53	23°♉22'47	
	-2304 Jul 16 j 02:02	0°♊	
asc. node	-2304 Aug 25 j 12:27	7°♊10'28	
retrograde	-2304 Oct 16 j 13:48	11°♊14'20	
opposition	-2304 Dec 15 j 05:20	6°♊14'55	0°17'50
min. Earth dist.	-2304 Dec 14 j 23:24	6°♊16'54	4.31604 AU
direct	-2303 Feb 14 j 01:25	1°♊11'40	
evening set	-2303 Jun 21 j 13:00	19°♊16'53	
conjunction	-2303 Jul 04 j 23:50	22°♊13'22	0°32'59
minimum elong	-2303 Jul 04 j 23:48	22°♊13'21	0°33'02
max. Earth dist.	-2303 Jul 04 j 20:21	22°♊11'28	6.36061 AU
morning rise	-2303 Jul 18 j 07:42	25°♊08'21	
	-2303 Aug 10 j 03:51	0°♋	
retrograde	-2303 Nov 16 j 09:01	12°♋19'05	
opposition	-2302 Jan 15 j 08:27	7°♋23'34	1°13'23
min. Earth dist.	-2302 Jan 15 j 18:46	7°♋20'11	4.39234 AU
direct	-2302 Mar 18 j 07:15	2°♋20'04	
evening set	-2302 Jul 23 j 19:36	20°♋10'02	
conjunction	-2302 Aug 05 j 21:23	23°♋00'52	1°04'46
minimum elong	-2302 Aug 05 j 21:21	23°♋00'50	1°04'48
max. Earth dist.	-2302 Aug 04 j 17:16	22°♋45'31	6.40880 AU
morning rise	-2302 Aug 18 j 20:07	25°♋50'09	
	-2302 Sep 07 j 09:15	0°♌	
retrograde	-2302 Dec 17 j 01:14	12°♌45'47	
opposition	-2301 Feb 15 j 09:14	7°♌53'03	1°47'30
min. Earth dist.	-2301 Feb 16 j 10:28	7°♌44'55	4.41096 AU
direct	-2301 Apr 19 j 00:27	2°♌50'33	
	-2301 Jul 28 j 11:40	15°♌	
evening set	-2301 Aug 24 j 01:24	20°♌37'51	
max. Earth dist.	-2301 Sep 04 j 01:51	23°♌02'59	6.39528 AU
conjunction	-2301 Sep 05 j 19:39	23°♌26'00	1°18'16
minimum elong	-2301 Sep 05 j 19:38	23°♌26'00	1°18'18
morning rise	-2301 Sep 18 j 11:02	26°♌12'53	
	-2301 Oct 06 j 00:25	0°♍	
retrograde	-2300 Jan 17 j 08:15	13°♍20'03	
opposition	-2300 Mar 18 j 02:19	8°♍28'27	1°52'11
min. Earth dist.	-2300 Mar 19 j 10:05	8°♍18'20	4.36715 AU
direct	-2300 May 19 j 16:13	3°♍28'03	
evening set	-2300 Sep 23 j 00:31	21°♍25'17	
max. Earth dist.	-2300 Oct 03 j 17:43	23°♍49'16	6.32391 AU
conjunction	-2300 Oct 05 j 14:35	24°♍14'29	1°09'53
minimum elong	-2300 Oct 05 j 14:37	24°♍14'30	1°09'52
morning rise	-2300 Oct 18 j 03:04	27°♍03'06	
	-2300 Oct 31 j 11:10	0°♎	
retrograde	-2299 Feb 18 j 04:48	14°♎46'05	
opposition	-2299 Apr 20 j 03:48	9°♎53'55	1°24'38
min. Earth dist.	-2299 Apr 21 j 10:57	9°♎44'01	4.27215 AU
direct	-2299 Jun 21 j 02:28	4°♎56'15	
evening set	-2299 Oct 24 j 12:36	23°♎14'07	
max. Earth dist.	-2299 Nov 04 j 15:01	25°♎47'14	6.21344 AU
conjunction	-2299 Nov 06 j 02:55	26°♎07'55	0°40'29
minimum elong	-2299 Nov 06 j 02:57	26°♎07'57	0°40'27
morning rise	-2299 Nov 18 j 17:17	29°♎01'59	
	-2299 Nov 22 j 22:47	0°♏	
	-2298 Feb 10 j 19:54	15°♏	
retrograde	-2298 Mar 24 j 22:16	17°♏39'13	
	-2298 May 06 j 15:55	15°℞♏	
opposition	-2298 May 24 j 22:35	12°♏44'44	0°29'04
min. Earth dist.	-2298 May 25 j 16:42	12°♏38'55	4.15301 AU
direct	-2298 Jul 24 j 14:52	7°♏49'49	

Attention, astronomical year style is used: The year -2298 in astronomical counting style is the year 2299 BCE in historical counting style.

	-2298 Oct 03 j 10:23	15°♏	
desc. node	-2298 Nov 12 j 14:01	23°♏23'13	
evening set	-2298 Nov 26 j 08:52	26°♏34'47	
conjunction	-2298 Dec 09 j 03:07	29°♏35'13	-0°03'09
minimum elong	-2298 Dec 09 j 03:05	29°♏35'12	0°03'13
behind sun begin	-2298 Dec 08 j 19:05	29°♏30'30	
behind sun end	-2298 Dec 09 j 11:06	29°♏39'55	
max. Earth dist.	-2298 Dec 08 j 13:39	29°♏27'16	6.09679 AU
	-2298 Dec 10 j 21:03	0°♐	
morning rise	-2298 Dec 21 j 22:53	2°♐36'42	
retrograde	-2297 Apr 30 j 14:38	22°♐13'13	
opposition	-2297 Jun 30 j 07:06	17°♐15'09	-0°39'36
min. Earth dist.	-2297 Jun 30 j 07:11	17°♐15'08	4.04831 AU
direct	-2297 Aug 28 j 15:02	12°♐21'55	
	-2297 Dec 24 j 13:09	0°♑	
evening set	-2297 Dec 31 j 01:42	1°♑32'44	
conjunction	-2296 Jan 13 j 02:04	4°♑39'29	-0°47'02
minimum elong	-2296 Jan 13 j 02:00	4°♑39'27	0°47'06
max. Earth dist.	-2296 Jan 13 j 16:15	4°♑47'59	6.01356 AU
morning rise	-2296 Jan 26 j 05:24	7°♑47'54	
retrograde	-2296 Jun 06 j 02:56	28°♑06'20	
opposition	-2296 Aug 05 j 09:45	23°♑04'21	-1°36'00
min. Earth dist.	-2296 Aug 04 j 14:03	23°♑10'56	3.99632 AU
direct	-2296 Oct 02 j 15:30	18°♑10'49	
	-2295 Jan 02 j 08:59	0°♒	
evening set	-2295 Feb 04 j 11:06	7°♒35'27	
conjunction	-2295 Feb 17 j 18:47	10°♒46'08	-1°14'06
minimum elong	-2295 Feb 17 j 18:45	10°♒46'07	1°14'08
max. Earth dist.	-2295 Feb 19 j 09:40	11°♒09'22	5.99641 AU
morning rise	-2295 Mar 03 j 05:49	13°♒58'30	
	-2295 Mar 07 j 14:00	15°♒	
	-2295 May 20 j 13:19	0°♓	
retrograde	-2295 Jul 13 j 06:25	4°♓20'09	
	-2295 Sep 05 j 14:19	30°℞♒	
min. Earth dist.	-2295 Sep 09 j 19:48	29°♒25'39	4.01734 AU
opposition	-2295 Sep 11 j 02:07	29°♒15'21	-1°55'40
direct	-2295 Nov 08 j 02:00	24°♒19'24	
	-2294 Jan 07 j 17:22	0°♓	
evening set	-2294 Mar 13 j 14:37	13°♓38'07	
conjunction	-2294 Mar 27 j 05:30	16°♓49'23	-1°12'53
minimum elong	-2294 Mar 27 j 05:32	16°♓49'25	1°12'53
max. Earth dist.	-2294 Mar 29 j 08:09	17°♓19'04	6.05260 AU
morning rise	-2294 Apr 09 j 22:36	20°♓01'40	
	-2294 May 25 j 11:19	0°♈	
retrograde	-2294 Aug 17 j 18:51	9°♈44'29	
min. Earth dist.	-2294 Oct 15 j 01:38	4°♈49'38	4.10254 AU
opposition	-2294 Oct 16 j 07:22	4°♈39'30	-1°31'33
	-2294 Nov 29 j 22:55	30°℞♓	
direct	-2294 Dec 13 j 19:52	29°♓40'21	
	-2294 Dec 27 j 19:32	0°♈	
evening set	-2293 Apr 19 j 06:54	18°♈36'18	
conjunction	-2293 May 03 j 01:19	21°♈44'28	-0°45'08
minimum elong	-2293 May 03 j 01:23	21°♈44'30	0°45'07
max. Earth dist.	-2293 May 04 j 17:35	22°♈07'25	6.15932 AU
morning rise	-2293 May 16 j 20:24	24°♈52'40	
	-2293 Jun 09 j 00:22	0°♉	
retrograde	-2293 Sep 20 j 04:28	13°♉34'45	
opposition	-2293 Nov 18 j 16:59	8°♉32'08	-0°36'56
min. Earth dist.	-2293 Nov 17 j 21:28	8°♉38'45	4.21907 AU
direct	-2292 Jan 17 j 09:20	3°♉30'14	
	-2292 Apr 20 j 23:08	15°♉	
evening set	-2292 May 23 j 13:30	21°♉57'29	

conjunction	-2292 Jun 06 j 06:09	24°♉59'51	-0°03'16
minimum elong	-2292 Jun 06 j 06:08	24°♉59'51	0°03'14
behind sun begin	-2292 Jun 05 j 21:52	24°♉55'16	
behind sun end	-2292 Jun 06 j 14:24	25°♉04'25	
max. Earth dist.	-2292 Jun 07 j 01:00	25°♉10'20	6.27724 AU
morning rise	-2292 Jun 19 j 21:02	28°♉01'12	
	-2292 Jun 28 j 21:56	0°♊	
asc. node	-2292 Jul 05 j 10:24	1°♊24'24	
retrograde	-2292 Oct 20 j 22:37	15°♊46'15	
opposition	-2292 Dec 19 j 14:43	10°♊47'29	0°26'29
min. Earth dist.	-2292 Dec 19 j 11:01	10°♊48'42	4.32784 AU
direct	-2291 Feb 18 j 14:48	5°♊44'09	
evening set	-2291 Jun 26 j 03:42	23°♊47'17	
conjunction	-2291 Jul 09 j 13:15	26°♊42'58	0°38'18
minimum elong	-2291 Jul 09 j 13:13	26°♊42'56	0°38'22
max. Earth dist.	-2291 Jul 09 j 04:36	26°♊38'14	6.36861 AU
morning rise	-2291 Jul 22 j 20:03	29°♊37'09	
	-2291 Jul 24 j 14:08	0°♋	
retrograde	-2291 Nov 20 j 17:11	16°♋45'01	
opposition	-2290 Jan 19 j 17:07	11°♋49'58	1°19'44
min. Earth dist.	-2290 Jan 20 j 06:15	11°♋45'40	4.39633 AU
direct	-2290 Mar 22 j 19:18	6°♋46'31	
evening set	-2290 Jul 28 j 06:34	24°♋36'15	
max. Earth dist.	-2290 Aug 09 j 02:01	27°♋10'36	6.40839 AU
conjunction	-2290 Aug 10 j 07:21	27°♋26'38	1°07'54
minimum elong	-2290 Aug 10 j 07:19	27°♋26'37	1°07'56
	-2290 Aug 22 j 00:19	0°♌	
morning rise	-2290 Aug 23 j 04:45	0°♌15'26	
	-2290 Nov 13 j 09:57	15°♌	
retrograde	-2290 Dec 21 j 09:26	17°♌11'53	
	-2289 Jan 28 j 17:17	15°℞♌	
opposition	-2289 Feb 19 j 19:37	12°♌19'28	1°50'04
min. Earth dist.	-2289 Feb 20 j 21:18	12°♌11'13	4.40656 AU
direct	-2289 Apr 23 j 10:41	7°♌17'18	
	-2289 Jul 09 j 14:57	15°♌	
evening set	-2289 Aug 28 j 11:14	25°♌05'58	
max. Earth dist.	-2289 Sep 08 j 09:13	27°♌30'10	6.38721 AU
conjunction	-2289 Sep 10 j 04:31	27°♌54'05	1°18'26
minimum elong	-2289 Sep 10 j 04:31	27°♌54'05	1°18'28
	-2289 Sep 19 j 16:41	0°♍	
morning rise	-2289 Sep 22 j 19:21	0°♍41'02	
retrograde	-2288 Jan 21 j 22:56	17°♍52'11	
opposition	-2288 Mar 22 j 17:00	13°♍00'41	1°50'12
min. Earth dist.	-2288 Mar 24 j 01:47	12°♍50'15	4.35608 AU
direct	-2288 May 24 j 06:39	8°♍00'39	
evening set	-2288 Sep 27 j 10:58	26°♍00'14	
max. Earth dist.	-2288 Oct 08 j 05:08	28°♍25'14	6.31087 AU
conjunction	-2288 Oct 10 j 00:54	28°♍49'54	1°06'53
minimum elong	-2288 Oct 10 j 00:56	28°♍49'55	1°06'53
	-2288 Oct 15 j 05:14	0°♎	
morning rise	-2288 Oct 22 j 13:21	1°♎39'03	
retrograde	-2287 Feb 22 j 23:00	19°♎28'18	
opposition	-2287 Apr 24 j 23:43	14°♎35'52	1°18'13
min. Earth dist.	-2287 Apr 26 j 04:19	14°♎26'46	4.25809 AU
direct	-2287 Jun 25 j 17:54	9°♎38'38	
evening set	-2287 Oct 29 j 01:59	27°♎59'10	
	-2287 Nov 06 j 19:46	0°♏	
max. Earth dist.	-2287 Nov 09 j 08:15	0°♏34'59	6.19965 AU
conjunction	-2287 Nov 10 j 16:34	0°♏53'40	0°34'56
minimum elong	-2287 Nov 10 j 16:36	0°♏53'42	0°34'54
morning rise	-2287 Nov 23 j 07:24	3°♏48'32	
	-2286 Jan 15 j 01:54	15°♏	

Attention, astronomical year style is used: The year -2286 in astronomical counting style is the year 2287 BCE in historical counting style.

retrograde	-2286 Mar 30 j 00:38	22°♏32'52	
opposition	-2286 May 29 j 23:27	17°♏37'56	0°19'43
min. Earth dist.	-2286 May 30 j 15:59	17°♏32'36	4.14036 AU
	-2286 Jun 20 j 14:05	15°℞♏	
direct	-2286 Jul 29 j 12:31	12°♏43'19	
	-2286 Sep 05 j 19:18	15°♏	
desc. node	-2286 Sep 22 j 11:01	17°♏14'42	
	-2286 Nov 24 j 15:44	0°♐	
evening set	-2286 Dec 01 j 02:50	1°♐30'39	
conjunction	-2286 Dec 13 j 21:41	4°♐31'48	-0°09'38
minimum elong	-2286 Dec 13 j 21:41	4°♐31'47	0°09'40
behind sun begin	-2286 Dec 13 j 15:00	4°♐27'51	
behind sun end	-2286 Dec 14 j 04:22	4°♐35'43	
max. Earth dist.	-2286 Dec 13 j 11:30	4°♐25'47	6.08643 AU
morning rise	-2286 Dec 26 j 18:26	7°♐34'08	
retrograde	-2285 May 05 j 17:20	27°♐16'12	
opposition	-2285 Jul 05 j 10:11	22°♐17'34	-0°48'45
min. Earth dist.	-2285 Jul 05 j 06:46	22°♐18'41	4.04140 AU
direct	-2285 Sep 02 j 13:15	17°♐24'24	
	-2285 Dec 07 j 09:40	0°♑	
evening set	-2284 Jan 05 j 00:26	6°♑36'31	
conjunction	-2284 Jan 18 j 01:39	9°♑43'46	-0°52'07
minimum elong	-2284 Jan 18 j 01:36	9°♑43'44	0°52'11
max. Earth dist.	-2284 Jan 18 j 19:08	9°♑54'14	6.01049 AU
morning rise	-2284 Jan 31 j 05:57	12°♑52'42	
	-2284 Apr 26 j 06:33	0°♒	
retrograde	-2284 Jun 11 j 06:45	3°♒12'49	
	-2284 Jul 27 j 12:33	30°℞♑	
opposition	-2284 Aug 10 j 12:02	28°♑10'18	-1°41'13
min. Earth dist.	-2284 Aug 09 j 15:01	28°♑17'21	3.99748 AU
direct	-2284 Oct 07 j 17:05	23°♑16'27	
	-2284 Dec 13 j 01:38	0°♒	
evening set	-2283 Feb 09 j 12:40	12°♒40'31	
	-2283 Feb 19 j 07:11	15°♒	
conjunction	-2283 Feb 22 j 21:28	15°♒51'25	-1°15'42
minimum elong	-2283 Feb 22 j 21:27	15°♒51'25	1°15'44
max. Earth dist.	-2283 Feb 24 j 15:29	16°♒16'28	6.00161 AU
morning rise	-2283 Mar 08 j 09:21	19°♒03'55	
	-2283 Apr 26 j 20:10	0°♓	
retrograde	-2283 Jul 18 j 06:19	9°♓22'02	
min. Earth dist.	-2283 Sep 14 j 17:52	4°♓27'25	4.02617 AU
opposition	-2283 Sep 16 j 00:15	4°♓17'05	-1°54'49
	-2283 Oct 24 j 11:45	30°℞♒	
direct	-2283 Nov 13 j 00:14	29°♒20'43	
	-2283 Dec 02 j 15:02	0°♓	
evening set	-2282 Mar 18 j 16:24	18°♓37'10	
conjunction	-2282 Apr 01 j 07:52	21°♓48'13	-1°10'26
minimum elong	-2282 Apr 01 j 07:55	21°♓48'15	1°10'26
max. Earth dist.	-2282 Apr 03 j 08:17	22°♓16'30	6.06412 AU
morning rise	-2282 Apr 15 j 01:43	25°♓00'14	
	-2282 May 07 j 02:19	0°♈	
retrograde	-2282 Aug 22 j 10:52	14°♈36'02	
opposition	-2282 Oct 20 j 23:50	9°♈31'13	-1°25'24
min. Earth dist.	-2282 Oct 19 j 18:58	9°♈41'05	4.11552 AU
direct	-2282 Dec 18 j 15:19	4°♈31'37	
evening set	-2281 Apr 24 j 05:40	23°♈24'40	
conjunction	-2281 May 08 j 00:23	26°♈32'20	-0°39'52
minimum elong	-2281 May 08 j 00:26	26°♈32'22	0°39'50
max. Earth dist.	-2281 May 09 j 14:38	26°♈54'04	6.17306 AU
morning rise	-2281 May 21 j 19:11	29°♈39'50	
	-2281 May 23 j 07:01	0°♉	
	-2281 Aug 09 j 18:37	15°♉	

retrograde	-2281 Sep 24 j 17:35	18°♉14'32	
	-2281 Nov 09 j 15:23	15°℞♉	
min. Earth dist.	-2281 Nov 22 j 11:52	13°♉18'14	4.23218 AU
opposition	-2281 Nov 23 j 05:00	13°♉12'26	-0°28'13
direct	-2280 Jan 22 j 01:48	8°♉10'18	
	-2280 Apr 01 j 02:49	15°♉	
asc. node	-2280 May 15 j 20:45	23°♉51'34	
evening set	-2280 May 28 j 07:57	26°♉34'53	
conjunction	-2280 Jun 10 j 23:51	29°♉36'29	0°02'56
minimum elong	-2280 Jun 10 j 23:51	29°♉36'29	0°02'58
behind sun begin	-2280 Jun 10 j 15:35	29°♉31'55	
behind sun end	-2280 Jun 11 j 08:08	29°♉41'03	
max. Earth dist.	-2280 Jun 11 j 14:32	29°♉44'37	6.28881 AU
	-2280 Jun 12 j 18:14	0°♊	
morning rise	-2280 Jun 24 j 14:02	2°♊37'02	
retrograde	-2280 Oct 25 j 06:54	20°♊16'42	
opposition	-2280 Dec 24 j 00:02	15°♊18'27	0°34'51
min. Earth dist.	-2280 Dec 23 j 22:16	15°♊19'02	4.33723 AU
direct	-2279 Feb 23 j 03:33	10°♊15'00	
evening set	-2279 Jun 30 j 17:48	28°♊16'31	
	-2279 Jul 08 j 15:42	0°♋	
conjunction	-2279 Jul 14 j 02:18	1°♋11'28	0°43'21
minimum elong	-2279 Jul 14 j 02:15	1°♋11'26	0°43'24
max. Earth dist.	-2279 Jul 13 j 15:41	1°♋05'39	6.37525 AU
morning rise	-2279 Jul 27 j 07:41	4°♋04'50	
retrograde	-2279 Nov 25 j 00:48	21°♋10'08	
opposition	-2278 Jan 24 j 01:53	16°♋15'33	1°25'34
min. Earth dist.	-2278 Jan 24 j 16:35	16°♋10'46	4.39995 AU
direct	-2278 Mar 27 j 06:28	11°♋12'16	
evening set	-2278 Aug 01 j 17:19	29°♋01'25	
	-2278 Aug 06 j 05:05	0°♌	
max. Earth dist.	-2278 Aug 13 j 08:06	1°♌33'24	6.40849 AU
conjunction	-2278 Aug 14 j 16:48	1°♌51'17	1°10'37
minimum elong	-2278 Aug 14 j 16:46	1°♌51'16	1°10'39
morning rise	-2278 Aug 27 j 13:14	4°♌39'39	
	-2278 Oct 18 j 03:05	15°♌	
retrograde	-2278 Dec 25 j 19:24	21°♌36'38	
opposition	-2277 Feb 24 j 06:14	16°♌44'24	1°51'58
min. Earth dist.	-2277 Feb 25 j 09:34	16°♌35'38	4.40322 AU
	-2277 Mar 10 j 02:31	15°℞♌	
direct	-2277 Apr 27 j 22:28	11°♌42'25	
	-2277 Jun 15 j 10:13	15°♌	
evening set	-2277 Sep 01 j 19:49	29°♌31'39	
	-2277 Sep 03 j 23:26	0°♍	
max. Earth dist.	-2277 Sep 12 j 17:54	1°♍56'08	6.38046 AU
conjunction	-2277 Sep 14 j 12:31	2°♍19'44	1°18'08
minimum elong	-2277 Sep 14 j 12:32	2°♍19'44	1°18'08
morning rise	-2277 Sep 27 j 02:34	5°♍06'41	
retrograde	-2276 Jan 26 j 10:44	22°♍21'25	
opposition	-2276 Mar 27 j 07:01	17°♍29'51	1°47'34
min. Earth dist.	-2276 Mar 28 j 15:04	17°♍19'40	4.34613 AU
direct	-2276 May 28 j 18:15	12°♍30'13	
	-2276 Sep 29 j 11:40	0°♎	
evening set	-2276 Oct 01 j 20:14	0°♎31'38	
max. Earth dist.	-2276 Oct 12 j 14:26	2°♎57'09	6.29830 AU
conjunction	-2276 Oct 14 j 09:50	3°♎21'42	1°03'30
minimum elong	-2276 Oct 14 j 09:53	3°♎21'43	1°03'30
morning rise	-2276 Oct 26 j 22:25	6°♎11'24	
retrograde	-2275 Feb 27 j 18:43	24°♎07'01	
opposition	-2275 Apr 29 j 18:42	19°♎14'21	1°11'19
min. Earth dist.	-2275 Apr 30 j 23:04	19°♎05'18	4.24331 AU
direct	-2275 Jun 30 j 10:17	14°♎17'28	

Attention, astronomical year style is used: The year -2275 in astronomical counting style is the year 2276 BCE in historical counting style.

	-2275 Oct 21 j 19:23	0°♏	
evening set	-2275 Nov 02 j 14:22	2°♏41'09	
max. Earth dist.	-2275 Nov 13 j 23:24	5°♏19'03	6.18401 AU
conjunction	-2275 Nov 15 j 05:27	5°♏36'29	0°29'11
minimum elong	-2275 Nov 15 j 05:29	5°♏36'31	0°29'08
morning rise	-2275 Nov 27 j 20:53	8°♏32'18	
	-2275 Dec 26 j 18:22	15°♏	
retrograde	-2274 Apr 04 j 00:16	27°♏24'37	
opposition	-2274 Jun 03 j 23:28	22°♏29'15	0°10'13
min. Earth dist.	-2274 Jun 04 j 13:08	22°♏24'51	4.12501 AU
desc. node	-2274 Aug 02 j 08:17	17°♏35'02	
direct	-2274 Aug 03 j 06:52	17°♏34'57	
	-2274 Nov 07 j 16:17	0°♐	
evening set	-2274 Dec 05 j 20:54	6°♐26'05	
conjunction	-2274 Dec 18 j 16:28	9°♐28'09	-0°16'04
minimum elong	-2274 Dec 18 j 16:27	9°♐28'08	0°16'07
behind sun begin	-2274 Dec 18 j 15:25	9°♐27'31	
behind sun end	-2274 Dec 18 j 17:28	9°♐28'44	
max. Earth dist.	-2274 Dec 18 j 09:23	9°♐23'57	6.07267 AU
morning rise	-2274 Dec 31 j 14:12	12°♐31'31	
	-2273 Apr 01 j 16:42	0°♑	
retrograde	-2273 May 10 j 22:54	2°♑20'53	
	-2273 Jun 19 j 09:07	30°℞♐	
opposition	-2273 Jul 10 j 14:03	27°♐21'42	-0°57'41
min. Earth dist.	-2273 Jul 10 j 08:31	27°♐23'31	4.03045 AU
direct	-2273 Sep 07 j 14:09	22°♐28'33	
	-2273 Nov 17 j 16:01	0°♑	
evening set	-2272 Jan 10 j 00:49	11°♑43'48	
conjunction	-2272 Jan 23 j 03:09	14°♑51'50	-0°56'54
minimum elong	-2272 Jan 23 j 03:05	14°♑51'48	0°56'57
max. Earth dist.	-2272 Jan 24 j 01:10	15°♑05'02	6.00334 AU
morning rise	-2272 Feb 05 j 08:28	18°♑01'33	
	-2272 Mar 30 j 19:50	0°♒	
retrograde	-2272 Jun 16 j 13:37	8°♒24'46	
opposition	-2272 Aug 15 j 16:11	3°♒21'52	-1°45'47
min. Earth dist.	-2272 Aug 14 j 17:33	3°♒29'28	3.99520 AU
	-2272 Sep 12 j 09:45	30°℞♑	
direct	-2272 Oct 12 j 18:46	28°♑27'49	
	-2272 Nov 12 j 01:03	0°♒	
	-2271 Feb 02 j 11:00	15°♒	
evening set	-2271 Feb 14 j 17:47	17°♒52'56	
conjunction	-2271 Feb 28 j 03:30	21°♒04'10	-1°16'45
minimum elong	-2271 Feb 28 j 03:29	21°♒04'09	1°16'47
max. Earth dist.	-2271 Mar 01 j 22:07	21°♒29'32	6.00409 AU
morning rise	-2271 Mar 13 j 16:34	24°♒17'01	
	-2271 Apr 07 j 12:02	0°♓	
retrograde	-2271 Jul 23 j 07:19	14°♓32'20	
min. Earth dist.	-2271 Sep 19 j 17:40	9°♓37'58	4.03326 AU
opposition	-2271 Sep 21 j 01:06	9°♓27'15	-1°53'04
direct	-2271 Nov 18 j 01:26	4°♓30'28	
evening set	-2270 Mar 23 j 21:52	23°♓45'23	
conjunction	-2270 Apr 06 j 14:17	26°♓56'19	-1°07'23
minimum elong	-2270 Apr 06 j 14:20	26°♓56'21	1°07'23
max. Earth dist.	-2270 Apr 08 j 15:17	27°♓24'51	6.07541 AU
	-2270 Apr 19 j 18:36	0°♈	
morning rise	-2270 Apr 20 j 08:30	0°♈08'01	
retrograde	-2270 Aug 27 j 08:42	19°♈36'36	
opposition	-2270 Oct 25 j 19:46	14°♈32'06	-1°18'28
min. Earth dist.	-2270 Oct 24 j 16:23	14°♈41'27	4.12980 AU
direct	-2270 Dec 23 j 15:14	9°♈32'10	
evening set	-2269 Apr 29 j 07:50	28°♈21'37	
	-2269 May 06 j 14:02	0°♉	

conjunction	-2269 May 13 j 02:29	1°♉28'35	-0°34'11
minimum elong	-2269 May 13 j 02:31	1°♉28'37	0°34'08
max. Earth dist.	-2269 May 14 j 14:45	1°♉49'07	6.18948 AU
morning rise	-2269 May 26 j 21:01	4°♉35'15	
	-2269 Jul 15 j 14:34	15°♉	
retrograde	-2269 Sep 29 j 06:32	23°♉01'21	
opposition	-2269 Nov 27 j 19:21	17°♉59'45	-0°19'08
min. Earth dist.	-2269 Nov 27 j 02:54	18°♉05'17	4.24954 AU
	-2269 Dec 21 j 17:05	15°℞♉	
direct	-2268 Jan 26 j 19:48	12°♉57'23	
	-2268 Mar 03 j 10:37	15°♉	
asc. node	-2268 Mar 25 j 04:46	17°♉50'38	
	-2268 May 27 j 06:23	0°♊	
evening set	-2268 Jun 02 j 04:18	1°♊17'37	
conjunction	-2268 Jun 15 j 19:18	4°♊18'07	0°09'03
minimum elong	-2268 Jun 15 j 19:18	4°♊18'07	0°09'06
behind sun begin	-2268 Jun 15 j 12:20	4°♊14'17	
behind sun end	-2268 Jun 16 j 02:16	4°♊21'57	
max. Earth dist.	-2268 Jun 16 j 07:09	4°♊24'40	6.30612 AU
morning rise	-2268 Jun 29 j 08:19	7°♊17'27	
retrograde	-2268 Oct 29 j 16:38	24°♊49'41	
opposition	-2268 Dec 28 j 10:07	19°♊51'58	0°43'01
min. Earth dist.	-2268 Dec 28 j 10:49	19°♊51'44	4.35321 AU
direct	-2267 Feb 27 j 18:43	14°♊48'29	
	-2267 Jun 22 j 09:59	0°♋	
evening set	-2267 Jul 05 j 07:25	2°♋45'52	
conjunction	-2267 Jul 18 j 14:33	5°♋39'43	0°48'06
minimum elong	-2267 Jul 18 j 14:30	5°♋39'41	0°48'08
max. Earth dist.	-2267 Jul 18 j 00:32	5°♋32'03	6.38854 AU
morning rise	-2267 Jul 31 j 18:36	8°♋31'58	
retrograde	-2267 Nov 29 j 06:14	25°♋32'42	
opposition	-2266 Jan 28 j 09:34	20°♋38'27	1°30'45
min. Earth dist.	-2266 Jan 29 j 01:57	20°♋33'07	4.40988 AU
direct	-2266 Mar 31 j 16:38	15°♋35'12	
	-2266 Jul 21 j 07:55	0°♌	
evening set	-2266 Aug 06 j 01:13	3°♌21'32	
conjunction	-2266 Aug 18 j 23:33	6°♌10'40	1°12'50
minimum elong	-2266 Aug 18 j 23:31	6°♌10'39	1°12'53
max. Earth dist.	-2266 Aug 17 j 13:53	5°♌52'15	6.41415 AU
morning rise	-2266 Aug 31 j 18:40	8°♌58'18	
	-2266 Sep 29 j 09:46	15°♌	
retrograde	-2266 Dec 30 j 00:50	25°♌54'17	
opposition	-2265 Feb 28 j 13:49	21°♌02'14	1°53'06
min. Earth dist.	-2265 Mar 01 j 18:31	20°♌53'03	4.40422 AU
direct	-2265 May 02 j 07:02	16°♌00'29	
	-2265 Aug 19 j 08:36	0°♍	
evening set	-2265 Sep 06 j 00:48	3°♍48'54	
max. Earth dist.	-2265 Sep 16 j 19:14	6°♍11'38	6.37645 AU
conjunction	-2265 Sep 18 j 16:37	6°♍36'48	1°17'22
minimum elong	-2265 Sep 18 j 16:38	6°♍36'48	1°17'23
morning rise	-2265 Oct 01 j 06:16	9°♍23'42	
retrograde	-2264 Jan 30 j 20:29	26°♍41'24	
opposition	-2264 Mar 31 j 17:12	21°♍49'44	1°44'21
min. Earth dist.	-2264 Apr 02 j 02:22	21°♍39'10	4.33715 AU
direct	-2264 Jun 02 j 03:21	16°♍50'17	
	-2264 Sep 13 j 18:30	0°♎	
evening set	-2264 Oct 06 j 01:18	4°♎53'28	
max. Earth dist.	-2264 Oct 16 j 20:29	7°♎19'56	6.28508 AU
conjunction	-2264 Oct 18 j 15:01	7°♎44'04	0°59'51
minimum elong	-2264 Oct 18 j 15:04	7°♎44'05	0°59'51
morning rise	-2264 Oct 31 j 03:37	10°♎34'21	
retrograde	-2263 Mar 04 j 09:11	28°♎36'46	

Attention, astronomical year style is used: The year -2263 in astronomical counting style is the year 2264 BCE in historical counting style.

opposition	-2263 May 04 j 09:52	23°♎43'49	1°04'15
min. Earth dist.	-2263 May 05 j 13:12	23°♎35'06	4.22654 AU
direct	-2263 Jul 04 j 21:01	18°♎47'16	
	-2263 Oct 05 j 07:06	0°♏	
evening set	-2263 Nov 06 j 23:40	7°♏15'06	
max. Earth dist.	-2263 Nov 18 j 09:51	9°♏54'23	6.16508 AU
conjunction	-2263 Nov 19 j 15:07	10°♏11'25	0°23'27
minimum elong	-2263 Nov 19 j 15:08	10°♏11'26	0°23'24
morning rise	-2263 Dec 02 j 07:24	13°♏08'22	
	-2263 Dec 10 j 09:19	15°♏	
	-2262 Mar 02 j 02:11	0°♐	
retrograde	-2262 Apr 08 j 23:20	2°♐10'16	
	-2262 May 17 j 03:18	30°℞♏	
opposition	-2262 Jun 08 j 21:03	27°♏14'24	0°00'54
min. Earth dist.	-2262 Jun 09 j 09:10	27°♏10'29	4.10519 AU
desc. node	-2262 Jun 14 j 02:00	26°♏34'06	
direct	-2262 Aug 08 j 00:06	22°♏20'16	
	-2262 Oct 19 j 19:48	0°♐	
evening set	-2262 Dec 10 j 13:31	11°♐17'08	
conjunction	-2262 Dec 23 j 10:09	14°♐20'27	-0°22'15
minimum elong	-2262 Dec 23 j 10:07	14°♐20'26	0°22'18
max. Earth dist.	-2262 Dec 23 j 07:05	14°♐18'37	6.05395 AU
morning rise	-2261 Jan 05 j 08:54	17°♐25'07	
	-2261 Mar 04 j 14:46	0°♑	
retrograde	-2261 May 16 j 04:57	7°♑23'32	
opposition	-2261 Jul 15 j 16:54	2°♑23'53	-1°06'02
min. Earth dist.	-2261 Jul 15 j 09:08	2°♑26'26	4.01488 AU
	-2261 Aug 03 j 17:15	30°℞♐	
direct	-2261 Sep 12 j 12:11	27°♐30'45	
	-2261 Oct 21 j 15:07	0°♑	
evening set	-2260 Jan 15 j 01:57	16°♑51'08	
conjunction	-2260 Jan 28 j 05:17	20°♑00'08	-1°01'09
minimum elong	-2260 Jan 28 j 05:14	20°♑00'06	1°01'11
max. Earth dist.	-2260 Jan 29 j 05:41	20°♑14'47	5.99219 AU
morning rise	-2260 Feb 10 j 12:01	23°♑10'56	
	-2260 Mar 11 j 00:22	0°♒	
retrograde	-2260 Jun 21 j 19:34	13°♒38'32	
opposition	-2260 Aug 20 j 20:54	8°♒35'09	-1°49'28
min. Earth dist.	-2260 Aug 19 j 19:29	8°♒43'43	3.98994 AU
direct	-2260 Oct 17 j 20:33	3°♒40'48	
	-2259 Jan 15 j 06:44	15°♒	
evening set	-2259 Feb 20 j 00:20	23°♒07'57	
conjunction	-2259 Mar 05 j 11:23	26°♒19'42	-1°17'07
minimum elong	-2259 Mar 05 j 11:23	26°♒19'42	1°17'08
max. Earth dist.	-2259 Mar 07 j 09:56	26°♒47'22	6.00520 AU
morning rise	-2259 Mar 19 j 01:21	29°♒32'54	
	-2259 Mar 20 j 23:25	0°♓	
retrograde	-2259 Jul 28 j 12:14	19°♓45'24	
min. Earth dist.	-2259 Sep 24 j 20:00	14°♓50'52	4.04046 AU
opposition	-2259 Sep 26 j 03:22	14°♓40'10	-1°50'19
direct	-2259 Nov 23 j 05:46	9°♓42'56	
evening set	-2258 Mar 29 j 05:00	28°♓55'51	
	-2258 Apr 02 j 19:55	0°♈	
conjunction	-2258 Apr 11 j 22:03	2°♈06'32	-1°03'44
minimum elong	-2258 Apr 11 j 22:07	2°♈06'34	1°03'44
max. Earth dist.	-2258 Apr 13 j 23:25	2°♈35'10	6.08790 AU
morning rise	-2258 Apr 25 j 16:48	5°♈17'51	
retrograde	-2258 Sep 01 j 04:22	24°♈38'09	
opposition	-2258 Oct 30 j 16:02	19°♈33'51	-1°10'51
min. Earth dist.	-2258 Oct 29 j 12:27	19°♈43'15	4.14590 AU
direct	-2258 Dec 28 j 14:20	14°♈33'28	
	-2257 Apr 19 j 12:20	0°♉	
evening set	-2257 May 04 j 10:31	3°♉18'32	
conjunction	-2257 May 18 j 04:56	6°♉24'37	-0°28'12
minimum elong	-2257 May 18 j 04:58	6°♉24'39	0°28'10
max. Earth dist.	-2257 May 19 j 13:58	6°♉43'16	6.20767 AU
morning rise	-2257 May 31 j 23:02	9°♉30'16	
	-2257 Jun 26 j 03:39	15°♉	
retrograde	-2257 Oct 03 j 21:26	27°♉47'15	
opposition	-2257 Dec 02 j 09:54	22°♉46'07	-0°09'53
min. Earth dist.	-2257 Dec 01 j 20:21	22°♉50'40	4.26758 AU
direct	-2256 Jan 31 j 16:04	17°♉43'28	
asc. node	-2256 Feb 01 j 15:31	17°♉43'33	
	-2256 May 09 j 21:15	0°♊	
evening set	-2256 Jun 07 j 00:10	5°♊59'10	
conjunction	-2256 Jun 20 j 14:19	8°♊58'38	0°15'11
minimum elong	-2256 Jun 20 j 14:18	8°♊58'37	0°15'14
behind sun begin	-2256 Jun 20 j 12:04	8°♊57'24	
behind sun end	-2256 Jun 20 j 16:31	8°♊59'50	
max. Earth dist.	-2256 Jun 20 j 23:15	9°♊03'32	6.32238 AU
morning rise	-2256 Jul 04 j 02:07	11°♊56'47	
retrograde	-2256 Nov 03 j 00:40	29°♊22'25	
opposition	-2255 Jan 01 j 20:33	24°♊25'14	0°51'02
min. Earth dist.	-2255 Jan 01 j 22:50	24°♊24'29	4.36645 AU
direct	-2255 Mar 04 j 07:55	19°♊21'43	
	-2255 Jun 04 j 21:03	0°♋	
evening set	-2255 Jul 09 j 21:23	7°♋16'09	
max. Earth dist.	-2255 Jul 22 j 09:33	9°♋59'28	6.39765 AU
conjunction	-2255 Jul 23 j 03:09	10°♋09'04	0°52'40
minimum elong	-2255 Jul 23 j 03:06	10°♋09'03	0°52'43
morning rise	-2255 Aug 05 j 05:50	13°♋00'25	
retrograde	-2255 Dec 03 j 15:08	29°♋58'22	
opposition	-2254 Feb 01 j 18:55	25°♋04'35	1°35'38
min. Earth dist.	-2254 Feb 02 j 14:11	24°♋58'21	4.41436 AU
direct	-2254 Apr 05 j 05:12	20°♋01'31	
	-2254 Jul 03 j 19:04	0°♌	
evening set	-2254 Aug 10 j 11:11	7°♌47'00	
max. Earth dist.	-2254 Aug 21 j 19:27	10°♌15'30	6.41342 AU
conjunction	-2254 Aug 23 j 08:24	10°♌35'43	1°14'47
minimum elong	-2254 Aug 23 j 08:22	10°♌35'42	1°14'49
morning rise	-2254 Sep 05 j 02:34	13°♌22'59	
	-2254 Sep 12 j 13:53	15°♌	
	-2254 Dec 19 j 18:53	0°♍	
retrograde	-2253 Jan 03 j 10:54	0°♍20'21	
	-2253 Jan 18 j 02:49	30°℞♌	
opposition	-2253 Mar 05 j 01:05	25°♌28'27	1°53'48
min. Earth dist.	-2253 Mar 06 j 06:49	25°♌18'56	4.39853 AU
direct	-2253 May 06 j 17:41	20°♌26'58	
	-2253 Aug 01 j 16:34	0°♍	
evening set	-2253 Sep 10 j 09:27	8°♍16'48	
max. Earth dist.	-2253 Sep 21 j 03:57	10°♍39'56	6.36621 AU
conjunction	-2253 Sep 23 j 00:50	11°♍04'53	1°16'11
minimum elong	-2253 Sep 23 j 00:51	11°♍04'53	1°16'12
morning rise	-2253 Oct 05 j 13:56	13°♍52'02	
	-2252 Jan 06 j 21:57	0°♎	
retrograde	-2252 Feb 04 j 11:36	1°♎14'56	
	-2252 Mar 04 j 04:04	30°℞♍	
opposition	-2252 Apr 05 j 09:07	26°♍23'16	1°40'28
min. Earth dist.	-2252 Apr 06 j 18:21	26°♍12'41	4.32290 AU
direct	-2252 Jun 06 j 16:44	21°♍24'16	
	-2252 Aug 26 j 09:59	0°♎	
evening set	-2252 Oct 10 j 12:11	9°♎30'47	
max. Earth dist.	-2252 Oct 21 j 06:55	11°♎57'39	6.26798 AU

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

conjunction	-2252 Oct 23 j 01:47	12°♎22'04	0°55'40
minimum elong	-2252 Oct 23 j 01:50	12°♎22'05	0°55'39
morning rise	-2252 Nov 04 j 14:50	15°♎13'13	
	-2251 Jan 20 j 06:54	0°♏	
retrograde	-2251 Mar 09 j 07:45	3°♏23'57	
	-2251 Apr 27 j 11:40	30°℞♎	
opposition	-2251 May 09 j 08:06	28°♎30'41	0°56'18
min. Earth dist.	-2251 May 10 j 09:49	28°♎22'27	4.20762 AU
direct	-2251 Jul 09 j 15:10	23°♎34'30	
	-2251 Sep 14 j 21:56	0°♏	
evening set	-2251 Nov 11 j 15:39	12°♏07'03	
max. Earth dist.	-2251 Nov 23 j 06:44	14°♏49'46	6.14632 AU
conjunction	-2251 Nov 24 j 07:51	15°♏04'28	0°17'11
minimum elong	-2251 Nov 24 j 07:52	15°♏04'29	0°17'09
	-2251 Nov 24 j 00:12	15°♏	
morning rise	-2251 Dec 07 j 00:48	18°♏02'34	
	-2250 Feb 01 j 05:06	0°♐	
retrograde	-2250 Apr 14 j 05:12	7°♐13'42	
desc. node	-2250 Apr 22 j 23:14	7°♐06'28	
opposition	-2250 Jun 14 j 01:30	2°♐17'26	-0°09'03
min. Earth dist.	-2250 Jun 14 j 11:03	2°♐14'20	4.08833 AU
	-2250 Jul 02 j 10:58	30°℞♏	
direct	-2250 Aug 12 j 23:44	27°♏23'38	
	-2250 Sep 22 j 16:16	0°♐	
evening set	-2250 Dec 15 j 12:39	16°♐24'55	
conjunction	-2250 Dec 28 j 10:02	19°♐29'12	-0°28'38
minimum elong	-2250 Dec 28 j 10:00	19°♐29'10	0°28'42
max. Earth dist.	-2250 Dec 28 j 10:01	19°♐29'11	6.04061 AU
morning rise	-2249 Jan 10 j 10:02	22°♐34'58	
	-2249 Feb 11 j 20:24	0°♑	
retrograde	-2249 May 21 j 13:22	12°♑40'00	
opposition	-2249 Jul 21 j 00:41	7°♑39'44	-1°14'18
min. Earth dist.	-2249 Jul 20 j 13:01	7°♑43'36	4.00682 AU
direct	-2249 Sep 17 j 15:43	2°♑46'34	
evening set	-2248 Jan 20 j 07:07	22°♑08'59	
conjunction	-2248 Feb 02 j 11:38	25°♑18'33	-1°05'07
minimum elong	-2248 Feb 02 j 11:35	25°♑18'31	1°05'10
max. Earth dist.	-2248 Feb 03 j 17:35	25°♑36'32	5.99024 AU
morning rise	-2248 Feb 15 j 19:15	28°♑29'50	
	-2248 Feb 22 j 03:28	0°♒	
	-2248 May 06 j 21:42	15°♒	
retrograde	-2248 Jun 27 j 03:52	18°♒57'29	
	-2248 Aug 17 j 21:02	15°℞♒	
min. Earth dist.	-2248 Aug 25 j 00:39	14°♒02'36	3.99460 AU
opposition	-2248 Aug 26 j 03:07	13°♒53'40	-1°52'20
direct	-2248 Oct 23 j 02:59	8°♒58'58	
	-2248 Dec 24 j 12:21	15°♒	
evening set	-2247 Feb 25 j 07:47	28°♒24'20	
	-2247 Mar 04 j 01:42	0°♓	
conjunction	-2247 Mar 10 j 19:42	1°♓35'59	-1°16'56
minimum elong	-2247 Mar 10 j 19:42	1°♓35'59	1°16'57
max. Earth dist.	-2247 Mar 12 j 20:01	2°♓04'36	6.01574 AU
morning rise	-2247 Mar 24 j 10:36	4°♓49'02	
retrograde	-2247 Aug 02 j 12:10	24°♓54'33	
min. Earth dist.	-2247 Sep 29 j 18:59	20°♓00'16	4.05582 AU
opposition	-2247 Oct 01 j 03:19	19°♓49'15	-1°46'47
direct	-2247 Nov 28 j 07:09	14°♓51'31	
	-2246 Mar 16 j 18:22	0°♈	
evening set	-2246 Apr 03 j 09:29	3°♈59'46	
conjunction	-2246 Apr 17 j 02:57	7°♈09'48	-0°59'44
minimum elong	-2246 Apr 17 j 03:00	7°♈09'50	0°59'43
max. Earth dist.	-2246 Apr 19 j 02:01	7°♈37'00	6.10653 AU

morning rise	-2246 Apr 30 j 21:55	10°♈20'20	
retrograde	-2246 Sep 05 j 21:26	29°♈30'38	
min. Earth dist.	-2246 Nov 03 j 07:44	24°♈35'09	4.16561 AU
opposition	-2246 Nov 04 j 08:49	24°♈26'37	-1°03'01
direct	-2245 Jan 02 j 12:20	19°♈25'46	
	-2245 Apr 01 j 13:39	0°♉	
evening set	-2245 May 09 j 08:50	8°♉05'31	
conjunction	-2245 May 23 j 03:04	11°♉10'40	-0°22'14
minimum elong	-2245 May 23 j 03:06	11°♉10'41	0°22'12
max. Earth dist.	-2245 May 24 j 09:53	11°♉27'58	6.22692 AU
morning rise	-2245 Jun 05 j 20:25	14°♉15'11	
	-2245 Jun 09 j 05:03	15°♉	
	-2245 Aug 30 j 02:46	0°♊	
retrograde	-2245 Oct 08 j 06:16	2°♊23'15	
	-2245 Nov 16 j 06:14	30°℞♉	
opposition	-2245 Dec 06 j 20:30	27°♉22'39	-0°00'56
min. Earth dist.	-2245 Dec 06 j 08:40	27°♉26'38	4.28471 AU
asc. node	-2245 Dec 12 j 14:35	26°♉36'32	
direct	-2244 Feb 05 j 06:10	22°♉19'48	
	-2244 Apr 20 j 19:23	0°♊	
evening set	-2244 Jun 11 j 16:25	10°♊31'37	
conjunction	-2244 Jun 25 j 05:25	13°♊30'04	0°21'01
minimum elong	-2244 Jun 25 j 05:23	13°♊30'03	0°21'04
max. Earth dist.	-2244 Jun 25 j 08:47	13°♊31'55	6.33602 AU
morning rise	-2244 Jul 08 j 16:09	16°♊27'11	
	-2244 Sep 17 j 23:33	0°♋	
retrograde	-2244 Nov 07 j 08:23	3°♋47'30	
	-2244 Dec 28 j 08:09	30°℞♊	
opposition	-2243 Jan 06 j 04:16	28°♊50'51	0°58'31
min. Earth dist.	-2243 Jan 06 j 10:17	28°♊48'52	4.37580 AU
direct	-2243 Mar 08 j 20:28	23°♊47'16	
	-2243 May 15 j 22:09	0°♋	
evening set	-2243 Jul 14 j 08:36	11°♋40'07	
conjunction	-2243 Jul 27 j 13:18	14°♋32'24	0°56'50
minimum elong	-2243 Jul 27 j 13:15	14°♋32'23	0°56'53
max. Earth dist.	-2243 Jul 26 j 16:47	14°♋21'13	6.40183 AU
morning rise	-2243 Aug 09 j 14:40	17°♋23'03	
	-2243 Oct 14 j 12:30	0°♌	
retrograde	-2243 Dec 07 j 21:00	4°♌20'01	
	-2242 Feb 01 j 19:27	30°℞♋	
opposition	-2242 Feb 06 j 02:59	29°♋26'34	1°39'55
min. Earth dist.	-2242 Feb 06 j 23:29	29°♋19'56	4.41353 AU
direct	-2242 Apr 09 j 13:49	24°♋23'39	
	-2242 Jun 13 j 07:28	0°♌	
evening set	-2242 Aug 14 j 20:03	12°♌09'57	
max. Earth dist.	-2242 Aug 26 j 01:27	14°♌37'12	6.40753 AU
conjunction	-2242 Aug 27 j 16:13	14°♌58'28	1°16'16
minimum elong	-2242 Aug 27 j 16:12	14°♌58'28	1°16'18
	-2242 Aug 27 j 19:01	15°♌	
morning rise	-2242 Sep 09 j 09:29	17°♌45'37	
	-2242 Nov 11 j 10:34	0°♍	
retrograde	-2241 Jan 07 j 22:19	4°♍46'04	
	-2241 Mar 08 j 19:09	30°℞♌	
opposition	-2241 Mar 09 j 12:48	29°♌54'22	1°53'51
min. Earth dist.	-2241 Mar 10 j 20:15	29°♌44'19	4.38810 AU
direct	-2241 May 11 j 05:32	24°♌53'13	
	-2241 Jul 11 j 11:32	0°♍	
evening set	-2241 Sep 14 j 18:47	12°♍45'49	
max. Earth dist.	-2241 Sep 25 j 11:27	15°♍08'29	6.35198 AU
conjunction	-2241 Sep 27 j 09:41	15°♍34'16	1°14'32
minimum elong	-2241 Sep 27 j 09:42	15°♍34'17	1°14'33
morning rise	-2241 Oct 09 j 22:38	18°♍21'55	

Attention, astronomical year style is used: The year -2241 in astronomical counting style is the year 2242 BCE in historical counting style.

	-2241 Dec 06 j 19:44	0°♎	
retrograde	-2240 Feb 09 j 04:26	5°♎51'19	
opposition	-2240 Apr 10 j 02:32	0°♎59'30	1°35'54
min. Earth dist.	-2240 Apr 11 j 10:35	0°♎49'18	4.30590 AU
	-2240 Apr 17 j 22:46	30°℞♍	
direct	-2240 Jun 11 j 06:45	26°♍00'55	
	-2240 Aug 03 j 03:56	0°♎	
evening set	-2240 Oct 15 j 00:34	14°♎11'31	
max. Earth dist.	-2240 Oct 25 j 23:02	16°♎41'05	6.24982 AU
conjunction	-2240 Oct 27 j 14:29	17°♎03'39	0°51'03
minimum elong	-2240 Oct 27 j 14:32	17°♎03'40	0°51'02
morning rise	-2240 Nov 09 j 03:45	19°♎55'42	
	-2240 Dec 26 j 13:54	0°♏	
retrograde	-2239 Mar 14 j 08:28	8°♏14'57	
opposition	-2239 May 14 j 08:21	3°♏21'24	0°47'50
min. Earth dist.	-2239 May 15 j 08:22	3°♏13'43	4.18953 AU
	-2239 Jun 12 j 06:23	30°℞♎	
direct	-2239 Jul 14 j 11:24	28°♎25'42	
	-2239 Aug 15 j 08:57	0°♏	
	-2239 Nov 07 j 13:36	15°♏	
evening set	-2239 Nov 16 j 09:23	17°♏02'23	
max. Earth dist.	-2239 Nov 28 j 03:23	19°♏47'27	6.12994 AU
conjunction	-2239 Nov 29 j 02:02	20°♏00'44	0°10'43
minimum elong	-2239 Nov 29 j 02:03	20°♏00'44	0°10'41
behind sun begin	-2239 Nov 28 j 19:48	19°♏57'06	
behind sun end	-2239 Nov 29 j 08:17	20°♏04'23	
morning rise	-2239 Dec 11 j 20:00	22°♏59'57	
	-2238 Jan 11 j 21:25	0°♐	
desc. node	-2238 Mar 01 j 15:17	8°♐47'17	
retrograde	-2238 Apr 19 j 10:47	12°♐19'18	
opposition	-2238 Jun 19 j 06:51	7°♐22'28	-0°19'02
min. Earth dist.	-2238 Jun 19 j 12:23	7°♐20'40	4.07508 AU
direct	-2238 Aug 17 j 23:50	2°♐28'53	
evening set	-2238 Dec 20 j 12:26	21°♐33'12	
conjunction	-2237 Jan 02 j 10:49	24°♐38'17	-0°34'50
minimum elong	-2237 Jan 02 j 10:47	24°♐38'15	0°34'53
max. Earth dist.	-2237 Jan 02 j 16:37	24°♐41'45	6.03167 AU
morning rise	-2237 Jan 15 j 11:40	27°♐44'51	
	-2237 Jan 25 j 01:10	0°♑	
retrograde	-2237 May 26 j 22:27	17°♑54'26	
opposition	-2237 Jul 26 j 07:30	12°♑53'37	-1°21'55
min. Earth dist.	-2237 Jul 25 j 18:02	12°♑58'06	4.00317 AU
direct	-2237 Sep 22 j 20:07	8°♑00'24	
evening set	-2236 Jan 25 j 11:36	27°♑23'28	
	-2236 Feb 05 j 09:21	0°♒	
conjunction	-2236 Feb 07 j 17:02	0°♒33'22	-1°08'32
minimum elong	-2236 Feb 07 j 16:59	0°♒33'21	1°08'35
max. Earth dist.	-2236 Feb 09 j 01:48	0°♒53'00	5.99186 AU
morning rise	-2236 Feb 21 j 01:49	3°♒45'02	
	-2236 Apr 11 j 19:39	15°♒	
retrograde	-2236 Jul 02 j 08:12	24°♒11'07	
min. Earth dist.	-2236 Aug 30 j 02:09	19°♒16'42	4.00163 AU
opposition	-2236 Aug 31 j 06:48	19°♒07'00	-1°54'15
	-2236 Oct 06 j 15:06	15°℞♒	
direct	-2236 Oct 28 j 05:28	14°♒12'00	
	-2236 Nov 18 j 21:56	15°♒	
	-2235 Feb 15 j 02:35	0°♓	
evening set	-2235 Mar 02 j 13:12	3°♓35'10	
conjunction	-2235 Mar 16 j 01:59	6°♓46'41	-1°16'10
minimum elong	-2235 Mar 16 j 02:00	6°♓46'42	1°16'11
max. Earth dist.	-2235 Mar 18 j 02:25	7°♓15'17	6.02733 AU
morning rise	-2235 Mar 29 j 17:39	9°♓59'32	
retrograde	-2235 Aug 07 j 10:45	29°♓58'12	
min. Earth dist.	-2235 Oct 04 j 17:53	25°♓03'34	4.07057 AU
opposition	-2235 Oct 06 j 01:03	24°♓52'55	-1°42'33
direct	-2235 Dec 03 j 08:15	19°♓54'44	
	-2234 Feb 26 j 08:24	0°♈	
evening set	-2234 Apr 08 j 11:59	8°♈58'58	
conjunction	-2234 Apr 22 j 06:00	12°♈08'29	-0°55'23
minimum elong	-2234 Apr 22 j 06:03	12°♈08'31	0°55'21
max. Earth dist.	-2234 Apr 24 j 04:35	12°♈35'17	6.12340 AU
morning rise	-2234 May 06 j 00:58	15°♈18'17	
	-2234 Jul 18 j 22:03	0°♉	
retrograde	-2234 Sep 10 j 12:15	4°♉19'33	
	-2234 Nov 03 j 13:55	30°℞♈	
opposition	-2234 Nov 08 j 23:53	29°♈16'00	-0°54'53
min. Earth dist.	-2234 Nov 08 j 00:07	29°♈24'04	4.18285 AU
direct	-2233 Jan 07 j 06:35	24°♈14'51	
	-2233 Mar 11 j 08:29	0°♉	
evening set	-2233 May 14 j 06:22	12°♉50'30	
	-2233 May 23 j 22:15	15°♉	
conjunction	-2233 May 28 j 00:03	15°♉54'46	-0°16'12
minimum elong	-2233 May 28 j 00:04	15°♉54'47	0°16'09
max. Earth dist.	-2233 May 29 j 01:39	16°♉09'06	6.24323 AU
morning rise	-2233 Jun 10 j 16:56	18°♉58'22	
	-2233 Aug 03 j 13:52	0°♊	
retrograde	-2233 Oct 12 j 16:20	6°♊58'55	
asc. node	-2233 Oct 22 j 12:21	6°♊49'16	
opposition	-2233 Dec 11 j 06:59	1°♊58'52	0°07'59
min. Earth dist.	-2233 Dec 10 j 22:16	2°♊01'47	4.29872 AU
	-2233 Dec 26 j 12:32	30°℞♉	
direct	-2232 Feb 09 j 21:42	26°♉55'48	
	-2232 Mar 26 j 16:07	0°♊	
evening set	-2232 Jun 16 j 08:14	15°♊04'46	
conjunction	-2232 Jun 29 j 20:24	18°♊02'24	0°26'44
minimum elong	-2232 Jun 29 j 20:22	18°♊02'22	0°26'47
max. Earth dist.	-2232 Jun 29 j 21:19	18°♊02'53	6.34676 AU
morning rise	-2232 Jul 13 j 05:48	20°♊58'34	
	-2232 Aug 26 j 04:25	0°♋	
retrograde	-2232 Nov 11 j 14:47	8°♋14'43	
opposition	-2231 Jan 10 j 12:44	3°♋18'35	1°05'42
min. Earth dist.	-2231 Jan 10 j 20:18	3°♋16'06	4.38270 AU
	-2231 Feb 07 j 03:14	30°℞♊	
direct	-2231 Mar 13 j 07:27	28°♊15'04	
	-2231 Apr 16 j 21:56	0°♋	
evening set	-2231 Jul 18 j 20:30	16°♋06'55	
conjunction	-2231 Jul 31 j 23:49	18°♋58'34	1°00'42
minimum elong	-2231 Jul 31 j 23:46	18°♋58'32	1°00'45
max. Earth dist.	-2231 Jul 30 j 23:02	18°♋45'02	6.40424 AU
morning rise	-2231 Aug 14 j 00:05	21°♋48'39	
	-2231 Sep 22 j 18:50	0°♌	
retrograde	-2231 Dec 12 j 06:20	8°♌45'14	
opposition	-2230 Feb 10 j 12:36	3°♌52'09	1°43'42
min. Earth dist.	-2230 Feb 11 j 11:49	3°♌44'40	4.41156 AU
	-2230 Mar 16 j 21:33	30°℞♋	
direct	-2230 Apr 14 j 02:07	28°♋49'25	
	-2230 May 12 j 10:43	0°♌	
	-2230 Aug 11 j 19:24	15°♌	
evening set	-2230 Aug 19 j 05:46	16°♌36'35	
max. Earth dist.	-2230 Aug 30 j 09:10	19°♌03'01	6.40128 AU
conjunction	-2230 Sep 01 j 01:09	19°♌24'59	1°17'22
minimum elong	-2230 Sep 01 j 01:08	19°♌24'59	1°17'23
morning rise	-2230 Sep 13 j 17:30	22°♌12'02	
	-2230 Oct 21 j 03:57	0°♍	

Attention, astronomical year style is used: The year -2229 in astronomical counting style is the year 2230 BCE in historical counting style.

retrograde	-2229 Jan 12 j 09:20	9°♍15'39		
opposition	-2229 Mar 14 j 01:55	4°♍24'01	1°53'16	
min. Earth dist.	-2229 Mar 15 j 08:51	4°♍14'09	4.37830 AU	
	-2229 Apr 25 j 11:53	30°℞♌		
direct	-2229 May 15 j 16:54	29°♌23'15		
	-2229 Jun 05 j 00:58	0°♍		
evening set	-2229 Sep 19 j 04:47	17°♍18'04		
max. Earth dist.	-2229 Sep 29 j 22:20	19°♍41'42	6.33956 AU	
conjunction	-2229 Oct 01 j 19:16	20°♍06'51	1°12'28	
minimum elong	-2229 Oct 01 j 19:17	20°♍06'52	1°12'28	
morning rise	-2229 Oct 14 j 07:57	22°♍54'54		
	-2229 Nov 16 j 10:23	0°♎		
retrograde	-2228 Feb 13 j 22:47	10°♎30'12		
opposition	-2228 Apr 14 j 21:10	5°♎38'15	1°30'44	
min. Earth dist.	-2228 Apr 16 j 05:03	5°♎28'07	4.29161 AU	
direct	-2228 Jun 15 j 23:40	0°♎40'06		
evening set	-2228 Oct 19 j 13:04	18°♎53'28		
max. Earth dist.	-2228 Oct 30 j 12:59	21°♎24'25	6.23501 AU	
conjunction	-2228 Nov 01 j 03:04	21°♎46'15	0°46'09	
minimum elong	-2228 Nov 01 j 03:06	21°♎46'17	0°46'08	
morning rise	-2228 Nov 13 j 16:50	24°♎39'08		
	-2228 Dec 07 j 16:57	0°♏		
retrograde	-2227 Mar 19 j 07:09	13°♏05'39		
opposition	-2227 May 19 j 08:08	8°♏11'38	0°39'06	
min. Earth dist.	-2227 May 20 j 04:48	8°♏05'01	4.17528 AU	
direct	-2227 Jul 19 j 06:18	3°♏16'17		
	-2227 Oct 21 j 07:16	15°♏		
evening set	-2227 Nov 21 j 02:16	21°♏55'42		
conjunction	-2227 Dec 03 j 19:34	24°♏54'49	0°04'18	
minimum elong	-2227 Dec 03 j 19:35	24°♏54'50	0°04'15	
behind sun begin	-2227 Dec 03 j 11:41	24°♏50'13		
behind sun end	-2227 Dec 04 j 03:29	24°♏59'27		
max. Earth dist.	-2227 Dec 03 j 01:55	24°♏44'27	6.11764 AU	
morning rise	-2227 Dec 16 j 14:11	27°♏54'53		
	-2227 Dec 25 j 13:43	0°♐		
desc. node	-2226 Jan 09 j 10:27	3°♐21'39		
retrograde	-2226 Apr 24 j 16:07	17°♐20'46		
opposition	-2226 Jun 24 j 10:20	12°♐23'22	-0°28'40	
min. Earth dist.	-2226 Jun 24 j 13:58	12°♐22'11	4.06573 AU	
direct	-2226 Aug 23 j 00:11	7°♐29'55		
evening set	-2226 Dec 25 j 10:17	26°♐35'58		
conjunction	-2225 Jan 07 j 09:25	29°♐41'37	-0°40'36	
minimum elong	-2225 Jan 07 j 09:22	29°♐41'35	0°40'39	
max. Earth dist.	-2225 Jan 07 j 18:22	29°♐46'58	6.02596 AU	
	-2225 Jan 08 j 16:10	0°♑		
morning rise	-2225 Jan 20 j 11:22	2°♑48'52		
retrograde	-2225 Jun 01 j 01:58	23°♑01'31		
opposition	-2225 Jul 31 j 11:03	18°♑00'10	-1°28'39	
min. Earth dist.	-2225 Jul 30 j 18:23	18°♑05'42	4.00198 AU	
direct	-2225 Sep 27 j 20:09	13°♑06'47		
	-2224 Jan 19 j 23:26	0°♒		
evening set	-2224 Jan 30 j 13:10	2°♒29'46		
conjunction	-2224 Feb 12 j 19:31	5°♒39'56	-1°11'19	
minimum elong	-2224 Feb 12 j 19:29	5°♒39'54	1°11'21	
max. Earth dist.	-2224 Feb 14 j 06:31	6°♒00'52	5.99499 AU	
morning rise	-2224 Feb 26 j 05:13	8°♒51'49		
	-2224 Mar 23 j 18:29	15°♒		
retrograde	-2224 Jul 07 j 09:29	29°♒15'49		
min. Earth dist.	-2224 Sep 04 j 02:02	24°♒21'09	4.00879 AU	
opposition	-2224 Sep 05 j 06:52	24°♒11'22	-1°55'15	
direct	-2224 Nov 02 j 06:38	19°♒15'55		
	-2223 Jan 28 j 06:01	0°♓		
evening set	-2223 Mar 07 j 15:31	8°♓37'06		
conjunction	-2223 Mar 21 j 05:19	11°♓48'33	-1°14'52	
minimum elong	-2223 Mar 21 j 05:20	11°♓48'34	1°14'53	
max. Earth dist.	-2223 Mar 23 j 07:07	12°♓17'52	6.03787 AU	
morning rise	-2223 Apr 03 j 21:34	15°♓01'11		
	-2223 Jun 16 j 00:46	0°♈		
retrograde	-2223 Aug 12 j 06:26	4°♈53'20		
	-2223 Oct 09 j 08:53	30°℞♓		
opposition	-2223 Oct 10 j 19:29	29°♓48'12	-1°37'44	
min. Earth dist.	-2223 Oct 09 j 13:00	29°♓58'36	4.08342 AU	
direct	-2223 Dec 08 j 04:14	24°♓49'37		
	-2222 Feb 04 j 13:19	0°♈		
evening set	-2222 Apr 13 j 12:03	13°♈50'47		
conjunction	-2222 Apr 27 j 06:15	16°♈59'49	-0°50'46	
minimum elong	-2222 Apr 27 j 06:19	16°♈59'51	0°50'45	
max. Earth dist.	-2222 Apr 29 j 01:03	17°♈24'21	6.13742 AU	
morning rise	-2222 May 11 j 01:30	20°♈09'04		
	-2222 Jun 26 j 03:02	0°♉		
retrograde	-2222 Sep 15 j 01:04	9°♉02'41		
opposition	-2222 Nov 13 j 13:07	3°♉59'31	-0°46'39	
min. Earth dist.	-2222 Nov 12 j 15:20	4°♉06'55	4.19670 AU	
	-2222 Dec 17 j 20:42	30°℞♈		
direct	-2221 Jan 11 j 23:51	28°♈58'02		
	-2221 Feb 06 j 10:40	0°♉		
	-2221 May 07 j 15:54	15°♉		
evening set	-2221 May 19 j 02:00	17°♉30'49		
conjunction	-2221 Jun 01 j 19:25	20°♉34'24	-0°10'11	
minimum elong	-2221 Jun 01 j 19:26	20°♉34'25	0°10'08	
behind sun begin	-2221 Jun 01 j 12:51	20°♉30'45		
behind sun end	-2221 Jun 02 j 02:01	20°♉38'04		
max. Earth dist.	-2221 Jun 02 j 18:52	20°♉47'30	6.25614 AU	
morning rise	-2221 Jun 15 j 11:25	23°♉37'07		
	-2221 Jul 15 j 05:18	0°♊		
asc. node	-2221 Sep 02 j 01:32	8°♊25'28		
retrograde	-2221 Oct 17 j 01:47	11°♊31'32		
opposition	-2221 Dec 15 j 16:43	6°♊32'05	0°16'42	
min. Earth dist.	-2221 Dec 15 j 09:57	6°♊34'21	4.30974 AU	
direct	-2220 Feb 14 j 11:16	1°♊28'58		
evening set	-2220 Jun 20 j 23:39	19°♊36'01		
conjunction	-2220 Jul 04 j 10:37	22°♊32'50	0°32'14	
minimum elong	-2220 Jul 04 j 10:34	22°♊32'49	0°32'17	
max. Earth dist.	-2220 Jul 04 j 06:48	22°♊30'45	6.35504 AU	
morning rise	-2220 Jul 17 j 18:59	25°♊28'13		
	-2220 Aug 08 j 00:06	0°♋		
retrograde	-2220 Nov 15 j 22:52	12°♋41'01		
opposition	-2219 Jan 14 j 21:20	7°♋45'23	1°12'27	
min. Earth dist.	-2219 Jan 15 j 07:26	7°♋42'04	4.38800 AU	
direct	-2219 Mar 17 j 19:40	2°♋41'53		
evening set	-2219 Jul 23 j 07:58	20°♋33'03		
max. Earth dist.	-2219 Aug 04 j 08:33	23°♋10'06	6.40612 AU	
conjunction	-2219 Aug 05 j 10:15	23°♋24'09	1°04'12	
minimum elong	-2219 Aug 05 j 10:13	23°♋24'07	1°04'14	
morning rise	-2219 Aug 18 j 09:08	26°♋13'38		
	-2219 Sep 05 j 01:06	0°♌		
retrograde	-2219 Dec 16 j 13:42	13°♌09'59		
opposition	-2218 Feb 14 j 22:19	8°♌17'11	1°46'52	
min. Earth dist.	-2218 Feb 15 j 21:58	8°♌09'35	4.41011 AU	
direct	-2218 Apr 18 j 12:15	3°♌14'44		
	-2218 Jul 26 j 00:45	15°♌		
evening set	-2218 Aug 23 j 14:58	21°♌02'15		
max. Earth dist.	-2218 Sep 03 j 15:29	23°♌27'25	6.39634 AU	

Attention, astronomical year style is used: The year -2218 in astronomical counting style is the year 2219 BCE in historical counting style.

conjunction	-2218 Sep 05 j 09:15	23°♌50'26	1°17'59
minimum elong	-2218 Sep 05 j 09:15	23°♌50'25	1°18'01
morning rise	-2218 Sep 18 j 00:57	26°♌37'22	
	-2218 Oct 03 j 16:06	0°♍	
retrograde	-2217 Jan 16 j 21:56	13°♍43'47	
opposition	-2217 Mar 18 j 14:56	8°♍52'13	1°51'59
min. Earth dist.	-2217 Mar 19 j 23:15	8°♍41'55	4.36997 AU
direct	-2217 May 20 j 06:22	3°♍51'44	
evening set	-2217 Sep 23 j 13:40	21°♍48'06	
max. Earth dist.	-2217 Oct 04 j 07:22	24°♍12'13	6.32830 AU
conjunction	-2217 Oct 06 j 03:54	24°♍37'12	1°09'58
minimum elong	-2217 Oct 06 j 03:56	24°♍37'13	1°09'57
morning rise	-2217 Oct 18 j 16:25	27°♍25'39	
	-2217 Oct 30 j 07:30	0°♎	
retrograde	-2216 Feb 18 j 14:14	15°♎06'33	
opposition	-2216 Apr 19 j 14:31	10°♎14'23	1°25'01
min. Earth dist.	-2216 Apr 20 j 20:37	10°♎04'48	4.27791 AU
direct	-2216 Jun 20 j 13:03	5°♎16'38	
evening set	-2216 Oct 24 j 00:29	23°♎32'51	
max. Earth dist.	-2216 Nov 04 j 03:08	26°♎05'52	6.21997 AU
conjunction	-2216 Nov 05 j 14:43	26°♎26'21	0°40'59
minimum elong	-2216 Nov 05 j 14:45	26°♎26'22	0°40'58
morning rise	-2216 Nov 18 j 04:53	29°♎20'04	
	-2216 Nov 21 j 02:50	0°♏	
	-2215 Feb 08 j 02:27	15°♏	
retrograde	-2215 Mar 24 j 07:49	17°♏54'16	
	-2215 May 08 j 04:38	15°℞♏	
opposition	-2215 May 24 j 07:04	12°♏59'53	0°30'07
min. Earth dist.	-2215 May 25 j 02:50	12°♏53'32	4.15964 AU
direct	-2215 Jul 24 j 01:48	8°♏04'50	
	-2215 Oct 01 j 12:52	15°♏	
desc. node	-2215 Nov 19 j 06:55	25°♏17'14	
evening set	-2215 Nov 25 j 18:31	26°♏47'52	
conjunction	-2215 Dec 08 j 12:30	29°♏47'56	-0°02'17
minimum elong	-2215 Dec 08 j 12:30	29°♏47'56	0°02'20
behind sun begin	-2215 Dec 08 j 04:27	29°♏43'12	
behind sun end	-2215 Dec 08 j 20:33	29°♏52'39	
max. Earth dist.	-2215 Dec 07 j 21:20	29°♏39'00	6.10281 AU
	-2215 Dec 09 j 08:59	0°♐	
morning rise	-2215 Dec 21 j 08:06	2°♐49'03	
retrograde	-2214 Apr 29 j 19:12	22°♐22'38	
opposition	-2214 Jun 29 j 13:25	17°♐24'42	-0°38'09
min. Earth dist.	-2214 Jun 29 j 13:39	17°♐24'38	4.05316 AU
direct	-2214 Aug 27 j 21:29	12°♐31'24	
	-2214 Dec 23 j 06:35	0°♑	
evening set	-2214 Dec 30 j 09:04	1°♑40'51	
conjunction	-2213 Jan 12 j 09:07	4°♑47'18	-0°46'08
minimum elong	-2213 Jan 12 j 09:04	4°♑47'16	0°46'11
max. Earth dist.	-2213 Jan 12 j 21:41	4°♑54'50	6.01666 AU
morning rise	-2213 Jan 25 j 12:06	7°♑55'26	
retrograde	-2213 Jun 06 j 08:42	28°♑12'39	
opposition	-2213 Aug 05 j 15:31	23°♑10'46	-1°34'51
min. Earth dist.	-2213 Aug 04 j 21:19	23°♑16'50	3.99698 AU
direct	-2213 Oct 02 j 23:08	18°♑17'09	
	-2212 Jan 02 j 03:43	0°♒	
evening set	-2212 Feb 04 j 17:07	7°♒41'48	
conjunction	-2212 Feb 18 j 00:41	10°♒52'29	-1°13'36
minimum elong	-2212 Feb 18 j 00:39	10°♒52'28	1°13'37
max. Earth dist.	-2212 Feb 19 j 15:28	11°♒15'39	5.99469 AU
morning rise	-2212 Mar 02 j 11:24	14°♒04'50	
	-2212 Mar 06 j 08:45	15°♒	
	-2212 May 19 j 00:19	0°♓	
retrograde	-2212 Jul 12 j 14:01	4°♓27'39	
	-2212 Sep 05 j 19:48	30°℞♒	
min. Earth dist.	-2212 Sep 09 j 03:25	29°♒33'04	4.01340 AU
opposition	-2212 Sep 10 j 09:08	29°♒22'58	-1°55'23
direct	-2212 Nov 07 j 07:59	24°♒27'09	
	-2211 Jan 06 j 04:51	0°♓	
evening set	-2211 Mar 12 j 21:18	13°♓47'22	
conjunction	-2211 Mar 26 j 11:51	16°♓58'48	-1°12'57
minimum elong	-2211 Mar 26 j 11:53	16°♓58'49	1°12'57
max. Earth dist.	-2211 Mar 28 j 12:36	17°♓27'25	6.04678 AU
morning rise	-2211 Apr 09 j 05:03	20°♓11'21	
	-2211 May 23 j 20:17	0°♈	
retrograde	-2211 Aug 17 j 03:27	9°♈57'17	
min. Earth dist.	-2211 Oct 14 j 10:33	5°♈02'37	4.09566 AU
opposition	-2211 Oct 15 j 16:53	4°♈52'15	-1°32'04
	-2211 Dec 05 j 01:54	30°℞♓	
direct	-2211 Dec 13 j 04:16	29°♓53'14	
	-2211 Dec 21 j 07:49	0°♈	
evening set	-2210 Apr 18 j 15:30	18°♈51'24	
conjunction	-2210 May 02 j 10:08	21°♈59'57	-0°45'38
minimum elong	-2210 May 02 j 10:11	21°♈59'58	0°45'37
max. Earth dist.	-2210 May 04 j 04:11	22°♈23'58	6.15244 AU
morning rise	-2210 May 16 j 05:10	25°♈08'29	
	-2210 Jun 07 j 02:49	0°♉	
retrograde	-2210 Sep 19 j 18:00	13°♉53'41	
min. Earth dist.	-2210 Nov 17 j 09:06	8°♉57'49	4.21310 AU
opposition	-2210 Nov 18 j 05:11	8°♉51'02	-0°37'51
direct	-2209 Jan 16 j 20:40	3°♉49'18	
	-2209 Apr 19 j 18:24	15°♉	
evening set	-2209 May 24 j 00:33	22°♉18'01	
conjunction	-2209 Jun 06 j 17:14	25°♉20'37	-0°03'58
minimum elong	-2209 Jun 06 j 17:15	25°♉20'38	0°03'56
behind sun begin	-2209 Jun 06 j 09:02	25°♉16'05	
behind sun end	-2209 Jun 07 j 01:28	25°♉25'11	
max. Earth dist.	-2209 Jun 07 j 13:15	25°♉31'46	6.27297 AU
morning rise	-2209 Jun 20 j 08:30	28°♉22'17	
	-2209 Jun 27 j 18:25	0°♊	
asc. node	-2209 Jul 12 j 07:17	3°♊07'03	
retrograde	-2209 Oct 21 j 11:40	16°♊08'54	
opposition	-2209 Dec 20 j 04:14	11°♊09'58	0°25'25
min. Earth dist.	-2209 Dec 19 j 23:00	11°♊11'43	4.32594 AU
direct	-2208 Feb 19 j 03:08	6°♊06'41	
evening set	-2208 Jun 25 j 15:36	24°♊09'39	
conjunction	-2208 Jul 09 j 01:26	27°♊05'23	0°37'33
minimum elong	-2208 Jul 09 j 01:23	27°♊05'22	0°37'37
max. Earth dist.	-2208 Jul 08 j 19:48	27°♊02'18	6.36958 AU
morning rise	-2208 Jul 22 j 08:18	29°♊59'35	
	-2208 Jul 22 j 09:04	0°♋	
retrograde	-2208 Nov 20 j 05:44	17°♋06'56	
opposition	-2207 Jan 19 j 06:03	12°♋11'45	1°18'41
min. Earth dist.	-2207 Jan 19 j 17:49	12°♋07'55	4.39996 AU
direct	-2207 Mar 22 j 07:59	7°♋08'21	
evening set	-2207 Jul 27 j 18:04	24°♋56'12	
conjunction	-2207 Aug 09 j 18:53	27°♋46'25	1°07'16
minimum elong	-2207 Aug 09 j 18:50	27°♋46'23	1°07'18
max. Earth dist.	-2207 Aug 08 j 13:21	27°♋30'18	6.41436 AU
	-2207 Aug 20 j 00:01	0°♌	
morning rise	-2207 Aug 22 j 16:38	0°♌35'04	
	-2207 Nov 10 j 06:47	15°♌	
retrograde	-2207 Dec 20 j 20:16	17°♌29'15	
	-2206 Jan 30 j 18:55	15°℞♌	
opposition	-2206 Feb 19 j 06:16	12°♌36'41	1°49'17

Attention, astronomical year style is used: The year -2206 in astronomical counting style is the year 2207 BCE in historical counting style.

min. Earth dist.	-2206 Feb 20 j 08:05	12°♌28'23	4.41422 AU
direct	-2206 Apr 22 j 22:33	7°♌34'20	
	-2206 Jul 07 j 13:05	15°♌	
evening set	-2206 Aug 27 j 20:54	25°♌20'17	
max. Earth dist.	-2206 Sep 07 j 20:26	27°♌44'58	6.39586 AU
conjunction	-2206 Sep 09 j 14:28	28°♌08'08	1°18'07
minimum elong	-2206 Sep 09 j 14:28	28°♌08'08	1°18'09
	-2206 Sep 18 j 01:30	0°♍	
morning rise	-2206 Sep 22 j 05:13	0°♍54'45	
retrograde	-2205 Jan 21 j 04:42	18°♍02'41	
opposition	-2205 Mar 23 j 00:19	13°♍11'07	1°50'03
min. Earth dist.	-2205 Mar 24 j 08:44	13°♍00'47	4.36484 AU
direct	-2205 May 24 j 14:15	8°♍10'56	
evening set	-2205 Sep 27 j 18:37	26°♍07'56	
max. Earth dist.	-2205 Oct 08 j 10:58	28°♍31'41	6.31875 AU
conjunction	-2205 Oct 10 j 08:25	28°♍57'16	1°07'07
minimum elong	-2205 Oct 10 j 08:28	28°♍57'17	1°07'07
	-2205 Oct 14 j 23:53	0°♎	
morning rise	-2205 Oct 22 j 20:57	1°♎46'06	
retrograde	-2204 Feb 23 j 04:31	19°♎32'24	
opposition	-2204 Apr 24 j 04:11	14°♎40'02	1°18'58
min. Earth dist.	-2204 Apr 25 j 11:01	14°♎30'12	4.26417 AU
direct	-2204 Jun 25 j 00:39	9°♎42'32	
evening set	-2204 Oct 28 j 07:52	28°♎01'52	
	-2204 Nov 05 j 21:12	0°♏	
max. Earth dist.	-2204 Nov 08 j 11:55	0°♏36'13	6.20326 AU
conjunction	-2204 Nov 09 j 22:31	0°♏56'13	0°35'45
minimum elong	-2204 Nov 09 j 22:33	0°♏56'14	0°35'43
morning rise	-2204 Nov 22 j 13:14	3°♏50'52	
	-2203 Jan 14 j 03:44	15°♏	
retrograde	-2203 Mar 29 j 02:51	22°♏33'38	
opposition	-2203 May 29 j 02:12	17°♏38'51	0°21'14
min. Earth dist.	-2203 May 29 j 19:47	17°♏33'12	4.14114 AU
	-2203 Jun 19 j 20:18	15°℞♏	
direct	-2203 Jul 28 j 15:07	12°♏44'06	
	-2203 Sep 04 j 20:38	15°♏	
desc. node	-2203 Oct 01 j 01:38	18°♏47'51	
	-2203 Nov 23 j 18:25	0°♐	
evening set	-2203 Nov 30 j 08:19	1°♐32'18	
conjunction	-2203 Dec 13 j 03:02	4°♐33'29	-0°08'31
minimum elong	-2203 Dec 13 j 03:01	4°♐33'28	0°08'34
behind sun begin	-2203 Dec 12 j 19:58	4°♐29'19	
behind sun end	-2203 Dec 13 j 10:04	4°♐37'38	
max. Earth dist.	-2203 Dec 12 j 14:17	4°♐25'56	6.08418 AU
morning rise	-2203 Dec 25 j 23:37	7°♐35'51	
retrograde	-2202 May 04 j 22:35	27°♐18'55	
opposition	-2202 Jul 04 j 14:17	22°♐20'28	-0°47'09
min. Earth dist.	-2202 Jul 04 j 12:47	22°♐20'58	4.03603 AU
direct	-2202 Sep 01 j 18:31	17°♐27'14	
	-2202 Dec 06 j 07:13	0°♑	
evening set	-2201 Jan 04 j 06:53	6°♑42'11	
conjunction	-2201 Jan 17 j 08:09	9°♑49'48	-0°51'11
minimum elong	-2201 Jan 17 j 08:06	9°♑49'46	0°51'14
max. Earth dist.	-2201 Jan 18 j 01:08	9°♑59'59	6.00271 AU
morning rise	-2201 Jan 30 j 12:19	12°♑59'04	
	-2201 Apr 25 j 10:30	0°♒	
retrograde	-2201 Jun 11 j 16:08	3°♒22'34	
	-2201 Jul 29 j 03:51	30°℞♑	
opposition	-2201 Aug 10 j 19:36	28°♑20'16	-1°40'12
min. Earth dist.	-2201 Aug 09 j 23:12	28°♑27'05	3.98806 AU
direct	-2201 Oct 07 j 23:29	23°♑26'31	
	-2201 Dec 12 j 08:45	0°♒	

evening set	-2200 Feb 09 j 21:58	12°♒54'28	
	-2200 Feb 18 j 16:28	15°♒	
conjunction	-2200 Feb 23 j 06:34	16°♒05'49	-1°15'13
minimum elong	-2200 Feb 23 j 06:33	16°♒05'48	1°15'15
max. Earth dist.	-2200 Feb 24 j 23:05	16°♒30'01	5.99138 AU
morning rise	-2200 Mar 07 j 18:37	19°♒18'50	
	-2200 Apr 24 j 19:48	0°♓	
retrograde	-2200 Jul 17 j 17:29	9°♓41'22	
min. Earth dist.	-2200 Sep 14 j 04:27	4°♓47'08	4.01619 AU
opposition	-2200 Sep 15 j 11:57	4°♓36'25	-1°54'33
	-2200 Oct 29 j 15:51	30°℞♒	
direct	-2200 Nov 12 j 10:18	29°♒40'11	
	-2200 Nov 26 j 07:09	0°♓	
evening set	-2199 Mar 18 j 04:30	19°♓00'00	
conjunction	-2199 Mar 31 j 20:08	22°♓11'29	-1°10'23
minimum elong	-2199 Mar 31 j 20:11	22°♓11'31	1°10'23
max. Earth dist.	-2199 Apr 02 j 22:54	22°♓41'13	6.05549 AU
morning rise	-2199 Apr 14 j 13:50	25°♓23'54	
	-2199 May 04 j 18:40	0°♈	
retrograde	-2199 Aug 22 j 03:34	15°♈03'10	
min. Earth dist.	-2199 Oct 19 j 09:42	10°♈08'18	4.10895 AU
opposition	-2199 Oct 20 j 15:04	9°♈58'17	-1°25'37
direct	-2199 Dec 18 j 06:08	4°♈58'49	
evening set	-2198 Apr 23 j 19:52	23°♈53'21	
conjunction	-2198 May 07 j 14:34	27°♈01'13	-0°40'07
minimum elong	-2198 May 07 j 14:37	27°♈01'15	0°40'06
max. Earth dist.	-2198 May 09 j 06:56	27°♈24'11	6.16896 AU
	-2198 May 20 j 17:40	0°♉	
morning rise	-2198 May 21 j 09:32	0°♉08'57	
	-2198 Aug 05 j 17:23	15°♉	
retrograde	-2198 Sep 24 j 08:46	18°♉45'02	
	-2198 Nov 13 j 06:26	15°℞♉	
opposition	-2198 Nov 22 j 21:20	13°♉42'46	-0°28'45
min. Earth dist.	-2198 Nov 22 j 02:03	13°♉49'17	4.23086 AU
direct	-2197 Jan 21 j 16:39	8°♉40'41	
	-2197 Mar 29 j 18:50	15°♉	
asc. node	-2197 May 20 j 17:24	25°♉16'48	
evening set	-2197 May 28 j 22:40	27°♉04'50	
conjunction	-2197 Jun 11 j 14:36	0°♊06'22	0°02'27
minimum elong	-2197 Jun 11 j 14:36	0°♊06'22	0°02'29
behind sun begin	-2197 Jun 11 j 06:18	0°♊01'48	
behind sun end	-2197 Jun 11 j 22:53	0°♊10'57	
	-2197 Jun 11 j 03:05	0°♊	
max. Earth dist.	-2197 Jun 12 j 07:16	0°♊15'37	6.29034 AU
morning rise	-2197 Jun 25 j 04:48	3°♊06'51	
retrograde	-2197 Oct 25 j 23:12	20°♊45'53	
opposition	-2197 Dec 24 j 15:48	15°♊47'30	0°34'02
min. Earth dist.	-2197 Dec 24 j 13:30	15°♊48'16	4.34119 AU
direct	-2196 Feb 23 j 19:52	10°♊44'07	
evening set	-2196 Jun 30 j 07:23	28°♊43'31	
	-2196 Jul 06 j 04:02	0°♋	
conjunction	-2196 Jul 13 j 15:56	1°♋38'14	0°42'44
minimum elong	-2196 Jul 13 j 15:53	1°♋38'13	0°42'47
max. Earth dist.	-2196 Jul 13 j 06:13	1°♋32'56	6.38122 AU
morning rise	-2196 Jul 26 j 21:30	4°♋31'25	
retrograde	-2196 Nov 24 j 13:17	21°♋34'41	
opposition	-2195 Jan 23 j 15:20	16°♋39'55	1°24'38
min. Earth dist.	-2195 Jan 24 j 05:11	16°♋35'24	4.40742 AU
direct	-2195 Mar 26 j 19:33	11°♋36'33	
evening set	-2195 Aug 01 j 05:00	29°♋22'54	
	-2195 Aug 04 j 01:30	0°♌	
max. Earth dist.	-2195 Aug 12 j 21:35	1°♌55'30	6.41695 AU

Attention, astronomical year style is used: The year -2195 in astronomical counting style is the year 2196 BCE in historical counting style.

conjunction	-2195 Aug 14 j 04:42	2°♌12'30	1°10'03
minimum elong	-2195 Aug 14 j 04:40	2°♌12'29	1°10'06
morning rise	-2195 Aug 27 j 01:08	5°♌00'33	
	-2195 Oct 15 j 17:53	15°♌	
retrograde	-2195 Dec 25 j 05:08	21°♌54'41	
opposition	-2194 Feb 23 j 16:35	17°♌02'25	1°51'16
min. Earth dist.	-2194 Feb 24 j 19:58	16°♌53'38	4.41187 AU
	-2194 Mar 12 j 01:42	15°℞♌	
direct	-2194 Apr 27 j 09:32	12°♌00'20	
	-2194 Jun 12 j 13:24	15°♌	
evening set	-2194 Sep 01 j 05:41	29°♌46'52	
	-2194 Sep 02 j 05:39	0°♍	
max. Earth dist.	-2194 Sep 12 j 01:31	2°♍09'53	6.38852 AU
conjunction	-2194 Sep 13 j 22:20	2°♍34'38	1°17'54
minimum elong	-2194 Sep 13 j 22:20	2°♍34'39	1°17'54
morning rise	-2194 Sep 26 j 12:38	5°♍21'20	
retrograde	-2193 Jan 25 j 18:53	22°♍33'16	
opposition	-2193 Mar 27 j 14:32	17°♍41'40	1°47'32
min. Earth dist.	-2193 Mar 28 j 23:54	17°♍31'03	4.35294 AU
direct	-2193 May 29 j 03:04	12°♍41'46	
	-2193 Sep 29 j 01:59	0°♎	
evening set	-2193 Oct 02 j 04:22	0°♎41'32	
max. Earth dist.	-2193 Oct 12 j 22:05	3°♎06'31	6.30333 AU
conjunction	-2193 Oct 14 j 18:12	3°♎31'26	1°03'47
minimum elong	-2193 Oct 14 j 18:15	3°♎31'28	1°03'47
morning rise	-2193 Oct 27 j 06:39	6°♎20'55	
retrograde	-2192 Feb 27 j 23:42	24°♎14'32	
opposition	-2192 Apr 29 j 00:04	19°♎21'57	1°12'08
min. Earth dist.	-2192 Apr 30 j 05:23	19°♎12'36	4.24619 AU
direct	-2192 Jun 29 j 15:52	14°♎24'53	
	-2192 Oct 20 j 13:44	0°♏	
evening set	-2192 Nov 01 j 22:06	2°♏48'34	
max. Earth dist.	-2192 Nov 13 j 04:02	5°♏24'43	6.18435 AU
conjunction	-2192 Nov 14 j 13:02	5°♏43'51	0°29'58
minimum elong	-2192 Nov 14 j 13:04	5°♏43'53	0°29'55
morning rise	-2192 Nov 27 j 04:31	8°♏39'38	
	-2192 Dec 25 j 12:14	15°♏	
retrograde	-2191 Apr 03 j 06:38	27°♏31'41	
opposition	-2191 Jun 03 j 04:50	22°♏36'26	0°11'36
min. Earth dist.	-2191 Jun 03 j 20:18	22°♏31'27	4.12264 AU
direct	-2191 Aug 02 j 13:29	17°♏41'59	
desc. node	-2191 Aug 09 j 20:57	17°♏47'12	
	-2191 Nov 06 j 08:52	0°♐	
evening set	-2191 Dec 05 j 05:00	6°♐34'56	
conjunction	-2191 Dec 18 j 00:41	9°♐37'13	-0°15'06
minimum elong	-2191 Dec 18 j 00:40	9°♐37'12	0°15'09
behind sun begin	-2191 Dec 17 j 21:39	9°♐35'25	
behind sun end	-2191 Dec 18 j 03:41	9°♐39'00	
max. Earth dist.	-2191 Dec 17 j 16:45	9°♐32'31	6.06808 AU
morning rise	-2191 Dec 30 j 22:14	12°♐40'45	
	-2190 Mar 30 j 12:04	0°♑	
retrograde	-2190 May 10 j 07:51	2°♑31'45	
	-2190 Jun 20 j 08:17	30°℞♐	
opposition	-2190 Jul 09 j 21:34	27°♐32'48	-0°56'20
min. Earth dist.	-2190 Jul 09 j 16:59	27°♐34'19	4.02430 AU
direct	-2190 Sep 06 j 21:16	22°♐39'42	
	-2190 Nov 15 j 23:08	0°♑	
evening set	-2189 Jan 09 j 10:45	11°♑57'45	
conjunction	-2189 Jan 22 j 12:53	15°♑06'03	-0°56'07
minimum elong	-2189 Jan 22 j 12:49	15°♑06'01	0°56'09
max. Earth dist.	-2189 Jan 23 j 09:01	15°♑18'08	5.99641 AU
morning rise	-2189 Feb 04 j 18:17	18°♑16'06	
	-2189 Mar 29 j 20:41	0°♒	
retrograde	-2189 Jun 16 j 23:38	8°♒42'02	
min. Earth dist.	-2189 Aug 15 j 03:21	3°♒47'03	3.98831 AU
opposition	-2189 Aug 16 j 02:48	3°♒39'10	-1°44'57
	-2189 Sep 15 j 23:08	30°℞♑	
direct	-2189 Oct 13 j 04:30	28°♑45'09	
	-2189 Nov 09 j 09:10	0°♒	
	-2188 Feb 01 j 13:11	15°♒	
evening set	-2188 Feb 15 j 05:27	18°♒12'42	
conjunction	-2188 Feb 28 j 15:14	21°♒24'12	-1°16'20
minimum elong	-2188 Feb 28 j 15:14	21°♒24'12	1°16'22
max. Earth dist.	-2188 Mar 01 j 11:55	21°♒50'51	5.99814 AU
morning rise	-2188 Mar 13 j 04:03	24°♒37'16	
	-2188 Apr 05 j 10:26	0°♓	
retrograde	-2188 Jul 22 j 21:53	14°♓54'50	
min. Earth dist.	-2188 Sep 19 j 07:11	10°♓00'21	4.02868 AU
opposition	-2188 Sep 20 j 14:31	9°♓49'40	-1°52'48
direct	-2188 Nov 17 j 15:20	4°♓52'58	
evening set	-2187 Mar 23 j 10:32	24°♓08'45	
conjunction	-2187 Apr 06 j 02:45	27°♓19'46	-1°07'22
minimum elong	-2187 Apr 06 j 02:48	27°♓19'47	1°07'22
max. Earth dist.	-2187 Apr 08 j 05:16	27°♓49'11	6.07236 AU
	-2187 Apr 17 j 14:24	0°♈	
morning rise	-2187 Apr 19 j 21:00	0°♈31'35	
retrograde	-2187 Aug 26 j 21:39	20°♈01'11	
min. Earth dist.	-2187 Oct 24 j 04:57	15°♈06'27	4.12831 AU
opposition	-2187 Oct 25 j 10:08	14°♈56'30	-1°18'43
direct	-2187 Dec 23 j 04:17	9°♈56'35	
evening set	-2186 Apr 28 j 20:32	28°♈45'42	
	-2186 May 04 j 08:14	0°♉	
conjunction	-2186 May 12 j 15:05	1°♉52'37	-0°34'31
minimum elong	-2186 May 12 j 15:08	1°♉52'39	0°34'29
max. Earth dist.	-2186 May 14 j 03:38	2°♉13'20	6.18920 AU
morning rise	-2186 May 26 j 09:39	4°♉59'17	
	-2186 Jul 12 j 23:44	15°♉	
retrograde	-2186 Sep 28 j 21:35	23°♉25'40	
opposition	-2186 Nov 27 j 09:45	18°♉23'53	-0°19'49
min. Earth dist.	-2186 Nov 26 j 17:46	18°♉29'17	4.24988 AU
	-2186 Dec 25 j 05:34	15°℞♉	
direct	-2185 Jan 26 j 10:51	13°♉21'30	
	-2185 Feb 28 j 01:36	15°♉	
asc. node	-2185 Mar 30 j 13:42	18°♉59'57	
	-2185 May 25 j 23:42	0°♊	
evening set	-2185 Jun 02 j 16:40	1°♊41'03	
conjunction	-2185 Jun 16 j 07:52	4°♊41'35	0°08'30
minimum elong	-2185 Jun 16 j 07:51	4°♊41'34	0°08'33
behind sun begin	-2185 Jun 16 j 00:40	4°♊37'37	
behind sun end	-2185 Jun 16 j 15:02	4°♊45'31	
max. Earth dist.	-2185 Jun 16 j 20:57	4°♊48'48	6.30668 AU
morning rise	-2185 Jun 29 j 20:57	7°♊40'56	
retrograde	-2185 Oct 30 j 05:12	25°♊13'17	
opposition	-2185 Dec 28 j 23:55	20°♊15'27	0°42'09
min. Earth dist.	-2185 Dec 28 j 23:32	20°♊15'35	4.35377 AU
direct	-2184 Feb 28 j 06:44	15°♊11'58	
	-2184 Jun 20 j 02:30	0°♋	
evening set	-2184 Jul 04 j 19:49	3°♋08'57	
conjunction	-2184 Jul 18 j 03:06	6°♋02'52	0°47'30
minimum elong	-2184 Jul 18 j 03:03	6°♋02'50	0°47'33
max. Earth dist.	-2184 Jul 17 j 13:09	5°♋55'14	6.38904 AU
morning rise	-2184 Jul 31 j 07:24	8°♋55'12	
retrograde	-2184 Nov 28 j 20:53	25°♋56'05	
opposition	-2183 Jan 27 j 22:58	21°♋01'49	1°29'58

Attention, astronomical year style is used: The year -2183 in astronomical counting style is the year 2184 BCE in historical counting style.

min. Earth dist.	-2183 Jan 28 j 15:59	20°♋56'17	4.41014 AU
direct	-2183 Mar 31 j 06:19	15°♋58'35	
	-2183 Jul 18 j 23:55	0°♌	
evening set	-2183 Aug 05 j 14:06	3°♌44'56	
max. Earth dist.	-2183 Aug 17 j 02:05	6°♌15'17	6.41412 AU
conjunction	-2183 Aug 18 j 12:42	6°♌34'12	1°12'24
minimum elong	-2183 Aug 18 j 12:40	6°♌34'11	1°12'27
morning rise	-2183 Aug 31 j 08:10	9°♌21'58	
	-2183 Sep 27 j 00:24	15°♌	
retrograde	-2183 Dec 29 j 14:20	26°♌18'03	
opposition	-2182 Feb 28 j 02:41	21°♌25'59	1°52'39
min. Earth dist.	-2182 Mar 01 j 07:12	21°♌16'50	4.40404 AU
direct	-2182 May 01 j 18:58	16°♌24'10	
	-2182 Aug 17 j 00:17	0°♍	
evening set	-2182 Sep 05 j 14:24	4°♍13'05	
max. Earth dist.	-2182 Sep 16 j 10:10	6°♍36'29	6.37630 AU
conjunction	-2182 Sep 18 j 06:33	7°♍01'06	1°17'12
minimum elong	-2182 Sep 18 j 06:34	7°♍01'06	1°17'13
morning rise	-2182 Sep 30 j 20:14	9°♍48'04	
retrograde	-2181 Jan 30 j 09:45	27°♍05'40	
opposition	-2181 Apr 01 j 05:54	22°♍14'07	1°44'20
min. Earth dist.	-2181 Apr 02 j 15:18	22°♍03'29	4.33716 AU
direct	-2181 Jun 02 j 15:51	17°♍14'42	
	-2181 Sep 12 j 09:33	0°♎	
evening set	-2181 Oct 06 j 15:31	5°♎18'22	
max. Earth dist.	-2181 Oct 17 j 08:59	7°♎43'55	6.28528 AU
conjunction	-2181 Oct 19 j 05:12	8°♎09'00	1°00'00
minimum elong	-2181 Oct 19 j 05:14	8°♎09'01	1°00'00
morning rise	-2181 Oct 31 j 18:02	10°♎59'21	
retrograde	-2180 Mar 03 j 22:33	29°♎01'24	
opposition	-2180 May 03 j 22:25	24°♎08'31	1°04'42
min. Earth dist.	-2180 May 05 j 01:54	23°♎59'44	4.22704 AU
direct	-2180 Jul 04 j 10:08	19°♎11'53	
	-2180 Oct 02 j 21:03	0°♏	
evening set	-2180 Nov 06 j 13:59	7°♏40'07	
max. Earth dist.	-2180 Nov 18 j 01:10	10°♏19'53	6.16601 AU
conjunction	-2180 Nov 19 j 05:35	10°♏36'26	0°23'53
minimum elong	-2180 Nov 19 j 05:36	10°♏36'27	0°23'50
morning rise	-2180 Dec 01 j 21:38	13°♏33'18	
	-2180 Dec 08 j 04:05	15°♏	
	-2179 Feb 26 j 02:43	0°♐	
retrograde	-2179 Apr 08 j 11:48	2°♐34'15	
	-2179 May 20 j 07:44	30°℞♏	
opposition	-2179 Jun 08 j 09:16	27°♏38'35	0°01'43
min. Earth dist.	-2179 Jun 08 j 21:51	27°♏34'31	4.10670 AU
desc. node	-2179 Jun 18 j 08:53	26°♏22'02	
direct	-2179 Aug 07 j 13:12	22°♏44'30	
	-2179 Oct 17 j 05:48	0°♐	
evening set	-2179 Dec 10 j 03:26	11°♐41'11	
conjunction	-2179 Dec 22 j 23:44	14°♐44'19	-0°21'39
minimum elong	-2179 Dec 22 j 23:43	14°♐44'18	0°21'42
max. Earth dist.	-2179 Dec 22 j 19:03	14°♐41'31	6.05585 AU
morning rise	-2178 Jan 04 j 22:26	17°♐48'50	
	-2178 Mar 02 j 01:29	0°♑	
retrograde	-2178 May 15 j 15:38	7°♑46'03	
opposition	-2178 Jul 15 j 04:47	2°♑46'28	-1°05'06
min. Earth dist.	-2178 Jul 14 j 20:24	2°♑49'14	4.01707 AU
	-2178 Aug 06 j 14:58	30°℞♐	
direct	-2178 Sep 12 j 00:28	27°♐53'21	
	-2178 Oct 17 j 23:10	0°♑	
evening set	-2177 Jan 14 j 14:25	17°♑12'57	
conjunction	-2177 Jan 27 j 17:40	20°♑21'47	-1°00'35
minimum elong	-2177 Jan 27 j 17:37	20°♑21'45	1°00'38
max. Earth dist.	-2177 Jan 28 j 19:15	20°♑37'08	5.99464 AU
morning rise	-2177 Feb 09 j 23:57	23°♑32'18	
	-2177 Mar 09 j 21:59	0°♒	
retrograde	-2177 Jun 22 j 07:29	13°♒58'44	
min. Earth dist.	-2177 Aug 20 j 08:09	9°♒03'39	3.99231 AU
opposition	-2177 Aug 21 j 08:34	8°♒55'25	-1°48'47
direct	-2177 Oct 18 j 09:44	4°♒01'09	
	-2176 Jan 14 j 05:26	15°♒	
evening set	-2176 Feb 20 j 11:23	23°♒27'09	
conjunction	-2176 Mar 04 j 22:02	26°♒38'38	-1°16'51
minimum elong	-2176 Mar 04 j 22:02	26°♒38'38	1°16'52
max. Earth dist.	-2176 Mar 06 j 20:12	27°♒06'04	6.00719 AU
morning rise	-2176 Mar 18 j 11:51	29°♒51'39	
	-2176 Mar 19 j 02:02	0°♓	
retrograde	-2176 Jul 27 j 22:06	20°♓03'27	
min. Earth dist.	-2176 Sep 24 j 06:13	15°♓09'15	4.04201 AU
opposition	-2176 Sep 25 j 14:33	14°♓58'14	-1°50'15
direct	-2176 Nov 22 j 16:15	10°♓01'06	
evening set	-2175 Mar 28 j 14:40	29°♓13'02	
	-2175 Mar 31 j 23:57	0°♈	
conjunction	-2175 Apr 11 j 07:26	2°♈23'33	-1°03'55
minimum elong	-2175 Apr 11 j 07:30	2°♈23'35	1°03'55
max. Earth dist.	-2175 Apr 13 j 08:01	2°♈51'45	6.08876 AU
morning rise	-2175 Apr 25 j 02:01	5°♈34'45	
retrograde	-2175 Aug 31 j 15:47	24°♈55'23	
min. Earth dist.	-2175 Oct 29 j 00:37	20°♈00'06	4.14592 AU
opposition	-2175 Oct 30 j 03:24	19°♈50'58	-1°11'26
direct	-2175 Dec 28 j 02:16	14°♈50'37	
	-2174 Apr 17 j 15:02	0°♉	
evening set	-2174 May 03 j 19:39	3°♉35'13	
conjunction	-2174 May 17 j 14:12	6°♉41'21	-0°28'45
minimum elong	-2174 May 17 j 14:14	6°♉41'23	0°28'44
max. Earth dist.	-2174 May 19 j 00:48	7°♉00'52	6.20681 AU
morning rise	-2174 May 31 j 08:14	9°♉47'03	
	-2174 Jun 24 j 05:01	15°♉	
retrograde	-2174 Oct 03 j 07:46	28°♉04'55	
opposition	-2174 Dec 01 j 21:20	23°♉03'41	-0°10'52
min. Earth dist.	-2174 Dec 01 j 06:52	23°♉08'33	4.26596 AU
direct	-2173 Jan 31 j 01:37	18°♉01'05	
asc. node	-2173 Feb 07 j 08:52	18°♉06'11	
	-2173 May 08 j 20:24	0°♊	
evening set	-2173 Jun 07 j 10:07	6°♊17'02	
conjunction	-2173 Jun 21 j 00:17	9°♊16'37	0°14'28
minimum elong	-2173 Jun 21 j 00:16	9°♊16'36	0°14'31
behind sun begin	-2173 Jun 20 j 20:55	9°♊14'46	
behind sun end	-2173 Jun 21 j 03:37	9°♊18'27	
max. Earth dist.	-2173 Jun 21 j 08:08	9°♊20'56	6.32001 AU
morning rise	-2173 Jul 04 j 12:26	12°♊14'59	
retrograde	-2173 Nov 03 j 13:59	29°♊41'53	
opposition	-2172 Jan 02 j 08:41	24°♊44'35	0°50'01
min. Earth dist.	-2172 Jan 02 j 11:50	24°♊43'33	4.36350 AU
direct	-2172 Mar 03 j 20:22	19°♊41'02	
	-2172 Jun 02 j 15:15	0°♋	
evening set	-2172 Jul 09 j 08:26	7°♋36'15	
conjunction	-2172 Jul 22 j 14:39	10°♋29'28	0°52'02
minimum elong	-2172 Jul 22 j 14:36	10°♋29'26	0°52'04
max. Earth dist.	-2172 Jul 21 j 22:03	10°♋20'24	6.39434 AU
morning rise	-2172 Aug 04 j 17:35	13°♋21'03	
	-2172 Nov 18 j 14:23	0°♌	
retrograde	-2172 Dec 03 j 03:05	0°♌20'17	

Attention, astronomical year style is used: The year -2172 in astronomical counting style is the year 2173 BCE in historical counting style.

	-2172 Dec 17 j 16:06	30℞♋	
opposition	-2171 Feb 01 j 07:29	25°♋26'23	1°34'52
min. Earth dist.	-2171 Feb 02 j 01:39	25°♋20'29	4.41104 AU
direct	-2171 Apr 04 j 15:52	20°♋23'16	
	-2171 Jul 01 j 08:11	0°♌	
evening set	-2171 Aug 10 j 00:03	8°♌09'56	
max. Earth dist.	-2171 Aug 21 j 08:59	10°♌38'52	6.41049 AU
conjunction	-2171 Aug 22 j 21:32	10°♌58'53	1°14'22
minimum elong	-2171 Aug 22 j 21:30	10°♌58'52	1°14'24
morning rise	-2171 Sep 04 j 16:00	13°♌46'24	
	-2171 Sep 10 j 07:50	15°♌	
	-2171 Dec 12 j 04:56	0°♍	
retrograde	-2170 Jan 03 j 01:27	0°♍44'36	
	-2170 Jan 24 j 20:57	30℞♌	
opposition	-2170 Mar 04 j 14:20	25°♌52'44	1°53'25
min. Earth dist.	-2170 Mar 05 j 20:33	25°♌43'04	4.39626 AU
direct	-2170 May 06 j 07:17	20°♌51'15	
	-2170 Jul 30 j 01:55	0°♍	
evening set	-2170 Sep 09 j 23:45	8°♍42'04	
max. Earth dist.	-2170 Sep 20 j 17:40	11°♍04'55	6.36497 AU
conjunction	-2170 Sep 22 j 15:19	11°♍30'17	1°16'04
minimum elong	-2170 Sep 22 j 15:20	11°♍30'18	1°16'05
morning rise	-2170 Oct 05 j 04:42	14°♍17'35	
	-2169 Jan 01 j 20:34	0°♎	
retrograde	-2169 Feb 04 j 01:20	1°♎40'33	
	-2169 Mar 09 j 12:10	30℞♍	
opposition	-2169 Apr 05 j 22:35	26°♍48'52	1°40'31
min. Earth dist.	-2169 Apr 07 j 06:50	26°♍38'36	4.32318 AU
direct	-2169 Jun 07 j 05:47	21°♍49'51	
	-2169 Aug 24 j 17:21	0°♎	
evening set	-2169 Oct 11 j 03:00	9°♎56'30	
max. Earth dist.	-2169 Oct 21 j 23:53	12°♎24'28	6.27009 AU
conjunction	-2169 Oct 23 j 16:48	12°♎47'46	0°55'52
minimum elong	-2169 Oct 23 j 16:51	12°♎47'47	0°55'51
morning rise	-2169 Nov 05 j 05:42	15°♎38'49	
	-2168 Jan 17 j 21:01	0°♏	
retrograde	-2168 Mar 08 j 20:41	3°♏48'06	
	-2168 Apr 30 j 07:10	30℞♎	
opposition	-2168 May 08 j 20:49	28°♎54'57	0°56'50
min. Earth dist.	-2168 May 09 j 22:46	28°♎46'40	4.21164 AU
direct	-2168 Jul 09 j 05:08	23°♎58'47	
	-2168 Sep 12 j 04:21	0°♏	
evening set	-2168 Nov 11 j 05:42	12°♏30'06	
	-2168 Nov 21 j 23:05	15°♏	
conjunction	-2168 Nov 23 j 21:38	15°♏27'12	0°17'43
minimum elong	-2168 Nov 23 j 21:39	15°♏27'12	0°17'41
max. Earth dist.	-2168 Nov 22 j 19:19	15°♏11'50	6.15183 AU
morning rise	-2168 Dec 06 j 14:35	18°♏25'01	
	-2167 Jan 29 j 19:46	0°♐	
retrograde	-2167 Apr 13 j 14:32	7°♐33'16	
desc. node	-2167 Apr 28 j 01:53	7°♐13'34	
opposition	-2167 Jun 13 j 12:15	2°♐37'03	-0°08'01
min. Earth dist.	-2167 Jun 13 j 21:06	2°♐34'11	4.09486 AU
	-2167 Jul 04 j 20:35	30℞♏	
direct	-2167 Aug 12 j 11:22	27°♏43'11	
	-2167 Sep 19 j 11:38	0°♐	
evening set	-2167 Dec 15 j 00:07	16°♐42'13	
conjunction	-2167 Dec 27 j 21:20	19°♐46'04	-0°27'53
minimum elong	-2167 Dec 27 j 21:18	19°♐46'03	0°27'56
max. Earth dist.	-2167 Dec 27 j 22:12	19°♐46'35	6.04748 AU
morning rise	-2166 Jan 09 j 20:49	22°♐51'21	
	-2166 Feb 10 j 02:11	0°♑	
retrograde	-2166 May 20 j 22:14	12°♑53'11	
opposition	-2166 Jul 20 j 09:25	7°♑53'03	-1°13'06
min. Earth dist.	-2166 Jul 19 j 23:17	7°♑56'24	4.01307 AU
direct	-2166 Sep 17 j 02:32	2°♑59'54	
evening set	-2165 Jan 19 j 15:40	22°♑20'04	
conjunction	-2165 Feb 01 j 19:44	25°♑29'14	-1°04'27
minimum elong	-2165 Feb 01 j 19:42	25°♑29'12	1°04'30
max. Earth dist.	-2165 Feb 02 j 23:45	25°♑46'01	5.99508 AU
morning rise	-2165 Feb 15 j 03:10	28°♑40'11	
	-2165 Feb 20 j 17:53	0°♒	
	-2165 May 06 j 04:06	15°♒	
retrograde	-2165 Jun 27 j 09:31	19°♒05'59	
	-2165 Aug 19 j 06:22	15°℞♒	
min. Earth dist.	-2165 Aug 25 j 07:41	14°♒11'19	3.99748 AU
opposition	-2165 Aug 26 j 10:20	14°♒02'20	-1°51'38
direct	-2165 Oct 23 j 09:55	9°♒07'44	
	-2165 Dec 24 j 00:21	15°♒	
evening set	-2164 Feb 25 j 14:19	28°♒32'11	
	-2164 Mar 02 j 19:00	0°♓	
conjunction	-2164 Mar 10 j 01:54	1°♓43'40	-1°16'45
minimum elong	-2164 Mar 10 j 01:55	1°♓43'40	1°16'46
max. Earth dist.	-2164 Mar 12 j 00:25	2°♓11'14	6.01638 AU
morning rise	-2164 Mar 23 j 16:30	4°♓56'35	
retrograde	-2164 Aug 01 j 19:51	25°♓02'48	
min. Earth dist.	-2164 Sep 29 j 03:51	20°♓08'12	4.05411 AU
opposition	-2164 Sep 30 j 11:02	19°♓57'34	-1°46'58
direct	-2164 Nov 27 j 15:38	14°♓59'58	
	-2163 Mar 15 j 08:44	0°♈	
evening set	-2163 Apr 02 j 15:38	4°♈08'49	
conjunction	-2163 Apr 16 j 09:07	7°♈19'00	-1°00'07
minimum elong	-2163 Apr 16 j 09:10	7°♈19'02	1°00'06
max. Earth dist.	-2163 Apr 18 j 09:23	7°♈46'54	6.10287 AU
morning rise	-2163 Apr 30 j 03:55	10°♈29'41	
retrograde	-2163 Sep 05 j 06:40	29°♈42'26	
opposition	-2163 Nov 03 j 18:04	24°♈38'26	-1°03'53
min. Earth dist.	-2163 Nov 02 j 16:24	24°♈47'11	4.16059 AU
direct	-2162 Jan 01 j 19:27	19°♈37'48	
	-2162 Mar 30 j 19:32	0°♉	
evening set	-2162 May 08 j 16:48	8°♉19'11	
conjunction	-2162 May 22 j 10:58	11°♉24'36	-0°22'57
minimum elong	-2162 May 22 j 11:00	11°♉24'37	0°22'55
max. Earth dist.	-2162 May 23 j 16:40	11°♉41'19	6.22095 AU
morning rise	-2162 Jun 05 j 04:42	14°♉29'32	
	-2162 Jun 07 j 11:25	15°♉	
	-2162 Aug 27 j 05:04	0°♊	
retrograde	-2162 Oct 07 j 18:08	2°♊40'31	
	-2162 Nov 18 j 04:46	30℞♉	
opposition	-2162 Dec 06 j 07:45	27°♉39'49	-0°02'02
min. Earth dist.	-2162 Dec 05 j 20:10	27°♉43'42	4.27845 AU
asc. node	-2162 Dec 18 j 21:31	26°♉00'28	
direct	-2161 Feb 04 j 16:41	22°♉37'01	
	-2161 Apr 19 j 12:21	0°♊	
evening set	-2161 Jun 12 j 02:32	10°♊50'43	
conjunction	-2161 Jun 25 j 16:00	13°♊49'34	0°20'16
minimum elong	-2161 Jun 25 j 15:58	13°♊49'33	0°20'19
max. Earth dist.	-2161 Jun 25 j 21:44	13°♊52'43	6.33014 AU
morning rise	-2161 Jul 09 j 02:53	16°♊47'03	
	-2161 Sep 15 j 23:31	0°♋	
retrograde	-2161 Nov 07 j 20:41	4°♋09'40	
	-2161 Dec 31 j 17:35	30℞♊	
opposition	-2160 Jan 06 j 17:03	29°♊12'55	0°57'32
min. Earth dist.	-2160 Jan 06 j 21:30	29°♊11'27	4.37081 AU

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

direct	-2160 Mar 08 j 07:16	24°♊09'26	
	-2160 May 13 j 01:59	0°♋	
evening set	-2160 Jul 13 j 20:55	12°♋03'37	
max. Earth dist.	-2160 Jul 26 j 05:09	14°♋44'54	6.39819 AU
conjunction	-2160 Jul 27 j 01:46	14°♋56'09	0°56'13
minimum elong	-2160 Jul 27 j 01:43	14°♋56'08	0°56'17
morning rise	-2160 Aug 09 j 03:37	17°♋47'07	
	-2160 Oct 11 j 07:51	0°♌	
retrograde	-2160 Dec 07 j 12:00	4°♌45'15	
	-2159 Feb 04 j 15:08	30°℞♋	
opposition	-2159 Feb 05 j 16:43	29°♋51'43	1°39'12
min. Earth dist.	-2159 Feb 06 j 13:24	29°♋45'01	4.41144 AU
direct	-2159 Apr 09 j 04:05	24°♋48'47	
	-2159 Jun 10 j 03:25	0°♌	
evening set	-2159 Aug 14 j 09:35	12°♌35'33	
	-2159 Aug 25 j 09:59	15°♌	
max. Earth dist.	-2159 Aug 25 j 16:37	15°♌03'38	6.40721 AU
conjunction	-2159 Aug 27 j 06:10	15°♌24'13	1°15'54
minimum elong	-2159 Aug 27 j 06:09	15°♌24'13	1°15'55
morning rise	-2159 Sep 08 j 23:37	18°♌11'28	
	-2159 Nov 08 j 06:28	0°♍	
retrograde	-2158 Jan 07 j 10:40	5°♍11'39	
opposition	-2158 Mar 09 j 02:00	0°♍19'52	1°53'30
min. Earth dist.	-2158 Mar 10 j 07:54	0°♍10'18	4.38964 AU
	-2158 Mar 11 j 16:11	30°℞♌	
direct	-2158 May 10 j 17:56	25°♌18'40	
	-2158 Jul 08 j 05:47	0°♍	
evening set	-2158 Sep 14 j 08:40	13°♍10'46	
max. Earth dist.	-2158 Sep 25 j 02:39	15°♍34'02	6.35535 AU
conjunction	-2158 Sep 26 j 23:39	15°♍59'08	1°14'29
minimum elong	-2158 Sep 26 j 23:41	15°♍59'09	1°14'30
morning rise	-2158 Oct 09 j 12:39	18°♍46'40	
	-2158 Dec 04 j 00:24	0°♎	
retrograde	-2157 Feb 08 j 16:52	6°♎14'23	
opposition	-2157 Apr 10 j 14:38	1°♎22'35	1°36'04
min. Earth dist.	-2157 Apr 11 j 23:21	1°♎12'11	4.31079 AU
	-2157 Apr 21 j 13:30	30°℞♍	
direct	-2157 Jun 11 j 20:47	26°♍23'55	
	-2157 Jul 31 j 23:09	0°♎	
evening set	-2157 Oct 15 j 13:22	14°♎32'57	
max. Earth dist.	-2157 Oct 26 j 10:40	17°♎01'40	6.25577 AU
conjunction	-2157 Oct 28 j 03:13	17°♎24'49	0°51'24
minimum elong	-2157 Oct 28 j 03:15	17°♎24'51	0°51'22
morning rise	-2157 Nov 09 j 16:32	20°♎16'38	
	-2157 Dec 25 j 08:22	0°♏	
retrograde	-2156 Mar 13 j 16:54	8°♏33'05	
opposition	-2156 May 13 j 18:04	3°♏39'30	0°48'38
min. Earth dist.	-2156 May 14 j 17:28	3°♏32'00	4.19614 AU
	-2156 Jun 15 j 01:38	30°℞♎	
direct	-2156 Jul 13 j 21:40	28°♎43'38	
	-2156 Aug 11 j 14:09	0°♏	
	-2156 Nov 05 j 20:13	15°♏	
evening set	-2156 Nov 15 j 20:14	17°♏18'19	
conjunction	-2156 Nov 28 j 12:48	20°♏16'19	0°11'27
minimum elong	-2156 Nov 28 j 12:49	20°♏16'20	0°11'25
behind sun begin	-2156 Nov 28 j 06:55	20°♏12'53	
behind sun end	-2156 Nov 28 j 18:42	20°♏19'46	
max. Earth dist.	-2156 Nov 27 j 14:39	20°♏03'20	6.13655 AU
morning rise	-2156 Dec 11 j 06:22	23°♏15'06	
	-2155 Jan 10 j 04:39	0°♐	
desc. node	-2155 Mar 08 j 00:25	9°♐54'08	
retrograde	-2155 Apr 18 j 19:03	12°♐31'18	
opposition	-2155 Jun 18 j 14:22	7°♐34'34	-0°17'42
min. Earth dist.	-2155 Jun 18 j 21:47	7°♐32'09	4.08094 AU
direct	-2155 Aug 17 j 09:48	2°♐40'52	
evening set	-2155 Dec 19 j 20:54	21°♐43'22	
conjunction	-2154 Jan 01 j 18:55	24°♐48'05	-0°33'56
minimum elong	-2154 Jan 01 j 18:53	24°♐48'04	0°33'58
max. Earth dist.	-2154 Jan 01 j 22:27	24°♐50'12	6.03610 AU
morning rise	-2154 Jan 14 j 19:35	27°♐54'20	
	-2154 Jan 23 j 16:55	0°♑	
retrograde	-2154 May 26 j 02:56	18°♑01'50	
opposition	-2154 Jul 25 j 13:39	13°♑01'08	-1°20'38
min. Earth dist.	-2154 Jul 25 j 00:14	13°♑05'35	4.00566 AU
direct	-2154 Sep 22 j 02:11	8°♑07'52	
evening set	-2153 Jan 24 j 18:13	27°♑30'15	
	-2153 Feb 04 j 04:39	0°♒	
conjunction	-2153 Feb 06 j 23:23	0°♒40'01	-1°07'52
minimum elong	-2153 Feb 06 j 23:21	0°♒40'00	1°07'55
max. Earth dist.	-2153 Feb 08 j 06:26	0°♒58'39	5.99210 AU
morning rise	-2153 Feb 20 j 07:51	3°♒51'33	
	-2153 Apr 11 j 12:07	15°♒	
retrograde	-2153 Jul 02 j 14:54	24°♒17'59	
min. Earth dist.	-2153 Aug 30 j 10:15	19°♒23'09	3.99927 AU
opposition	-2153 Aug 31 j 13:33	19°♒13'55	-1°53'41
	-2153 Oct 08 j 13:20	15°℞♒	
direct	-2153 Oct 28 j 13:18	14°♒18'54	
	-2153 Nov 17 j 12:48	15°♒	
	-2152 Feb 14 j 19:45	0°♓	
evening set	-2152 Mar 01 j 19:39	3°♓43'04	
conjunction	-2152 Mar 15 j 08:23	6°♓54'45	-1°16'04
minimum elong	-2152 Mar 15 j 08:24	6°♓54'45	1°16'05
max. Earth dist.	-2152 Mar 17 j 09:17	7°♓23'39	6.02275 AU
morning rise	-2152 Mar 28 j 23:48	10°♓07'43	
	-2152 Jul 28 j 07:54	0°♈	
retrograde	-2152 Aug 06 j 20:16	0°♈08'58	
	-2152 Aug 16 j 06:44	30°℞♓	
min. Earth dist.	-2152 Oct 04 j 02:40	25°♓14'25	4.06440 AU
opposition	-2152 Oct 05 j 09:58	25°♓03'45	-1°42'51
direct	-2152 Dec 02 j 15:22	20°♓05'44	
	-2151 Feb 24 j 16:23	0°♈	
evening set	-2151 Apr 07 j 20:13	9°♈12'06	
conjunction	-2151 Apr 21 j 14:02	12°♈21'54	-0°55'46
minimum elong	-2151 Apr 21 j 14:06	12°♈21'56	0°55'45
max. Earth dist.	-2151 Apr 23 j 11:36	12°♈48'09	6.11621 AU
morning rise	-2151 May 05 j 09:15	15°♈32'07	
	-2151 Jul 16 j 12:48	0°♉	
retrograde	-2151 Sep 09 j 23:41	4°♉36'53	
	-2151 Nov 05 j 04:48	30°℞♈	
min. Earth dist.	-2151 Nov 07 j 11:16	29°♈41'30	4.17568 AU
opposition	-2151 Nov 08 j 11:34	29°♈33'14	-0°55'42
direct	-2150 Jan 06 j 17:07	24°♈32'13	
	-2150 Mar 08 j 22:22	0°♉	
evening set	-2150 May 13 j 16:58	13°♉10'01	
	-2150 May 21 j 21:49	15°♉	
conjunction	-2150 May 27 j 10:59	16°♉14'40	-0°16'49
minimum elong	-2150 May 27 j 11:01	16°♉14'41	0°16'47
max. Earth dist.	-2150 May 28 j 15:28	16°♉30'38	6.23716 AU
morning rise	-2150 Jun 10 j 03:55	19°♉18'35	
	-2150 Aug 01 j 01:19	0°♊	
retrograde	-2150 Oct 12 j 06:29	7°♊21'36	
asc. node	-2150 Oct 28 j 00:37	6°♊57'00	
opposition	-2150 Dec 10 j 20:41	2°♊21'30	0°07'01
min. Earth dist.	-2150 Dec 10 j 10:32	2°♊24'54	4.29456 AU

Attention, astronomical year style is used: The year -2150 in astronomical counting style is the year 2151 BCE in historical counting style.

	-2150 Dec 29 j 05:30	30°℞♉	
direct	-2149 Feb 09 j 10:06	27°♉18'38	
	-2149 Mar 24 j 01:37	0°♊	
evening set	-2149 Jun 16 j 20:50	15°♊28'23	
conjunction	-2149 Jun 30 j 09:02	18°♊26'08	0°26'03
minimum elong	-2149 Jun 30 j 09:00	18°♊26'07	0°26'05
max. Earth dist.	-2149 Jun 30 j 10:38	18°♊27'01	6.34508 AU
morning rise	-2149 Jul 13 j 18:49	21°♊22'30	
	-2149 Aug 24 j 13:50	0°♋	
retrograde	-2149 Nov 12 j 05:04	8°♋39'09	
opposition	-2148 Jan 11 j 02:50	3°♋42'53	1°04'42
min. Earth dist.	-2148 Jan 11 j 09:36	3°♋40'39	4.38380 AU
	-2148 Feb 12 j 02:04	30°℞♊	
direct	-2148 Mar 12 j 21:42	28°♊39'23	
	-2148 Apr 12 j 01:25	0°♋	
evening set	-2148 Jul 18 j 09:03	16°♋30'14	
conjunction	-2148 Jul 31 j 12:44	19°♋21'50	1°00'04
minimum elong	-2148 Jul 31 j 12:41	19°♋21'48	1°00'07
max. Earth dist.	-2148 Jul 30 j 15:05	19°♋10'02	6.40828 AU
morning rise	-2148 Aug 13 j 13:01	22°♋11'48	
	-2148 Sep 20 j 08:16	0°♌	
retrograde	-2148 Dec 11 j 17:07	9°♌06'48	
opposition	-2147 Feb 10 j 00:54	4°♌13'36	1°42'51
min. Earth dist.	-2147 Feb 10 j 22:21	4°♌06'41	4.41811 AU
	-2147 Mar 21 j 04:27	30°℞♋	
direct	-2147 Apr 13 j 13:59	29°♋10'53	
	-2147 May 07 j 04:31	0°♌	
	-2147 Aug 09 j 18:55	15°♌	
evening set	-2147 Aug 18 j 17:10	16°♌55'34	
max. Earth dist.	-2147 Aug 29 j 20:18	19°♌21'37	6.40977 AU
conjunction	-2147 Aug 31 j 12:30	19°♌43'39	1°16'56
minimum elong	-2147 Aug 31 j 12:29	19°♌43'39	1°16'58
morning rise	-2147 Sep 13 j 05:06	22°♌30'26	
	-2147 Oct 19 j 03:28	0°♍	
retrograde	-2146 Jan 11 j 19:01	9°♍30'56	
opposition	-2146 Mar 13 j 11:15	4°♍39'16	1°52'51
min. Earth dist.	-2146 Mar 14 j 19:12	4°♍29'04	4.38777 AU
	-2146 Apr 29 j 15:46	30°℞♌	
direct	-2146 May 15 j 04:40	29°♌38'20	
	-2146 May 30 j 17:03	0°♍	
evening set	-2146 Sep 18 j 13:44	17°♍30'10	
max. Earth dist.	-2146 Sep 29 j 06:43	19°♍53'08	6.34908 AU
conjunction	-2146 Oct 01 j 04:20	20°♍18'36	1°12'30
minimum elong	-2146 Oct 01 j 04:22	20°♍18'37	1°12'30
morning rise	-2146 Oct 13 j 16:59	23°♍06'16	
	-2146 Nov 14 j 22:38	0°♎	
retrograde	-2145 Feb 13 j 02:48	10°♎38'01	
opposition	-2145 Apr 15 j 02:50	5°♎46'05	1°31'10
min. Earth dist.	-2145 Apr 16 j 10:40	5°♎35'57	4.30032 AU
direct	-2145 Jun 16 j 05:45	0°♎47'45	
evening set	-2145 Oct 19 j 19:50	18°♎58'54	
max. Earth dist.	-2145 Oct 30 j 18:27	21°♎28'50	6.24199 AU
conjunction	-2145 Nov 01 j 09:46	21°♎51'22	0°46'47
minimum elong	-2145 Nov 01 j 09:48	21°♎51'23	0°46'45
morning rise	-2145 Nov 13 j 23:22	24°♎43'54	
	-2145 Dec 07 j 15:28	0°♏	
retrograde	-2144 Mar 18 j 11:44	13°♏07'41	
opposition	-2144 May 18 j 11:17	8°♏13'50	0°40'24
min. Earth dist.	-2144 May 19 j 10:46	8°♏06'19	4.17963 AU
direct	-2144 Jul 18 j 11:49	3°♏18'16	
	-2144 Oct 20 j 09:20	15°♏	
evening set	-2144 Nov 20 j 07:31	21°♏57'15	

max. Earth dist.	-2144 Dec 02 j 03:43	24°♏43'56	6.11886 AU
conjunction	-2144 Dec 03 j 00:43	24°♏56'17	0°05'22
minimum elong	-2144 Dec 03 j 00:43	24°♏56'17	0°05'18
behind sun begin	-2144 Dec 02 j 16:58	24°♏51'44	
behind sun end	-2144 Dec 03 j 08:29	25°♏00'50	
morning rise	-2144 Dec 15 j 19:15	27°♏56'14	
	-2144 Dec 24 j 16:22	0°♐	
desc. node	-2143 Jan 17 j 23:34	5°♐24'25	
retrograde	-2143 Apr 23 j 18:12	17°♐21'32	
opposition	-2143 Jun 23 j 13:01	12°♐24'21	-0°26'59
min. Earth dist.	-2143 Jun 23 j 17:33	12°♐22'52	4.06364 AU
direct	-2143 Aug 22 j 02:08	7°♐30'50	
evening set	-2143 Dec 24 j 15:38	26°♐38'42	
conjunction	-2142 Jan 06 j 14:40	29°♐44'32	-0°39'33
minimum elong	-2142 Jan 06 j 14:37	29°♐44'30	0°39'35
max. Earth dist.	-2142 Jan 06 j 21:36	29°♐48'41	6.02077 AU
	-2142 Jan 07 j 16:29	0°♑	
morning rise	-2142 Jan 19 j 16:25	2°♑51'58	
retrograde	-2142 May 31 j 08:40	23°♑07'02	
opposition	-2142 Jul 30 j 16:25	18°♑05'51	-1°27'24
min. Earth dist.	-2142 Jul 30 j 01:26	18°♑10'50	3.99393 AU
direct	-2142 Sep 27 j 02:26	13°♑12'29	
	-2141 Jan 18 j 15:38	0°♒	
evening set	-2141 Jan 29 j 20:28	2°♒39'02	
conjunction	-2141 Feb 12 j 02:54	5°♒49'41	-1°10'40
minimum elong	-2141 Feb 12 j 02:52	5°♒49'40	1°10'42
max. Earth dist.	-2141 Feb 13 j 14:09	6°♒10'49	5.98510 AU
morning rise	-2141 Feb 25 j 12:32	9°♒02'02	
	-2141 Mar 23 j 05:50	15°♒	
retrograde	-2141 Jul 07 j 20:38	29°♒30'22	
min. Earth dist.	-2141 Sep 04 j 11:30	24°♒35'50	3.99811 AU
opposition	-2141 Sep 05 j 16:26	24°♒26'02	-1°54'46
direct	-2141 Nov 02 j 14:16	19°♒30'43	
	-2140 Jan 27 j 07:23	0°♓	
evening set	-2140 Mar 07 j 02:13	8°♓55'51	
conjunction	-2140 Mar 20 j 15:50	12°♓07'46	-1°14'42
minimum elong	-2140 Mar 20 j 15:52	12°♓07'47	1°14'43
max. Earth dist.	-2140 Mar 22 j 16:52	12°♓36'42	6.02734 AU
morning rise	-2140 Apr 03 j 08:20	15°♓20'57	
	-2140 Jun 13 j 03:31	0°♈	
retrograde	-2140 Aug 11 j 19:22	5°♈17'26	
min. Earth dist.	-2140 Oct 09 j 01:24	0°♈23'03	4.07409 AU
opposition	-2140 Oct 10 j 09:10	0°♈12'11	-1°37'50
	-2140 Oct 11 j 20:52	30°℞♓	
direct	-2140 Dec 07 j 16:41	25°♓13'42	
	-2139 Feb 01 j 11:39	0°♈	
evening set	-2139 Apr 13 j 01:24	14°♈17'34	
conjunction	-2139 Apr 26 j 19:49	17°♈26'58	-0°50'56
minimum elong	-2139 Apr 26 j 19:53	17°♈27'00	0°50'55
max. Earth dist.	-2139 Apr 28 j 17:35	17°♈53'15	6.13027 AU
morning rise	-2139 May 10 j 14:59	20°♈36'33	
	-2139 Jun 23 j 06:17	0°♉	
retrograde	-2139 Sep 14 j 18:20	9°♉32'45	
min. Earth dist.	-2139 Nov 12 j 06:34	4°♉37'12	4.19217 AU
opposition	-2139 Nov 13 j 05:25	4°♉29'27	-0°47'04
	-2139 Dec 24 j 16:12	30°℞♈	
direct	-2138 Jan 11 j 15:42	29°♈28'04	
	-2138 Jan 29 j 18:35	0°♉	
	-2138 May 04 j 22:40	15°♉	
evening set	-2138 May 18 j 17:04	18°♉01'26	
conjunction	-2138 Jun 01 j 10:28	21°♉05'06	-0°10'34

Attention, astronomical year style is used: The year -2138 in astronomical counting style is the year 2139 BCE in historical counting style.

minimum elong	-2138 Jun 01 j 10:28	21°♉05'07	0°10'31	
behind sun begin	-2138 Jun 01 j 04:04	21°♉01'33		
behind sun end	-2138 Jun 01 j 16:53	21°♉08'40		
max. Earth dist.	-2138 Jun 02 j 11:23	21°♉19'01	6.25443 AU	
morning rise	-2138 Jun 15 j 02:43	24°♉07'58		
	-2138 Jul 12 j 08:31	0°♊		
asc. node	-2138 Sep 05 j 13:03	9°♊25'12		
retrograde	-2138 Oct 16 j 17:21	12°♊02'42		
opposition	-2138 Dec 15 j 09:14	7°♊03'02	0°16'02	
min. Earth dist.	-2138 Dec 15 j 00:55	7°♊05'49	4.31085 AU	
direct	-2137 Feb 14 j 03:17	1°♊59'52		
evening set	-2137 Jun 21 j 14:27	20°♊05'41		
conjunction	-2137 Jul 05 j 01:35	23°♊02'23	0°31'42	
minimum elong	-2137 Jul 05 j 01:33	23°♊02'21	0°31'45	
max. Earth dist.	-2137 Jul 05 j 00:28	23°♊01'46	6.35896 AU	
morning rise	-2137 Jul 18 j 09:55	25°♊57'36		
	-2137 Aug 06 j 07:11	0°♋		
retrograde	-2137 Nov 16 j 13:23	13°♋08'51		
opposition	-2136 Jan 15 j 12:26	8°♋13'05	1°11'35	
min. Earth dist.	-2136 Jan 15 j 21:27	8°♋10'08	4.39416 AU	
direct	-2136 Mar 17 j 10:59	3°♋09'36		
evening set	-2136 Jul 22 j 21:15	20°♋58'05		
conjunction	-2136 Aug 04 j 23:31	23°♋48'54	1°03'38	
minimum elong	-2136 Aug 04 j 23:28	23°♋48'52	1°03'41	
max. Earth dist.	-2136 Aug 03 j 21:19	23°♋34'37	6.41396 AU	
morning rise	-2136 Aug 17 j 22:41	26°♋38'09		
	-2136 Sep 02 j 16:34	0°♌		
retrograde	-2136 Dec 16 j 02:01	13°♌31'46		
opposition	-2135 Feb 14 j 10:40	8°♌38'51	1°46'05	
min. Earth dist.	-2135 Feb 15 j 10:38	8°♌31'08	4.41896 AU	
direct	-2135 Apr 18 j 01:50	3°♌36'13		
	-2135 Jul 23 j 21:14	15°♌		
evening set	-2135 Aug 23 j 02:06	21°♌20'44		
max. Earth dist.	-2135 Sep 03 j 03:57	23°♌46'15	6.40555 AU	
conjunction	-2135 Sep 04 j 20:40	24°♌08'37	1°17'38	
minimum elong	-2135 Sep 04 j 20:40	24°♌08'37	1°17'40	
morning rise	-2135 Sep 17 j 12:17	26°♌55'12		
	-2135 Oct 01 j 18:47	0°♍		
retrograde	-2134 Jan 16 j 05:18	13°♍58'22		
opposition	-2134 Mar 17 j 23:44	9°♍06'45	1°51'42	
min. Earth dist.	-2134 Mar 19 j 07:52	8°♍56'31	4.37883 AU	
direct	-2134 May 19 j 15:26	4°♍06'08		
evening set	-2134 Sep 22 j 22:54	21°♍59'59		
max. Earth dist.	-2134 Oct 03 j 14:36	24°♍22'45	6.33603 AU	
conjunction	-2134 Oct 05 j 13:01	24°♍48'45	1°10'04	
minimum elong	-2134 Oct 05 j 13:03	24°♍48'46	1°10'04	
morning rise	-2134 Oct 18 j 01:37	27°♍36'54		
	-2134 Oct 28 j 20:35	0°♎		
retrograde	-2133 Feb 17 j 21:35	15°♎14'58		
opposition	-2133 Apr 19 j 20:44	10°♎22'52	1°25'33	
min. Earth dist.	-2133 Apr 21 j 05:03	10°♎12'35	4.28380 AU	
direct	-2133 Jun 20 j 21:27	5°♎24'52		
evening set	-2133 Oct 24 j 08:01	23°♎39'54		
max. Earth dist.	-2133 Nov 04 j 08:38	26°♎11'34	6.22350 AU	
conjunction	-2133 Nov 05 j 22:20	26°♎33'16	0°41'37	
minimum elong	-2133 Nov 05 j 22:23	26°♎33'17	0°41'36	
morning rise	-2133 Nov 18 j 12:26	29°♎26'48		
	-2133 Nov 20 j 22:34	0°♏		
	-2132 Feb 07 j 15:10	15°♏		
retrograde	-2132 Mar 23 j 11:53	17°♏59'30		
	-2132 May 08 j 03:50	15°℞♏		
opposition	-2132 May 23 j 11:41	13°♏05'15	0°31'24	
min. Earth dist.	-2132 May 24 j 08:18	12°♏58'39	4.16057 AU	
direct	-2132 Jul 23 j 06:11	8°♏10'04		
	-2132 Sep 30 j 07:21	15°♏		
evening set	-2132 Nov 25 j 01:51	26°♏53'54		
desc. node	-2132 Nov 26 j 21:56	27°♏19'44		
conjunction	-2132 Dec 07 j 19:41	29°♏53'59	-0°01'18	
minimum elong	-2132 Dec 07 j 19:42	29°♏53'59	0°01'21	
behind sun begin	-2132 Dec 07 j 11:39	29°♏49'16		
behind sun end	-2132 Dec 08 j 03:45	29°♏58'43		
max. Earth dist.	-2132 Dec 07 j 02:19	29°♏43'44	6.10102 AU	
	-2132 Dec 08 j 05:55	0°♐		
morning rise	-2132 Dec 20 j 15:10	2°♐55'08		
retrograde	-2131 Apr 29 j 02:15	22°♐29'26		
opposition	-2131 Jun 28 j 19:07	17°♐31'42	-0°36'42	
min. Earth dist.	-2131 Jun 28 j 21:12	17°♐31'01	4.04874 AU	
direct	-2131 Aug 27 j 04:25	12°♐38'22		
	-2131 Dec 21 j 23:06	0°♑		
evening set	-2131 Dec 29 j 17:15	1°♑50'17		
conjunction	-2130 Jan 11 j 17:21	4°♑57'02	-0°45'14	
minimum elong	-2130 Jan 11 j 17:18	4°♑57'01	0°45'17	
max. Earth dist.	-2130 Jan 12 j 05:31	5°♑04'20	6.01043 AU	
morning rise	-2130 Jan 24 j 20:11	8°♑05'25		
retrograde	-2130 Jun 05 j 18:49	28°♑25'11		
min. Earth dist.	-2130 Aug 04 j 06:17	23°♑29'29	3.98988 AU	
opposition	-2130 Aug 05 j 00:12	23°♑23'30	-1°33'49	
direct	-2130 Oct 02 j 06:49	18°♑30'03		
	-2130 Dec 31 j 10:26	0°♒		
evening set	-2129 Feb 04 j 03:24	7°♒57'34		
conjunction	-2129 Feb 17 j 10:44	11°♒08'32	-1°13'04	
minimum elong	-2129 Feb 17 j 10:42	11°♒08'31	1°13'05	
max. Earth dist.	-2129 Feb 19 j 00:20	11°♒31'03	5.98751 AU	
morning rise	-2129 Mar 02 j 21:32	14°♒21'14		
	-2129 Mar 05 j 14:58	15°♒		
	-2129 May 17 j 10:45	0°♓		
retrograde	-2129 Jul 13 j 01:02	4°♓47'01		
	-2129 Sep 08 j 16:55	30°℞♒		
opposition	-2129 Sep 10 j 20:56	29°♒42'20	-1°54'59	
min. Earth dist.	-2129 Sep 09 j 14:09	29°♒52'47	4.00692 AU	
direct	-2129 Nov 07 j 18:46	24°♒46'36		
	-2128 Jan 04 j 16:22	0°♓		
evening set	-2128 Mar 12 j 09:08	14°♓08'46		
conjunction	-2128 Mar 25 j 23:45	17°♓20'26	-1°12'50	
minimum elong	-2128 Mar 25 j 23:47	17°♓20'27	1°12'50	
max. Earth dist.	-2128 Mar 28 j 02:53	17°♓50'30	6.04171 AU	
morning rise	-2128 Apr 08 j 16:41	20°♓33'09		
	-2128 May 21 j 11:21	0°♈		
retrograde	-2128 Aug 16 j 18:25	10°♈21'05		
min. Earth dist.	-2128 Oct 14 j 00:23	5°♈26'23	4.09220 AU	
opposition	-2128 Oct 15 j 06:57	5°♈15'57	-1°32'12	
direct	-2128 Dec 12 j 18:21	0°♈17'02		
evening set	-2127 Apr 18 j 04:04	19°♈15'33		
conjunction	-2127 May 01 j 22:33	22°♈24'07	-0°45'53	
minimum elong	-2127 May 01 j 22:37	22°♈24'09	0°45'52	
max. Earth dist.	-2127 May 03 j 17:54	22°♈48'52	6.15046 AU	
morning rise	-2127 May 15 j 17:42	25°♈32'45		
	-2127 Jun 04 j 18:20	0°♉		
retrograde	-2127 Sep 19 j 06:59	14°♉18'45		
opposition	-2127 Nov 17 j 19:35	9°♉15'53	-0°38'25	
min. Earth dist.	-2127 Nov 16 j 21:59	9°♉23'12	4.21239 AU	
direct	-2126 Jan 16 j 09:53	4°♉14'09		
	-2126 Apr 17 j 06:04	15°♉		
evening set	-2126 May 23 j 13:03	22°♉42'24		

Attention, astronomical year style is used: The year -2126 in astronomical counting style is the year 2127 BCE in historical counting style.

conjunction	-2126 Jun 06 j 05:50	25°♉45'01	-0°04'28
minimum elong	-2126 Jun 06 j 05:50	25°♉45'01	0°04'26
behind sun begin	-2126 Jun 05 j 21:41	25°♉40'30	
behind sun end	-2126 Jun 06 j 13:59	25°♉49'32	
max. Earth dist.	-2126 Jun 07 j 02:39	25°♉56'36	6.27316 AU
morning rise	-2126 Jun 19 j 21:08	28°♉46'41	
	-2126 Jun 25 j 10:30	0°♊	
asc. node	-2126 Jul 16 j 12:49	4°♊30'10	
retrograde	-2126 Oct 21 j 02:49	16°♊33'31	
opposition	-2126 Dec 19 j 18:26	11°♊34'28	0°24'36
min. Earth dist.	-2126 Dec 19 j 13:27	11°♊36'08	4.32647 AU
direct	-2125 Feb 18 j 17:34	6°♊31'13	
evening set	-2125 Jun 26 j 04:02	24°♊33'37	
conjunction	-2125 Jul 09 j 14:01	27°♊29'23	0°36'58
minimum elong	-2125 Jul 09 j 13:58	27°♊29'22	0°37'02
max. Earth dist.	-2125 Jul 09 j 08:20	27°♊26'17	6.37011 AU
	-2125 Jul 21 j 01:39	0°♋	
morning rise	-2125 Jul 22 j 21:09	0°♋23'40	
retrograde	-2125 Nov 20 j 19:04	17°♋31'08	
opposition	-2124 Jan 19 j 19:37	12°♋35'51	1°17'52
min. Earth dist.	-2124 Jan 20 j 06:58	12°♋32'08	4.40041 AU
direct	-2124 Mar 21 j 20:15	7°♋32'24	
evening set	-2124 Jul 27 j 06:43	25°♋20'05	
max. Earth dist.	-2124 Aug 08 j 03:32	27°♋54'56	6.41478 AU
conjunction	-2124 Aug 09 j 07:52	28°♋10'23	1°06'47
minimum elong	-2124 Aug 09 j 07:49	28°♋10'22	1°06'48
	-2124 Aug 17 j 16:53	0°♌	
morning rise	-2124 Aug 22 j 05:45	0°♌59'07	
	-2124 Nov 06 j 12:30	15°♌	
retrograde	-2124 Dec 20 j 09:39	17°♌53'17	
	-2123 Feb 02 j 20:30	15°℞♌	
opposition	-2123 Feb 18 j 19:13	13°♌00'45	1°48'43
min. Earth dist.	-2123 Feb 19 j 21:00	12°♌52'27	4.41449 AU
direct	-2123 Apr 22 j 11:00	7°♌58'24	
	-2123 Jul 04 j 18:17	15°♌	
evening set	-2123 Aug 27 j 10:15	25°♌44'32	
max. Earth dist.	-2123 Sep 07 j 08:11	28°♌08'21	6.39596 AU
conjunction	-2123 Sep 09 j 03:55	28°♌32'27	1°17'53
minimum elong	-2123 Sep 09 j 03:55	28°♌32'27	1°17'54
	-2123 Sep 15 j 18:52	0°♍	
morning rise	-2123 Sep 21 j 19:03	1°♍19'11	
retrograde	-2122 Jan 20 j 18:55	18°♍27'00	
opposition	-2122 Mar 22 j 13:00	13°♍35'27	1°49'54
min. Earth dist.	-2122 Mar 23 j 22:03	13°♍24'55	4.36484 AU
direct	-2122 May 24 j 03:05	8°♍35'09	
evening set	-2122 Sep 27 j 08:24	26°♍32'37	
max. Earth dist.	-2122 Oct 08 j 01:40	28°♍56'48	6.31884 AU
conjunction	-2122 Oct 09 j 22:31	29°♍22'02	1°07'11
minimum elong	-2122 Oct 09 j 22:33	29°♍22'03	1°07'10
	-2122 Oct 12 j 17:58	0°♎	
morning rise	-2122 Oct 22 j 10:59	2°♎10'53	
retrograde	-2121 Feb 22 j 16:47	19°♎56'48	
opposition	-2121 Apr 24 j 16:34	15°♎04'31	1°19'18
min. Earth dist.	-2121 Apr 25 j 23:04	14°♎54'49	4.26457 AU
direct	-2121 Jun 25 j 12:21	10°♎07'02	
evening set	-2121 Oct 28 j 22:11	28°♎26'42	
	-2121 Nov 04 j 16:28	0°♏	
max. Earth dist.	-2121 Nov 09 j 01:03	1°♏00'24	6.20398 AU
conjunction	-2121 Nov 10 j 12:42	1°♏21'00	0°36'07
minimum elong	-2121 Nov 10 j 12:45	1°♏21'02	0°36'04
morning rise	-2121 Nov 23 j 03:29	4°♏15'38	
	-2120 Jan 12 j 12:33	15°♏	
retrograde	-2120 Mar 28 j 15:40	22°♏57'40	
opposition	-2120 May 28 j 14:26	18°♏02'58	0°21'58
min. Earth dist.	-2120 May 29 j 08:39	17°♏57'06	4.14214 AU
	-2120 Jun 23 j 05:19	15°℞♏	
direct	-2120 Jul 28 j 04:44	13°♏08'08	
	-2120 Aug 31 j 17:57	15°♏	
desc. node	-2120 Oct 05 j 08:38	20°♏02'00	
	-2120 Nov 21 j 14:55	0°♐	
evening set	-2120 Nov 29 j 22:15	1°♐56'22	
conjunction	-2120 Dec 12 j 16:59	4°♐57'29	-0°07'57
minimum elong	-2120 Dec 12 j 16:58	4°♐57'28	0°08'00
behind sun begin	-2120 Dec 12 j 09:45	4°♐53'13	
behind sun end	-2120 Dec 13 j 00:12	5°♐01'44	
max. Earth dist.	-2120 Dec 12 j 04:38	4°♐50'11	6.08556 AU
morning rise	-2120 Dec 25 j 13:20	7°♐59'42	
retrograde	-2119 May 04 j 10:35	27°♐41'35	
opposition	-2119 Jul 04 j 02:18	22°♐43'18	-0°46'13
min. Earth dist.	-2119 Jul 04 j 00:59	22°♐43'44	4.03788 AU
direct	-2119 Sep 01 j 07:09	17°♐50'06	
	-2119 Dec 04 j 03:32	0°♑	
evening set	-2118 Jan 03 j 19:56	7°♑04'26	
conjunction	-2118 Jan 16 j 20:48	10°♑11'48	-0°50'35
minimum elong	-2118 Jan 16 j 20:45	10°♑11'46	0°50'38
max. Earth dist.	-2118 Jan 17 j 12:15	10°♑21'04	6.00481 AU
morning rise	-2118 Jan 30 j 00:50	13°♑20'53	
	-2118 Apr 22 j 09:23	0°♒	
retrograde	-2118 Jun 11 j 02:03	3°♒43'12	
	-2118 Jul 31 j 08:19	30°℞♑	
min. Earth dist.	-2118 Aug 09 j 10:25	28°♑47'55	3.99021 AU
opposition	-2118 Aug 10 j 07:19	28°♑40'55	-1°39'25
direct	-2118 Oct 07 j 11:40	23°♑47'11	
	-2118 Dec 09 j 23:28	0°♒	
evening set	-2117 Feb 09 j 09:26	13°♒14'06	
	-2117 Feb 16 j 19:14	15°♒	
conjunction	-2117 Feb 22 j 17:56	16°♒25'15	-1°14'51
minimum elong	-2117 Feb 22 j 17:54	16°♒25'14	1°14'53
max. Earth dist.	-2117 Feb 24 j 11:44	16°♒50'13	5.99353 AU
morning rise	-2117 Mar 08 j 05:30	19°♒38'00	
	-2117 Apr 23 j 17:07	0°♓	
retrograde	-2117 Jul 18 j 05:18	9°♓59'41	
opposition	-2117 Sep 15 j 23:26	4°♓54'45	-1°54'17
min. Earth dist.	-2117 Sep 14 j 16:49	5°♓05'10	4.01804 AU
	-2117 Nov 09 j 06:59	30°℞♒	
direct	-2117 Nov 12 j 23:10	29°♒58'36	
	-2117 Nov 16 j 15:22	0°♓	
evening set	-2116 Mar 17 j 14:36	19°♓17'16	
conjunction	-2116 Mar 31 j 05:53	22°♓28'34	-1°10'27
minimum elong	-2116 Mar 31 j 05:55	22°♓28'35	1°10'27
max. Earth dist.	-2116 Apr 02 j 08:34	22°♓58'13	6.05673 AU
morning rise	-2116 Apr 13 j 23:29	25°♓40'50	
	-2116 May 02 j 21:58	0°♈	
retrograde	-2116 Aug 21 j 13:11	15°♈20'01	
min. Earth dist.	-2116 Oct 18 j 19:51	10°♈25'27	4.10962 AU
opposition	-2116 Oct 20 j 02:17	10°♈15'04	-1°26'01
direct	-2116 Dec 17 j 16:19	5°♈15'41	
evening set	-2115 Apr 23 j 05:04	24°♈09'29	
conjunction	-2115 May 06 j 23:38	27°♈17'17	-0°40'36
minimum elong	-2115 May 06 j 23:41	27°♈17'19	0°40'33
max. Earth dist.	-2115 May 08 j 15:31	27°♈39'59	6.16894 AU
	-2115 May 18 j 22:16	0°♉	
morning rise	-2115 May 20 j 18:34	0°♉25'00	
	-2115 Aug 03 j 04:51	15°♉	

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

retrograde	-2115 Sep 23 j 21:00	19°♉01'49	
	-2115 Nov 14 j 20:25	15°℞♉	
opposition	-2115 Nov 22 j 08:49	13°♉59'26	-0°29'38
min. Earth dist.	-2115 Nov 21 j 14:22	14°♉05'40	4.23005 AU
direct	-2114 Jan 21 j 04:32	8°♉57'22	
	-2114 Mar 27 j 13:00	15°♉	
asc. node	-2114 May 26 j 10:02	26°♉56'05	
evening set	-2114 May 28 j 08:04	27°♉21'25	
	-2114 Jun 09 j 06:35	0°♊	
conjunction	-2114 Jun 11 j 00:13	0°♊23'06	0°01'45
minimum elong	-2114 Jun 11 j 00:12	0°♊23'05	0°01'47
behind sun begin	-2114 Jun 10 j 15:53	0°♊18'30	
behind sun end	-2114 Jun 11 j 08:31	0°♊27'41	
max. Earth dist.	-2114 Jun 11 j 17:46	0°♊32'50	6.28871 AU
morning rise	-2114 Jun 24 j 14:32	3°♊23'42	
retrograde	-2114 Oct 25 j 09:45	21°♊03'50	
opposition	-2114 Dec 24 j 03:22	16°♊05'19	0°33'00
min. Earth dist.	-2114 Dec 24 j 00:08	16°♊06'23	4.33894 AU
direct	-2113 Feb 23 j 05:23	11°♊01'56	
evening set	-2113 Jun 30 j 17:56	29°♊01'56	
	-2113 Jul 05 j 04:45	0°♋	
conjunction	-2113 Jul 14 j 02:40	1°♋56'52	0°42'03
minimum elong	-2113 Jul 14 j 02:37	1°♋56'50	0°42'06
max. Earth dist.	-2113 Jul 13 j 16:50	1°♋51'29	6.37856 AU
morning rise	-2113 Jul 27 j 08:32	4°♋50'16	
retrograde	-2113 Nov 25 j 03:05	21°♋54'45	
opposition	-2112 Jan 24 j 03:37	16°♋59'57	1°23'47
min. Earth dist.	-2112 Jan 24 j 18:05	16°♋55'14	4.40448 AU
direct	-2112 Mar 26 j 07:48	11°♋56'35	
evening set	-2112 Jul 31 j 16:55	29°♋43'54	
	-2112 Aug 01 j 22:37	0°♌	
max. Earth dist.	-2112 Aug 12 j 09:18	2°♌16'30	6.41392 AU
conjunction	-2112 Aug 13 j 16:57	2°♌33'47	1°09'34
minimum elong	-2112 Aug 13 j 16:55	2°♌33'45	1°09'37
morning rise	-2112 Aug 26 j 13:47	5°♌22'07	
	-2112 Oct 13 j 04:58	15°♌	
retrograde	-2112 Dec 24 j 18:35	22°♌17'19	
opposition	-2111 Feb 23 j 05:19	17°♌24'59	1°50'47
min. Earth dist.	-2111 Feb 24 j 08:11	17°♌16'21	4.40913 AU
	-2111 Mar 14 j 21:10	15°℞♌	
direct	-2111 Apr 26 j 20:55	12°♌22'52	
	-2111 Jun 08 j 21:24	15°♌	
	-2111 Aug 30 j 23:49	0°♍	
evening set	-2111 Aug 31 j 19:14	0°♍10'37	
max. Earth dist.	-2111 Sep 11 j 16:56	2°♍34'40	6.38653 AU
conjunction	-2111 Sep 13 j 12:15	2°♍58'37	1°17'41
minimum elong	-2111 Sep 13 j 12:16	2°♍58'37	1°17'42
morning rise	-2111 Sep 26 j 02:39	5°♍45'28	
retrograde	-2110 Jan 25 j 08:38	22°♍57'50	
opposition	-2110 Mar 27 j 03:38	18°♍06'21	1°47'27
min. Earth dist.	-2110 Mar 28 j 12:47	17°♍55'48	4.35207 AU
direct	-2110 May 28 j 15:48	13°♍06'31	
	-2110 Sep 26 j 18:57	0°♎	
evening set	-2110 Oct 01 j 19:02	1°♎06'56	
max. Earth dist.	-2110 Oct 12 j 11:47	3°♎31'25	6.30387 AU
conjunction	-2110 Oct 14 j 08:50	3°♎56'52	1°03'53
minimum elong	-2110 Oct 14 j 08:52	3°♎56'53	1°03'54
morning rise	-2110 Oct 26 j 21:32	6°♎46'23	
retrograde	-2109 Feb 27 j 13:32	24°♎39'24	
opposition	-2109 Apr 29 j 13:04	19°♎46'51	1°12'32
min. Earth dist.	-2109 Apr 30 j 18:01	19°♎37'38	4.24843 AU
direct	-2109 Jun 30 j 05:28	14°♎49'47	
	-2109 Oct 19 j 08:14	0°♏	
evening set	-2109 Nov 02 j 12:19	3°♏12'57	
max. Earth dist.	-2109 Nov 13 j 19:59	5°♏49'55	6.18832 AU
conjunction	-2109 Nov 15 j 03:23	6°♏08'07	0°30'24
minimum elong	-2109 Nov 15 j 03:25	6°♏08'08	0°30'21
morning rise	-2109 Nov 27 j 18:38	9°♏03'40	
	-2109 Dec 24 j 06:11	15°♏	
retrograde	-2108 Apr 02 j 17:47	27°♏53'29	
opposition	-2108 Jun 02 j 16:24	22°♏58'23	0°12'29
min. Earth dist.	-2108 Jun 03 j 07:56	22°♏53'22	4.12822 AU
direct	-2108 Aug 02 j 02:12	18°♏03'57	
desc. node	-2108 Aug 14 j 21:52	18°♏19'50	
	-2108 Nov 04 j 07:16	0°♐	
evening set	-2108 Dec 04 j 17:38	6°♐55'04	
conjunction	-2108 Dec 17 j 12:54	9°♐56'56	-0°14'24
minimum elong	-2108 Dec 17 j 12:53	9°♐56'55	0°14'26
behind sun begin	-2108 Dec 17 j 09:03	9°♐54'40	
behind sun end	-2108 Dec 17 j 16:42	9°♐59'10	
max. Earth dist.	-2108 Dec 17 j 03:29	9°♐51'21	6.07454 AU
morning rise	-2108 Dec 30 j 10:18	13°♐00'04	
	-2107 Mar 27 j 14:54	0°♑	
retrograde	-2107 May 09 j 15:41	2°♑47'55	
	-2107 Jun 22 j 01:22	30°℞♐	
opposition	-2107 Jul 09 j 06:56	27°♐49'02	-0°55'09
min. Earth dist.	-2107 Jul 09 j 02:06	27°♐50'37	4.03087 AU
direct	-2107 Sep 06 j 07:56	22°♐55'52	
	-2107 Nov 14 j 00:41	0°♑	
evening set	-2106 Jan 08 j 20:14	12°♑11'35	
conjunction	-2106 Jan 21 j 22:10	15°♑19'29	-0°55'23
minimum elong	-2106 Jan 21 j 22:07	15°♑19'27	0°55'25
max. Earth dist.	-2106 Jan 22 j 18:51	15°♑31'53	6.00238 AU
morning rise	-2106 Feb 04 j 03:01	18°♑29'03	
	-2106 Mar 28 j 04:32	0°♒	
retrograde	-2106 Jun 16 j 07:34	8°♒52'32	
opposition	-2106 Aug 15 j 10:36	3°♒49'49	-1°44'02
min. Earth dist.	-2106 Aug 14 j 12:46	3°♒57'09	3.99280 AU
	-2106 Sep 17 j 09:39	30°℞♑	
direct	-2106 Oct 12 j 13:49	28°♑55'53	
	-2106 Nov 06 j 16:32	0°♒	
	-2105 Jan 31 j 04:17	15°♒	
evening set	-2105 Feb 14 j 12:29	18°♒21'48	
conjunction	-2105 Feb 27 j 21:50	21°♒33'02	-1°15'59
minimum elong	-2105 Feb 27 j 21:49	21°♒33'02	1°16'01
max. Earth dist.	-2105 Mar 01 j 16:45	21°♒58'36	6.00056 AU
morning rise	-2105 Mar 13 j 10:29	24°♒45'53	
	-2105 Apr 05 j 01:41	0°♓	
retrograde	-2105 Jul 23 j 04:01	15°♓03'03	
opposition	-2105 Sep 20 j 21:48	9°♓58'02	-1°52'43
min. Earth dist.	-2105 Sep 19 j 14:08	10°♓08'49	4.02891 AU
direct	-2105 Nov 17 j 21:47	5°♓01'28	
evening set	-2104 Mar 22 j 16:36	24°♓17'12	
conjunction	-2104 Apr 05 j 08:35	27°♓28'12	-1°07'36
minimum elong	-2104 Apr 05 j 08:38	27°♓28'13	1°07'36
max. Earth dist.	-2104 Apr 07 j 09:46	27°♓56'52	6.07044 AU
	-2104 Apr 16 j 05:27	0°♈	
morning rise	-2104 Apr 19 j 02:41	0°♈40'03	
retrograde	-2104 Aug 26 j 07:04	20°♈11'32	
opposition	-2104 Oct 24 j 18:45	15°♈06'50	-1°19'27
min. Earth dist.	-2104 Oct 23 j 14:38	15°♈16'26	4.12451 AU
direct	-2104 Dec 22 j 12:58	10°♈07'02	
evening set	-2103 Apr 28 j 03:24	28°♈57'19	
	-2103 May 02 j 18:22	0°♉	

Attention, astronomical year style is used: The year -2103 in astronomical counting style is the year 2104 BCE in historical counting style.

conjunction	-2103 May 11 j 22:09	2°♉04'32	-0°35'10
minimum elong	-2103 May 11 j 22:11	2°♉04'34	0°35'08
max. Earth dist.	-2103 May 13 j 12:14	2°♉26'08	6.18405 AU
morning rise	-2103 May 25 j 16:46	5°♉11'29	
	-2103 Jul 11 j 03:28	15°♉	
retrograde	-2103 Sep 28 j 07:21	23°♉40'35	
opposition	-2103 Nov 26 j 20:00	18°♉38'44	-0°20'55
min. Earth dist.	-2103 Nov 26 j 02:54	18°♉44'30	4.24408 AU
	-2103 Dec 27 j 06:18	15°℞♉	
direct	-2102 Jan 25 j 18:27	13°♉36'28	
	-2102 Feb 24 j 17:34	15°♉	
asc. node	-2102 Apr 05 j 23:32	20°♉25'58	
	-2102 May 24 j 02:14	0°♊	
evening set	-2102 Jun 02 j 01:52	1°♊57'46	
conjunction	-2102 Jun 15 j 17:09	4°♊58'37	0°07'44
minimum elong	-2102 Jun 15 j 17:09	4°♊58'37	0°07'47
behind sun begin	-2102 Jun 15 j 09:44	4°♊54'32	
behind sun end	-2102 Jun 16 j 00:34	5°♊02'42	
max. Earth dist.	-2102 Jun 16 j 05:43	5°♊05'34	6.30074 AU
morning rise	-2102 Jun 29 j 06:42	7°♊58'23	
retrograde	-2102 Oct 29 j 18:50	25°♊33'13	
opposition	-2102 Dec 28 j 12:04	20°♊35'15	0°41'05
min. Earth dist.	-2102 Dec 28 j 12:06	20°♊35'15	4.34821 AU
direct	-2101 Feb 27 j 18:39	15°♊31'49	
	-2101 Jun 18 j 21:33	0°♋	
evening set	-2101 Jul 05 j 07:04	3°♋30'17	
conjunction	-2101 Jul 18 j 14:49	6°♋24'32	0°46'50
minimum elong	-2101 Jul 18 j 14:46	6°♋24'31	0°46'52
max. Earth dist.	-2101 Jul 18 j 02:46	6°♋17'58	6.38440 AU
morning rise	-2101 Jul 31 j 19:22	9°♋17'11	
retrograde	-2101 Nov 29 j 09:14	26°♋19'37	
opposition	-2100 Jan 28 j 12:03	21°♋25'12	1°29'09
min. Earth dist.	-2100 Jan 29 j 03:22	21°♋20'13	4.40688 AU
direct	-2100 Mar 30 j 17:28	16°♋21'58	
	-2100 Jul 16 j 14:29	0°♌	
evening set	-2100 Aug 05 j 03:06	4°♌09'06	
max. Earth dist.	-2100 Aug 16 j 16:25	6°♌40'13	6.41263 AU
conjunction	-2100 Aug 18 j 01:56	6°♌58'32	1°11'57
minimum elong	-2100 Aug 18 j 01:54	6°♌58'31	1°11'59
morning rise	-2100 Aug 30 j 21:42	9°♌46'29	
	-2100 Sep 24 j 13:37	15°♌	
retrograde	-2100 Dec 29 j 04:25	26°♌42'44	
opposition	-2099 Feb 27 j 15:53	21°♌50'37	1°52'10
min. Earth dist.	-2099 Feb 28 j 20:28	21°♌41'27	4.40433 AU
direct	-2099 May 01 j 08:53	16°♌48'45	
	-2099 Aug 14 j 14:49	0°♍	
evening set	-2099 Sep 05 j 03:59	4°♍37'27	
max. Earth dist.	-2099 Sep 15 j 23:31	7°♍00'40	6.37836 AU
conjunction	-2099 Sep 17 j 20:18	7°♍25'28	1°17'02
minimum elong	-2099 Sep 17 j 20:19	7°♍25'28	1°17'02
morning rise	-2099 Sep 30 j 10:15	10°♍12'26	
retrograde	-2098 Jan 29 j 21:40	27°♍28'48	
opposition	-2098 Mar 31 j 18:07	22°♍37'10	1°44'20
min. Earth dist.	-2098 Apr 02 j 02:32	22°♍26'51	4.34093 AU
direct	-2098 Jun 02 j 04:16	17°♍37'38	
	-2098 Sep 10 j 04:18	0°♎	
evening set	-2098 Oct 06 j 04:30	5°♎40'07	
max. Earth dist.	-2098 Oct 16 j 23:45	8°♎06'26	6.29057 AU
conjunction	-2098 Oct 18 j 18:20	8°♎30'33	1°00'13
minimum elong	-2098 Oct 18 j 18:22	8°♎30'35	1°00'13
morning rise	-2098 Oct 31 j 06:59	11°♎20'39	
retrograde	-2097 Mar 04 j 08:34	29°♎20'09	
opposition	-2097 May 04 j 08:46	24°♎27'19	1°05'18
min. Earth dist.	-2097 May 05 j 12:50	24°♎18'22	4.23345 AU
direct	-2097 Jul 04 j 22:10	19°♎30'37	
	-2097 Oct 01 j 22:22	0°♏	
evening set	-2097 Nov 07 j 01:26	7°♏56'50	
max. Earth dist.	-2097 Nov 18 j 10:27	10°♏35'10	6.17286 AU
conjunction	-2097 Nov 19 j 16:45	10°♏52'47	0°24'31
minimum elong	-2097 Nov 19 j 16:47	10°♏52'48	0°24'28
morning rise	-2097 Dec 02 j 08:48	13°♏49'18	
	-2097 Dec 07 j 11:32	15°♏	
	-2096 Feb 24 j 15:38	0°♐	
retrograde	-2096 Apr 07 j 18:21	2°♐46'59	
	-2096 May 21 j 11:58	30°℞♏	
opposition	-2096 Jun 07 j 17:02	27°♏51'21	0°02'56
min. Earth dist.	-2096 Jun 08 j 05:34	27°♏47'18	4.11333 AU
desc. node	-2096 Jun 24 j 19:06	25°♏43'28	
direct	-2096 Aug 06 j 22:06	22°♏57'06	
	-2096 Oct 15 j 13:21	0°♐	
evening set	-2096 Dec 09 j 12:21	11°♐51'47	
conjunction	-2096 Dec 22 j 08:34	14°♐54'34	-0°20'44
minimum elong	-2096 Dec 22 j 08:32	14°♐54'33	0°20'48
max. Earth dist.	-2096 Dec 22 j 04:03	14°♐51'54	6.06166 AU
morning rise	-2095 Jan 04 j 06:46	17°♐58'39	
	-2095 Feb 28 j 14:45	0°♑	
retrograde	-2095 May 14 j 22:14	7°♑53'10	
opposition	-2095 Jul 14 j 10:57	2°♑53'43	-1°03'43
min. Earth dist.	-2095 Jul 14 j 04:30	2°♑55'51	4.02128 AU
	-2095 Aug 07 j 00:41	30°℞♐	
direct	-2095 Sep 11 j 08:37	28°♐00'33	
	-2095 Oct 16 j 05:35	0°♑	
evening set	-2094 Jan 13 j 21:06	17°♑18'53	
conjunction	-2094 Jan 26 j 23:55	20°♑27'26	-0°59'48
minimum elong	-2094 Jan 26 j 23:52	20°♑27'24	0°59'50
max. Earth dist.	-2094 Jan 27 j 22:58	20°♑41'16	5.99671 AU
morning rise	-2094 Feb 09 j 06:03	23°♑37'46	
	-2094 Mar 08 j 18:24	0°♒	
retrograde	-2094 Jun 21 j 11:51	14°♒03'30	
opposition	-2094 Aug 20 j 14:21	9°♒00'19	-1°47'56
min. Earth dist.	-2094 Aug 19 j 13:50	9°♒08'34	3.99197 AU
direct	-2094 Oct 17 j 14:58	4°♒06'05	
	-2093 Jan 13 j 01:54	15°♒	
evening set	-2093 Feb 19 j 17:13	23°♒32'27	
conjunction	-2093 Mar 05 j 03:39	26°♒43'58	-1°16'34
minimum elong	-2093 Mar 05 j 03:39	26°♒43'58	1°16'35
max. Earth dist.	-2093 Mar 07 j 00:07	27°♒10'26	6.00442 AU
morning rise	-2093 Mar 18 j 17:12	29°♒57'01	
	-2093 Mar 18 j 22:15	0°♓	
retrograde	-2093 Jul 28 j 05:57	20°♓10'47	
opposition	-2093 Sep 25 j 21:59	15°♓05'36	-1°50'19
min. Earth dist.	-2093 Sep 24 j 14:51	15°♓16'14	4.03693 AU
direct	-2093 Nov 23 j 00:14	10°♓08'34	
evening set	-2092 Mar 27 j 21:26	29°♓22'25	
	-2092 Mar 30 j 14:23	0°♈	
conjunction	-2092 Apr 10 j 14:16	2°♈33'15	-1°04'12
minimum elong	-2092 Apr 10 j 14:19	2°♈33'17	1°04'12
max. Earth dist.	-2092 Apr 12 j 16:06	3°♈02'12	6.08202 AU
morning rise	-2092 Apr 24 j 08:45	5°♈44'46	
retrograde	-2092 Aug 31 j 02:15	25°♈08'51	
min. Earth dist.	-2092 Oct 28 j 09:51	20°♈13'54	4.13846 AU
opposition	-2092 Oct 29 j 13:32	20°♈04'28	-1°12'10
direct	-2092 Dec 27 j 09:58	15°♈04'21	
	-2091 Apr 15 j 19:15	0°♉	

Attention, astronomical year style is used: The year -2091 in astronomical counting style is the year 2092 BCE in historical counting style.

evening set	-2091 May 03 j 04:57	3°♉51'25	
conjunction	-2091 May 16 j 23:27	6°♉57'55	-0°29'21
minimum elong	-2091 May 16 j 23:30	6°♉57'56	0°29'20
max. Earth dist.	-2091 May 18 j 09:38	7°♉17'14	6.19939 AU
morning rise	-2091 May 30 j 17:52	10°♉04'04	
	-2091 Jun 22 j 05:31	15°♉	
retrograde	-2091 Oct 02 j 21:10	28°♉25'16	
opposition	-2091 Dec 01 j 10:07	23°♉23'56	-0°11'49
min. Earth dist.	-2091 Nov 30 j 19:17	23°♉28'56	4.25960 AU
direct	-2090 Jan 30 j 13:30	18°♉21'29	
asc. node	-2090 Feb 12 j 23:02	18°♉38'42	
	-2090 May 06 j 13:08	0°♊	
evening set	-2090 Jun 06 j 21:49	6°♊39'13	
conjunction	-2090 Jun 20 j 12:23	9°♊39'07	0°13'47
minimum elong	-2090 Jun 20 j 12:22	9°♊39'07	0°13'50
behind sun begin	-2090 Jun 20 j 08:15	9°♊36'51	
behind sun end	-2090 Jun 20 j 16:28	9°♊41'22	
max. Earth dist.	-2090 Jun 20 j 23:38	9°♊45'19	6.31570 AU
morning rise	-2090 Jul 04 j 00:36	12°♊37'45	
	-2090 Oct 26 j 04:03	0°♋	
retrograde	-2090 Nov 03 j 03:06	0°♋06'12	
	-2090 Nov 11 j 02:14	30°℞♊	
opposition	-2089 Jan 01 j 22:33	25°♊08'50	0°49'03
min. Earth dist.	-2089 Jan 01 j 23:30	25°♊08'31	4.36182 AU
direct	-2089 Mar 04 j 08:34	20°♊05'27	
	-2089 Jun 01 j 01:02	0°♋	
evening set	-2089 Jul 09 j 21:25	8°♋00'40	
max. Earth dist.	-2089 Jul 22 j 11:46	10°♋45'14	6.39568 AU
conjunction	-2089 Jul 23 j 03:39	10°♋53'53	0°51'23
minimum elong	-2089 Jul 23 j 03:36	10°♋53'52	0°51'25
morning rise	-2089 Aug 05 j 06:56	13°♋45'33	
	-2089 Nov 12 j 02:46	0°♌	
retrograde	-2089 Dec 03 j 17:01	0°♌44'08	
	-2089 Dec 25 j 05:07	30°℞♋	
opposition	-2088 Feb 01 j 20:53	25°♋50'09	1°33'59
min. Earth dist.	-2088 Feb 02 j 14:47	25°♋44'20	4.41530 AU
direct	-2088 Apr 04 j 06:26	20°♋47'03	
	-2088 Jun 28 j 20:04	0°♌	
evening set	-2088 Aug 09 j 12:08	8°♌31'50	
max. Earth dist.	-2088 Aug 20 j 23:06	11°♌01'36	6.41740 AU
conjunction	-2088 Aug 22 j 09:55	11°♌20'37	1°13'53
minimum elong	-2088 Aug 22 j 09:53	11°♌20'36	1°13'55
morning rise	-2088 Sep 04 j 04:27	14°♌07'54	
	-2088 Sep 08 j 04:37	15°♌	
	-2088 Dec 07 j 07:43	0°♍	
retrograde	-2087 Jan 02 j 10:22	1°♍03'29	
	-2087 Jan 28 j 15:21	30°℞♌	
opposition	-2087 Mar 04 j 00:55	26°♌11'31	1°52'51
min. Earth dist.	-2087 Mar 05 j 05:39	26°♌02'19	4.40524 AU
direct	-2087 May 05 j 17:55	21°♌09'57	
	-2087 Jul 27 j 23:49	0°♍	
evening set	-2087 Sep 09 j 09:58	8°♍57'45	
max. Earth dist.	-2087 Sep 20 j 04:28	11°♍20'36	6.37521 AU
conjunction	-2087 Sep 22 j 01:31	11°♍45'36	1°15'56
minimum elong	-2087 Sep 22 j 01:32	11°♍45'36	1°15'57
morning rise	-2087 Oct 04 j 14:53	14°♍32'29	
	-2087 Dec 30 j 06:26	0°♎	
retrograde	-2086 Feb 03 j 08:11	1°♎51'34	
	-2086 Mar 10 j 16:33	30°℞♍	
opposition	-2086 Apr 05 j 05:35	26°♍59'55	1°40'38
min. Earth dist.	-2086 Apr 06 j 15:17	26°♍49'13	4.33361 AU
direct	-2086 Jun 06 j 15:38	22°♍00'44	
	-2086 Aug 23 j 04:36	0°♎	
evening set	-2086 Oct 10 j 10:28	10°♎04'19	
max. Earth dist.	-2086 Oct 21 j 04:47	12°♎30'32	6.27961 AU
conjunction	-2086 Oct 23 j 00:10	12°♎55'09	0°56'18
minimum elong	-2086 Oct 23 j 00:12	12°♎55'11	0°56'17
morning rise	-2086 Nov 04 j 13:03	15°♎45'48	
	-2085 Jan 16 j 14:28	0°♏	
retrograde	-2085 Mar 08 j 22:51	3°♏51'21	
	-2085 Apr 30 j 21:15	30°℞♎	
opposition	-2085 May 09 j 00:12	28°♎58'14	0°57'54
min. Earth dist.	-2085 May 10 j 02:46	28°♎49'45	4.21936 AU
direct	-2085 Jul 09 j 09:33	24°♎01'49	
	-2085 Sep 12 j 03:40	0°♏	
evening set	-2085 Nov 11 j 10:43	12°♏31'22	
	-2085 Nov 22 j 02:18	15°♏	
max. Earth dist.	-2085 Nov 22 j 23:14	15°♏12'13	6.15696 AU
conjunction	-2085 Nov 24 j 02:37	15°♏28'12	0°18'41
minimum elong	-2085 Nov 24 j 02:39	15°♏28'13	0°18'40
morning rise	-2085 Dec 06 j 19:13	18°♏25'41	
	-2084 Jan 30 j 00:30	0°♐	
retrograde	-2084 Apr 12 j 17:54	7°♐31'48	
desc. node	-2084 May 06 j 19:56	6°♐37'39	
opposition	-2084 Jun 12 j 13:53	2°♐35'47	-0°06'19
min. Earth dist.	-2084 Jun 13 j 01:44	2°♐31'56	4.09668 AU
	-2084 Jul 03 j 17:29	30°℞♏	
direct	-2084 Aug 11 j 15:02	27°♏41'44	
	-2084 Sep 18 j 20:03	0°♐	
evening set	-2084 Dec 14 j 04:06	16°♐41'09	
conjunction	-2084 Dec 27 j 01:05	19°♐45'00	-0°26'44
minimum elong	-2084 Dec 27 j 01:03	19°♐44'59	0°26'46
max. Earth dist.	-2084 Dec 26 j 22:17	19°♐43'21	6.04576 AU
morning rise	-2083 Jan 09 j 00:30	22°♐50'18	
	-2083 Feb 09 j 07:11	0°♑	
retrograde	-2083 May 20 j 00:11	12°♑52'52	
opposition	-2083 Jul 19 j 11:58	7°♑52'55	-1°11'34
min. Earth dist.	-2083 Jul 19 j 02:23	7°♑56'05	4.00791 AU
direct	-2083 Sep 16 j 04:00	2°♑59'44	
evening set	-2082 Jan 18 j 20:29	22°♑22'36	
conjunction	-2082 Feb 01 j 00:29	25°♑32'06	-1°03'38
minimum elong	-2082 Feb 01 j 00:26	25°♑32'05	1°03'40
max. Earth dist.	-2082 Feb 02 j 03:02	25°♑48'03	5.98712 AU
morning rise	-2082 Feb 14 j 07:43	28°♑43'22	
	-2082 Feb 19 j 16:51	0°♒	
	-2082 May 04 j 17:28	15°♒	
retrograde	-2082 Jun 26 j 17:20	19°♒12'55	
	-2082 Aug 19 j 09:56	15°℞♒	
opposition	-2082 Aug 25 j 16:43	14°♒09'20	-1°50'54
min. Earth dist.	-2082 Aug 24 j 15:15	14°♒17'56	3.98730 AU
direct	-2082 Oct 22 j 16:34	9°♒14'46	
	-2082 Dec 22 j 11:57	15°♒	
evening set	-2081 Feb 24 j 21:57	28°♒43'12	
	-2081 Mar 02 j 07:38	0°♓	
conjunction	-2081 Mar 10 j 09:39	1°♓55'14	-1°16'29
minimum elong	-2081 Mar 10 j 09:39	1°♓55'14	1°16'29
max. Earth dist.	-2081 Mar 12 j 09:18	2°♓23'33	6.00519 AU
morning rise	-2081 Mar 24 j 00:13	5°♓08'42	
retrograde	-2081 Aug 02 j 07:55	25°♓19'42	
opposition	-2081 Sep 30 j 21:59	20°♓14'26	-1°47'00
min. Earth dist.	-2081 Sep 29 j 13:56	20°♓25'23	4.04312 AU
direct	-2081 Nov 28 j 00:06	15°♓16'59	
	-2080 Mar 13 j 08:01	0°♈	
evening set	-2080 Apr 02 j 02:53	4°♈29'24	

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

conjunction	-2080 Apr 15 j 20:14	7°♈40'01	-1°00'15
minimum elong	-2080 Apr 15 j 20:18	7°♈40'03	1°00'14
max. Earth dist.	-2080 Apr 17 j 20:31	8°♈08'00	6.09297 AU
morning rise	-2080 Apr 29 j 15:19	10°♈51'14	
	-2080 Aug 27 j 01:26	0°♉	
retrograde	-2080 Sep 04 j 20:47	0°♉07'48	
	-2080 Sep 13 j 16:00	30°℞♈	
min. Earth dist.	-2080 Nov 02 j 05:49	25°♈12'45	4.15269 AU
opposition	-2080 Nov 03 j 08:39	25°♈03'36	-1°04'18
direct	-2079 Jan 01 j 09:09	20°♈02'59	
	-2079 Mar 28 j 03:59	0°♉	
evening set	-2079 May 08 j 06:26	8°♉46'15	
conjunction	-2079 May 22 j 00:54	11°♉51'58	-0°23'18
minimum elong	-2079 May 22 j 00:56	11°♉51'59	0°23'16
max. Earth dist.	-2079 May 23 j 10:13	12°♉10'44	6.21583 AU
morning rise	-2079 Jun 04 j 18:36	14°♉57'08	
	-2079 Jun 04 j 23:45	15°♉	
	-2079 Aug 23 j 00:23	0°♊	
retrograde	-2079 Oct 07 j 10:17	3°♊09'42	
	-2079 Nov 21 j 20:46	30°℞♉	
opposition	-2079 Dec 05 j 23:52	28°♉08'50	-0°02'39
min. Earth dist.	-2079 Dec 05 j 10:35	28°♉13'18	4.27628 AU
asc. node	-2079 Dec 22 j 11:54	26°♉00'18	
direct	-2078 Feb 04 j 08:04	23°♉06'07	
	-2078 Apr 16 j 08:34	0°♊	
evening set	-2078 Jun 11 j 17:18	11°♊19'35	
conjunction	-2078 Jun 25 j 06:42	14°♊18'24	0°19'47
minimum elong	-2078 Jun 25 j 06:40	14°♊18'23	0°19'49
max. Earth dist.	-2078 Jun 25 j 13:13	14°♊21'59	6.33094 AU
morning rise	-2078 Jul 08 j 17:54	17°♊15'55	
	-2078 Sep 12 j 09:46	0°♋	
retrograde	-2078 Nov 07 j 12:01	4°♋38'00	
	-2077 Jan 03 j 23:15	30°℞♊	
opposition	-2077 Jan 06 j 08:45	29°♊41'03	0°56'44
min. Earth dist.	-2077 Jan 06 j 12:27	29°♊39'50	4.37432 AU
direct	-2077 Mar 08 j 23:32	24°♊37'31	
	-2077 May 10 j 18:48	0°♋	
evening set	-2077 Jul 14 j 10:40	12°♋29'46	
conjunction	-2077 Jul 27 j 15:47	15°♋22'07	0°55'40
minimum elong	-2077 Jul 27 j 15:44	15°♋22'06	0°55'43
max. Earth dist.	-2077 Jul 26 j 22:03	15°♋12'28	6.40425 AU
morning rise	-2077 Aug 09 j 17:34	18°♋12'51	
	-2077 Oct 09 j 06:43	0°♌	
retrograde	-2077 Dec 07 j 23:36	5°♌08'47	
opposition	-2076 Feb 06 j 06:03	0°♌15'08	1°38'23
min. Earth dist.	-2076 Feb 07 j 01:12	0°♌08'56	4.41942 AU
	-2076 Feb 08 j 04:51	30°℞♋	
direct	-2076 Apr 08 j 17:14	25°♋12'11	
	-2076 Jun 07 j 04:22	0°♌	
evening set	-2076 Aug 13 j 21:38	12°♌56'00	
	-2076 Aug 23 j 09:08	15°♌	
max. Earth dist.	-2076 Aug 25 j 04:00	15°♌23'27	6.41650 AU
conjunction	-2076 Aug 26 j 18:09	15°♌44'19	1°15'28
minimum elong	-2076 Aug 26 j 18:07	15°♌44'18	1°15'29
morning rise	-2076 Sep 08 j 11:50	18°♌31'16	
	-2076 Nov 05 j 21:21	0°♍	
retrograde	-2075 Jan 06 j 21:09	5°♍28'13	
opposition	-2075 Mar 08 j 12:07	0°♍36'24	1°53'02
min. Earth dist.	-2075 Mar 09 j 19:09	0°♍26'29	4.39940 AU
	-2075 Mar 13 j 06:16	30°℞♌	
direct	-2075 May 10 j 06:24	25°♌35'03	
	-2075 Jul 05 j 21:39	0°♍	
evening set	-2075 Sep 13 j 18:16	13°♍24'09	
max. Earth dist.	-2075 Sep 24 j 11:42	15°♍46'46	6.36480 AU
conjunction	-2075 Sep 26 j 09:25	16°♍12'11	1°14'26
minimum elong	-2075 Sep 26 j 09:27	16°♍12'12	1°14'27
morning rise	-2075 Oct 08 j 22:23	18°♍59'21	
	-2075 Dec 02 j 07:59	0°♎	
retrograde	-2074 Feb 07 j 21:52	6°♎23'40	
opposition	-2074 Apr 09 j 21:11	1°♎31'54	1°36'20
min. Earth dist.	-2074 Apr 11 j 05:52	1°♎21'30	4.31925 AU
	-2074 Apr 22 j 02:59	30°℞♍	
direct	-2074 Jun 11 j 03:36	26°♍33'04	
	-2074 Jul 30 j 05:05	0°♎	
evening set	-2074 Oct 14 j 20:55	14°♎39'59	
max. Earth dist.	-2074 Oct 25 j 17:01	17°♎07'46	6.26253 AU
conjunction	-2074 Oct 27 j 10:41	17°♎31'32	0°51'54
minimum elong	-2074 Oct 27 j 10:44	17°♎31'34	0°51'52
morning rise	-2074 Nov 08 j 23:51	20°♎23'02	
	-2074 Dec 24 j 04:02	0°♏	
retrograde	-2073 Mar 13 j 22:27	8°♏36'56	
opposition	-2073 May 13 j 22:21	3°♏43'32	0°49'45
min. Earth dist.	-2073 May 15 j 00:25	3°♏35'12	4.20049 AU
	-2073 Jun 16 j 01:08	30°℞♎	
direct	-2073 Jul 14 j 04:16	28°♎47'30	
	-2073 Aug 11 j 01:59	0°♏	
	-2073 Nov 05 j 20:26	15°♏	
evening set	-2073 Nov 16 j 02:28	17°♏21'44	
conjunction	-2073 Nov 28 j 18:56	20°♏19'37	0°12'24
minimum elong	-2073 Nov 28 j 18:57	20°♏19'38	0°12'21
behind sun begin	-2073 Nov 28 j 13:34	20°♏16'30	
behind sun end	-2073 Nov 29 j 00:21	20°♏22'47	
max. Earth dist.	-2073 Nov 27 j 17:33	20°♏04'46	6.13808 AU
morning rise	-2073 Dec 11 j 12:28	23°♏18'19	
	-2072 Jan 10 j 04:50	0°♐	
desc. node	-2072 Mar 16 j 00:09	10°♐54'16	
retrograde	-2072 Apr 17 j 22:05	12°♐33'50	
opposition	-2072 Jun 17 j 17:58	7°♐37'20	-0°16'09
min. Earth dist.	-2072 Jun 18 j 02:05	7°♐34'42	4.07958 AU
direct	-2072 Aug 16 j 12:43	2°♐43'36	
evening set	-2072 Dec 19 j 03:14	21°♐47'44	
conjunction	-2071 Jan 01 j 01:09	24°♐52'36	-0°32'55
minimum elong	-2071 Jan 01 j 01:07	24°♐52'34	0°32'57
max. Earth dist.	-2071 Jan 01 j 03:07	24°♐53'46	6.03215 AU
morning rise	-2071 Jan 14 j 01:35	27°♐58'57	
	-2071 Jan 22 j 14:51	0°♑	
retrograde	-2071 May 25 j 10:09	18°♑08'19	
opposition	-2071 Jul 24 j 19:35	13°♑07'51	-1°19'21
min. Earth dist.	-2071 Jul 24 j 07:42	13°♑11'47	3.99952 AU
direct	-2071 Sep 21 j 09:10	8°♑14'40	
evening set	-2070 Jan 24 j 01:53	27°♑39'53	
	-2070 Feb 02 j 19:47	0°♒	
conjunction	-2070 Feb 06 j 07:02	0°♒50'00	-1°07'11
minimum elong	-2070 Feb 06 j 07:00	0°♒49'58	1°07'14
max. Earth dist.	-2070 Feb 07 j 14:33	1°♒08'55	5.98482 AU
morning rise	-2070 Feb 19 j 15:23	4°♒01'50	
	-2070 Apr 09 j 20:16	15°♒	
retrograde	-2070 Jul 02 j 01:19	24°♒31'27	
opposition	-2070 Aug 30 j 22:51	19°♒27'31	-1°53'05
min. Earth dist.	-2070 Aug 29 j 19:08	19°♒36'54	3.99189 AU
	-2070 Oct 11 j 15:33	15°℞♒	
direct	-2070 Oct 27 j 21:08	14°♒32'42	
	-2070 Nov 13 j 03:45	15°♒	
	-2069 Feb 13 j 01:38	0°♓	
evening set	-2069 Mar 02 j 05:34	3°♓59'28	

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

conjunction	-2069 Mar 15 j 18:02	7°♓11'24	-1°15'51
minimum elong	-2069 Mar 15 j 18:03	7°♓11'24	1°15'52
max. Earth dist.	-2069 Mar 17 j 18:16	7°♓39'58	6.01594 AU
morning rise	-2069 Mar 29 j 09:33	10°♓24'42	
	-2069 Jul 21 j 06:10	0°♈	
retrograde	-2069 Aug 07 j 07:02	0°♈28'46	
	-2069 Aug 24 j 06:24	30°℞♓	
opposition	-2069 Oct 05 j 21:59	25°♓23'27	-1°42'53
min. Earth dist.	-2069 Oct 04 j 13:34	25°♓34'32	4.05880 AU
direct	-2069 Dec 03 j 02:41	20°♓25'31	
	-2068 Feb 23 j 10:42	0°♈	
evening set	-2068 Apr 07 j 07:19	9°♈33'11	
conjunction	-2068 Apr 21 j 01:13	12°♈43'09	-0°55'57
minimum elong	-2068 Apr 21 j 01:17	12°♈43'11	0°55'56
max. Earth dist.	-2068 Apr 23 j 01:24	13°♈10'57	6.11228 AU
morning rise	-2068 May 04 j 20:14	15°♈53'29	
	-2068 Jul 13 j 14:46	0°♉	
retrograde	-2068 Sep 09 j 13:43	4°♉59'47	
min. Earth dist.	-2068 Nov 07 j 00:09	0°♉04'28	4.17338 AU
	-2068 Nov 07 j 13:17	30°℞♈	
opposition	-2068 Nov 08 j 01:05	29°♈55'59	-0°56'13
direct	-2067 Jan 06 j 06:24	24°♈55'02	
	-2067 Mar 06 j 01:17	0°♉	
evening set	-2067 May 13 j 04:31	13°♉32'41	
	-2067 May 19 j 16:46	15°♉	
conjunction	-2067 May 26 j 22:26	16°♉37'21	-0°17'18
minimum elong	-2067 May 26 j 22:28	16°♉37'22	0°17'16
max. Earth dist.	-2067 May 28 j 03:26	16°♉53'36	6.23607 AU
morning rise	-2067 Jun 09 j 15:36	19°♉41'22	
	-2067 Jul 29 j 10:38	0°♊	
retrograde	-2067 Oct 11 j 18:54	7°♊44'55	
asc. node	-2067 Nov 01 j 13:53	7°♊02'24	
opposition	-2067 Dec 10 j 10:07	2°♊44'35	0°06'12
min. Earth dist.	-2067 Dec 09 j 23:05	2°♊48'16	4.29436 AU
	-2066 Jan 01 j 03:33	30°℞♉	
direct	-2066 Feb 08 j 22:56	27°♉41'38	
	-2066 Mar 20 j 06:13	0°♊	
evening set	-2066 Jun 16 j 08:24	15°♊50'52	
conjunction	-2066 Jun 29 j 20:50	18°♊48'40	0°25'26
minimum elong	-2066 Jun 29 j 20:49	18°♊48'39	0°25'29
max. Earth dist.	-2066 Jun 29 j 23:57	18°♊50'22	6.34548 AU
morning rise	-2066 Jul 13 j 06:41	21°♊45'03	
	-2066 Aug 22 j 02:24	0°♋	
retrograde	-2066 Nov 11 j 18:09	9°♋01'45	
opposition	-2065 Jan 10 j 15:46	4°♋05'23	1°03'50
min. Earth dist.	-2065 Jan 10 j 22:11	4°♋03'17	4.38439 AU
	-2065 Feb 16 j 05:16	30°℞♊	
direct	-2065 Mar 13 j 10:13	29°♊01'53	
	-2065 Apr 07 j 21:35	0°♋	
evening set	-2065 Jul 18 j 20:52	16°♋52'16	
max. Earth dist.	-2065 Jul 31 j 01:46	19°♋31'27	6.40882 AU
conjunction	-2065 Aug 01 j 00:38	19°♋43'55	0°59'31
minimum elong	-2065 Aug 01 j 00:35	19°♋43'53	0°59'33
morning rise	-2065 Aug 14 j 01:20	22°♋34'00	
	-2065 Sep 18 j 22:28	0°♌	
retrograde	-2065 Dec 12 j 06:26	9°♌28'57	
opposition	-2064 Feb 10 j 13:19	4°♌35'40	1°42'11
min. Earth dist.	-2064 Feb 11 j 11:18	4°♌28'33	4.41855 AU
	-2064 Mar 26 j 18:08	30°℞♋	
direct	-2064 Apr 13 j 02:26	29°♋32'48	
	-2064 Apr 30 j 13:11	0°♌	
	-2064 Aug 07 j 14:03	15°♌	
evening set	-2064 Aug 18 j 05:16	17°♌17'27	
max. Earth dist.	-2064 Aug 29 j 10:01	19°♌44'15	6.41014 AU
conjunction	-2064 Aug 31 j 01:03	20°♌05'40	1°16'37
minimum elong	-2064 Aug 31 j 01:02	20°♌05'39	1°16'38
morning rise	-2064 Sep 12 j 17:44	22°♌52'29	
	-2064 Oct 16 j 19:04	0°♍	
retrograde	-2063 Jan 11 j 06:16	9°♍52'46	
opposition	-2063 Mar 12 j 22:58	5°♍01'05	1°52'36
min. Earth dist.	-2063 Mar 14 j 06:21	4°♍51'04	4.38812 AU
direct	-2063 May 14 j 15:22	0°♍00'05	
evening set	-2063 Sep 18 j 02:40	17°♍52'12	
max. Earth dist.	-2063 Sep 28 j 18:40	20°♍14'37	6.34941 AU
conjunction	-2063 Sep 30 j 17:18	20°♍40'39	1°12'29
minimum elong	-2063 Sep 30 j 17:19	20°♍40'40	1°12'29
morning rise	-2063 Oct 13 j 06:11	23°♍28'23	
	-2063 Nov 12 j 16:19	0°♎	
retrograde	-2062 Feb 12 j 16:12	10°♎59'42	
opposition	-2062 Apr 14 j 14:25	6°♎07'49	1°31'24
min. Earth dist.	-2062 Apr 15 j 23:29	5°♎57'18	4.30066 AU
direct	-2062 Jun 15 j 18:32	1°♎09'22	
evening set	-2062 Oct 19 j 08:59	19°♎20'51	
max. Earth dist.	-2062 Oct 30 j 07:20	21°♎50'35	6.24246 AU
conjunction	-2062 Oct 31 j 23:05	22°♎13'21	0°47'06
minimum elong	-2062 Oct 31 j 23:08	22°♎13'23	0°47'05
morning rise	-2062 Nov 13 j 12:41	25°♎05'52	
	-2062 Dec 05 j 12:12	0°♏	
retrograde	-2061 Mar 18 j 22:22	13°♏28'57	
opposition	-2061 May 18 j 22:31	8°♏35'11	0°41'06
min. Earth dist.	-2061 May 19 j 21:24	8°♏27'51	4.18050 AU
direct	-2061 Jul 18 j 22:23	3°♏39'34	
	-2061 Oct 19 j 05:48	15°♏	
evening set	-2061 Nov 20 j 20:45	22°♏18'42	
conjunction	-2061 Dec 03 j 13:50	25°♏17'38	0°05'56
minimum elong	-2061 Dec 03 j 13:51	25°♏17'39	0°05'53
behind sun begin	-2061 Dec 03 j 06:11	25°♏13'09	
behind sun end	-2061 Dec 03 j 21:31	25°♏22'08	
max. Earth dist.	-2061 Dec 02 j 16:33	25°♏05'08	6.12006 AU
morning rise	-2061 Dec 16 j 08:15	28°♏17'29	
	-2061 Dec 23 j 16:38	0°♐	
desc. node	-2060 Jan 23 j 15:35	6°♐49'59	
retrograde	-2060 Apr 23 j 05:55	17°♐41'48	
opposition	-2060 Jun 23 j 00:10	12°♐44'41	-0°26'01
min. Earth dist.	-2060 Jun 23 j 05:36	12°♐42'55	4.06506 AU
direct	-2060 Aug 21 j 15:09	7°♐51'08	
evening set	-2060 Dec 24 j 04:02	26°♐58'41	
	-2059 Jan 05 j 19:37	0°♑	
conjunction	-2059 Jan 06 j 02:56	0°♑04'23	-0°38'54
minimum elong	-2059 Jan 06 j 02:54	0°♑04'21	0°38'57
max. Earth dist.	-2059 Jan 06 j 10:11	0°♑08'43	6.02246 AU
morning rise	-2059 Jan 19 j 04:26	3°♑11'37	
retrograde	-2059 May 30 j 19:34	23°♑25'29	
opposition	-2059 Jul 30 j 03:21	18°♑24'26	-1°26'30
min. Earth dist.	-2059 Jul 29 j 12:18	18°♑29'26	3.99593 AU
direct	-2059 Sep 26 j 13:29	13°♑31'08	
	-2058 Jan 16 j 20:13	0°♒	
evening set	-2058 Jan 29 j 07:40	2°♒56'49	
conjunction	-2058 Feb 11 j 13:40	6°♒07'13	-1°10'12
minimum elong	-2058 Feb 11 j 13:38	6°♒07'11	1°10'13
max. Earth dist.	-2058 Feb 12 j 23:30	6°♒27'30	5.98716 AU
morning rise	-2058 Feb 24 j 23:08	9°♒19'22	
	-2058 Mar 21 j 09:41	15°♒	
retrograde	-2058 Jul 07 j 05:32	29°♒46'50	

Attention, astronomical year style is used: The year -2058 in astronomical counting style is the year 2059 BCE in historical counting style.

min. Earth dist.	-2058 Sep 03 j 21:43	24°♒52'27	3.99997 AU
opposition	-2058 Sep 05 j 03:05	24°♒42'29	-1°54'20
direct	-2058 Nov 02 j 01:14	19°♒47'13	
	-2057 Jan 25 j 10:59	0°♓	
evening set	-2057 Mar 07 j 11:48	9°♓11'19	
conjunction	-2057 Mar 21 j 01:20	12°♓23'05	-1°14'39
minimum elong	-2057 Mar 21 j 01:22	12°♓23'06	1°14'39
max. Earth dist.	-2057 Mar 23 j 03:43	12°♓52'49	6.02897 AU
morning rise	-2057 Apr 03 j 17:24	15°♓36'02	
	-2057 Jun 12 j 00:18	0°♈	
retrograde	-2057 Aug 12 j 06:30	5°♈32'18	
opposition	-2057 Oct 10 j 19:51	0°♈27'03	-1°38'05
min. Earth dist.	-2057 Oct 09 j 12:37	0°♈37'43	4.07524 AU
	-2057 Oct 14 j 03:11	30°℞♓	
direct	-2057 Dec 08 j 03:51	25°♓28'41	
	-2056 Jan 31 j 07:21	0°♈	
evening set	-2056 Apr 12 j 10:00	14°♈31'38	
conjunction	-2056 Apr 26 j 04:09	17°♈40'56	-0°51'19
minimum elong	-2056 Apr 26 j 04:12	17°♈40'58	0°51'19
max. Earth dist.	-2056 Apr 28 j 01:51	18°♈07'10	6.13070 AU
morning rise	-2056 May 09 j 23:21	20°♈50'29	
	-2056 Jun 21 j 10:19	0°♉	
retrograde	-2056 Sep 14 j 03:22	9°♉47'12	
opposition	-2056 Nov 12 j 15:57	4°♉43'48	-0°47'54
min. Earth dist.	-2056 Nov 11 j 16:09	4°♉51'53	4.19198 AU
	-2056 Dec 28 j 19:17	30°℞♈	
direct	-2055 Jan 11 j 01:00	29°♈42'30	
	-2055 Jan 24 j 09:51	0°♉	
	-2055 May 03 j 05:03	15°♉	
evening set	-2055 May 18 j 01:27	18°♉15'33	
conjunction	-2055 May 31 j 18:55	21°♉19'17	-0°11'15
minimum elong	-2055 May 31 j 18:57	21°♉19'18	0°11'12
behind sun begin	-2055 May 31 j 12:54	21°♉15'56	
behind sun end	-2055 Jun 01 j 00:59	21°♉22'39	
max. Earth dist.	-2055 Jun 01 j 20:03	21°♉33'19	6.25364 AU
morning rise	-2055 Jun 14 j 11:16	24°♉22'13	
	-2055 Jul 10 j 13:24	0°♊	
asc. node	-2055 Sep 11 j 14:27	10°♊25'09	
retrograde	-2055 Oct 16 j 05:23	12°♊17'57	
opposition	-2055 Dec 14 j 20:01	7°♊18'13	0°14'57
min. Earth dist.	-2055 Dec 14 j 12:14	7°♊20'49	4.30940 AU
direct	-2054 Feb 13 j 13:55	2°♊15'07	
evening set	-2054 Jun 20 j 23:36	20°♊21'13	
conjunction	-2054 Jul 04 j 10:58	23°♊18'07	0°30'57
minimum elong	-2054 Jul 04 j 10:56	23°♊18'05	0°31'00
max. Earth dist.	-2054 Jul 04 j 09:40	23°♊17'24	6.35682 AU
morning rise	-2054 Jul 17 j 19:39	26°♊13'34	
	-2054 Aug 04 j 10:18	0°♋	
retrograde	-2054 Nov 16 j 00:29	13°♋26'01	
opposition	-2053 Jan 14 j 23:32	8°♋30'08	1°10'36
min. Earth dist.	-2053 Jan 15 j 08:07	8°♋27'19	4.39158 AU
direct	-2053 Mar 17 j 20:21	3°♋26'38	
evening set	-2053 Jul 23 j 07:36	21°♋16'00	
max. Earth dist.	-2053 Aug 04 j 09:17	23°♋53'27	6.41127 AU
conjunction	-2053 Aug 05 j 10:15	24°♋07'04	1°03'04
minimum elong	-2053 Aug 05 j 10:13	24°♋07'03	1°03'06
morning rise	-2053 Aug 18 j 09:38	26°♋56'33	
	-2053 Sep 01 j 16:26	0°♌	
retrograde	-2053 Dec 16 j 14:18	13°♌51'16	
opposition	-2052 Feb 14 j 22:10	8°♌58'23	1°45'27
min. Earth dist.	-2052 Feb 15 j 21:56	8°♌50'43	4.41630 AU
direct	-2052 Apr 17 j 12:23	3°♌55'48	
	-2052 Jul 21 j 15:53	15°♌	
evening set	-2052 Aug 22 j 14:04	21°♌41'26	
max. Earth dist.	-2052 Sep 02 j 14:46	24°♌06'25	6.40316 AU
conjunction	-2052 Sep 04 j 08:49	24°♌29'32	1°17'21
minimum elong	-2052 Sep 04 j 08:49	24°♌29'31	1°17'22
morning rise	-2052 Sep 17 j 00:54	27°♌16'22	
	-2052 Sep 29 j 15:25	0°♍	
retrograde	-2051 Jan 15 j 18:59	14°♍20'15	
opposition	-2051 Mar 17 j 11:39	9°♍28'41	1°51'31
min. Earth dist.	-2051 Mar 18 j 20:01	9°♍18'21	4.37707 AU
direct	-2051 May 19 j 03:05	4°♍28'01	
evening set	-2051 Sep 22 j 12:04	22°♍22'55	
max. Earth dist.	-2051 Oct 03 j 05:24	24°♍46'33	6.33533 AU
conjunction	-2051 Oct 05 j 02:33	25°♍11'51	1°10'06
minimum elong	-2051 Oct 05 j 02:35	25°♍11'52	1°10'06
morning rise	-2051 Oct 17 j 15:08	28°♍00'04	
	-2051 Oct 26 j 15:53	0°♎	
retrograde	-2050 Feb 17 j 09:26	15°♎37'59	
opposition	-2050 Apr 19 j 08:41	10°♎46'00	1°25'51
min. Earth dist.	-2050 Apr 20 j 16:04	10°♎36'01	4.28461 AU
direct	-2050 Jun 20 j 08:26	5°♎48'04	
evening set	-2050 Oct 23 j 21:40	24°♎03'11	
max. Earth dist.	-2050 Nov 03 j 21:53	26°♎34'37	6.22595 AU
conjunction	-2050 Nov 05 j 11:50	26°♎56'27	0°42'00
minimum elong	-2050 Nov 05 j 11:53	26°♎56'28	0°41'59
morning rise	-2050 Nov 18 j 02:00	29°♎49'53	
	-2050 Nov 18 j 19:43	0°♏	
	-2049 Feb 04 j 07:56	15°♏	
retrograde	-2049 Mar 23 j 23:42	18°♏21'07	
	-2049 May 11 j 15:22	15°℞♏	
opposition	-2049 May 23 j 23:00	13°♏26'57	0°32'11
min. Earth dist.	-2049 May 24 j 19:48	13°♏20'16	4.16463 AU
direct	-2049 Jul 23 j 19:05	8°♏31'43	
	-2049 Sep 28 j 19:56	15°♏	
evening set	-2049 Nov 25 j 14:18	27°♏14'17	
desc. node	-2049 Dec 03 j 05:45	29°♏01'58	
	-2049 Dec 07 j 08:12	0°♐	
conjunction	-2049 Dec 08 j 08:08	0°♐14'07	-0°00'37
minimum elong	-2049 Dec 08 j 08:08	0°♐14'06	0°00'40
behind sun begin	-2049 Dec 08 j 00:05	0°♐09'23	
behind sun end	-2049 Dec 08 j 16:10	0°♐18'49	
max. Earth dist.	-2049 Dec 07 j 15:26	0°♐04'16	6.10645 AU
morning rise	-2049 Dec 21 j 03:17	3°♐14'54	
retrograde	-2048 Apr 28 j 10:39	22°♐46'13	
opposition	-2048 Jun 28 j 04:29	17°♐48'38	-0°35'31
min. Earth dist.	-2048 Jun 28 j 06:38	17°♐47'55	4.05514 AU
direct	-2048 Aug 26 j 15:03	12°♐55'17	
	-2048 Dec 20 j 07:55	0°♑	
evening set	-2048 Dec 29 j 03:17	2°♑04'53	
conjunction	-2047 Jan 11 j 02:52	5°♑11'10	-0°44'27
minimum elong	-2047 Jan 11 j 02:49	5°♑11'08	0°44'30
max. Earth dist.	-2047 Jan 11 j 13:08	5°♑17'18	6.01687 AU
morning rise	-2047 Jan 24 j 05:27	8°♑19'05	
retrograde	-2047 Jun 05 j 00:15	28°♑35'53	
opposition	-2047 Aug 04 j 07:38	23°♑34'15	-1°32'44
min. Earth dist.	-2047 Aug 03 j 13:50	23°♑40'12	3.99542 AU
direct	-2047 Oct 01 j 15:32	18°♑40'46	
	-2047 Dec 30 j 00:33	0°♒	
evening set	-2046 Feb 03 j 10:15	8°♒06'10	
conjunction	-2046 Feb 16 j 17:24	11°♒16'48	-1°12'33
minimum elong	-2046 Feb 16 j 17:22	11°♒16'47	1°12'35

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

max. Earth dist.	-2046 Feb 18 j 07:25	11°♒39'33	5.99161 AU
morning rise	-2046 Mar 02 j 03:40	14°♒29'07	
	-2046 Mar 04 j 07:48	15°♒	
	-2046 May 15 j 22:45	0°♓	
retrograde	-2046 Jul 12 j 07:52	4°♓53'38	
	-2046 Sep 08 j 19:17	30°℞♒	
min. Earth dist.	-2046 Sep 08 j 22:17	29°♒58'59	4.00897 AU
opposition	-2046 Sep 10 j 03:35	29°♒49'02	-1°54'37
direct	-2046 Nov 07 j 02:44	24°♒53'24	
	-2045 Jan 03 j 06:58	0°♓	
evening set	-2045 Mar 12 j 14:31	14°♓14'44	
conjunction	-2045 Mar 26 j 04:45	17°♓26'16	-1°12'55
minimum elong	-2045 Mar 26 j 04:47	17°♓26'17	1°12'54
max. Earth dist.	-2045 Mar 28 j 06:35	17°♓55'33	6.04143 AU
morning rise	-2045 Apr 08 j 21:36	20°♓38'57	
	-2045 May 21 j 04:25	0°♈	
retrograde	-2045 Aug 17 j 00:16	10°♈27'48	
min. Earth dist.	-2045 Oct 14 j 06:46	5°♈33'20	4.08990 AU
opposition	-2045 Oct 15 j 13:55	5°♈22'42	-1°32'45
direct	-2045 Dec 13 j 00:04	0°♈23'53	
evening set	-2044 Apr 17 j 09:36	19°♈23'06	
conjunction	-2044 May 01 j 04:00	22°♈31'49	-0°46'29
minimum elong	-2044 May 01 j 04:04	22°♈31'51	0°46'28
max. Earth dist.	-2044 May 02 j 22:38	22°♈56'13	6.14646 AU
morning rise	-2044 May 14 j 23:08	25°♈40'38	
	-2044 Jun 03 j 08:41	0°♉	
retrograde	-2044 Sep 18 j 17:10	14°♉29'07	
min. Earth dist.	-2044 Nov 16 j 07:38	9°♉33'12	4.20718 AU
opposition	-2044 Nov 17 j 04:22	9°♉26'10	-0°39'31
direct	-2043 Jan 15 j 18:22	4°♉24'31	
	-2043 Apr 15 j 14:41	15°♉	
evening set	-2043 May 22 j 20:13	22°♉54'16	
conjunction	-2043 Jun 05 j 13:16	25°♉57'14	-0°05'17
minimum elong	-2043 Jun 05 j 13:16	25°♉57'14	0°05'15
behind sun begin	-2043 Jun 05 j 05:14	25°♉52'47	
behind sun end	-2043 Jun 05 j 21:19	26°♉01'42	
max. Earth dist.	-2043 Jun 06 j 11:21	26°♉09'32	6.26726 AU
morning rise	-2043 Jun 19 j 04:49	28°♉59'16	
	-2043 Jun 23 j 19:02	0°♊	
asc. node	-2043 Jul 23 j 09:34	6°♊15'12	
retrograde	-2043 Oct 20 j 12:30	16°♊48'42	
opposition	-2043 Dec 19 j 04:46	11°♊49'30	0°23'25
min. Earth dist.	-2043 Dec 18 j 22:30	11°♊51'35	4.32059 AU
direct	-2042 Feb 18 j 01:17	6°♊46'16	
evening set	-2042 Jun 25 j 13:42	24°♊50'22	
conjunction	-2042 Jul 08 j 23:55	27°♊46'28	0°36'13
minimum elong	-2042 Jul 08 j 23:53	27°♊46'27	0°36'16
max. Earth dist.	-2042 Jul 08 j 18:47	27°♊43'40	6.36486 AU
	-2042 Jul 19 j 03:58	0°♋	
morning rise	-2042 Jul 22 j 07:25	0°♋41'06	
retrograde	-2042 Nov 20 j 08:29	17°♋50'25	
opposition	-2041 Jan 19 j 07:27	12°♋55'03	1°16'55
min. Earth dist.	-2041 Jan 19 j 18:53	12°♋51'18	4.39615 AU
direct	-2041 Mar 22 j 07:56	7°♋51'36	
evening set	-2041 Jul 27 j 18:14	25°♋40'24	
conjunction	-2041 Aug 09 j 19:43	28°♋30'57	1°06'13
minimum elong	-2041 Aug 09 j 19:40	28°♋30'56	1°06'15
max. Earth dist.	-2041 Aug 08 j 15:51	28°♋15'45	6.41189 AU
	-2041 Aug 16 j 14:58	0°♌	
morning rise	-2041 Aug 22 j 17:58	1°♌19'56	
	-2041 Nov 04 j 06:28	15°♌	
retrograde	-2041 Dec 20 j 22:11	18°♌14'50	

	-2040 Feb 06 j 08:59	15°℞♌	
opposition	-2040 Feb 19 j 07:27	13°♌22'09	1°48'06
min. Earth dist.	-2040 Feb 20 j 08:09	13°♌14'11	4.41332 AU
direct	-2040 Apr 21 j 22:07	8°♌19'43	
	-2040 Jul 02 j 03:43	15°♌	
evening set	-2040 Aug 26 j 22:50	26°♌06'09	
max. Earth dist.	-2040 Sep 06 j 23:09	28°♌31'11	6.39674 AU
conjunction	-2040 Sep 08 j 16:50	28°♌54'09	1°17'37
minimum elong	-2040 Sep 08 j 16:49	28°♌54'09	1°17'38
	-2040 Sep 13 j 16:20	0°♍	
morning rise	-2040 Sep 21 j 08:02	1°♍40'55	
retrograde	-2039 Jan 20 j 06:35	18°♍47'58	
opposition	-2039 Mar 22 j 00:35	13°♍56'25	1°49'45
min. Earth dist.	-2039 Mar 23 j 09:14	13°♍46'02	4.36751 AU
direct	-2039 May 23 j 14:56	8°♍56'07	
evening set	-2039 Sep 26 j 21:02	26°♍52'48	
max. Earth dist.	-2039 Oct 07 j 13:14	29°♍16'17	6.32316 AU
conjunction	-2039 Oct 09 j 11:05	29°♍42'03	1°07'18
minimum elong	-2039 Oct 09 j 11:07	29°♍42'04	1°07'18
	-2039 Oct 10 j 19:01	0°♎	
morning rise	-2039 Oct 21 j 23:45	2°♎30'46	
retrograde	-2038 Feb 22 j 03:15	20°♎14'34	
opposition	-2038 Apr 24 j 02:37	15°♎22'17	1°19'45
min. Earth dist.	-2038 Apr 25 j 09:04	15°♎12'35	4.27027 AU
direct	-2038 Jun 24 j 23:43	10°♎24'40	
evening set	-2038 Oct 28 j 09:17	28°♎42'40	
	-2038 Nov 03 j 00:08	0°♏	
conjunction	-2038 Nov 09 j 23:53	1°♏36'41	0°36'39
minimum elong	-2038 Nov 09 j 23:56	1°♏36'43	0°36'38
max. Earth dist.	-2038 Nov 08 j 13:14	1°♏16'42	6.21067 AU
morning rise	-2038 Nov 22 j 14:23	4°♏30'57	
	-2037 Jan 10 j 17:03	15°♏	
retrograde	-2037 Mar 28 j 22:37	23°♏09'46	
opposition	-2037 May 28 j 22:01	18°♏15'12	0°23'05
min. Earth dist.	-2037 May 29 j 16:47	18°♏09'10	4.14935 AU
	-2037 Jun 25 j 15:12	15°℞♏	
direct	-2037 Jul 28 j 13:39	13°♏20'19	
	-2037 Aug 30 j 04:14	15°♏	
desc. node	-2037 Oct 13 j 03:37	21°♏36'09	
	-2037 Nov 21 j 06:06	0°♐	
evening set	-2037 Nov 30 j 07:11	2°♐06'24	
max. Earth dist.	-2037 Dec 12 j 10:56	4°♐58'28	6.09241 AU
conjunction	-2037 Dec 13 j 01:32	5°♐07'05	-0°07'04
minimum elong	-2037 Dec 13 j 01:31	5°♐07'04	0°07'06
behind sun begin	-2037 Dec 12 j 18:04	5°♐02'42	
behind sun end	-2037 Dec 13 j 08:57	5°♐11'27	
morning rise	-2037 Dec 25 j 21:44	8°♐08'54	
retrograde	-2036 May 03 j 14:38	27°♐47'35	
opposition	-2036 Jul 03 j 07:32	22°♐49'25	-0°44'44
min. Earth dist.	-2036 Jul 03 j 06:39	22°♐49'42	4.04356 AU
direct	-2036 Aug 31 j 13:54	17°♐56'07	
	-2036 Dec 03 j 00:57	0°♑	
evening set	-2035 Jan 03 j 02:00	7°♑08'47	
conjunction	-2035 Jan 16 j 02:43	10°♑15'51	-0°49'41
minimum elong	-2035 Jan 16 j 02:40	10°♑15'49	0°49'43
max. Earth dist.	-2035 Jan 16 j 18:03	10°♑25'03	6.00884 AU
morning rise	-2035 Jan 29 j 06:13	13°♑24'34	
	-2035 Apr 21 j 06:42	0°♒	
retrograde	-2035 Jun 10 j 07:05	3°♒45'16	
	-2035 Jul 30 j 19:13	30°℞♑	
opposition	-2035 Aug 09 j 11:43	28°♑43'10	-1°38'18
min. Earth dist.	-2035 Aug 08 j 16:41	28°♑49'32	3.99194 AU

Attention, astronomical year style is used: The year -2035 in astronomical counting style is the year 2036 BCE in historical counting style.

direct	-2035 Oct 06 j 17:17	23°♉49'30	
	-2035 Dec 08 j 23:50	0°♒	
evening set	-2034 Feb 08 j 13:56	13°♒16'02	
	-2034 Feb 15 j 20:20	15°♒	
conjunction	-2034 Feb 21 j 22:00	16°♒27'04	-1°14'23
minimum elong	-2034 Feb 21 j 21:59	16°♒27'03	1°14'25
max. Earth dist.	-2034 Feb 23 j 13:25	16°♒50'38	5.99271 AU
morning rise	-2034 Mar 07 j 09:29	19°♒39'48	
	-2034 Apr 22 j 16:49	0°♓	
retrograde	-2034 Jul 17 j 09:33	10°♓02'26	
min. Earth dist.	-2034 Sep 13 j 21:40	5°♓08'09	4.01470 AU
opposition	-2034 Sep 15 j 04:34	4°♓57'38	-1°54'05
direct	-2034 Nov 12 j 03:06	0°♓01'36	
evening set	-2033 Mar 17 j 19:23	19°♓21'42	
conjunction	-2033 Mar 31 j 10:31	22°♓33'12	-1°10'36
minimum elong	-2033 Mar 31 j 10:34	22°♓33'13	1°10'36
max. Earth dist.	-2033 Apr 02 j 12:04	23°♓02'14	6.05123 AU
morning rise	-2033 Apr 14 j 04:00	25°♓45'42	
	-2033 May 02 j 17:01	0°♈	
retrograde	-2033 Aug 21 j 22:17	15°♈28'06	
min. Earth dist.	-2033 Oct 19 j 04:38	10°♈33'14	4.10246 AU
opposition	-2033 Oct 20 j 10:05	10°♈23'11	-1°26'40
direct	-2033 Dec 17 j 24:00	5°♈23'57	
evening set	-2032 Apr 22 j 11:47	24°♈20'13	
conjunction	-2032 May 06 j 06:32	27°♈28'27	-0°41'11
minimum elong	-2032 May 06 j 06:35	27°♈28'29	0°41'09
max. Earth dist.	-2032 May 08 j 00:17	27°♈52'15	6.16095 AU
	-2032 May 17 j 08:53	0°♉	
morning rise	-2032 May 20 j 01:32	0°♉36'36	
	-2032 Jul 31 j 22:51	15°♉	
retrograde	-2032 Sep 23 j 07:23	19°♉17'08	
	-2032 Nov 16 j 05:05	15°℞♉	
opposition	-2032 Nov 21 j 19:22	14°♉14'43	-0°30'40
min. Earth dist.	-2032 Nov 20 j 23:21	14°♉21'30	4.22230 AU
direct	-2031 Jan 20 j 12:06	9°♉12'53	
	-2031 Mar 25 j 06:23	15°♉	
evening set	-2031 May 27 j 17:48	27°♉39'19	
asc. node	-2031 Jun 01 j 11:47	28°♉42'20	
	-2031 Jun 07 j 07:39	0°♊	
conjunction	-2031 Jun 10 j 10:03	0°♊41'21	0°01'00
minimum elong	-2031 Jun 10 j 10:02	0°♊41'21	0°01'03
behind sun begin	-2031 Jun 10 j 01:44	0°♊36'45	
behind sun end	-2031 Jun 10 j 18:21	0°♊45'57	
max. Earth dist.	-2031 Jun 11 j 03:58	0°♊51'18	6.28216 AU
morning rise	-2031 Jun 24 j 00:48	3°♊42'25	
retrograde	-2031 Oct 24 j 23:55	21°♊25'08	
opposition	-2031 Dec 23 j 16:06	16°♊26'32	0°31'58
min. Earth dist.	-2031 Dec 23 j 12:37	16°♊27'42	4.33437 AU
direct	-2030 Feb 22 j 17:41	11°♊23'17	
evening set	-2030 Jun 30 j 05:37	29°♊24'17	
	-2030 Jul 02 j 23:21	0°♋	
conjunction	-2030 Jul 13 j 14:45	2°♋19'26	0°41'21
minimum elong	-2030 Jul 13 j 14:42	2°♋19'25	0°41'24
max. Earth dist.	-2030 Jul 13 j 07:57	2°♋15'43	6.37674 AU
morning rise	-2030 Jul 26 j 20:48	5°♋13'01	
retrograde	-2030 Nov 24 j 14:52	22°♋17'57	
opposition	-2029 Jan 23 j 16:37	17°♋23'01	1°22'50
min. Earth dist.	-2029 Jan 24 j 04:42	17°♋19'05	4.40572 AU
direct	-2029 Mar 26 j 19:14	12°♋19'44	
	-2029 Jul 31 j 17:42	0°♌	
evening set	-2029 Aug 01 j 04:56	0°♌06'04	
max. Earth dist.	-2029 Aug 12 j 23:12	2°♌39'32	6.41843 AU
conjunction	-2029 Aug 14 j 05:04	2°♌55'50	1°09'01
minimum elong	-2029 Aug 14 j 05:02	2°♌55'48	1°09'03
morning rise	-2029 Aug 27 j 02:07	5°♌44'04	
	-2029 Oct 11 j 17:58	15°♌	
retrograde	-2029 Dec 25 j 06:02	22°♌37'25	
opposition	-2028 Feb 23 j 16:41	17°♌45'00	1°50'05
min. Earth dist.	-2028 Feb 24 j 19:17	17°♌36'28	4.41643 AU
	-2028 Mar 17 j 09:37	15°℞♌	
direct	-2028 Apr 26 j 09:45	12°♌42'52	
	-2028 Jun 05 j 11:07	15°♌	
	-2028 Aug 29 j 02:41	0°♍	
evening set	-2028 Aug 31 j 05:44	0°♍27'51	
max. Earth dist.	-2028 Sep 11 j 03:15	2°♍51'30	6.39599 AU
conjunction	-2028 Sep 12 j 22:50	3°♍15'31	1°17'26
minimum elong	-2028 Sep 12 j 22:50	3°♍15'31	1°17'27
morning rise	-2028 Sep 25 j 13:23	6°♍02'02	
retrograde	-2027 Jan 24 j 15:22	23°♍10'44	
opposition	-2027 Mar 26 j 11:23	18°♍19'08	1°47'21
min. Earth dist.	-2027 Mar 27 j 19:56	18°♍08'46	4.36289 AU
direct	-2027 May 28 j 00:42	13°♍19'07	
	-2027 Sep 25 j 09:53	0°♎	
evening set	-2027 Oct 01 j 02:50	1°♎16'04	
max. Earth dist.	-2027 Oct 11 j 20:20	3°♎40'33	6.31507 AU
conjunction	-2027 Oct 13 j 16:42	4°♎05'33	1°04'10
minimum elong	-2027 Oct 13 j 16:44	4°♎05'34	1°04'10
morning rise	-2027 Oct 26 j 05:07	6°♎54'32	
retrograde	-2026 Feb 26 j 16:28	24°♎43'07	
opposition	-2026 Apr 28 j 16:54	19°♎50'38	1°13'20
min. Earth dist.	-2026 Apr 29 j 23:19	19°♎40'57	4.25891 AU
direct	-2026 Jun 29 j 11:43	14°♎53'22	
	-2026 Oct 18 j 11:12	0°♏	
evening set	-2026 Nov 01 j 17:10	3°♏13'32	
max. Earth dist.	-2026 Nov 12 j 21:10	5°♏48'07	6.19693 AU
conjunction	-2026 Nov 14 j 07:55	6°♏08'13	0°31'16
minimum elong	-2026 Nov 14 j 07:57	6°♏08'15	0°31'14
morning rise	-2026 Nov 26 j 23:07	9°♏03'21	
	-2026 Dec 23 j 12:31	15°♏	
retrograde	-2025 Apr 02 j 17:36	27°♏49'38	
opposition	-2025 Jun 02 j 17:03	22°♏54'36	0°14'08
min. Earth dist.	-2025 Jun 03 j 09:46	22°♏49'13	4.13403 AU
direct	-2025 Aug 02 j 04:19	17°♏59'54	
desc. node	-2025 Aug 25 j 03:31	18°♏50'21	
	-2025 Nov 04 j 18:49	0°♐	
evening set	-2025 Dec 04 j 20:10	6°♐49'54	
conjunction	-2025 Dec 17 j 15:24	9°♐51'35	-0°13'11
minimum elong	-2025 Dec 17 j 15:23	9°♐51'35	0°13'14
behind sun begin	-2025 Dec 17 j 10:32	9°♐48'43	
behind sun end	-2025 Dec 17 j 20:13	9°♐54'26	
max. Earth dist.	-2025 Dec 17 j 04:43	9°♐45'16	6.07704 AU
morning rise	-2025 Dec 30 j 12:21	12°♐54'28	
	-2024 Mar 27 j 12:44	0°♑	
retrograde	-2024 May 08 j 17:08	2°♑41'16	
	-2024 Jun 20 j 03:02	30°℞♐	
opposition	-2024 Jul 08 j 07:03	27°♐42'36	-0°53'21
min. Earth dist.	-2024 Jul 08 j 04:59	27°♐43'16	4.02958 AU
direct	-2024 Sep 05 j 09:25	22°♐49'21	
	-2024 Nov 13 j 15:45	0°♑	
evening set	-2023 Jan 07 j 22:26	12°♑06'23	
conjunction	-2023 Jan 21 j 00:03	15°♑14'24	-0°54'22
minimum elong	-2023 Jan 20 j 24:00	15°♑14'22	0°54'24
max. Earth dist.	-2023 Jan 21 j 17:14	15°♑24'43	5.99745 AU
morning rise	-2023 Feb 03 j 04:53	18°♑24'10	

Attention, astronomical year style is used: The year -2023 in astronomical counting style is the year 2024 BCE in historical counting style.

	-2023 Mar 27 j 14:14	0°♒	
retrograde	-2023 Jun 15 j 09:34	8°♒50'00	
opposition	-2023 Aug 14 j 13:09	3°♒47'26	-1°42'59
min. Earth dist.	-2023 Aug 13 j 15:19	3°♒54'45	3.98472 AU
	-2023 Sep 16 j 00:51	30°℞♑	
direct	-2023 Oct 11 j 15:00	28°♑53'32	
	-2023 Nov 06 j 05:34	0°♒	
	-2022 Jan 30 j 07:16	15°♒	
evening set	-2022 Feb 13 j 16:26	18°♒22'54	
conjunction	-2022 Feb 27 j 01:46	21°♒34'35	-1°15'33
minimum elong	-2022 Feb 27 j 01:46	21°♒34'35	1°15'35
max. Earth dist.	-2022 Feb 28 j 19:46	21°♒59'41	5.99030 AU
morning rise	-2022 Mar 12 j 14:18	24°♒47'54	
	-2022 Apr 04 j 00:24	0°♓	
retrograde	-2022 Jul 22 j 12:27	15°♓09'56	
min. Earth dist.	-2022 Sep 18 j 22:01	10°♓15'26	4.01735 AU
opposition	-2022 Sep 20 j 04:57	10°♓04'54	-1°52'37
direct	-2022 Nov 17 j 04:44	5°♓08'24	
evening set	-2021 Mar 23 j 00:06	24°♓28'13	
conjunction	-2021 Apr 05 j 16:13	27°♓39'48	-1°07'42
minimum elong	-2021 Apr 05 j 16:16	27°♓39'49	1°07'43
max. Earth dist.	-2021 Apr 07 j 19:33	28°♓09'48	6.05882 AU
	-2021 Apr 15 j 16:25	0°♈	
morning rise	-2021 Apr 19 j 10:20	0°♈52'13	
retrograde	-2021 Aug 26 j 18:55	20°♈28'30	
min. Earth dist.	-2021 Oct 24 j 00:24	15°♈33'52	4.11408 AU
opposition	-2021 Oct 25 j 06:10	15°♈23'42	-1°19'55
direct	-2021 Dec 22 j 21:45	10°♈24'03	
evening set	-2020 Apr 27 j 14:23	29°♈17'21	
	-2020 Apr 30 j 17:47	0°♉	
conjunction	-2020 May 11 j 09:03	2°♉24'57	-0°35'34
minimum elong	-2020 May 11 j 09:05	2°♉24'58	0°35'32
max. Earth dist.	-2020 May 12 j 23:46	2°♉46'57	6.17558 AU
morning rise	-2020 May 25 j 03:59	5°♉32'22	
	-2020 Jul 08 j 16:41	15°♉	
retrograde	-2020 Sep 27 j 21:50	24°♉04'35	
opposition	-2020 Nov 26 j 10:17	19°♉02'30	-0°21'36
min. Earth dist.	-2020 Nov 25 j 16:20	19°♉08'34	4.23820 AU
	-2020 Dec 31 j 11:58	15°℞♉	
direct	-2019 Jan 25 j 08:12	14°♉00'17	
	-2019 Feb 19 j 11:55	15°♉	
asc. node	-2019 Apr 10 j 03:43	21°♉39'16	
	-2019 May 21 j 17:20	0°♊	
evening set	-2019 Jun 01 j 14:41	2°♊22'39	
conjunction	-2019 Jun 15 j 06:20	5°♊23'44	0°07'12
minimum elong	-2019 Jun 15 j 06:19	5°♊23'43	0°07'15
behind sun begin	-2019 Jun 14 j 22:44	5°♊19'33	
behind sun end	-2019 Jun 15 j 13:53	5°♊27'54	
max. Earth dist.	-2019 Jun 15 j 22:47	5°♊32'50	6.29795 AU
morning rise	-2019 Jun 28 j 19:52	8°♊23'38	
retrograde	-2019 Oct 29 j 08:28	25°♊59'13	
opposition	-2019 Dec 28 j 02:49	21°♊01'06	0°40'16
min. Earth dist.	-2019 Dec 28 j 00:34	21°♊01'50	4.34850 AU
direct	-2018 Feb 27 j 08:06	15°♊57'44	
	-2018 Jun 16 j 10:35	0°♋	
evening set	-2018 Jul 04 j 20:23	3°♋55'18	
conjunction	-2018 Jul 18 j 04:05	6°♋49'26	0°46'16
minimum elong	-2018 Jul 18 j 04:02	6°♋49'25	0°46'17
max. Earth dist.	-2018 Jul 17 j 16:38	6°♋43'12	6.38769 AU
morning rise	-2018 Jul 31 j 08:56	9°♋42'03	
retrograde	-2018 Nov 28 j 23:01	26°♋43'10	
opposition	-2017 Jan 28 j 01:37	21°♋48'38	1°28'19
min. Earth dist.	-2017 Jan 28 j 16:48	21°♋43'42	4.41271 AU
direct	-2017 Mar 31 j 08:23	16°♋45'24	
	-2017 Jul 15 j 08:41	0°♌	
evening set	-2017 Aug 05 j 14:56	4°♌30'07	
max. Earth dist.	-2017 Aug 17 j 06:10	7°♌01'56	6.42061 AU
conjunction	-2017 Aug 18 j 14:02	7°♌19'19	1°11'27
minimum elong	-2017 Aug 18 j 14:00	7°♌19'18	1°11'30
morning rise	-2017 Aug 31 j 09:50	10°♌06'59	
	-2017 Sep 23 j 10:54	15°♌	
retrograde	-2017 Dec 29 j 13:11	27°♌00'27	
opposition	-2016 Feb 28 j 02:23	22°♌08'14	1°51'34
min. Earth dist.	-2016 Feb 29 j 05:38	21°♌59'30	4.41381 AU
direct	-2016 Apr 30 j 19:14	17°♌06'20	
	-2016 Aug 12 j 19:21	0°♍	
evening set	-2016 Sep 04 j 13:48	4°♍51'57	
max. Earth dist.	-2016 Sep 15 j 09:41	7°♍15'02	6.38866 AU
conjunction	-2016 Sep 17 j 06:08	7°♍39'36	1°16'52
minimum elong	-2016 Sep 17 j 06:09	7°♍39'36	1°16'52
morning rise	-2016 Sep 29 j 20:06	10°♍26'11	
retrograde	-2015 Jan 29 j 04:41	27°♍38'54	
opposition	-2015 Mar 31 j 01:03	22°♍47'20	1°44'22
min. Earth dist.	-2015 Apr 01 j 10:59	22°♍36'33	4.35112 AU
direct	-2015 Jun 01 j 13:49	17°♍47'41	
	-2015 Sep 08 j 20:19	0°♎	
evening set	-2015 Oct 05 j 11:49	5°♎47'19	
max. Earth dist.	-2015 Oct 16 j 04:35	8°♎11'57	6.29977 AU
conjunction	-2015 Oct 18 j 01:33	8°♎37'22	1°00'35
minimum elong	-2015 Oct 18 j 01:36	8°♎37'23	1°00'35
morning rise	-2015 Oct 30 j 14:14	11°♎27'05	
retrograde	-2014 Mar 03 j 11:00	29°♎23'08	
opposition	-2014 May 03 j 12:18	24°♎30'24	1°06'14
min. Earth dist.	-2014 May 04 j 16:55	24°♎21'16	4.24096 AU
direct	-2014 Jul 04 j 02:36	19°♎33'31	
	-2014 Sep 30 j 23:44	0°♏	
evening set	-2014 Nov 06 j 06:34	7°♏58'07	
conjunction	-2014 Nov 18 j 21:54	10°♏53'49	0°25'25
minimum elong	-2014 Nov 18 j 21:55	10°♏53'50	0°25'23
max. Earth dist.	-2014 Nov 17 j 14:45	10°♏35'43	6.17807 AU
morning rise	-2014 Dec 01 j 13:37	13°♏50'01	
	-2014 Dec 06 j 15:16	15°♏	
	-2013 Feb 23 j 21:52	0°♐	
retrograde	-2013 Apr 07 j 21:51	2°♐45'38	
	-2013 May 21 j 09:36	30°℞♏	
opposition	-2013 Jun 07 j 18:52	27°♏50'16	0°04'33
min. Earth dist.	-2013 Jun 08 j 10:12	27°♏45'19	4.11564 AU
desc. node	-2013 Jul 04 j 10:27	24°♏40'39	
direct	-2013 Aug 07 j 01:54	22°♏55'54	
	-2013 Oct 15 j 19:40	0°♐	
evening set	-2013 Dec 09 j 16:33	11°♐50'54	
conjunction	-2013 Dec 22 j 12:31	14°♐53'39	-0°19'37
minimum elong	-2013 Dec 22 j 12:30	14°♐53'38	0°19'40
max. Earth dist.	-2013 Dec 22 j 04:29	14°♐48'53	6.06088 AU
morning rise	-2012 Jan 04 j 10:42	17°♐57'44	
	-2012 Feb 28 j 19:50	0°♑	
retrograde	-2012 May 14 j 00:04	7°♑52'37	
opposition	-2012 Jul 13 j 13:22	2°♑53'26	-1°02'08
min. Earth dist.	-2012 Jul 13 j 07:16	2°♑55'27	4.01759 AU
	-2012 Aug 06 j 02:17	30°℞♐	
direct	-2012 Sep 10 j 09:55	28°♐00'19	
	-2012 Oct 15 j 08:57	0°♑	
evening set	-2011 Jan 13 j 01:46	17°♑20'53	

Attention, astronomical year style is used: The year -2011 in astronomical counting style is the year 2012 BCE in historical counting style.

conjunction	-2011 Jan 26 j 04:31	20°♑29'40	-0°58'56
minimum elong	-2011 Jan 26 j 04:28	20°♑29'38	0°58'57
max. Earth dist.	-2011 Jan 27 j 02:43	20°♑43'01	5.99087 AU
morning rise	-2011 Feb 08 j 10:23	23°♑40'12	
	-2011 Mar 07 j 17:08	0°♒	
retrograde	-2011 Jun 20 j 18:48	14°♒08'44	
opposition	-2011 Aug 19 j 19:57	9°♒05'43	-1°47'05
min. Earth dist.	-2011 Aug 18 j 20:29	9°♒13'37	3.98463 AU
direct	-2011 Oct 16 j 21:15	4°♒11'35	
	-2010 Jan 11 j 18:41	15°♒	
evening set	-2010 Feb 18 j 23:43	23°♒40'48	
conjunction	-2010 Mar 04 j 10:08	26°♒52'41	-1°16'14
minimum elong	-2010 Mar 04 j 10:08	26°♒52'41	1°16'14
max. Earth dist.	-2010 Mar 06 j 07:51	27°♒19'55	5.99673 AU
morning rise	-2010 Mar 17 j 23:36	0°♓06'04	
	-2010 Mar 17 j 13:20	0°♓	
retrograde	-2010 Jul 27 j 15:31	20°♓23'07	
min. Earth dist.	-2010 Sep 23 j 22:43	15°♓28'56	4.02985 AU
opposition	-2010 Sep 25 j 06:53	15°♓17'58	-1°50'16
direct	-2010 Nov 22 j 07:05	10°♓21'04	
evening set	-2009 Mar 28 j 06:06	29°♓36'58	
	-2009 Mar 29 j 21:50	0°♈	
conjunction	-2009 Apr 10 j 22:41	2°♈48'01	-1°04'21
minimum elong	-2009 Apr 10 j 22:44	2°♈48'03	1°04'21
max. Earth dist.	-2009 Apr 13 j 00:18	3°♈16'54	6.07604 AU
morning rise	-2009 Apr 24 j 17:18	5°♈59'49	
retrograde	-2009 Aug 31 j 12:25	25°♈26'18	
min. Earth dist.	-2009 Oct 28 j 20:12	20°♈31'27	4.13397 AU
opposition	-2009 Oct 30 j 00:45	20°♈21'42	-1°12'42
direct	-2009 Dec 27 j 20:50	15°♈21'35	
	-2008 Apr 13 j 20:15	0°♉	
evening set	-2008 May 02 j 14:25	4°♉09'14	
conjunction	-2008 May 16 j 09:06	7°♉15'53	-0°29'51
minimum elong	-2008 May 16 j 09:08	7°♉15'54	0°29'50
max. Earth dist.	-2008 May 17 j 22:17	7°♉36'54	6.19660 AU
morning rise	-2008 May 30 j 03:24	10°♉22'08	
	-2008 Jun 20 j 05:01	15°♉	
retrograde	-2008 Oct 02 j 08:51	28°♉44'21	
opposition	-2008 Nov 30 j 22:02	23°♉42'49	-0°12'42
min. Earth dist.	-2008 Nov 30 j 06:06	23°♉48'11	4.25823 AU
direct	-2007 Jan 30 j 00:50	18°♉40'22	
asc. node	-2007 Feb 18 j 06:26	19°♉15'24	
	-2007 May 04 j 10:23	0°♊	
evening set	-2007 Jun 06 j 07:49	6°♊57'39	
conjunction	-2007 Jun 19 j 22:22	9°♊57'36	0°13'07
minimum elong	-2007 Jun 19 j 22:21	9°♊57'35	0°13'10
behind sun begin	-2007 Jun 19 j 17:38	9°♊55'00	
behind sun end	-2007 Jun 20 j 03:04	10°♊00'10	
max. Earth dist.	-2007 Jun 20 j 09:15	10°♊03'35	6.31526 AU
morning rise	-2007 Jul 03 j 10:58	12°♊56'20	
	-2007 Oct 17 j 13:38	0°♋	
retrograde	-2007 Nov 02 j 14:39	0°♋25'02	
	-2007 Nov 18 j 14:06	30°℞♊	
opposition	-2006 Jan 01 j 10:10	25°♊27'25	0°48'03
min. Earth dist.	-2006 Jan 01 j 11:10	25°♊27'05	4.36195 AU
direct	-2006 Mar 03 j 20:23	20°♊23'54	
	-2006 May 29 j 21:04	0°♋	
evening set	-2006 Jul 09 j 07:28	8°♋18'37	
conjunction	-2006 Jul 22 j 14:07	11°♋11'56	0°50'44
minimum elong	-2006 Jul 22 j 14:04	11°♋11'55	0°50'47
max. Earth dist.	-2006 Jul 21 j 24:00	11°♋04'14	6.39617 AU
morning rise	-2006 Aug 04 j 17:30	14°♋03'38	
	-2006 Nov 07 j 11:16	0°♌	
retrograde	-2006 Dec 03 j 03:10	1°♌02'07	
	-2006 Dec 28 j 19:08	30°℞♋	
opposition	-2005 Feb 01 j 07:49	26°♋08'00	1°33'10
min. Earth dist.	-2005 Feb 02 j 00:46	26°♋02'30	4.41592 AU
direct	-2005 Apr 04 j 16:15	21°♋04'52	
	-2005 Jun 27 j 16:18	0°♌	
evening set	-2005 Aug 09 j 22:36	8°♌49'21	
max. Earth dist.	-2005 Aug 21 j 08:34	11°♌18'33	6.41803 AU
conjunction	-2005 Aug 22 j 20:29	11°♌38'11	1°13'27
minimum elong	-2005 Aug 22 j 20:27	11°♌38'10	1°13'29
morning rise	-2005 Sep 04 j 15:27	14°♌25'35	
	-2005 Sep 07 j 06:58	15°♌	
	-2005 Dec 04 j 07:39	0°♍	
retrograde	-2004 Jan 02 j 22:12	1°♍20'55	
	-2004 Feb 01 j 14:02	30°℞♌	
opposition	-2004 Mar 03 j 11:21	26°♌28'54	1°52'27
min. Earth dist.	-2004 Mar 04 j 17:13	26°♌19'20	4.40578 AU
direct	-2004 May 05 j 05:25	21°♌27'11	
	-2004 Jul 25 j 21:01	0°♍	
evening set	-2004 Sep 08 j 20:53	9°♍15'05	
max. Earth dist.	-2004 Sep 19 j 15:30	11°♍37'55	6.37566 AU
conjunction	-2004 Sep 21 j 12:48	12°♍03'01	1°15'52
minimum elong	-2004 Sep 21 j 12:49	12°♍03'02	1°15'53
morning rise	-2004 Oct 04 j 02:18	14°♍49'58	
	-2004 Dec 27 j 00:41	0°♎	
retrograde	-2003 Feb 02 j 17:15	2°♎08'36	
	-2003 Mar 12 j 21:19	30°℞♍	
opposition	-2003 Apr 04 j 15:15	27°♍16'57	1°40'48
min. Earth dist.	-2003 Apr 06 j 00:16	27°♍06'27	4.33412 AU
direct	-2003 Jun 06 j 00:19	22°♍17'40	
	-2003 Aug 21 j 01:57	0°♎	
evening set	-2003 Oct 09 j 21:57	10°♎21'37	
max. Earth dist.	-2003 Oct 20 j 16:27	12°♎47'54	6.28022 AU
conjunction	-2003 Oct 22 j 11:43	13°♎12'28	0°56'36
minimum elong	-2003 Oct 22 j 11:45	13°♎12'30	0°56'35
morning rise	-2003 Nov 04 j 00:36	16°♎03'06	
	-2002 Jan 14 j 02:09	0°♏	
retrograde	-2002 Mar 08 j 10:05	4°♏08'01	
	-2002 May 02 j 12:14	30°℞♎	
opposition	-2002 May 08 j 09:51	29°♎15'01	0°58'36
min. Earth dist.	-2002 May 09 j 13:48	29°♎06'06	4.22011 AU
direct	-2002 Jul 08 j 20:44	24°♎18'31	
	-2002 Sep 09 j 22:26	0°♏	
evening set	-2002 Nov 10 j 22:13	12°♏48'19	
	-2002 Nov 20 j 08:43	15°♏	
max. Earth dist.	-2002 Nov 22 j 09:17	15°♏28'20	6.15786 AU
conjunction	-2002 Nov 23 j 14:05	15°♏45'07	0°19'17
minimum elong	-2002 Nov 23 j 14:06	15°♏45'08	0°19'16
morning rise	-2002 Dec 06 j 06:43	18°♏42'34	
	-2001 Jan 27 j 23:44	0°♐	
retrograde	-2001 Apr 13 j 02:06	7°♐47'46	
desc. node	-2001 May 13 j 05:41	6°♐24'27	
opposition	-2001 Jun 12 j 23:09	2°♐51'51	-0°05'16
min. Earth dist.	-2001 Jun 13 j 10:20	2°♐48'14	4.09792 AU
	-2001 Jul 06 j 15:13	30°℞♏	
direct	-2001 Aug 11 j 23:48	27°♏57'48	
	-2001 Sep 16 j 21:27	0°♐	
evening set	-2001 Dec 14 j 15:12	16°♐57'13	
conjunction	-2001 Dec 27 j 12:03	20°♐00'56	-0°26'00
minimum elong	-2001 Dec 27 j 12:01	20°♐00'55	0°26'03
max. Earth dist.	-2001 Dec 27 j 09:26	19°♐59'23	6.04726 AU

Attention, astronomical year style is used: The year -2000 in astronomical counting style is the year 2001 BCE in historical counting style.

morning rise	-2000 Jan 09 j 11:10	23°♐06'03		
	-2000 Feb 08 j 13:07	0°♑		
retrograde	-2000 May 19 j 09:54	13°♑07'36		
opposition	-2000 Jul 18 j 21:14	8°♑07'47	-1°10'31	
min. Earth dist.	-2000 Jul 18 j 12:39	8°♑10'37	4.00953 AU	
direct	-2000 Sep 15 j 15:19	3°♑14'38		
evening set	-1999 Jan 18 j 06:23	22°♑36'57		
conjunction	-1999 Jan 31 j 10:10	25°♑46'17	-1°03'02	
minimum elong	-1999 Jan 31 j 10:07	25°♑46'15	1°03'05	
max. Earth dist.	-1999 Feb 01 j 13:12	26°♑02'31	5.98885 AU	
morning rise	-1999 Feb 13 j 17:07	28°♑57'21		
	-1999 Feb 18 j 02:35	0°♒		
	-1999 May 02 j 14:34	15°♒		
retrograde	-1999 Jun 26 j 02:14	19°♒25'59		
	-1999 Aug 20 j 10:27	15℞♒		
min. Earth dist.	-1999 Aug 24 j 00:07	14°♒31'14	3.98915 AU	
opposition	-1999 Aug 25 j 01:55	14°♒22'32	-1°50'16	
direct	-1999 Oct 22 j 01:29	9°♒28'07		
	-1999 Dec 20 j 14:39	15°♒		
evening set	-1998 Feb 24 j 06:30	28°♒55'36		
	-1998 Feb 28 j 19:17	0°♓		
conjunction	-1998 Mar 09 j 17:45	2°♓07'24	-1°16'17	
minimum elong	-1998 Mar 09 j 17:45	2°♓07'24	1°16'18	
max. Earth dist.	-1998 Mar 11 j 16:02	2°♓34'54	6.00685 AU	
morning rise	-1998 Mar 23 j 08:11	5°♓20'42		
retrograde	-1998 Aug 01 j 15:07	25°♓31'25		
min. Earth dist.	-1998 Sep 28 j 22:40	20°♓37'12	4.04438 AU	
opposition	-1998 Sep 30 j 07:02	20°♓26'08	-1°47'06	
direct	-1998 Nov 27 j 09:24	15°♓28'47		
	-1997 Mar 12 j 19:34	0°♈		
evening set	-1997 Apr 02 j 10:07	4°♈40'21		
conjunction	-1997 Apr 16 j 03:25	7°♈50'52	-1°00'34	
minimum elong	-1997 Apr 16 j 03:28	7°♈50'54	1°00'33	
max. Earth dist.	-1997 Apr 18 j 05:10	8°♈19'42	6.09383 AU	
morning rise	-1997 Apr 29 j 22:08	11°♈01'56		
	-1997 Aug 22 j 10:38	0°♉		
retrograde	-1997 Sep 05 j 06:13	0°♉18'53		
	-1997 Sep 18 j 22:49	30℞♈		
opposition	-1997 Nov 03 j 17:47	25°♈14'41	-1°05'06	
min. Earth dist.	-1997 Nov 02 j 15:01	25°♈23'47	4.15304 AU	
direct	-1996 Jan 01 j 18:01	20°♈14'14		
	-1996 Mar 26 j 13:06	0°♉		
evening set	-1996 May 07 j 13:13	8°♉56'54		
conjunction	-1996 May 21 j 07:32	12°♉02'37	-0°24'01	
minimum elong	-1996 May 21 j 07:33	12°♉02'38	0°23'59	
max. Earth dist.	-1996 May 22 j 16:24	12°♉21'07	6.21544 AU	
	-1996 Jun 03 j 11:22	15°♉		
morning rise	-1996 Jun 04 j 01:26	15°♉07'52		
	-1996 Aug 20 j 22:05	0°♊		
retrograde	-1996 Oct 06 j 18:29	3°♊21'21		
	-1996 Nov 22 j 18:46	30℞♉		
opposition	-1996 Dec 05 j 08:58	28°♉20'22	-0°03'49	
min. Earth dist.	-1996 Dec 04 j 19:12	28°♉24'59	4.27531 AU	
asc. node	-1996 Dec 29 j 06:48	25°♉21'05		
direct	-1995 Feb 03 j 16:16	23°♉17'41		
	-1995 Apr 14 j 12:53	0°♊		
evening set	-1995 Jun 11 j 00:23	11°♊31'13		
conjunction	-1995 Jun 24 j 14:06	14°♊30'12	0°18'57	
minimum elong	-1995 Jun 24 j 14:04	14°♊30'11	0°18'58	
max. Earth dist.	-1995 Jun 24 j 21:42	14°♊34'23	6.32949 AU	
morning rise	-1995 Jul 08 j 01:25	17°♊27'52		
	-1995 Sep 10 j 09:21	0°♋		
retrograde	-1995 Nov 06 j 21:54	4°♋51'00		
	-1994 Jan 04 j 23:51	30℞♊		
opposition	-1994 Jan 05 j 18:01	29°♊54'01	0°55'35	
min. Earth dist.	-1994 Jan 05 j 21:35	29°♊52'50	4.37238 AU	
direct	-1994 Mar 08 j 07:58	24°♊50'33		
	-1994 May 08 j 16:42	0°♋		
evening set	-1994 Jul 13 j 18:59	12°♋43'22		
max. Earth dist.	-1994 Jul 26 j 05:16	15°♋25'34	6.40186 AU	
conjunction	-1994 Jul 27 j 00:18	15°♋35'56	0°54'58	
minimum elong	-1994 Jul 27 j 00:15	15°♋35'54	0°55'01	
morning rise	-1994 Aug 09 j 02:35	18°♋26'56		
	-1994 Oct 07 j 03:18	0°♌		
retrograde	-1994 Dec 07 j 10:27	5°♌23'55		
opposition	-1993 Feb 05 j 15:43	0°♌30'13	1°37'35	
min. Earth dist.	-1993 Feb 06 j 11:20	0°♌23'52	4.41682 AU	
	-1993 Feb 09 j 13:06	30℞♋		
direct	-1993 Apr 09 j 02:27	25°♋27'12		
	-1993 Jun 05 j 19:38	0°♌		
evening set	-1993 Aug 14 j 07:14	13°♌12'02		
	-1993 Aug 22 j 13:26	15°♌		
max. Earth dist.	-1993 Aug 25 j 15:34	15°♌40'33	6.41402 AU	
conjunction	-1993 Aug 27 j 04:16	16°♌00'38	1°15'05	
minimum elong	-1993 Aug 27 j 04:15	16°♌00'37	1°15'05	
morning rise	-1993 Sep 08 j 22:07	18°♌47'47		
	-1993 Nov 04 j 14:07	0°♍		
retrograde	-1992 Jan 07 j 06:49	5°♍45'30		
opposition	-1992 Mar 07 j 21:56	0°♍53'43	1°52'44	
min. Earth dist.	-1992 Mar 09 j 04:10	0°♍44'04	4.39731 AU	
	-1992 Mar 14 j 22:56	30℞♌		
direct	-1992 May 09 j 14:46	25°♌52'22		
	-1992 Jul 03 j 06:18	0°♍		
evening set	-1992 Sep 13 j 05:32	13°♍42'34		
max. Earth dist.	-1992 Sep 23 j 22:24	16°♍04'57	6.36338 AU	
conjunction	-1992 Sep 25 j 20:47	16°♍30'45	1°14'25	
minimum elong	-1992 Sep 25 j 20:48	16°♍30'46	1°14'25	
morning rise	-1992 Oct 08 j 10:04	19°♍18'04		
	-1992 Nov 29 j 23:52	0°♎		
retrograde	-1991 Feb 07 j 10:07	6°♎42'32		
opposition	-1991 Apr 09 j 07:23	1°♎50'52	1°36'34	
min. Earth dist.	-1991 Apr 10 j 16:53	1°♎40'13	4.31880 AU	
	-1991 Apr 24 j 04:24	30℞♍		
direct	-1991 Jun 10 j 14:48	26°♍52'00		
	-1991 Jul 27 j 05:11	0°♎		
evening set	-1991 Oct 14 j 08:51	14°♎59'29		
max. Earth dist.	-1991 Oct 25 j 05:21	17°♎27'27	6.26339 AU	
conjunction	-1991 Oct 26 j 22:48	17°♎51'05	0°52'15	
minimum elong	-1991 Oct 26 j 22:51	17°♎51'06	0°52'13	
morning rise	-1991 Nov 08 j 11:57	20°♎42'32		
	-1991 Dec 21 j 23:48	0°♏		
retrograde	-1990 Mar 13 j 07:34	8°♏55'27		
opposition	-1990 May 13 j 08:08	4°♏02'08	0°50'31	
min. Earth dist.	-1990 May 14 j 09:01	3°♏54'11	4.20307 AU	
	-1990 Jun 19 j 11:08	30℞♎		
direct	-1990 Jul 13 j 13:25	29°♎06'07		
	-1990 Aug 06 j 14:55	0°♏		
	-1990 Nov 04 j 00:10	15°♏		
evening set	-1990 Nov 15 j 14:07	17°♏39'42		
max. Earth dist.	-1990 Nov 27 j 05:28	20°♏22'46	6.14228 AU	
conjunction	-1990 Nov 28 j 06:26	20°♏37'22	0°13'04	
minimum elong	-1990 Nov 28 j 06:26	20°♏37'23	0°13'02	
behind sun begin	-1990 Nov 28 j 01:29	20°♏34'29		
behind sun end	-1990 Nov 28 j 11:24	20°♏40'16		

Attention, astronomical year style is used: The year -1990 in astronomical counting style is the year 1991 BCE in historical counting style.

morning rise	-1990 Dec 10 j 23:46	23°♏35'47	
	-1989 Jan 08 j 08:23	0°♐	
desc. node	-1989 Mar 22 j 22:12	11°♐44'27	
retrograde	-1989 Apr 18 j 06:47	12°♐48'53	
opposition	-1989 Jun 18 j 02:32	7°♐52'26	-0°14'57
min. Earth dist.	-1989 Jun 18 j 11:24	7°♐49'33	4.08504 AU
direct	-1989 Aug 16 j 23:41	2°♐58'37	
evening set	-1989 Dec 19 j 12:44	22°♐00'47	
conjunction	-1988 Jan 01 j 10:26	25°♐05'16	-0°32'04
minimum elong	-1988 Jan 01 j 10:24	25°♐05'14	0°32'06
max. Earth dist.	-1988 Jan 01 j 12:24	25°♐06'26	6.03831 AU
morning rise	-1988 Jan 14 j 10:31	28°♐11'11	
	-1988 Jan 22 j 03:07	0°♑	
retrograde	-1988 May 24 j 15:46	18°♑17'14	
opposition	-1988 Jul 24 j 02:06	13°♑16'52	-1°18'05
min. Earth dist.	-1988 Jul 23 j 14:21	13°♑20'46	4.00572 AU
direct	-1988 Sep 20 j 16:36	8°♑23'41	
evening set	-1987 Jan 23 j 08:25	27°♑46'28	
	-1987 Feb 01 j 15:32	0°♒	
conjunction	-1987 Feb 05 j 13:01	0°♒56'06	-1°06'32
minimum elong	-1987 Feb 05 j 12:58	0°♒56'04	1°06'34
max. Earth dist.	-1987 Feb 06 j 18:21	1°♒13'42	5.99013 AU
morning rise	-1987 Feb 18 j 21:02	4°♒07'31	
	-1987 Apr 08 j 15:53	15°♒	
retrograde	-1987 Jul 01 j 04:27	24°♒35'00	
min. Earth dist.	-1987 Aug 29 j 00:36	19°♒40'21	3.99547 AU
opposition	-1987 Aug 30 j 03:59	19°♒31'06	-1°52'27
	-1987 Oct 12 j 00:44	15°℞♒	
direct	-1987 Oct 27 j 03:09	14°♒36'17	
	-1987 Nov 11 j 06:33	15°♒	
	-1986 Feb 12 j 01:56	0°♓	
evening set	-1986 Mar 01 j 09:34	4°♓01'35	
conjunction	-1986 Mar 14 j 21:53	7°♓13'19	-1°15'45
minimum elong	-1986 Mar 14 j 21:54	7°♓13'20	1°15'46
max. Earth dist.	-1986 Mar 16 j 22:35	7°♓42'10	6.01755 AU
morning rise	-1986 Mar 28 j 12:55	10°♓26'23	
	-1986 Jul 19 j 21:28	0°♈	
retrograde	-1986 Aug 06 j 12:54	0°♈30'33	
	-1986 Aug 23 j 23:35	30°℞♓	
min. Earth dist.	-1986 Oct 03 j 19:52	25°♓35'59	4.05824 AU
opposition	-1986 Oct 05 j 03:11	25°♓25'18	-1°43'15
direct	-1986 Dec 02 j 08:13	20°♓27'30	
	-1985 Feb 22 j 10:52	0°♈	
evening set	-1985 Apr 07 j 10:55	9°♈35'12	
conjunction	-1985 Apr 21 j 04:33	12°♈45'12	-0°56'29
minimum elong	-1985 Apr 21 j 04:37	12°♈45'14	0°56'28
max. Earth dist.	-1985 Apr 23 j 03:45	13°♈12'26	6.10955 AU
morning rise	-1985 May 04 j 23:38	15°♈55'41	
	-1985 Jul 13 j 10:28	0°♉	
retrograde	-1985 Sep 09 j 19:05	5°♉04'00	
min. Earth dist.	-1985 Nov 07 j 05:50	0°♉08'51	4.16906 AU
opposition	-1985 Nov 08 j 07:28	0°♉00'08	-0°57'19
	-1985 Nov 08 j 07:50	30°℞♈	
direct	-1984 Jan 06 j 11:07	24°♈59'16	
	-1984 Mar 04 j 18:33	0°♉	
evening set	-1984 May 12 j 09:13	13°♉38'12	
	-1984 May 18 j 11:31	15°♉	
conjunction	-1984 May 26 j 03:18	16°♉43'09	-0°18'10
minimum elong	-1984 May 26 j 03:19	16°♉43'10	0°18'08
max. Earth dist.	-1984 May 27 j 08:38	16°♉59'37	6.23073 AU
morning rise	-1984 Jun 08 j 20:34	19°♉47'29	
	-1984 Jul 28 j 00:26	0°♊	

retrograde	-1984 Oct 11 j 04:52	7°♊53'45	
asc. node	-1984 Nov 09 j 05:08	6°♊31'51	
opposition	-1984 Dec 09 j 18:24	2°♊53'19	0°04'52
min. Earth dist.	-1984 Dec 09 j 07:41	2°♊56'55	4.28852 AU
	-1983 Jan 01 j 19:08	30°℞♉	
direct	-1983 Feb 08 j 06:25	27°♉50'28	
	-1983 Mar 18 j 04:11	0°♊	
evening set	-1983 Jun 15 j 15:26	16°♊01'23	
conjunction	-1983 Jun 29 j 04:11	18°♊59'33	0°24'33
minimum elong	-1983 Jun 29 j 04:09	18°♊59'32	0°24'36
max. Earth dist.	-1983 Jun 29 j 07:43	19°♊01'29	6.33965 AU
morning rise	-1983 Jul 12 j 14:27	21°♊56'21	
	-1983 Aug 20 j 09:13	0°♋	
retrograde	-1983 Nov 11 j 03:59	9°♋15'20	
opposition	-1982 Jan 10 j 01:27	4°♋18'50	1°02'41
min. Earth dist.	-1982 Jan 10 j 06:57	4°♋17'01	4.37918 AU
	-1982 Feb 18 j 17:59	30°℞♊	
direct	-1982 Mar 12 j 17:54	29°♊15'20	
	-1982 Apr 04 j 00:33	0°♋	
evening set	-1982 Jul 18 j 06:10	17°♋07'15	
conjunction	-1982 Jul 31 j 10:21	19°♋59'13	0°58'50
minimum elong	-1982 Jul 31 j 10:18	19°♋59'11	0°58'52
max. Earth dist.	-1982 Jul 30 j 13:28	19°♋47'50	6.40486 AU
morning rise	-1982 Aug 13 j 11:17	22°♋49'34	
	-1982 Sep 16 j 23:42	0°♌	
retrograde	-1982 Dec 11 j 17:44	9°♌45'46	
opposition	-1981 Feb 09 j 23:57	4°♌52'27	1°41'25
min. Earth dist.	-1981 Feb 10 j 21:10	4°♌45'36	4.41611 AU
	-1981 Apr 02 j 19:13	30°℞♋	
direct	-1981 Apr 13 j 12:13	29°♋49'38	
	-1981 Apr 24 j 06:03	0°♌	
	-1981 Aug 06 j 15:51	15°♌	
evening set	-1981 Aug 18 j 16:03	17°♌34'57	
max. Earth dist.	-1981 Aug 29 j 20:30	20°♌01'39	6.40944 AU
conjunction	-1981 Aug 31 j 12:00	20°♌23'18	1°16'15
minimum elong	-1981 Aug 31 j 11:58	20°♌23'18	1°16'16
morning rise	-1981 Sep 13 j 05:08	23°♌10'18	
	-1981 Oct 15 j 18:14	0°♍	
retrograde	-1980 Jan 11 j 18:00	10°♍10'30	
opposition	-1980 Mar 12 j 09:27	5°♍18'47	1°52'19
min. Earth dist.	-1980 Mar 13 j 16:37	5°♍08'50	4.38929 AU
direct	-1980 May 14 j 02:02	0°♍17'42	
evening set	-1980 Sep 17 j 13:47	18°♍09'34	
max. Earth dist.	-1980 Sep 28 j 07:45	20°♍32'54	6.35248 AU
conjunction	-1980 Sep 30 j 04:44	20°♍58'00	1°12'31
minimum elong	-1980 Sep 30 j 04:46	20°♍58'01	1°12'31
morning rise	-1980 Oct 12 j 17:34	23°♍45'37	
	-1980 Nov 10 j 18:29	0°♎	
retrograde	-1979 Feb 12 j 00:28	11°♎15'19	
opposition	-1979 Apr 13 j 23:24	6°♎23'30	1°31'44
min. Earth dist.	-1979 Apr 15 j 07:34	6°♎13'17	4.30556 AU
direct	-1979 Jun 15 j 03:14	1°♎25'03	
evening set	-1979 Oct 18 j 19:23	19°♎35'11	
max. Earth dist.	-1979 Oct 29 j 16:52	22°♎04'16	6.24873 AU
conjunction	-1979 Oct 31 j 09:16	22°♎27'24	0°47'34
minimum elong	-1979 Oct 31 j 09:19	22°♎27'25	0°47'34
morning rise	-1979 Nov 12 j 22:51	25°♎19'37	
	-1979 Dec 03 j 21:38	0°♏	
retrograde	-1978 Mar 18 j 05:52	13°♏39'51	
opposition	-1978 May 18 j 05:31	8°♏46'09	0°42'08
min. Earth dist.	-1978 May 19 j 05:08	8°♏38'35	4.18763 AU
direct	-1978 Jul 18 j 07:29	3°♏50'26	

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

	-1978 Oct 17 j 19:50	15°♏	
evening set	-1978 Nov 20 j 04:46	22°♏27'27	
conjunction	-1978 Dec 02 j 21:47	25°♏26'01	0°06'49
minimum elong	-1978 Dec 02 j 21:48	25°♏26'01	0°06'46
behind sun begin	-1978 Dec 02 j 14:18	25°♏21'39	
behind sun end	-1978 Dec 03 j 05:17	25°♏30'24	
max. Earth dist.	-1978 Dec 02 j 00:22	25°♏13'27	6.12744 AU
morning rise	-1978 Dec 15 j 15:52	28°♏25'26	
	-1978 Dec 22 j 10:45	0°♐	
desc. node	-1977 Jan 31 j 00:40	8°♐34'28	
retrograde	-1977 Apr 23 j 09:08	17°♐46'13	
opposition	-1977 Jun 23 j 04:29	12°♐49'18	-0°24'29
min. Earth dist.	-1977 Jun 23 j 10:28	12°♐47'22	4.07210 AU
direct	-1977 Aug 21 j 20:38	7°♐55'44	
evening set	-1977 Dec 24 j 09:26	27°♐01'08	
	-1976 Jan 05 j 21:09	0°♑	
conjunction	-1976 Jan 06 j 07:51	0°♑06'23	-0°37'53
minimum elong	-1976 Jan 06 j 07:48	0°♑06'22	0°37'55
max. Earth dist.	-1976 Jan 06 j 12:31	0°♑09'11	6.02826 AU
morning rise	-1976 Jan 19 j 09:03	3°♑13'13	
retrograde	-1976 May 29 j 20:48	23°♑24'35	
opposition	-1976 Jul 29 j 05:56	18°♑23'39	-1°25'06
min. Earth dist.	-1976 Jul 28 j 15:37	18°♑28'25	3.99966 AU
direct	-1976 Sep 25 j 17:34	13°♑30'20	
	-1975 Jan 16 j 02:18	0°♒	
evening set	-1975 Jan 28 j 10:23	2°♒54'54	
conjunction	-1975 Feb 10 j 16:12	6°♒05'06	-1°09'32
minimum elong	-1975 Feb 10 j 16:10	6°♒05'05	1°09'33
max. Earth dist.	-1975 Feb 12 j 01:59	6°♒25'22	5.98858 AU
morning rise	-1975 Feb 24 j 01:09	9°♒17'01	
	-1975 Mar 20 j 15:54	15°♒	
retrograde	-1975 Jul 06 j 08:59	29°♒44'26	
min. Earth dist.	-1975 Sep 03 j 02:14	24°♒49'38	3.99874 AU
opposition	-1975 Sep 04 j 05:59	24°♒40'14	-1°53'49
direct	-1975 Nov 01 j 04:43	19°♒45'05	
	-1974 Jan 24 j 17:12	0°♓	
evening set	-1974 Mar 06 j 14:00	9°♓09'44	
conjunction	-1974 Mar 20 j 03:11	12°♓21'33	-1°14'39
minimum elong	-1974 Mar 20 j 03:12	12°♓21'34	1°14'39
max. Earth dist.	-1974 Mar 22 j 03:53	12°♓50'18	6.02507 AU
morning rise	-1974 Apr 02 j 19:14	15°♓34'40	
	-1974 Jun 11 j 02:32	0°♈	
retrograde	-1974 Aug 11 j 10:21	5°♈33'25	
min. Earth dist.	-1974 Oct 08 j 16:40	0°♈39'04	4.06917 AU
opposition	-1974 Oct 10 j 00:28	0°♈28'12	-1°38'37
	-1974 Oct 13 j 11:14	30°℞♓	
direct	-1974 Dec 07 j 06:50	25°♓29'58	
	-1973 Jan 30 j 06:29	0°♈	
evening set	-1973 Apr 12 j 13:38	14°♈35'04	
conjunction	-1973 Apr 26 j 07:47	17°♈44'42	-0°51'54
minimum elong	-1973 Apr 26 j 07:50	17°♈44'44	0°51'54
max. Earth dist.	-1973 Apr 28 j 05:12	18°♈10'49	6.12307 AU
morning rise	-1973 May 10 j 02:59	20°♈54'37	
	-1973 Jun 21 j 03:25	0°♉	
retrograde	-1973 Sep 14 j 12:56	9°♉55'14	
opposition	-1973 Nov 12 j 23:39	4°♉51'47	-0°49'00
min. Earth dist.	-1973 Nov 12 j 00:26	4°♉59'40	4.18360 AU
	-1972 Jan 01 j 14:46	30°℞♈	
direct	-1972 Jan 11 j 07:58	29°♈50'37	
	-1972 Jan 21 j 01:31	0°♉	
	-1972 May 01 j 16:22	15°♉	
evening set	-1972 May 17 j 07:50	18°♉26'15	

conjunction	-1972 May 31 j 01:35	21°♉30'27	-0°12'04
minimum elong	-1972 May 31 j 01:36	21°♉30'28	0°12'02
behind sun begin	-1972 May 30 j 20:02	21°♉27'22	
behind sun end	-1972 May 31 j 07:09	21°♉33'34	
max. Earth dist.	-1972 Jun 01 j 04:40	21°♉45'37	6.24540 AU
morning rise	-1972 Jun 13 j 18:11	24°♉33'53	
	-1972 Jul 08 j 20:49	0°♊	
asc. node	-1972 Sep 18 j 12:00	11°♊22'20	
retrograde	-1972 Oct 15 j 15:02	12°♊33'01	
opposition	-1972 Dec 14 j 06:10	7°♊33'10	0°13'45
min. Earth dist.	-1972 Dec 13 j 20:29	7°♊36'24	4.30238 AU
direct	-1971 Feb 12 j 21:06	2°♊30'12	
evening set	-1971 Jun 20 j 08:53	20°♊38'11	
conjunction	-1971 Jul 03 j 20:30	23°♊35'23	0°30'10
minimum elong	-1971 Jul 03 j 20:27	23°♊35'22	0°30'13
max. Earth dist.	-1971 Jul 03 j 20:46	23°♊35'33	6.35203 AU
morning rise	-1971 Jul 17 j 05:33	26°♊31'11	
	-1971 Aug 02 j 10:18	0°♋	
retrograde	-1971 Nov 15 j 13:26	13°♋45'13	
opposition	-1970 Jan 14 j 11:08	8°♋49'15	1°09'33
min. Earth dist.	-1970 Jan 14 j 19:06	8°♋46'39	4.38950 AU
direct	-1970 Mar 17 j 07:49	3°♋45'51	
evening set	-1970 Jul 22 j 18:15	21°♋35'14	
conjunction	-1970 Aug 04 j 21:10	24°♋26'23	1°02'26
minimum elong	-1970 Aug 04 j 21:07	24°♋26'22	1°02'27
max. Earth dist.	-1970 Aug 03 j 21:49	24°♋13'40	6.41236 AU
morning rise	-1970 Aug 17 j 20:51	27°♋15'56	
	-1970 Aug 30 j 15:05	0°♌	
retrograde	-1970 Dec 16 j 00:43	14°♌09'54	
opposition	-1969 Feb 14 j 09:05	9°♌16'50	1°44'40
min. Earth dist.	-1969 Feb 15 j 07:08	9°♌09'43	4.42063 AU
direct	-1969 Apr 17 j 22:44	4°♌14'12	
	-1969 Jul 20 j 14:58	15°♌	
evening set	-1969 Aug 23 j 00:10	21°♌57'55	
max. Earth dist.	-1969 Sep 03 j 03:42	24°♌24'09	6.41064 AU
conjunction	-1969 Sep 04 j 19:09	24°♌45'47	1°16'59
minimum elong	-1969 Sep 04 j 19:08	24°♌45'47	1°17'01
morning rise	-1969 Sep 17 j 11:13	27°♌32'21	
	-1969 Sep 28 j 20:29	0°♍	
retrograde	-1968 Jan 16 j 02:14	14°♍33'09	
opposition	-1968 Mar 16 j 19:44	9°♍41'31	1°51'14
min. Earth dist.	-1968 Mar 18 j 03:33	9°♍31'23	4.38700 AU
direct	-1968 May 18 j 12:21	4°♍40'46	
evening set	-1968 Sep 21 j 20:02	22°♍32'16	
max. Earth dist.	-1968 Oct 02 j 11:53	24°♍54'44	6.34675 AU
conjunction	-1968 Oct 04 j 10:22	25°♍20'42	1°10'14
minimum elong	-1968 Oct 04 j 10:24	25°♍20'43	1°10'13
morning rise	-1968 Oct 16 j 23:05	28°♍08'29	
	-1968 Oct 25 j 09:00	0°♎	
retrograde	-1967 Feb 16 j 13:16	15°♎41'51	
opposition	-1967 Apr 18 j 12:45	10°♎49'48	1°26'25
min. Earth dist.	-1967 Apr 19 j 20:45	10°♎39'37	4.29645 AU
direct	-1967 Jun 19 j 14:52	5°♎51'37	
evening set	-1967 Oct 23 j 02:15	24°♎03'06	
max. Earth dist.	-1967 Nov 03 j 02:16	26°♎33'58	6.23714 AU
conjunction	-1967 Nov 04 j 16:27	26°♎55'51	0°42'45
minimum elong	-1967 Nov 04 j 16:29	26°♎55'53	0°42'44
morning rise	-1967 Nov 17 j 06:13	29°♎48'42	
	-1967 Nov 18 j 02:03	0°♏	
	-1966 Feb 04 j 00:01	15°♏	
retrograde	-1966 Mar 22 j 22:39	18°♏15'18	
	-1966 May 09 j 20:20	15°℞♏	

Attention, astronomical year style is used: The year -1966 in astronomical counting style is the year 1967 BCE in historical counting style.

opposition	-1966 May 22 j 23:02	13°♏21'14	0°33'43
min. Earth dist.	-1966 May 23 j 21:19	13°♏14'06	4.17412 AU
direct	-1966 Jul 22 j 20:53	8°♏25'50	
	-1966 Sep 28 j 13:35	15°♏	
evening set	-1966 Nov 24 j 15:58	27°♏05'53	
conjunction	-1966 Dec 07 j 09:24	0°♐05'16	0°00'41
minimum elong	-1966 Dec 07 j 09:23	0°♐05'16	0°00'38
behind sun begin	-1966 Dec 07 j 01:22	0°♐00'34	
behind sun end	-1966 Dec 07 j 17:25	0°♐09'58	
max. Earth dist.	-1966 Dec 06 j 13:02	29°♏53'17	6.11319 AU
	-1966 Dec 07 j 00:25	0°♐	
desc. node	-1966 Dec 13 j 02:13	1°♐25'49	
morning rise	-1966 Dec 20 j 04:24	3°♐05'40	
retrograde	-1965 Apr 28 j 07:50	22°♐34'11	
opposition	-1965 Jun 28 j 02:11	17°♐36'44	-0°33'32
min. Earth dist.	-1965 Jun 28 j 05:59	17°♐35'30	4.05820 AU
direct	-1965 Aug 26 j 14:20	12°♐43'12	
	-1965 Dec 21 j 04:30	0°♑	
evening set	-1965 Dec 29 j 02:57	1°♑52'41	
conjunction	-1964 Jan 11 j 02:29	4°♑58'55	-0°43'14
minimum elong	-1964 Jan 11 j 02:26	4°♑58'53	0°43'17
max. Earth dist.	-1964 Jan 11 j 11:25	5°♑04'16	6.01615 AU
morning rise	-1964 Jan 24 j 04:37	8°♑06'44	
retrograde	-1964 Jun 04 j 00:30	28°♑24'06	
opposition	-1964 Aug 03 j 06:24	23°♑22'44	-1°31'17
min. Earth dist.	-1964 Aug 02 j 14:55	23°♑27'53	3.99081 AU
direct	-1964 Sep 30 j 14:46	18°♑29'17	
	-1964 Dec 29 j 19:25	0°♒	
evening set	-1963 Feb 02 j 10:29	7°♒57'04	
conjunction	-1963 Feb 15 j 17:19	11°♒07'59	-1°11'54
minimum elong	-1963 Feb 15 j 17:17	11°♒07'58	1°11'55
max. Earth dist.	-1963 Feb 17 j 04:24	11°♒29'01	5.98363 AU
morning rise	-1963 Mar 01 j 03:37	14°♒20'40	
	-1963 Mar 03 j 21:53	15°♒	
	-1963 May 15 j 14:19	0°♓	
retrograde	-1963 Jul 11 j 09:59	4°♓49'10	
	-1963 Sep 07 j 08:50	30°℞♒	
min. Earth dist.	-1963 Sep 08 j 00:09	29°♒54'48	3.99852 AU
opposition	-1963 Sep 09 j 05:57	29°♒44'42	-1°54'17
direct	-1963 Nov 06 j 03:04	24°♒49'11	
	-1962 Jan 02 j 16:49	0°♓	
evening set	-1962 Mar 11 j 17:38	14°♓14'37	
conjunction	-1962 Mar 25 j 07:54	17°♓26'42	-1°12'56
minimum elong	-1962 Mar 25 j 07:56	17°♓26'43	1°12'56
max. Earth dist.	-1962 Mar 27 j 09:35	17°♓56'00	6.02968 AU
morning rise	-1962 Apr 08 j 00:43	20°♓39'56	
	-1962 May 20 j 02:17	0°♈	
retrograde	-1962 Aug 16 j 09:15	10°♈34'13	
opposition	-1962 Oct 14 j 21:08	5°♈29'04	-1°33'16
min. Earth dist.	-1962 Oct 13 j 14:24	5°♈39'34	4.07792 AU
direct	-1962 Dec 12 j 06:44	0°♈30'22	
evening set	-1961 Apr 17 j 16:30	19°♈33'31	
conjunction	-1961 May 01 j 11:07	22°♈42'49	-0°46'56
minimum elong	-1961 May 01 j 11:11	22°♈42'51	0°46'55
max. Earth dist.	-1961 May 03 j 08:33	23°♈08'52	6.13539 AU
morning rise	-1961 May 15 j 06:23	25°♈52'13	
	-1961 Jun 02 j 17:38	0°♉	
retrograde	-1961 Sep 19 j 03:55	14°♉45'04	
opposition	-1961 Nov 17 j 15:18	9°♉41'59	-0°40'21
min. Earth dist.	-1961 Nov 16 j 16:22	9°♉49'45	4.19810 AU
direct	-1960 Jan 16 j 02:23	4°♉40'29	
	-1960 Apr 13 j 13:09	15°♉	

evening set	-1960 May 22 j 06:15	23°♉12'37	
conjunction	-1960 Jun 04 j 23:20	26°♉15'54	-0°05'53
minimum elong	-1960 Jun 04 j 23:21	26°♉15'54	0°05'52
behind sun begin	-1960 Jun 04 j 15:25	26°♉11'30	
behind sun end	-1960 Jun 05 j 07:17	26°♉20'18	
max. Earth dist.	-1960 Jun 05 j 22:36	26°♉28'52	6.26083 AU
morning rise	-1960 Jun 18 j 15:16	29°♉18'20	
	-1960 Jun 21 j 18:44	0°♊	
asc. node	-1960 Jul 28 j 12:40	7°♊42'07	
retrograde	-1960 Oct 20 j 02:30	17°♊10'00	
opposition	-1960 Dec 18 j 17:42	12°♊10'37	0°22'31
min. Earth dist.	-1960 Dec 18 j 10:51	12°♊12'54	4.31712 AU
direct	-1959 Feb 17 j 13:58	7°♊07'27	
evening set	-1959 Jun 25 j 01:05	25°♊11'52	
conjunction	-1959 Jul 08 j 11:39	28°♊08'07	0°35'34
minimum elong	-1959 Jul 08 j 11:37	28°♊08'05	0°35'37
max. Earth dist.	-1959 Jul 08 j 09:47	28°♊07'05	6.36458 AU
	-1959 Jul 17 j 00:04	0°♋	
morning rise	-1959 Jul 21 j 19:17	1°♋02'49	
retrograde	-1959 Nov 19 j 19:30	18°♋12'00	
opposition	-1958 Jan 18 j 19:51	13°♋16'27	1°16'01
min. Earth dist.	-1958 Jan 19 j 04:59	13°♋13'28	4.39893 AU
direct	-1958 Mar 21 j 18:56	8°♋13'05	
evening set	-1958 Jul 27 j 05:25	26°♋00'23	
max. Earth dist.	-1958 Aug 08 j 04:31	28°♋36'21	6.41760 AU
conjunction	-1958 Aug 09 j 06:58	28°♋50'46	1°05'40
minimum elong	-1958 Aug 09 j 06:55	28°♋50'44	1°05'42
	-1958 Aug 14 j 14:02	0°♌	
morning rise	-1958 Aug 22 j 05:25	1°♌39'36	
	-1958 Nov 01 j 10:58	15°♌	
retrograde	-1958 Dec 20 j 08:49	18°♌32'23	
	-1957 Feb 08 j 04:30	15°℞♌	
opposition	-1957 Feb 18 j 17:56	13°♌39'38	1°47'24
min. Earth dist.	-1957 Feb 19 j 18:33	13°♌31'43	4.42131 AU
direct	-1957 Apr 22 j 09:56	8°♌37'13	
	-1957 Jun 30 j 22:15	15°♌	
evening set	-1957 Aug 27 j 08:08	26°♌20'47	
max. Earth dist.	-1957 Sep 07 j 08:12	28°♌45'22	6.40638 AU
conjunction	-1957 Sep 09 j 02:15	29°♌08'28	1°17'21
minimum elong	-1957 Sep 09 j 02:15	29°♌08'28	1°17'22
	-1957 Sep 13 j 00:02	0°♍	
morning rise	-1957 Sep 21 j 17:38	1°♍54'56	
retrograde	-1956 Jan 20 j 12:42	18°♍58'31	
opposition	-1956 Mar 21 j 07:28	14°♍06'54	1°49'36
min. Earth dist.	-1956 Mar 22 j 15:37	13°♍56'40	4.37810 AU
direct	-1956 May 22 j 22:34	9°♍06'28	
evening set	-1956 Sep 26 j 03:53	26°♍59'58	
max. Earth dist.	-1956 Oct 06 j 20:49	29°♍23'28	6.33391 AU
conjunction	-1956 Oct 08 j 18:02	29°♍48'49	1°07'32
minimum elong	-1956 Oct 08 j 18:04	29°♍48'50	1°07'32
	-1956 Oct 09 j 13:58	0°♎	
morning rise	-1956 Oct 21 j 06:30	2°♎37'03	
retrograde	-1955 Feb 21 j 05:38	20°♎16'47	
opposition	-1955 Apr 23 j 05:39	15°♎24'37	1°20'30
min. Earth dist.	-1955 Apr 24 j 13:32	15°♎14'29	4.28030 AU
direct	-1955 Jun 24 j 04:55	10°♎26'52	
evening set	-1955 Oct 27 j 13:35	28°♎42'12	
	-1955 Nov 02 j 05:25	0°♏	
max. Earth dist.	-1955 Nov 07 j 14:01	1°♏13'59	6.21902 AU
conjunction	-1955 Nov 09 j 03:55	1°♏35'48	0°37'29
minimum elong	-1955 Nov 09 j 03:57	1°♏35'50	0°37'28

Attention, astronomical year style is used: The year -1955 in astronomical counting style is the year 1956 BCE in historical counting style.

morning rise	-1955 Nov 21 j 18:23	4°♏29'41	
	-1954 Jan 10 j 02:12	15°♏	
retrograde	-1954 Mar 27 j 22:07	23°♏05'10	
opposition	-1954 May 27 j 22:09	18°♏10'43	0°24'41
min. Earth dist.	-1954 May 28 j 18:05	18°♏04'19	4.15526 AU
	-1954 Jun 23 j 20:58	15°℞♏	
direct	-1954 Jul 27 j 15:22	13°♏15'37	
	-1954 Aug 30 j 01:15	15°♏	
desc. node	-1954 Oct 22 j 14:29	23°♏34'48	
	-1954 Nov 20 j 18:03	0°♐	
evening set	-1954 Nov 29 j 09:15	2°♐00'38	
max. Earth dist.	-1954 Dec 11 j 12:00	4°♐51'56	6.09546 AU
conjunction	-1954 Dec 12 j 03:36	5°♐01'09	-0°05'51
minimum elong	-1954 Dec 12 j 03:35	5°♐01'08	0°05'53
behind sun begin	-1954 Dec 11 j 19:54	4°♐56'37	
behind sun end	-1954 Dec 12 j 11:16	5°♐05'39	
morning rise	-1954 Dec 24 j 23:23	8°♐02'42	
retrograde	-1953 May 03 j 15:37	27°♐40'07	
opposition	-1953 Jul 03 j 06:58	22°♐42'12	-0°42'54
min. Earth dist.	-1953 Jul 03 j 08:39	22°♐41'39	4.04339 AU
direct	-1953 Aug 31 j 14:36	17°♐48'53	
	-1953 Dec 03 j 14:39	0°♑	
evening set	-1952 Jan 03 j 03:40	7°♑02'34	
conjunction	-1952 Jan 16 j 04:03	10°♑09'41	-0°48'35
minimum elong	-1952 Jan 16 j 04:00	10°♑09'39	0°48'38
max. Earth dist.	-1952 Jan 16 j 16:02	10°♑16'52	6.00560 AU
morning rise	-1952 Jan 29 j 07:30	13°♑18'30	
	-1952 Apr 20 j 21:58	0°♒	
retrograde	-1952 Jun 09 j 07:30	3°♒40'45	
	-1952 Jul 29 j 07:16	30°℞♑	
opposition	-1952 Aug 08 j 12:59	28°♑38'51	-1°37'06
min. Earth dist.	-1952 Aug 07 j 17:48	28°♑45'16	3.98620 AU
direct	-1952 Oct 05 j 17:26	23°♑45'18	
	-1952 Dec 08 j 09:37	0°♒	
evening set	-1951 Feb 07 j 16:37	13°♒14'24	
	-1951 Feb 15 j 01:31	15°♒	
conjunction	-1951 Feb 21 j 00:37	16°♒25'44	-1°13'51
minimum elong	-1951 Feb 21 j 00:36	16°♒25'43	1°13'53
max. Earth dist.	-1951 Feb 22 j 15:50	16°♒49'13	5.98550 AU
morning rise	-1951 Mar 06 j 11:51	19°♒38'43	
	-1951 Apr 21 j 18:51	0°♓	
retrograde	-1951 Jul 16 j 15:33	10°♓04'47	
min. Earth dist.	-1951 Sep 13 j 03:15	5°♓10'19	4.00687 AU
opposition	-1951 Sep 14 j 09:32	5°♓00'01	-1°53'52
direct	-1951 Nov 11 j 08:26	0°♓04'05	
evening set	-1950 Mar 17 j 00:11	19°♓26'43	
conjunction	-1950 Mar 30 j 15:20	22°♓38'32	-1°10'42
minimum elong	-1950 Mar 30 j 15:22	22°♓38'33	1°10'42
max. Earth dist.	-1950 Apr 01 j 18:56	23°♓08'50	6.04375 AU
morning rise	-1950 Apr 13 j 08:45	25°♓51'22	
	-1950 May 01 j 10:55	0°♈	
retrograde	-1950 Aug 21 j 05:58	15°♈36'53	
min. Earth dist.	-1950 Oct 18 j 10:55	10°♈42'27	4.09614 AU
opposition	-1950 Oct 19 j 17:59	10°♈31'51	-1°27'13
direct	-1950 Dec 17 j 05:43	5°♈32'43	
evening set	-1949 Apr 22 j 18:29	24°♈30'22	
conjunction	-1949 May 06 j 13:03	27°♈38'45	-0°41'44
minimum elong	-1949 May 06 j 13:06	27°♈38'47	0°41'42
max. Earth dist.	-1949 May 08 j 07:01	28°♈02'42	6.15608 AU
	-1949 May 16 j 21:02	0°♉	
morning rise	-1949 May 20 j 08:14	0°♉47'09	
	-1949 Jul 30 j 22:46	15°♉	
retrograde	-1949 Sep 23 j 16:35	19°♉29'36	
	-1949 Nov 18 j 03:00	15°℞♉	
min. Earth dist.	-1949 Nov 21 j 08:30	14°♉33'48	4.21900 AU
opposition	-1949 Nov 22 j 04:57	14°♉26'53	-0°31'40
direct	-1948 Jan 20 j 21:40	9°♉25'00	
	-1948 Mar 23 j 08:20	15°♉	
evening set	-1948 May 27 j 01:08	27°♉51'30	
	-1948 Jun 05 j 17:04	0°♊	
asc. node	-1948 Jun 07 j 20:41	0°♊28'41	
conjunction	-1948 Jun 09 j 17:40	0°♊53'41	0°00'13
minimum elong	-1948 Jun 09 j 17:40	0°♊53'41	0°00'15
behind sun begin	-1948 Jun 09 j 09:25	0°♊49'07	
behind sun end	-1948 Jun 10 j 01:56	0°♊58'15	
max. Earth dist.	-1948 Jun 10 j 14:35	1°♊05'18	6.28037 AU
morning rise	-1948 Jun 23 j 08:26	3°♊54'50	
retrograde	-1948 Oct 24 j 08:20	21°♊38'12	
opposition	-1948 Dec 23 j 01:39	16°♊39'22	0°30'48
min. Earth dist.	-1948 Dec 22 j 20:37	16°♊41'03	4.33371 AU
direct	-1947 Feb 22 j 01:55	11°♊36'05	
evening set	-1947 Jun 29 j 13:32	29°♊36'38	
	-1947 Jul 01 j 08:35	0°♋	
conjunction	-1947 Jul 12 j 22:44	2°♋31'49	0°40'35
minimum elong	-1947 Jul 12 j 22:41	2°♋31'48	0°40'37
max. Earth dist.	-1947 Jul 12 j 15:14	2°♋27'44	6.37680 AU
morning rise	-1947 Jul 26 j 05:13	5°♋25'32	
retrograde	-1947 Nov 24 j 00:51	22°♋30'31	
opposition	-1946 Jan 23 j 01:47	17°♋35'25	1°21'50
min. Earth dist.	-1946 Jan 23 j 14:32	17°♋31'16	4.40610 AU
direct	-1946 Mar 26 j 05:07	12°♋32'02	
	-1946 Jul 30 j 03:40	0°♌	
evening set	-1946 Jul 31 j 13:01	0°♌18'00	
max. Earth dist.	-1946 Aug 12 j 08:28	2°♌52'01	6.41896 AU
conjunction	-1946 Aug 13 j 13:35	3°♌07'53	1°08'28
minimum elong	-1946 Aug 13 j 13:32	3°♌07'52	1°08'30
morning rise	-1946 Aug 26 j 10:48	5°♌56'11	
	-1946 Oct 10 j 00:26	15°♌	
retrograde	-1946 Dec 24 j 13:36	22°♌49'22	
opposition	-1945 Feb 23 j 00:59	17°♌56'51	1°49'32
min. Earth dist.	-1945 Feb 24 j 02:39	17°♌48'36	4.41705 AU
	-1945 Mar 19 j 14:49	15°℞♌	
direct	-1945 Apr 26 j 16:44	12°♌54'37	
	-1945 Jun 03 j 23:08	15°♌	
	-1945 Aug 28 j 13:41	0°♍	
evening set	-1945 Aug 31 j 14:27	0°♍39'38	
max. Earth dist.	-1945 Sep 11 j 12:14	3°♍03'23	6.39670 AU
conjunction	-1945 Sep 13 j 07:45	3°♍27'22	1°17'16
minimum elong	-1945 Sep 13 j 07:46	3°♍27'22	1°17'16
morning rise	-1945 Sep 25 j 22:32	6°♍13'57	
retrograde	-1944 Jan 25 j 00:20	23°♍22'13	
opposition	-1944 Mar 25 j 19:03	18°♍30'41	1°47'24
min. Earth dist.	-1944 Mar 27 j 04:50	18°♍19'56	4.36357 AU
direct	-1944 May 27 j 09:36	13°♍30'34	
	-1944 Sep 23 j 21:44	0°♎	
evening set	-1944 Sep 30 j 12:00	1°♎27'51	
max. Earth dist.	-1944 Oct 11 j 03:59	3°♎51'28	6.31566 AU
conjunction	-1944 Oct 13 j 02:00	4°♎17'23	1°04'26
minimum elong	-1944 Oct 13 j 02:02	4°♎17'24	1°04'26
morning rise	-1944 Oct 25 j 14:38	7°♎06'25	
retrograde	-1943 Feb 25 j 23:27	24°♎54'24	
opposition	-1943 Apr 28 j 00:02	20°♎01'59	1°14'02
min. Earth dist.	-1943 Apr 29 j 06:07	19°♎52'24	4.25955 AU
direct	-1943 Jun 28 j 18:36	15°♎04'38	

Attention, astronomical year style is used: The year -1943 in astronomical counting style is the year 1944 BCE in historical counting style.

	-1943 Oct 16 j 23:28	0°♏	
evening set	-1943 Nov 01 j 02:32	3°♏25'16	
max. Earth dist.	-1943 Nov 12 j 07:25	6°♏00'18	6.19773 AU
conjunction	-1943 Nov 13 j 17:24	6°♏19'58	0°31'55
minimum elong	-1943 Nov 13 j 17:26	6°♏19'59	0°31'53
morning rise	-1943 Nov 26 j 08:22	9°♏15'00	
	-1943 Dec 22 j 00:09	15°♏	
retrograde	-1942 Apr 02 j 02:08	28°♏00'30	
opposition	-1942 Jun 02 j 00:09	23°♏05'41	0°15'17
min. Earth dist.	-1942 Jun 02 j 18:14	22°♏59'52	4.13502 AU
direct	-1942 Aug 01 j 12:55	18°♏10'59	
desc. node	-1942 Aug 31 j 13:35	19°♏36'28	
	-1942 Nov 03 j 06:58	0°♐	
evening set	-1942 Dec 04 j 05:23	7°♐01'11	
max. Earth dist.	-1942 Dec 16 j 11:55	9°♐55'24	6.07816 AU
conjunction	-1942 Dec 17 j 00:22	10°♐02'46	-0°12'21
minimum elong	-1942 Dec 17 j 00:21	10°♐02'46	0°12'24
behind sun begin	-1942 Dec 16 j 18:58	9°♐59'35	
behind sun end	-1942 Dec 17 j 05:45	10°♐05'57	
morning rise	-1942 Dec 29 j 21:19	13°♐05'34	
	-1941 Mar 26 j 10:56	0°♑	
retrograde	-1941 May 08 j 22:41	2°♑51'21	
	-1941 Jun 21 j 20:49	30°℞♐	
opposition	-1941 Jul 08 j 13:48	27°♐52'51	-0°52'06
min. Earth dist.	-1941 Jul 08 j 11:02	27°♐53'45	4.03091 AU
direct	-1941 Sep 05 j 15:46	22°♐59'39	
	-1941 Nov 13 j 01:50	0°♑	
evening set	-1940 Jan 08 j 06:41	12°♑16'32	
conjunction	-1940 Jan 21 j 08:07	15°♑24'23	-0°53'38
minimum elong	-1940 Jan 21 j 08:04	15°♑24'21	0°53'39
max. Earth dist.	-1940 Jan 22 j 01:46	15°♑34'59	5.99897 AU
morning rise	-1940 Feb 03 j 12:31	18°♑33'56	
	-1940 Mar 26 j 02:03	0°♒	
retrograde	-1940 Jun 14 j 16:49	8°♒58'57	
opposition	-1940 Aug 13 j 20:12	3°♒56'31	-1°42'07
min. Earth dist.	-1940 Aug 12 j 23:16	4°♒03'32	3.98621 AU
	-1940 Sep 17 j 05:16	30°℞♑	
direct	-1940 Oct 10 j 23:56	29°♑02'43	
	-1940 Nov 03 j 16:25	0°♒	
	-1939 Jan 28 j 23:26	15°♒	
evening set	-1939 Feb 12 j 23:13	18°♒31'21	
conjunction	-1939 Feb 26 j 08:16	21°♒42'51	-1°15'13
minimum elong	-1939 Feb 26 j 08:15	21°♒42'51	1°15'14
max. Earth dist.	-1939 Feb 28 j 03:01	22°♒08'23	5.99173 AU
morning rise	-1939 Mar 11 j 20:29	24°♒55'58	
	-1939 Apr 02 j 16:23	0°♓	
retrograde	-1939 Jul 21 j 19:00	15°♓17'33	
min. Earth dist.	-1939 Sep 18 j 04:20	10°♓23'23	4.01873 AU
opposition	-1939 Sep 19 j 11:59	10°♓12'36	-1°52'32
direct	-1939 Nov 16 j 10:56	5°♓16'17	
evening set	-1938 Mar 22 j 05:46	24°♓35'12	
conjunction	-1938 Apr 04 j 21:27	27°♓46'35	-1°07'56
minimum elong	-1938 Apr 04 j 21:30	27°♓46'37	1°07'57
max. Earth dist.	-1938 Apr 06 j 23:26	28°♓15'49	6.05984 AU
	-1938 Apr 14 j 10:02	0°♈	
morning rise	-1938 Apr 18 j 15:28	0°♈58'53	
retrograde	-1938 Aug 26 j 00:24	20°♈35'23	
min. Earth dist.	-1938 Oct 23 j 07:24	15°♈40'42	4.11463 AU
opposition	-1938 Oct 24 j 13:11	15°♈30'32	-1°20'39
direct	-1938 Dec 22 j 05:00	10°♈30'59	
evening set	-1937 Apr 27 j 19:06	29°♈23'36	
	-1937 Apr 30 j 11:29	0°♉	
conjunction	-1937 May 11 j 13:50	2°♉31'10	-0°36'17
minimum elong	-1937 May 11 j 13:52	2°♉31'12	0°36'16
max. Earth dist.	-1937 May 13 j 06:22	2°♉54'13	6.17567 AU
morning rise	-1937 May 25 j 08:32	5°♉38'32	
	-1937 Jul 08 j 08:31	15°♉	
retrograde	-1937 Sep 28 j 04:44	24°♉11'27	
opposition	-1937 Nov 26 j 17:24	19°♉09'19	-0°22'52
min. Earth dist.	-1937 Nov 25 j 22:54	19°♉15'34	4.23784 AU
	-1936 Jan 02 j 07:01	15°℞♉	
direct	-1936 Jan 25 j 14:25	14°♉07'14	
	-1936 Feb 18 j 05:05	15°♉	
asc. node	-1936 Apr 17 j 22:03	23°♉20'43	
	-1936 May 20 j 09:53	0°♊	
evening set	-1936 May 31 j 19:32	2°♊29'15	
conjunction	-1936 Jun 14 j 11:08	5°♊30'24	0°06'16
minimum elong	-1936 Jun 14 j 11:07	5°♊30'24	0°06'19
behind sun begin	-1936 Jun 14 j 03:19	5°♊26'05	
behind sun end	-1936 Jun 14 j 18:55	5°♊34'42	
max. Earth dist.	-1936 Jun 15 j 02:34	5°♊38'57	6.29696 AU
morning rise	-1936 Jun 28 j 01:05	8°♊30'29	
retrograde	-1936 Oct 28 j 15:45	26°♊07'02	
opposition	-1936 Dec 27 j 10:01	21°♊08'46	0°38'56
min. Earth dist.	-1936 Dec 27 j 08:04	21°♊09'24	4.34700 AU
direct	-1935 Feb 26 j 15:08	16°♊05'21	
	-1935 Jun 15 j 01:12	0°♋	
evening set	-1935 Jul 04 j 02:01	4°♋03'13	
conjunction	-1935 Jul 17 j 10:12	6°♋57'35	0°45'24
minimum elong	-1935 Jul 17 j 10:09	6°♋57'34	0°45'26
max. Earth dist.	-1935 Jul 17 j 00:17	6°♋52'11	6.38581 AU
morning rise	-1935 Jul 30 j 15:12	9°♋50'22	
retrograde	-1935 Nov 28 j 05:50	26°♋52'24	
opposition	-1934 Jan 27 j 08:49	21°♋57'47	1°27'17
min. Earth dist.	-1934 Jan 27 j 23:12	21°♋53'07	4.41054 AU
direct	-1934 Mar 30 j 14:07	16°♋54'32	
	-1934 Jul 13 j 20:40	0°♌	
evening set	-1934 Aug 04 j 22:05	4°♌40'01	
conjunction	-1934 Aug 17 j 21:21	7°♌29'25	1°10'55
minimum elong	-1934 Aug 17 j 21:19	7°♌29'24	1°10'57
max. Earth dist.	-1934 Aug 16 j 12:18	7°♌11'23	6.41830 AU
morning rise	-1934 Aug 30 j 17:39	10°♌17'20	
	-1934 Sep 21 j 22:19	15°♌	
retrograde	-1934 Dec 28 j 22:35	27°♌11'33	
opposition	-1933 Feb 27 j 10:04	22°♌19'19	1°51'06
min. Earth dist.	-1933 Feb 28 j 14:19	22°♌10'15	4.41156 AU
direct	-1933 May 01 j 03:37	17°♌17'18	
	-1933 Aug 12 j 04:37	0°♍	
evening set	-1933 Sep 04 j 22:12	5°♍03'56	
max. Earth dist.	-1933 Sep 15 j 18:43	7°♍27'21	6.38669 AU
conjunction	-1933 Sep 17 j 14:59	7°♍51'48	1°16'45
minimum elong	-1933 Sep 17 j 14:59	7°♍51'49	1°16'46
morning rise	-1933 Sep 30 j 05:09	10°♍38'34	
retrograde	-1932 Jan 29 j 11:59	27°♍51'38	
opposition	-1932 Mar 30 j 08:45	23°♍00'04	1°44'32
min. Earth dist.	-1932 Mar 31 j 17:39	22°♍49'36	4.34987 AU
direct	-1932 May 31 j 20:13	18°♍00'21	
	-1932 Sep 07 j 03:53	0°♎	
evening set	-1932 Oct 04 j 21:34	6°♎00'54	
max. Earth dist.	-1932 Oct 15 j 15:05	8°♎25'57	6.29952 AU
conjunction	-1932 Oct 17 j 11:25	8°♎51'01	1°00'54
minimum elong	-1932 Oct 17 j 11:28	8°♎51'02	1°00'54
morning rise	-1932 Oct 30 j 00:08	11°♎40'46	
retrograde	-1931 Mar 02 j 20:27	29°♎36'19	

Attention, astronomical year style is used: The year -1931 in astronomical counting style is the year 1932 BCE in historical counting style.

opposition	-1931 May 02 j 20:10	24°♎43'42	1°07'01
min. Earth dist.	-1931 May 04 j 01:41	24°♎34'17	4.24202 AU
direct	-1931 Jul 03 j 12:02	19°♎46'46	
	-1931 Sep 29 j 07:05	0°♏	
evening set	-1931 Nov 05 j 16:27	8°♏11'21	
max. Earth dist.	-1931 Nov 16 j 23:47	10°♏48'25	6.18058 AU
conjunction	-1931 Nov 18 j 07:41	11°♏06'56	0°26'06
minimum elong	-1931 Nov 18 j 07:43	11°♏06'57	0°26'05
morning rise	-1931 Nov 30 j 23:25	14°♏03'01	
	-1931 Dec 05 j 02:25	15°♏	
	-1930 Feb 21 j 16:53	0°♐	
retrograde	-1930 Apr 07 j 03:27	2°♐56'49	
	-1930 May 22 j 07:15	30°℞♏	
opposition	-1930 Jun 07 j 01:53	28°♏01'29	0°05'48
min. Earth dist.	-1930 Jun 07 j 16:04	27°♏56'54	4.11978 AU
desc. node	-1930 Jul 11 j 05:07	24°♏11'54	
direct	-1930 Aug 06 j 08:50	23°♏07'06	
	-1930 Oct 14 j 04:43	0°♐	
evening set	-1930 Dec 09 j 01:04	12°♐00'43	
conjunction	-1930 Dec 21 j 20:50	15°♐03'08	-0°18'42
minimum elong	-1930 Dec 21 j 20:49	15°♐03'07	0°18'45
max. Earth dist.	-1930 Dec 21 j 13:30	14°♐58'47	6.06627 AU
morning rise	-1929 Jan 03 j 18:37	18°♐06'49	
	-1929 Feb 27 j 10:23	0°♑	
retrograde	-1929 May 14 j 05:30	7°♑58'44	
opposition	-1929 Jul 13 j 18:51	2°♑59'37	-1°00'44
min. Earth dist.	-1929 Jul 13 j 13:54	3°♑01'15	4.02357 AU
	-1929 Aug 07 j 08:02	30°℞♐	
direct	-1929 Sep 10 j 18:14	28°♐06'27	
	-1929 Oct 14 j 18:24	0°♑	
evening set	-1928 Jan 13 j 07:27	17°♑24'38	
conjunction	-1928 Jan 26 j 09:49	20°♑33'00	-0°58'07
minimum elong	-1928 Jan 26 j 09:46	20°♑32'58	0°58'09
max. Earth dist.	-1928 Jan 27 j 07:42	20°♑46'07	5.99668 AU
morning rise	-1928 Feb 08 j 15:18	23°♑43'04	
	-1928 Mar 06 j 17:44	0°♒	
retrograde	-1928 Jun 19 j 21:26	14°♒08'49	
opposition	-1928 Aug 18 j 23:41	9°♒05'55	-1°46'09
min. Earth dist.	-1928 Aug 18 j 00:17	9°♒13'46	3.98956 AU
direct	-1928 Oct 16 j 01:16	4°♒11'51	
	-1927 Jan 11 j 00:05	15°♒	
evening set	-1927 Feb 18 j 02:32	23°♒39'01	
conjunction	-1927 Mar 03 j 12:25	26°♒50'31	-1°15'56
minimum elong	-1927 Mar 03 j 12:24	26°♒50'31	1°15'56
max. Earth dist.	-1927 Mar 05 j 07:55	27°♒16'26	6.00000 AU
	-1927 Mar 16 j 19:28	0°♓	
morning rise	-1927 Mar 17 j 01:36	0°♓03'37	
retrograde	-1927 Jul 26 j 16:56	20°♓20'00	
min. Earth dist.	-1927 Sep 23 j 02:17	15°♓25'40	4.03097 AU
opposition	-1927 Sep 24 j 10:02	15°♓14'51	-1°50'22
direct	-1927 Nov 21 j 10:44	10°♓18'02	
evening set	-1926 Mar 27 j 07:21	29°♓33'22	
	-1926 Mar 29 j 05:19	0°♈	
conjunction	-1926 Apr 09 j 23:54	2°♈44'23	-1°04'46
minimum elong	-1926 Apr 09 j 23:57	2°♈44'25	1°04'46
max. Earth dist.	-1926 Apr 12 j 02:16	3°♈13'44	6.07507 AU
morning rise	-1926 Apr 23 j 18:10	5°♈56'08	
retrograde	-1926 Aug 30 j 17:06	25°♈24'07	
min. Earth dist.	-1926 Oct 28 j 00:38	20°♈29'09	4.13108 AU
opposition	-1926 Oct 29 j 04:47	20°♈19'34	-1°13'45
direct	-1926 Dec 26 j 23:58	15°♈19'38	
	-1925 Apr 14 j 00:46	0°♉	
evening set	-1925 May 02 j 16:24	4°♉08'05	
conjunction	-1925 May 16 j 10:57	7°♉14'55	-0°30'46
minimum elong	-1925 May 16 j 10:59	7°♉14'56	0°30'45
max. Earth dist.	-1925 May 17 j 23:14	7°♉35'27	6.19202 AU
morning rise	-1925 May 30 j 05:31	10°♉21'28	
	-1925 Jun 20 j 07:46	15°♉	
retrograde	-1925 Oct 02 j 13:58	28°♉46'25	
min. Earth dist.	-1925 Nov 30 j 11:11	23°♉50'18	4.25268 AU
opposition	-1925 Dec 01 j 03:37	23°♉44'46	-0°14'11
direct	-1924 Jan 30 j 04:50	18°♉42'25	
asc. node	-1924 Feb 27 j 21:11	19°♉59'04	
	-1924 May 03 j 07:54	0°♊	
evening set	-1924 Jun 05 j 11:39	7°♊01'21	
conjunction	-1924 Jun 19 j 02:36	10°♊01'41	0°12'06
minimum elong	-1924 Jun 19 j 02:35	10°♊01'41	0°12'08
behind sun begin	-1924 Jun 18 j 21:07	9°♊58'40	
behind sun end	-1924 Jun 19 j 08:03	10°♊04'41	
max. Earth dist.	-1924 Jun 19 j 15:01	10°♊08'32	6.30943 AU
morning rise	-1924 Jul 02 j 15:25	13°♊00'48	
	-1924 Oct 14 j 17:17	0°♋	
retrograde	-1924 Nov 01 j 22:52	0°♋32'07	
	-1924 Nov 20 j 01:44	30°℞♊	
opposition	-1924 Dec 31 j 17:21	25°♊34'27	0°46'41
min. Earth dist.	-1924 Dec 31 j 17:48	25°♊34'19	4.35631 AU
direct	-1923 Mar 03 j 02:04	20°♊31'04	
	-1923 May 28 j 09:50	0°♋	
evening set	-1923 Jul 08 j 13:54	8°♋27'27	
conjunction	-1923 Jul 21 j 20:48	11°♋21'07	0°49'54
minimum elong	-1923 Jul 21 j 20:45	11°♋21'05	0°49'56
max. Earth dist.	-1923 Jul 21 j 06:14	11°♋13'10	6.39121 AU
morning rise	-1923 Aug 04 j 00:46	14°♋13'14	
	-1923 Nov 04 j 13:08	0°♌	
retrograde	-1923 Dec 02 j 12:49	1°♌13'31	
	-1923 Dec 30 j 11:48	30°℞♋	
opposition	-1922 Jan 31 j 16:17	26°♋19'20	1°32'12
min. Earth dist.	-1922 Feb 01 j 09:03	26°♋13'53	4.41208 AU
direct	-1922 Apr 04 j 00:02	21°♋16'11	
	-1922 Jun 25 j 22:06	0°♌	
evening set	-1922 Aug 09 j 06:49	9°♌01'50	
max. Earth dist.	-1922 Aug 20 j 19:42	11°♌32'37	6.41586 AU
conjunction	-1922 Aug 22 j 05:13	11°♌50'56	1°12'57
minimum elong	-1922 Aug 22 j 05:11	11°♌50'55	1°12'58
morning rise	-1922 Sep 04 j 00:20	14°♌38'31	
	-1922 Sep 05 j 15:56	15°♌	
	-1922 Dec 01 j 06:29	0°♍	
retrograde	-1921 Jan 02 j 06:16	1°♍34'23	
	-1921 Feb 03 j 10:36	30°℞♌	
opposition	-1921 Mar 03 j 19:56	26°♌42'21	1°52'01
min. Earth dist.	-1921 Mar 05 j 00:20	26°♌33'16	4.40548 AU
direct	-1921 May 05 j 12:44	21°♌40'41	
	-1921 Jul 25 j 00:00	0°♍	
evening set	-1921 Sep 09 j 06:14	9°♍28'46	
max. Earth dist.	-1921 Sep 20 j 00:52	11°♍51'35	6.37734 AU
conjunction	-1921 Sep 21 j 22:12	12°♍16'43	1°15'47
minimum elong	-1921 Sep 21 j 22:13	12°♍16'43	1°15'48
morning rise	-1921 Oct 04 j 12:01	15°♍03'41	
	-1921 Dec 25 j 11:27	0°♎	
retrograde	-1920 Feb 03 j 02:30	2°♎21'18	
	-1920 Mar 14 j 04:56	30°℞♍	
opposition	-1920 Apr 03 j 23:02	27°♍29'42	1°41'00
min. Earth dist.	-1920 Apr 05 j 08:35	27°♍19'02	4.33767 AU
direct	-1920 Jun 05 j 09:42	22°♍30'20	

Attention, astronomical year style is used: The year -1920 in astronomical counting style is the year 1921 BCE in historical counting style.

	-1920 Aug 19 j 07:04	0°♎	
evening set	-1920 Oct 09 j 06:49	10°♎33'23	
max. Earth dist.	-1920 Oct 20 j 01:41	12°♎59'40	6.28544 AU
conjunction	-1920 Oct 21 j 20:43	13°♎24'04	0°57'00
minimum elong	-1920 Oct 21 j 20:46	13°♎24'06	0°56'59
morning rise	-1920 Nov 03 j 09:33	16°♎14'28	
	-1919 Jan 12 j 07:24	0°♏	
retrograde	-1919 Mar 07 j 14:38	4°♏16'50	
	-1919 May 02 j 22:09	30°℞♎	
opposition	-1919 May 07 j 15:35	29°♎23'55	0°59'32
min. Earth dist.	-1919 May 08 j 18:33	29°♎15'18	4.22680 AU
direct	-1919 Jul 08 j 02:22	24°♎27'23	
	-1919 Sep 08 j 09:32	0°♏	
evening set	-1919 Nov 10 j 05:24	12°♏55'14	
	-1919 Nov 19 j 04:26	15°♏	
conjunction	-1919 Nov 22 j 21:02	15°♏51'38	0°20'09
minimum elong	-1919 Nov 22 j 21:04	15°♏51'39	0°20'08
max. Earth dist.	-1919 Nov 21 j 16:12	15°♏34'49	6.16542 AU
morning rise	-1919 Dec 05 j 13:24	18°♏48'38	
	-1918 Jan 26 j 19:54	0°♐	
retrograde	-1918 Apr 12 j 05:38	7°♐50'21	
desc. node	-1918 May 21 j 08:54	5°♐33'41	
opposition	-1918 Jun 12 j 02:32	2°♐54'32	-0°03'42
min. Earth dist.	-1918 Jun 12 j 15:05	2°♐50'29	4.10558 AU
	-1918 Jul 06 j 05:28	30°℞♏	
direct	-1918 Aug 11 j 05:50	28°♏00'23	
	-1918 Sep 15 j 18:06	0°♐	
evening set	-1918 Dec 13 j 19:33	16°♐57'23	
conjunction	-1918 Dec 26 j 16:09	20°♐00'40	-0°24'53
minimum elong	-1918 Dec 26 j 16:07	20°♐00'39	0°24'56
max. Earth dist.	-1918 Dec 26 j 12:24	19°♐58'26	6.05432 AU
morning rise	-1917 Jan 08 j 14:54	23°♐05'18	
	-1917 Feb 07 j 19:19	0°♑	
retrograde	-1917 May 19 j 09:34	13°♑03'26	
opposition	-1917 Jul 18 j 22:08	8°♑03'49	-1°08'52
min. Earth dist.	-1917 Jul 18 j 14:07	8°♑06'28	4.01528 AU
direct	-1917 Sep 15 j 17:11	3°♑10'40	
evening set	-1916 Jan 18 j 07:54	22°♑31'07	
conjunction	-1916 Jan 31 j 11:10	25°♑40'04	-1°02'09
minimum elong	-1916 Jan 31 j 11:07	25°♑40'02	1°02'12
max. Earth dist.	-1916 Feb 01 j 11:26	25°♑54'39	5.99256 AU
morning rise	-1916 Feb 13 j 17:45	28°♑50'47	
	-1916 Feb 18 j 14:24	0°♒	
	-1916 May 02 j 10:26	15°♒	
retrograde	-1916 Jun 25 j 01:06	19°♒18'08	
	-1916 Aug 18 j 11:32	15°℞♒	
min. Earth dist.	-1916 Aug 23 j 01:12	14°♒23'11	3.99016 AU
opposition	-1916 Aug 24 j 02:11	14°♒14'46	-1°49'24
direct	-1916 Oct 21 j 02:42	9°♒20'21	
	-1916 Dec 20 j 09:51	15°♒	
evening set	-1915 Feb 23 j 06:06	28°♒47'31	
	-1915 Feb 28 j 08:28	0°♓	
conjunction	-1915 Mar 08 j 17:12	1°♓59'16	-1°16'05
minimum elong	-1915 Mar 08 j 17:13	1°♓59'17	1°16'06
max. Earth dist.	-1915 Mar 10 j 15:48	2°♓26'59	6.00521 AU
morning rise	-1915 Mar 22 j 07:11	5°♓12'30	
retrograde	-1915 Jul 31 j 17:36	25°♓24'46	
min. Earth dist.	-1915 Sep 28 j 01:23	20°♓30'13	4.04017 AU
opposition	-1915 Sep 29 j 08:40	20°♓19'33	-1°47'25
direct	-1915 Nov 26 j 10:49	15°♓22'19	
	-1914 Mar 12 j 05:50	0°♈	
evening set	-1914 Apr 01 j 10:35	4°♈35'18	
conjunction	-1914 Apr 15 j 03:37	7°♈46'03	-1°01'06
minimum elong	-1914 Apr 15 j 03:41	7°♈46'05	1°01'05
max. Earth dist.	-1914 Apr 17 j 04:11	8°♈14'13	6.08726 AU
morning rise	-1914 Apr 28 j 22:29	10°♈57'27	
	-1914 Aug 22 j 00:05	0°♉	
retrograde	-1914 Sep 04 j 09:38	0°♉17'54	
	-1914 Sep 17 j 18:21	30°℞♈	
opposition	-1914 Nov 02 j 21:48	25°♈13'36	-1°06'16
min. Earth dist.	-1914 Nov 01 j 18:19	25°♈22'58	4.14496 AU
direct	-1914 Dec 31 j 20:10	20°♈13'15	
	-1913 Mar 26 j 15:01	0°♉	
evening set	-1913 May 07 j 16:03	8°♉58'31	
conjunction	-1913 May 21 j 10:34	12°♉04'41	-0°24'55
minimum elong	-1913 May 21 j 10:36	12°♉04'42	0°24'54
max. Earth dist.	-1913 May 22 j 20:17	12°♉23'43	6.20671 AU
	-1913 Jun 03 j 10:03	15°♉	
morning rise	-1913 Jun 04 j 04:36	15°♉10'23	
	-1913 Aug 20 j 11:14	0°♊	
retrograde	-1913 Oct 07 j 03:37	3°♊27'46	
	-1913 Nov 23 j 21:48	30°℞♉	
opposition	-1913 Dec 05 j 16:07	28°♉26'41	-0°05'13
min. Earth dist.	-1913 Dec 05 j 02:17	28°♉31'20	4.26682 AU
asc. node	-1912 Jan 07 j 06:52	24°♉36'51	
direct	-1912 Feb 03 j 22:08	23°♉24'07	
	-1912 Apr 13 j 01:01	0°♊	
evening set	-1912 Jun 10 j 06:19	11°♊40'03	
conjunction	-1912 Jun 23 j 20:20	14°♊39'29	0°18'01
minimum elong	-1912 Jun 23 j 20:19	14°♊39'29	0°18'03
max. Earth dist.	-1912 Jun 24 j 05:19	14°♊44'26	6.32211 AU
morning rise	-1912 Jul 07 j 08:08	17°♊37'39	
	-1912 Sep 08 j 11:38	0°♋	
retrograde	-1912 Nov 06 j 07:04	5°♋03'29	
opposition	-1911 Jan 05 j 03:07	0°♋06'19	0°54'21
min. Earth dist.	-1911 Jan 05 j 05:06	0°♋05'40	4.36709 AU
	-1911 Jan 05 j 22:16	30°℞♊	
direct	-1911 Mar 07 j 14:54	25°♊02'54	
	-1911 May 06 j 14:47	0°♋	
evening set	-1911 Jul 13 j 03:24	12°♋56'58	
conjunction	-1911 Jul 26 j 09:06	15°♋49'46	0°54'13
minimum elong	-1911 Jul 26 j 09:03	15°♋49'45	0°54'15
max. Earth dist.	-1911 Jul 25 j 17:07	15°♋41'03	6.39955 AU
morning rise	-1911 Aug 08 j 11:36	18°♋40'59	
	-1911 Oct 05 j 01:10	0°♌	
retrograde	-1911 Dec 06 j 20:17	5°♌38'25	
opposition	-1910 Feb 05 j 01:16	0°♌44'38	1°36'40
min. Earth dist.	-1910 Feb 05 j 19:26	0°♌38'45	4.41775 AU
	-1910 Feb 10 j 19:34	30°℞♋	
direct	-1910 Apr 08 j 11:33	25°♋41'40	
	-1910 Jun 03 j 12:41	0°♌	
evening set	-1910 Aug 13 j 16:18	13°♌25'41	
	-1910 Aug 20 j 21:39	15°♌	
max. Earth dist.	-1910 Aug 25 j 01:09	15°♌54'21	6.41833 AU
conjunction	-1910 Aug 26 j 13:25	16°♌14'11	1°14'37
minimum elong	-1910 Aug 26 j 13:23	16°♌14'10	1°14'38
morning rise	-1910 Sep 08 j 07:38	19°♌01'16	
	-1910 Nov 02 j 17:16	0°♍	
retrograde	-1909 Jan 06 j 15:09	5°♍57'02	
opposition	-1909 Mar 08 j 05:52	1°♍05'07	1°52'17
min. Earth dist.	-1909 Mar 09 j 11:27	0°♍55'39	4.40475 AU
	-1909 Mar 16 j 19:00	30°℞♌	
direct	-1909 May 09 j 23:39	26°♌03'39	
	-1909 Jul 02 j 07:37	0°♍	
evening set	-1909 Sep 13 j 13:00	13°♍51'09	

Attention, astronomical year style is used: The year -1909 in astronomical counting style is the year 1910 BCE in historical counting style.

max. Earth dist.	-1909 Sep 24 j 08:04	16°♍14'21	6.37345 AU
conjunction	-1909 Sep 26 j 04:30	16°♍39'00	1°14'24
minimum elong	-1909 Sep 26 j 04:31	16°♍39'01	1°14'25
morning rise	-1909 Oct 08 j 17:39	19°♍25'55	
	-1909 Nov 29 j 17:24	0°♎	
retrograde	-1908 Feb 07 j 12:33	6°♎46'16	
opposition	-1908 Apr 08 j 11:30	1°♎54'34	1°36'55
min. Earth dist.	-1908 Apr 09 j 20:13	1°♎44'10	4.33070 AU
	-1908 Apr 23 j 21:27	30°℞♍	
direct	-1908 Jun 09 j 19:37	26°♍55'34	
	-1908 Jul 26 j 01:37	0°♎	
evening set	-1908 Oct 13 j 13:35	14°♎59'19	
max. Earth dist.	-1908 Oct 24 j 08:27	17°♎25'59	6.27590 AU
conjunction	-1908 Oct 26 j 03:16	17°♎50'20	0°52'52
minimum elong	-1908 Oct 26 j 03:18	17°♎50'21	0°52'51
morning rise	-1908 Nov 07 j 16:20	20°♎41'13	
	-1908 Dec 21 j 10:17	0°♏	
retrograde	-1907 Mar 12 j 07:35	8°♏49'04	
opposition	-1907 May 12 j 07:57	3°♏55'49	0°51'53
min. Earth dist.	-1907 May 13 j 10:32	3°♏47'19	4.21492 AU
	-1907 Jun 17 j 01:01	30°℞♎	
direct	-1907 Jul 12 j 16:21	28°♎59'33	
	-1907 Aug 07 j 04:27	0°♏	
	-1907 Nov 03 j 18:06	15°♏	
evening set	-1907 Nov 14 j 15:00	17°♏29'44	
max. Earth dist.	-1907 Nov 26 j 04:35	20°♏11'21	6.15239 AU
conjunction	-1907 Nov 27 j 07:12	20°♏26'53	0°14'17
minimum elong	-1907 Nov 27 j 07:12	20°♏26'53	0°14'15
behind sun begin	-1907 Nov 27 j 03:12	20°♏24'34	
behind sun end	-1907 Nov 27 j 11:13	20°♏29'13	
morning rise	-1907 Dec 10 j 00:09	23°♏24'43	
	-1906 Jan 08 j 06:53	0°♐	
desc. node	-1906 Apr 02 j 11:32	12°♐13'29	
retrograde	-1906 Apr 17 j 01:55	12°♐33'31	
opposition	-1906 Jun 16 j 22:44	7°♐37'18	-0°12'52
min. Earth dist.	-1906 Jun 17 j 09:04	7°♐33'57	4.09243 AU
direct	-1906 Aug 15 j 21:00	2°♐43'22	
evening set	-1906 Dec 18 j 10:47	21°♐43'53	
conjunction	-1906 Dec 31 j 08:04	24°♐48'02	-0°30'41
minimum elong	-1906 Dec 31 j 08:02	24°♐48'00	0°30'42
max. Earth dist.	-1906 Dec 31 j 06:14	24°♐46'56	6.04217 AU
morning rise	-1905 Jan 13 j 07:53	27°♐53'39	
	-1905 Jan 22 j 06:36	0°♑	
retrograde	-1905 May 24 j 10:44	17°♑58'21	
opposition	-1905 Jul 23 j 21:26	12°♑58'13	-1°16'15
min. Earth dist.	-1905 Jul 23 j 11:29	13°♑01'30	4.00533 AU
direct	-1905 Sep 20 j 13:18	8°♑04'58	
evening set	-1904 Jan 23 j 05:13	27°♑28'47	
	-1904 Feb 02 j 17:33	0°♒	
conjunction	-1904 Feb 05 j 09:44	0°♒38'34	-1°05'36
minimum elong	-1904 Feb 05 j 09:42	0°♒38'32	1°05'38
max. Earth dist.	-1904 Feb 06 j 14:06	0°♒55'36	5.98584 AU
morning rise	-1904 Feb 18 j 17:21	3°♒50'03	
	-1904 Apr 08 j 21:19	15°♒	
retrograde	-1904 Jun 30 j 04:01	24°♒20'04	
min. Earth dist.	-1904 Aug 28 j 00:14	19°♒25'04	3.98766 AU
opposition	-1904 Aug 29 j 01:53	19°♒16'24	-1°51'44
	-1904 Oct 06 j 18:13	15°℞♒	
direct	-1904 Oct 26 j 00:34	14°♒21'45	
	-1904 Nov 14 j 07:21	15°♒	
	-1903 Feb 11 j 21:05	0°♓	
evening set	-1903 Feb 28 j 08:11	3°♓50'24	
conjunction	-1903 Mar 13 j 20:15	7°♓02'34	-1°15'38
minimum elong	-1903 Mar 13 j 20:16	7°♓02'34	1°15'39
max. Earth dist.	-1903 Mar 15 j 19:06	7°♓30'23	6.00704 AU
morning rise	-1903 Mar 27 j 11:25	10°♓16'10	
	-1903 Jul 20 j 14:04	0°♈	
retrograde	-1903 Aug 05 j 15:00	0°♈25'30	
	-1903 Aug 21 j 14:30	30°℞♓	
min. Earth dist.	-1903 Oct 02 j 21:12	25°♓31'17	4.04623 AU
opposition	-1903 Oct 04 j 05:26	25°♓20'17	-1°43'42
direct	-1903 Dec 01 j 08:05	20°♓22'38	
	-1902 Feb 21 j 17:56	0°♈	
evening set	-1902 Apr 06 j 13:10	9°♈34'39	
conjunction	-1902 Apr 20 j 06:57	12°♈45'16	-0°56'59
minimum elong	-1902 Apr 20 j 07:01	12°♈45'18	0°56'58
max. Earth dist.	-1902 Apr 22 j 06:59	13°♈13'04	6.09728 AU
morning rise	-1902 May 04 j 02:06	15°♈56'21	
	-1902 Jul 12 j 04:23	0°♉	
retrograde	-1902 Sep 09 j 04:16	5°♉10'01	
opposition	-1902 Nov 07 j 14:26	0°♉06'03	-0°58'21
min. Earth dist.	-1902 Nov 06 j 12:46	0°♉14'48	4.15759 AU
	-1902 Nov 08 j 08:13	30°℞♈	
direct	-1901 Jan 05 j 17:08	25°♈05'21	
	-1901 Mar 04 j 05:52	0°♉	
evening set	-1901 May 12 j 15:13	13°♉47'38	
	-1901 May 18 j 00:21	15°♉	
conjunction	-1901 May 26 j 09:33	16°♉53'07	-0°18'55
minimum elong	-1901 May 26 j 09:34	16°♉53'08	0°18'53
max. Earth dist.	-1901 May 27 j 17:40	17°♉11'11	6.22102 AU
morning rise	-1901 Jun 09 j 03:06	19°♉57'59	
	-1901 Jul 27 j 05:31	0°♊	
retrograde	-1901 Oct 11 j 14:04	8°♊07'50	
asc. node	-1901 Nov 16 j 14:22	6°♊04'20	
opposition	-1901 Dec 10 j 04:13	3°♊07'12	0°03'45
min. Earth dist.	-1901 Dec 09 j 15:09	3°♊11'36	4.28138 AU
	-1900 Jan 04 j 08:50	30°℞♉	
direct	-1900 Feb 08 j 13:26	28°♉04'26	
	-1900 Mar 15 j 06:33	0°♊	
evening set	-1900 Jun 15 j 00:07	16°♊16'57	
conjunction	-1900 Jun 28 j 13:04	19°♊15'22	0°23'48
minimum elong	-1900 Jun 28 j 13:02	19°♊15'21	0°23'50
max. Earth dist.	-1900 Jun 28 j 18:37	19°♊18'25	6.33568 AU
morning rise	-1900 Jul 11 j 23:40	22°♊12'28	
	-1900 Aug 18 j 08:28	0°♋	
retrograde	-1900 Nov 10 j 15:56	9°♋32'35	
opposition	-1899 Jan 09 j 12:14	4°♋35'55	1°01'39
min. Earth dist.	-1899 Jan 09 j 16:59	4°♋34'22	4.37835 AU
	-1899 Feb 22 j 22:12	30°℞♊	
direct	-1899 Mar 12 j 04:35	29°♊32'28	
	-1899 Mar 29 j 13:50	0°♋	
evening set	-1899 Jul 17 j 15:38	17°♋23'54	
conjunction	-1899 Jul 30 j 20:05	20°♋15'53	0°58'11
minimum elong	-1899 Jul 30 j 20:02	20°♋15'52	0°58'13
max. Earth dist.	-1899 Jul 30 j 00:47	20°♋05'22	6.40719 AU
morning rise	-1899 Aug 12 j 21:19	23°♋06'15	
	-1899 Sep 15 j 00:14	0°♌	
retrograde	-1899 Dec 11 j 02:47	10°♌01'20	