Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

conjunction	-12399 Oct 02 j 16:45	16°♋46'52	0°06'31
minimum elong	-12399 Oct 02 j 17:23	16°♋48'06	0°07'14
behind sun begin	-12399 Oct 01 j 17:18	16°♋02'01	
behind sun end	-12399 Oct 03 j 17:29	17°♋34'08	
desc. node	-12399 Oct 11 j 06:10	23°♋18'13	
	-12399 Oct 20 j 02:43	0°♌	
max. Earth dist.	-12399 Nov 15 j 21:50	19°♌53'45	2.43704 AU
	-12399 Nov 29 j 20:02	0°♍	
morning rise	-12399 Dec 03 j 17:33	2°♍47'49	
	-12398 Jan 11 j 15:32	0°♎	
	-12398 Feb 25 j 21:30	0°♏	
	-12398 Apr 15 j 02:06	0°♐	
	-12398 Jun 07 j 11:17	0°♑	
retrograde	-12398 Aug 26 j 09:45	26°♑03'46	
opposition	-12398 Oct 03 j 10:58	17°♑17'42	-0°28'08
greatest brilliancy	-12398 Oct 03 j 13:12	17°♑15'32	-1.6m
min. Earth dist.	-12398 Oct 08 j 01:30	15°♑29'44	0.62319 AU
asc. node	-12398 Oct 14 j 05:31	13°♑10'22	
direct	-12398 Nov 13 j 04:36	7°♑21'42	
	-12397 Jan 22 j 17:06	0°♒	
	-12397 Mar 13 j 19:08	0°♓	
	-12397 Apr 26 j 01:43	0°♈	
	-12397 Jun 05 j 08:09	0°♉	
	-12397 Jul 14 j 06:11	0°♊	
	-12397 Aug 22 j 00:15	0°♋	
desc. node	-12397 Aug 29 j 05:58	5°♋33'21	
	-12397 Sep 30 j 12:57	0°♌	
evening set	-12397 Oct 03 j 22:27	2°♌31'56	
	-12397 Nov 10 j 13:24	0°♍	
conjunction	-12397 Nov 30 j 03:32	13°♍51'37	-0°58'36
minimum elong	-12397 Nov 30 j 01:09	13°♍47'25	0°58'22
	-12397 Dec 23 j 12:03	0°♎	
max. Earth dist.	-12397 Dec 31 j 23:37	5°♎45'51	2.55534 AU
morning rise	-12396 Jan 23 j 12:15	20°♎49'58	
	-12396 Feb 06 j 10:47	0°♏	
	-12396 Mar 24 j 06:00	0°♐	
	-12396 May 11 j 21:07	0°♑	
	-12396 Jul 02 j 13:09	0°♒	
asc. node	-12396 Aug 31 j 05:22	28°♒21'25	
	-12396 Sep 04 j 23:48	0°♓	
retrograde	-12396 Oct 09 j 16:57	6°♓21'12	
	-12396 Nov 10 j 22:06	30°℞♒	
opposition	-12396 Nov 13 j 23:47	28°♒54'21	3°33'29
greatest brilliancy	-12396 Nov 14 j 20:47	28°♒35'22	-2.0m
min. Earth dist.	-12396 Nov 21 j 13:23	26°♒10'21	0.52723 AU
direct	-12396 Dec 23 j 00:09	19°♒50'00	
	-12395 Feb 03 j 06:21	0°♓	
	-12395 Mar 29 j 01:16	0°♈	
	-12395 May 11 j 08:40	0°♉	
	-12395 Jun 20 j 20:54	0°♊	
desc. node	-12395 Jul 16 j 09:34	19°♊12'15	
	-12395 Jul 30 j 18:32	0°♋	
	-12395 Sep 09 j 06:06	0°♌	
	-12395 Oct 21 j 01:27	0°♍	
evening set	-12395 Nov 24 j 12:00	23°♍50'34	
	-12395 Dec 03 j 13:51	0°♎	
conjunction	-12394 Jan 14 j 23:27	28°♎10'33	-1°15'22
minimum elong	-12394 Jan 14 j 23:43	28°♎10'59	1°15'42
	-12394 Jan 17 j 18:25	0°♏	
max. Earth dist.	-12394 Jan 29 j 13:36	7°♏40'48	2.63517 AU
morning rise	-12394 Mar 05 j 07:22	0°♐02'34	
	-12394 Mar 05 j 05:46	0°♐	
	-12394 Apr 21 j 10:27	0°♑	
	-12394 Jun 08 j 00:34	0°♒	
asc. node	-12394 Jul 18 j 23:08	25°♒27'26	
	-12394 Jul 26 j 09:14	0°♓	
	-12394 Sep 15 j 14:48	0°♈	
	-12394 Nov 27 j 09:03	0°♉	
retrograde	-12394 Dec 12 j 07:12	1°♉19'24	
	-12394 Dec 26 j 21:02	30°℞♈	
opposition	-12393 Jan 12 j 17:20	25°♈48'33	7°08'34
greatest brilliancy	-12393 Jan 14 j 04:10	25°♈23'12	-2.6m
min. Earth dist.	-12393 Jan 18 j 16:28	24°♈04'47	0.41215 AU
direct	-12393 Feb 15 j 05:13	19°♈29'42	
	-12393 Mar 29 j 11:47	0°♉	
	-12393 May 21 j 13:19	0°♊	
desc. node	-12393 Jun 03 j 15:25	8°♊34'17	
	-12393 Jul 05 j 05:21	0°♋	
	-12393 Aug 17 j 13:40	0°♌	
	-12393 Sep 30 j 07:29	0°♍	
	-12393 Nov 14 j 03:09	0°♎	
	-12393 Dec 30 j 02:21	0°♏	
evening set	-12392 Jan 07 j 00:13	5°♏06'07	
	-12392 Feb 14 j 19:34	0°♐	
conjunction	-12392 Feb 24 j 15:02	6°♐16'49	-0°54'44
minimum elong	-12392 Feb 24 j 16:36	6°♐19'20	0°55'24
max. Earth dist.	-12392 Feb 23 j 12:39	5°♐34'36	2.66350 AU
	-12392 Apr 01 j 14:17	0°♑	
morning rise	-12392 Apr 11 j 19:59	6°♑36'16	
	-12392 May 17 j 19:04	0°♒	
asc. node	-12392 Jun 04 j 14:14	11°♒42'44	
	-12392 Jul 02 j 02:19	0°♓	
	-12392 Aug 15 j 14:05	0°♈	
	-12392 Sep 28 j 18:46	0°♉	
	-12392 Nov 12 j 21:52	0°♊	
	-12391 Jan 02 j 15:27	0°♋	
retrograde	-12391 Feb 25 j 20:04	16°♋08'25	
min. Earth dist.	-12391 Mar 25 j 12:15	11°♋27'11	0.40294 AU
opposition	-12391 Mar 30 j 22:57	9°♋51'17	1°34'20
greatest brilliancy	-12391 Mar 30 j 17:01	9°♋55'39	-2.8m
desc. node	-12391 Apr 20 j 21:02	5°♋01'47	
direct	-12391 Apr 30 j 19:39	4°♋23'20	
	-12391 Jul 15 j 01:27	0°♌	
	-12391 Sep 04 j 13:52	0°♍	
	-12391 Oct 22 j 22:09	0°♎	
	-12391 Dec 09 j 17:03	0°♏	
	-12390 Jan 26 j 06:53	0°♐	
evening set	-12390 Feb 14 j 17:54	12°♐21'52	
	-12390 Mar 14 j 05:27	0°♑	
max. Earth dist.	-12390 Mar 19 j 16:31	3°♑32'07	2.63861 AU
conjunction	-12390 Apr 03 j 22:36	13°♑28'31	-0°11'18
minimum elong	-12390 Apr 03 j 23:06	13°♑29'20	0°12'02
behind sun begin	-12390 Apr 03 j 09:52	13°♑07'41	
behind sun end	-12390 Apr 04 j 12:20	13°♑50'59	
asc. node	-12390 Apr 22 j 06:45	25°♑33'56	
	-12390 Apr 28 j 22:37	0°♒	
morning rise	-12390 May 21 j 13:26	15°♒14'08	
	-12390 Jun 12 j 01:37	0°♓	
	-12390 Jul 24 j 13:58	0°♈	
	-12390 Sep 03 j 19:21	0°♉	
	-12390 Oct 14 j 07:19	0°♊	
	-12390 Nov 23 j 23:53	0°♋	
	-12389 Jan 05 j 12:33	0°♌	
	-12389 Feb 23 j 13:17	0°♍	
desc. node	-12389 Mar 08 j 21:07	6°♍32'26	
retrograde	-12389 Apr 22 j 08:16	17°♍58'52	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

min. Earth dist.	-12389 May 22 j 20:46	11°♍43'36	0.51653 AU
greatest brilliancy	-12389 May 29 j 07:02	9°♍21'34	-2.1m
opposition	-12389 May 30 j 11:45	8°♍55'00	-4°21'07
direct	-12389 Jul 04 j 03:02	1°♍26'32	
	-12389 Sep 25 j 17:04	0°♎	
	-12389 Nov 18 j 02:29	0°♏	
	-12388 Jan 06 j 20:32	0°♐	
	-12388 Feb 23 j 14:54	0°♑	
asc. node	-12388 Mar 09 j 04:55	9°♑24'40	
evening set	-12388 Mar 26 j 05:53	20°♑34'20	
	-12388 Apr 09 j 09:48	0°♒	
max. Earth dist.	-12388 Apr 16 j 06:07	4°♒36'25	2.56314 AU
conjunction	-12388 May 15 j 10:29	24°♒38'25	0°40'39
minimum elong	-12388 May 15 j 08:46	24°♒35'25	0°40'10
	-12388 May 23 j 02:05	0°♓	
	-12388 Jul 03 j 18:18	0°♈	
morning rise	-12388 Jul 05 j 18:47	1°♈29'13	
	-12388 Aug 12 j 20:43	0°♉	
	-12388 Sep 21 j 00:51	0°♊	
	-12388 Oct 30 j 02:28	0°♋	
	-12388 Dec 09 j 01:23	0°♌	
	-12387 Jan 20 j 04:54	0°♍	
desc. node	-12387 Jan 23 j 16:16	2°♍21'58	
	-12387 Mar 08 j 01:37	0°♎	
	-12387 May 15 j 12:41	0°♏	
retrograde	-12387 Jun 01 j 14:10	1°♏49'27	
	-12387 Jun 17 j 17:48	30°℞♎	
min. Earth dist.	-12387 Jul 07 j 01:16	23°♎39'17	0.61792 AU
opposition	-12387 Jul 11 j 09:21	21°♎55'37	-5°20'40
greatest brilliancy	-12387 Jul 10 j 14:57	22°♎13'58	-1.5m
direct	-12387 Aug 18 j 03:47	13°♎04'04	
	-12387 Oct 18 j 11:08	0°♏	
	-12387 Dec 14 j 20:54	0°♐	
asc. node	-12386 Jan 25 j 07:54	24°♐40'02	
	-12386 Feb 02 j 22:27	0°♑	
	-12386 Mar 21 j 10:56	0°♒	
	-12386 May 04 j 04:08	0°♓	
evening set	-12386 May 11 j 10:50	5°♓10'10	
max. Earth dist.	-12386 May 28 j 22:40	17°♓47'11	2.44920 AU
	-12386 Jun 14 j 12:45	0°♈	
conjunction	-12386 Jul 05 j 20:12	16°♈00'31	1°13'16
minimum elong	-12386 Jul 05 j 19:40	15°♈59'30	1°13'28
	-12386 Jul 24 j 03:27	0°♉	
	-12386 Aug 31 j 18:30	0°♊	
morning rise	-12386 Sep 03 j 14:56	2°♊13'39	
	-12386 Oct 09 j 06:38	0°♋	
	-12386 Nov 17 j 13:23	0°♌	
desc. node	-12386 Dec 11 j 09:41	17°♌39'44	
	-12386 Dec 28 j 12:06	0°♍	
	-12385 Feb 10 j 02:41	0°♎	
	-12385 Mar 30 j 02:15	0°♏	
	-12385 May 29 j 18:53	0°♐	
retrograde	-12385 Jul 07 j 11:19	7°♐56'57	
	-12385 Aug 11 j 19:10	30°℞♏	
opposition	-12385 Aug 16 j 06:50	28°♏12'12	-4°09'42
greatest brilliancy	-12385 Aug 16 j 05:34	28°♏13'29	-1.4m
min. Earth dist.	-12385 Aug 15 j 17:47	28°♏25'21	0.66295 AU
direct	-12385 Sep 25 j 02:41	18°♏33'34	
	-12385 Nov 12 j 17:34	0°♐	
asc. node	-12385 Dec 13 j 14:08	14°♐19'25	
	-12384 Jan 11 j 06:34	0°♑	
	-12384 Feb 29 j 03:53	0°♒	
	-12384 Apr 13 j 14:29	0°♓	
	-12384 May 25 j 02:05	0°♈	
	-12384 Jul 03 j 14:17	0°♉	
evening set	-12384 Jul 06 j 20:30	2°♉31'15	
	-12384 Aug 11 j 01:24	0°♊	
conjunction	-12384 Sep 06 j 19:06	20°♊56'44	0°37'32
minimum elong	-12384 Sep 06 j 22:10	21°♊02'42	0°38'15
	-12384 Sep 18 j 09:57	0°♋	
max. Earth dist.	-12384 Oct 08 j 06:52	15°♋20'42	2.39471 AU
	-12384 Oct 27 j 13:20	0°♌	
desc. node	-12384 Oct 28 j 02:08	0°♌24'06	
morning rise	-12384 Nov 09 j 22:19	10°♌00'45	
	-12384 Dec 07 j 05:58	0°♍	
	-12383 Jan 19 j 02:43	0°♎	
	-12383 Mar 05 j 16:31	0°♏	
	-12383 Apr 24 j 01:07	0°♐	
	-12383 Jun 21 j 20:12	0°♑	
retrograde	-12383 Aug 11 j 09:11	12°♑19'59	
opposition	-12383 Sep 19 j 03:07	3°♑12'27	-1°43'17
greatest brilliancy	-12383 Sep 19 j 08:24	3°♑07'13	-1.5m
min. Earth dist.	-12383 Sep 22 j 07:50	1°♑56'25	0.64623 AU
	-12383 Sep 27 j 07:43	30°℞♐	
direct	-12383 Oct 29 j 21:19	23°♐14'21	
asc. node	-12383 Oct 30 j 20:01	23°♐14'42	
	-12383 Dec 04 j 08:31	0°♑	
	-12382 Feb 03 j 23:08	0°♒	
	-12382 Mar 23 j 02:58	0°♓	
	-12382 May 04 j 12:54	0°♈	
	-12382 Jun 13 j 10:16	0°♉	
	-12382 Jul 22 j 02:35	0°♊	
	-12382 Aug 29 j 15:43	0°♋	
evening set	-12382 Sep 10 j 03:44	8°♋51'38	
desc. node	-12382 Sep 14 j 22:43	12°♋31'59	
	-12382 Oct 07 j 23:47	0°♌	
conjunction	-12382 Nov 08 j 23:51	23°♌37'01	-0°38'39
minimum elong	-12382 Nov 08 j 21:24	23°♌32'34	0°38'10
	-12382 Nov 17 j 20:07	0°♍	
max. Earth dist.	-12382 Dec 17 j 10:14	20°♍53'01	2.51202 AU
	-12382 Dec 30 j 15:58	0°♎	
morning rise	-12381 Jan 05 j 04:40	3°♎46'01	
	-12381 Feb 13 j 15:16	0°♏	
	-12381 Apr 01 j 18:34	0°♐	
	-12381 May 21 j 12:49	0°♑	
	-12381 Jul 16 j 06:47	0°♒	
asc. node	-12381 Sep 17 j 22:06	19°♒40'52	
retrograde	-12381 Sep 21 j 14:17	19°♒45'50	
opposition	-12381 Oct 28 j 03:05	11°♒42'58	1°52'01
greatest brilliancy	-12381 Oct 28 j 12:41	11°♒33'56	-1.8m
min. Earth dist.	-12381 Nov 03 j 17:17	9°♒14'02	0.57043 AU
direct	-12381 Dec 07 j 03:56	2°♒07'36	
	-12380 Feb 23 j 00:35	0°♓	
	-12380 Apr 09 j 15:56	0°♈	
	-12380 May 21 j 04:41	0°♉	
	-12380 Jun 29 j 19:58	0°♊	
desc. node	-12380 Aug 02 j 01:15	25°♊23'04	
	-12380 Aug 08 j 02:51	0°♋	
	-12380 Sep 17 j 02:30	0°♌	
	-12380 Oct 28 j 12:08	0°♍	
evening set	-12380 Nov 05 j 10:24	5°♍36'14	
	-12380 Dec 10 j 17:16	0°♎	
conjunction	-12380 Dec 28 j 19:25	12°♎11'23	-1°14'13
minimum elong	-12380 Dec 28 j 18:36	12°♎10'02	1°14'21
max. Earth dist.	-12379 Jan 18 j 22:54	26°♎11'58	2.60990 AU
	-12379 Jan 24 j 17:58	0°♏	
morning rise	-12379 Feb 17 j 17:06	15°♏33'22	
	-12379 Mar 12 j 06:20	0°♐	
	-12379 Apr 28 j 20:08	0°♑	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12379 Jun 16 j 11:14	0°♒	
asc. node	-12379 Aug 04 j 18:30	29°♒01'12	
	-12379 Aug 06 j 12:24	0°♓	
	-12379 Oct 07 j 21:30	0°♈	
retrograde	-12379 Nov 14 j 12:12	7°♈28'18	
opposition	-12379 Dec 17 j 12:51	1°♈11'01	6°11'29
greatest brilliancy	-12379 Dec 19 j 01:54	0°♈40'58	-2.4m
	-12379 Dec 21 j 04:23	30°℞♓	
min. Earth dist.	-12379 Dec 25 j 06:33	28°♓41'36	0.45383 AU
direct	-12378 Jan 22 j 15:02	23°♓35'15	
	-12378 Feb 23 j 20:02	0°♈	
	-12378 Apr 21 j 02:57	0°♉	
	-12378 Jun 04 j 03:11	0°♊	
desc. node	-12378 Jun 20 j 06:45	11°♊31'30	
	-12378 Jul 15 j 22:01	0°♋	
	-12378 Aug 26 j 16:24	0°♌	
	-12378 Oct 08 j 10:02	0°♍	
	-12378 Nov 21 j 13:50	0°♎	
evening set	-12378 Dec 21 j 19:47	20°♎00'11	
	-12377 Jan 06 j 03:31	0°♏	
conjunction	-12377 Feb 09 j 05:25	21°♏59'59	-1°06'09
minimum elong	-12377 Feb 09 j 06:47	22°♏02'10	1°06'44
max. Earth dist.	-12377 Feb 14 j 03:31	25°♏09'26	2.65882 AU
	-12377 Feb 21 j 16:51	0°♐	
morning rise	-12377 Mar 28 j 22:44	22°♐33'19	
	-12377 Apr 09 j 13:41	0°♑	
	-12377 May 26 j 04:13	0°♒	
asc. node	-12377 Jun 22 j 10:21	17°♒41'19	
	-12377 Jul 11 j 07:44	0°♓	
	-12377 Aug 26 j 08:28	0°♈	
	-12377 Oct 12 j 10:56	0°♉	
	-12377 Dec 04 j 02:43	0°♊	
retrograde	-12376 Jan 29 j 11:39	16°♊27'35	
opposition	-12376 Feb 29 j 15:21	11°♊09'29	4°59'03
min. Earth dist.	-12376 Feb 28 j 12:35	11°♊27'29	0.38497 AU
greatest brilliancy	-12376 Feb 29 j 15:45	11°♊09'13	-2.9m
direct	-12376 Mar 31 j 00:38	6°♊02'44	
desc. node	-12376 May 07 j 11:49	14°♊04'01	
	-12376 Jun 09 j 19:42	0°♋	
	-12376 Jul 30 j 00:17	0°♌	
	-12376 Sep 14 j 19:10	0°♍	
	-12376 Oct 31 j 06:14	0°♎	
	-12376 Dec 17 j 03:14	0°♏	
evening set	-12375 Jan 30 j 11:49	28°♏13'25	
	-12375 Feb 02 j 06:46	0°♐	
max. Earth dist.	-12375 Mar 09 j 18:34	22°♐41'57	2.65477 AU
conjunction	-12375 Mar 19 j 13:49	29°♐00'54	-0°30'01
minimum elong	-12375 Mar 19 j 14:58	29°♐02'46	0°30'45
	-12375 Mar 21 j 02:25	0°♑	
morning rise	-12375 May 05 j 16:34	29°♑49'38	
	-12375 May 05 j 22:49	0°♒	
asc. node	-12375 May 09 j 01:23	2°♒03'52	
	-12375 Jun 19 j 10:36	0°♓	
	-12375 Aug 01 j 13:11	0°♈	
	-12375 Sep 12 j 13:54	0°♉	
	-12375 Oct 24 j 03:08	0°♊	
	-12375 Dec 05 j 08:51	0°♋	
	-12374 Jan 20 j 07:39	0°♌	
desc. node	-12374 Mar 25 j 15:53	26°♌21'18	
retrograde	-12374 Apr 03 j 02:51	26°♌51'19	
min. Earth dist.	-12374 May 01 j 18:04	21°♌24'48	0.46754 AU
opposition	-12374 May 09 j 19:01	18°♌38'43	-2°49'49
greatest brilliancy	-12374 May 08 j 21:38	18°♌57'12	-2.3m
direct	-12374 Jun 11 j 20:11	11°♌56'19	
	-12374 Aug 12 j 18:52	0°♍	
	-12374 Oct 07 j 08:44	0°♎	
	-12374 Nov 26 j 15:35	0°♏	
	-12373 Jan 14 j 07:20	0°♐	
	-12373 Mar 02 j 15:44	0°♑	
evening set	-12373 Mar 11 j 04:03	5°♑29'54	
asc. node	-12373 Mar 26 j 20:28	15°♑43'51	
max. Earth dist.	-12373 Apr 05 j 12:15	22°♑05'57	2.59833 AU
	-12373 Apr 17 j 08:52	0°♒	
conjunction	-12373 Apr 29 j 05:56	8°♒00'10	0°20'45
minimum elong	-12373 Apr 29 j 05:02	7°♒58'39	0°20'08
	-12373 May 31 j 04:18	0°♓	
morning rise	-12373 Jun 17 j 14:38	12°♓18'58	
	-12373 Jul 12 j 03:02	0°♈	
	-12373 Aug 21 j 13:55	0°♉	
	-12373 Sep 30 j 03:38	0°♊	
	-12373 Nov 08 j 15:38	0°♋	
	-12373 Dec 19 j 04:30	0°♌	
	-12372 Jan 31 j 12:28	0°♍	
desc. node	-12372 Feb 10 j 13:27	6°♍28'28	
	-12372 Mar 22 j 16:22	0°♎	
retrograde	-12372 May 17 j 14:12	16°♎17'51	
min. Earth dist.	-12372 Jun 20 j 05:09	8°♎48'48	0.58377 AU
opposition	-12372 Jun 25 j 23:35	6°♎33'23	-5°19'14
greatest brilliancy	-12372 Jun 24 j 22:38	6°♎57'51	-1.7m
	-12372 Jul 16 j 01:35	30°℞♍	
direct	-12372 Aug 01 j 15:25	28°♍09'15	
	-12372 Aug 19 j 06:51	0°♎	
	-12372 Oct 31 j 15:14	0°♏	
	-12372 Dec 23 j 15:03	0°♐	
asc. node	-12371 Feb 10 j 21:46	0°♑14'41	
	-12371 Feb 10 j 12:28	0°♑	
	-12371 Mar 28 j 16:06	0°♒	
evening set	-12371 Apr 22 j 11:10	16°♒50'03	
max. Earth dist.	-12371 May 09 j 02:49	28°♒26'17	2.49632 AU
	-12371 May 11 j 08:00	0°♓	
conjunction	-12371 Jun 14 j 09:22	24°♓32'40	1°05'53
minimum elong	-12371 Jun 14 j 07:29	24°♓29'13	1°05'46
	-12371 Jun 21 j 18:47	0°♈	
	-12371 Jul 31 j 13:02	0°♉	
morning rise	-12371 Aug 09 j 09:41	6°♉48'29	
	-12371 Sep 08 j 08:03	0°♊	
	-12371 Oct 16 j 23:56	0°♋	
	-12371 Nov 25 j 10:42	0°♌	
desc. node	-12371 Dec 28 j 05:36	24°♌00'03	
	-12370 Jan 05 j 16:09	0°♍	
	-12370 Feb 18 j 23:27	0°♎	
	-12370 Apr 10 j 10:25	0°♏	
retrograde	-12370 Jun 23 j 19:36	24°♏33'02	
min. Earth dist.	-12370 Jul 31 j 17:15	15°♏29'48	0.65253 AU
opposition	-12370 Aug 02 j 17:59	14°♏40'41	-4°47'34
greatest brilliancy	-12370 Aug 02 j 10:37	14°♏48'06	-1.4m
direct	-12370 Sep 10 j 21:12	5°♏17'18	
	-12370 Nov 27 j 13:38	0°♐	
asc. node	-12370 Dec 30 j 03:14	17°♐33'13	
	-12369 Jan 20 j 09:30	0°♑	
	-12369 Mar 09 j 01:22	0°♒	
	-12369 Apr 22 j 03:06	0°♓	
	-12369 Jun 02 j 12:40	0°♈	
evening set	-12369 Jun 13 j 23:04	8°♈33'40	
	-12369 Jul 12 j 01:03	0°♉	
max. Earth dist.	-12369 Jul 26 j 06:52	11°♉02'38	2.38780 AU
conjunction	-12369 Aug 12 j 18:47	24°♉42'38	1°01'26
minimum elong	-12369 Aug 12 j 21:46	24°♉48'28	1°02'00
	-12369 Aug 19 j 12:50	0°♊	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12369 Sep 26 j 21:39	0°♋	
morning rise	-12369 Oct 15 j 22:37	14°♋42'30	
	-12369 Nov 05 j 00:53	0°♌	
desc. node	-12369 Nov 14 j 21:58	7°♌24'27	
	-12369 Dec 15 j 18:00	0°♍	
	-12368 Jan 27 j 18:10	0°♎	
	-12368 Mar 13 j 21:21	0°♏	
	-12368 May 04 j 06:29	0°♐	
retrograde	-12368 Jul 28 j 03:35	29°♐03'41	
opposition	-12368 Sep 05 j 10:18	19°♐38'46	-2°48'01
greatest brilliancy	-12368 Sep 05 j 15:01	19°♐34'03	-1.4m
min. Earth dist.	-12368 Sep 07 j 04:17	18°♐56'45	0.66007 AU
direct	-12368 Oct 15 j 23:12	9°♐44'42	
asc. node	-12368 Nov 16 j 09:51	15°♐05'52	
	-12368 Dec 22 j 15:12	0°♑	
	-12367 Feb 13 j 22:30	0°♒	
	-12367 Mar 31 j 14:53	0°♓	
	-12367 May 12 j 13:07	0°♈	
	-12367 Jun 21 j 05:25	0°♉	
	-12367 Jul 29 j 18:40	0°♊	
evening set	-12367 Aug 15 j 19:50	13°♊20'35	
	-12367 Sep 06 j 04:53	0°♋	
desc. node	-12367 Oct 01 j 17:13	19°♋37'44	
	-12367 Oct 15 j 09:49	0°♌	
conjunction	-12367 Oct 16 j 17:30	0°♌59'34	-0°11'16
minimum elong	-12367 Oct 16 j 16:37	0°♌57'54	0°10'36
behind sun begin	-12367 Oct 15 j 20:43	0°♌20'30	
behind sun end	-12367 Oct 17 j 12:31	1°♌35'16	
	-12367 Nov 25 j 03:16	0°♍	
max. Earth dist.	-12367 Nov 29 j 03:43	2°♍53'11	2.46401 AU
morning rise	-12367 Dec 16 j 02:08	14°♍53'38	
	-12366 Jan 06 j 21:29	0°♎	
	-12366 Feb 20 j 23:23	0°♏	
	-12366 Apr 09 j 15:42	0°♐	
	-12366 May 31 j 06:22	0°♑	
	-12366 Aug 06 j 05:52	0°♒	
retrograde	-12366 Sep 04 j 12:32	4°♒39'05	
	-12366 Oct 01 j 10:00	30°℞♑	
asc. node	-12366 Oct 04 j 14:31	28°♑54'25	
opposition	-12366 Oct 12 j 01:53	26°♑06'49	0°20'00
greatest brilliancy	-12366 Oct 12 j 03:18	26°♑05'27	-1.6m
min. Earth dist.	-12366 Oct 17 j 10:16	24°♑02'37	0.60664 AU
direct	-12366 Nov 21 j 15:39	16°♑15'01	
	-12365 Jan 12 j 15:15	0°♒	
	-12365 Mar 07 j 07:30	0°♓	
	-12365 Apr 20 j 10:42	0°♈	
	-12365 May 31 j 01:33	0°♉	
	-12365 Jul 09 j 04:30	0°♊	
	-12365 Aug 17 j 02:01	0°♋	
desc. node	-12365 Aug 19 j 16:34	1°♋59'50	
	-12365 Sep 25 j 17:32	0°♌	
evening set	-12365 Oct 16 j 15:48	15°♌25'46	
	-12365 Nov 05 j 20:18	0°♍	
conjunction	-12365 Dec 11 j 09:24	24°♍54'03	-1°06'26
minimum elong	-12365 Dec 11 j 07:29	24°♍50'45	1°06'21
	-12365 Dec 18 j 20:08	0°♎	
max. Earth dist.	-12364 Jan 08 j 06:32	13°♎47'46	2.57693 AU
	-12364 Feb 01 j 18:34	0°♏	
morning rise	-12364 Feb 02 j 08:40	0°♏23'04	
	-12364 Mar 19 j 09:57	0°♐	
	-12364 May 06 j 13:31	0°♑	
	-12364 Jun 25 j 19:34	0°♒	
asc. node	-12364 Aug 21 j 12:57	0°♓03'40	
	-12364 Aug 21 j 09:46	0°♓	
retrograde	-12364 Oct 21 j 16:16	17°♓04'43	
opposition	-12364 Nov 25 j 04:52	10°♓00'32	4°33'01
greatest brilliancy	-12364 Nov 26 j 08:43	9°♓36'05	-2.1m
min. Earth dist.	-12364 Dec 03 j 01:50	7°♓15'14	0.50161 AU
direct	-12363 Jan 02 j 08:49	1°♓21'17	
	-12363 Mar 20 j 07:10	0°♈	
	-12363 May 04 j 14:51	0°♉	
	-12363 Jun 14 j 22:29	0°♊	
desc. node	-12363 Jul 06 j 22:00	16°♊19'31	
	-12363 Jul 25 j 07:28	0°♋	
	-12363 Sep 04 j 02:56	0°♌	
	-12363 Oct 16 j 04:08	0°♍	
	-12363 Nov 28 j 20:25	0°♎	
evening set	-12363 Dec 04 j 19:29	4°♎00'22	
	-12362 Jan 13 j 03:16	0°♏	
conjunction	-12362 Jan 24 j 10:10	7°♏20'39	-1°13'23
minimum elong	-12362 Jan 24 j 10:56	7°♏21'54	1°13'49
max. Earth dist.	-12362 Feb 04 j 12:11	14°♏30'53	2.64595 AU
	-12362 Feb 28 j 14:31	0°♐	
morning rise	-12362 Mar 14 j 01:10	8°♐35'40	
	-12362 Apr 16 j 15:31	0°♑	
	-12362 Jun 02 j 19:36	0°♒	
asc. node	-12362 Jul 09 j 05:36	23°♒05'42	
	-12362 Jul 20 j 04:34	0°♓	
	-12362 Sep 06 j 20:26	0°♈	
	-12362 Oct 31 j 06:34	0°♉	
retrograde	-12362 Dec 29 j 09:39	16°♉57'27	
opposition	-12361 Jan 29 j 06:49	11°♉43'37	6°59'03
greatest brilliancy	-12361 Jan 30 j 07:51	11°♉26'13	-2.7m
min. Earth dist.	-12361 Feb 02 j 04:19	10°♉38'45	0.39572 AU
direct	-12361 Mar 02 j 09:24	6°♉02'22	
	-12361 May 10 j 08:04	0°♊	
desc. node	-12361 May 25 j 04:53	8°♊44'30	
	-12361 Jun 27 j 14:23	0°♋	
	-12361 Aug 11 j 09:03	0°♌	
	-12361 Sep 24 j 21:27	0°♍	
	-12361 Nov 09 j 03:38	0°♎	
	-12361 Dec 25 j 08:55	0°♏	
evening set	-12360 Jan 16 j 01:32	13°♏55'14	
	-12360 Feb 10 j 04:56	0°♐	
max. Earth dist.	-12360 Feb 29 j 03:42	12°♐07'19	2.66269 AU
conjunction	-12360 Mar 04 j 09:31	14°♐50'22	-0°46'29
minimum elong	-12360 Mar 04 j 11:02	14°♐52'48	0°47'11
	-12360 Mar 27 j 23:38	0°♑	
morning rise	-12360 Apr 20 j 10:52	15°♑12'15	
	-12360 May 13 j 01:13	0°♒	
asc. node	-12360 May 25 j 20:12	8°♒27'19	
	-12360 Jun 27 j 00:39	0°♓	
	-12360 Aug 09 j 22:36	0°♈	
	-12360 Sep 22 j 03:56	0°♉	
	-12360 Nov 04 j 12:38	0°♊	
	-12360 Dec 20 j 05:47	0°♋	
	-12359 Feb 22 j 02:07	0°♌	
retrograde	-12359 Mar 11 j 22:54	2°♌09'21	
	-12359 Mar 29 j 18:20	30°℞♋	
min. Earth dist.	-12359 Apr 08 j 13:02	27°♋19'18	0.42255 AU
desc. node	-12359 Apr 11 j 08:51	26°♋26'40	
opposition	-12359 Apr 15 j 12:13	25°♋08'27	-0°17'50
greatest brilliancy	-12359 Apr 15 j 10:07	25°♋10'06	-2.7m
direct	-12359 May 16 j 23:31	19°♋15'47	
	-12359 Jul 01 j 00:44	0°♌	
	-12359 Aug 28 j 03:27	0°♍	
	-12359 Oct 17 j 03:48	0°♎	
	-12359 Dec 04 j 15:29	0°♏	
	-12358 Jan 21 j 13:01	0°♐	
evening set	-12358 Feb 23 j 14:06	20°♐59'10	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12358 Mar 09 j 14:38	0°♉	
max. Earth dist.	-12358 Mar 25 j 17:41	10°♉27'50	2.62646 AU
	-12358 Apr 12 j 23:47	22°♉27'33	0°00'15
conjunction	-12358 Apr 12 j 23:49	22°♉27'36	0°00'27
minimum elong	-12358 Apr 12 j 03:51	21°♉54'36	
behind sun begin	-12358 Apr 12 j 19:47	23°♉00'37	
behind sun end	-12358 Apr 12 j 13:58	22°♉11'21	
asc. node	-12358 Apr 24 j 08:00	0°♒	
	-12358 May 31 j 01:27	24°♒56'48	
morning rise	-12358 Jun 07 j 08:26	0°♓	
	-12358 Jul 19 j 15:57	0°♈	
	-12358 Aug 29 j 14:03	0°♉	
	-12358 Oct 08 j 16:44	0°♊	
	-12358 Nov 17 j 20:11	0°♋	
	-12358 Dec 29 j 08:52	0°♌	
	-12357 Feb 13 j 04:24	0°♍	
desc. node	-12357 Feb 27 j 08:12	8°♍06'27	
retrograde	-12357 May 02 j 09:18	29°♍08'57	
min. Earth dist.	-12357 Jun 03 j 00:33	22°♍26'08	0.54212 AU
greatest brilliancy	-12357 Jun 08 j 20:50	20°♍13'24	-1.9m
opposition	-12357 Jun 10 j 01:45	19°♍45'54	-4°52'26
direct	-12357 Jul 15 j 11:29	11°♍55'27	
	-12357 Sep 16 j 09:54	0°♎	
	-12357 Nov 12 j 01:17	0°♏	
	-12356 Jan 01 j 17:19	0°♐	
	-12356 Feb 18 j 20:09	0°♑	
asc. node	-12356 Feb 28 j 12:49	6°♑12'49	
evening set	-12356 Apr 04 j 20:58	0°♒04'38	
	-12356 Apr 04 j 18:12	0°♒	
max. Earth dist.	-12356 Apr 23 j 23:52	13°♒01'28	2.54073 AU
	-12356 May 18 j 10:33	0°♓	
conjunction	-12356 May 25 j 21:27	5°♓16'18	0°51'08
minimum elong	-12356 May 25 j 19:27	5°♓12'44	0°50'47
	-12356 Jun 29 j 01:13	0°♈	
morning rise	-12356 Jul 17 j 15:58	13°♈50'34	
	-12356 Aug 08 j 00:48	0°♉	
	-12356 Sep 16 j 01:34	0°♊	
	-12356 Oct 24 j 23:07	0°♋	
	-12356 Dec 03 j 16:13	0°♌	
desc. node	-12355 Jan 14 j 02:57	29°♌49'54	
	-12355 Jan 14 j 08:46	0°♍	
	-12355 Feb 28 j 21:45	0°♎	
	-12355 Apr 26 j 06:27	0°♏	
retrograde	-12355 Jun 09 j 20:51	10°♏36'22	
min. Earth dist.	-12355 Jul 16 j 05:35	2°♏05'56	0.63273 AU
opposition	-12355 Jul 19 j 18:06	0°♏41'11	-5°12'57
greatest brilliancy	-12355 Jul 19 j 03:41	0°♏55'39	-1.5m
	-12355 Jul 21 j 11:18	30°℞♎	
direct	-12355 Aug 27 j 00:54	21°♎37'04	
	-12355 Oct 06 j 16:10	0°♏	
	-12355 Dec 08 j 14:35	0°♐	
asc. node	-12354 Jan 15 j 17:22	22°♐04'14	
	-12354 Jan 28 j 17:34	0°♑	
	-12354 Mar 16 j 15:01	0°♒	
	-12354 Apr 29 j 11:14	0°♓	
evening set	-12354 May 23 j 01:23	16°♓54'40	
	-12354 Jun 09 j 20:23	0°♈	
max. Earth dist.	-12354 Jun 12 j 17:03	2°♈07'50	2.42348 AU
conjunction	-12354 Jul 19 j 00:53	29°♈42'05	1°12'42
minimum elong	-12354 Jul 19 j 01:39	29°♈43'34	1°13'04
	-12354 Jul 19 j 10:11	0°♉	
	-12354 Aug 26 j 23:53	0°♊	
morning rise	-12354 Sep 18 j 19:42	17°♊50'50	
	-12354 Oct 04 j 10:26	0°♋	
	-12354 Nov 12 j 15:08	0°♌	
desc. node	-12354 Dec 01 j 18:02	14°♌14'23	
	-12354 Dec 23 j 10:41	0°♍	
	-12353 Feb 04 j 17:42	0°♎	
	-12353 Mar 23 j 19:13	0°♏	
	-12353 May 18 j 04:53	0°♐	
retrograde	-12353 Jul 15 j 08:31	15°♐56'39	
opposition	-12353 Aug 24 j 00:08	6°♐17'54	-3°42'39
greatest brilliancy	-12353 Aug 24 j 01:33	6°♐16'28	-1.4m
min. Earth dist.	-12353 Aug 24 j 06:33	6°♐11'26	0.66465 AU
	-12353 Sep 10 j 05:04	30°℞♏	
direct	-12353 Oct 03 j 03:00	26°♏32'39	
	-12353 Oct 28 j 01:07	0°♐	
asc. node	-12353 Dec 04 j 00:14	13°♐47'41	
	-12352 Jan 04 j 17:10	0°♑	
	-12352 Feb 23 j 19:26	0°♒	
	-12352 Apr 08 j 15:33	0°♓	
	-12352 May 20 j 06:58	0°♈	
	-12352 Jun 28 j 20:28	0°♉	
evening set	-12352 Jul 21 j 01:05	17°♉14'49	
	-12352 Aug 06 j 07:59	0°♊	
	-12352 Sep 13 j 16:25	0°♋	
conjunction	-12352 Sep 21 j 13:21	6°♋06'22	0°20'19
minimum elong	-12352 Sep 21 j 15:12	6°♋09'58	0°21'02
desc. node	-12352 Oct 18 j 11:59	26°♋44'45	
	-12352 Oct 22 j 19:18	0°♌	
max. Earth dist.	-12352 Nov 02 j 10:41	7°♌58'53	2.41620 AU
morning rise	-12352 Nov 23 j 18:05	23°♌41'31	
	-12352 Dec 02 j 11:06	0°♍	
	-12351 Jan 14 j 05:29	0°♎	
	-12351 Feb 28 j 12:57	0°♏	
	-12351 Apr 18 j 02:02	0°♐	
	-12351 Jun 12 j 01:18	0°♑	
retrograde	-12351 Aug 19 j 22:03	20°♑33'52	
opposition	-12351 Sep 27 j 06:47	11°♑37'41	-1°01'04
greatest brilliancy	-12351 Sep 27 j 10:47	11°♑33'46	-1.5m
min. Earth dist.	-12351 Oct 01 j 06:02	10°♑03'52	0.63468 AU
asc. node	-12351 Oct 21 j 05:16	3°♑33'14	
direct	-12351 Nov 07 j 00:59	1°♑39'49	
	-12350 Jan 27 j 15:50	0°♒	
	-12350 Mar 17 j 08:42	0°♓	
	-12350 Apr 29 j 06:56	0°♈	
	-12350 Jun 08 j 09:45	0°♉	
	-12350 Jul 17 j 05:22	0°♊	
	-12350 Aug 24 j 20:44	0°♋	
desc. node	-12350 Sep 05 j 11:03	8°♋55'11	
evening set	-12350 Sep 23 j 20:02	22°♋54'18	
	-12350 Oct 03 j 06:19	0°♌	
	-12350 Nov 13 j 03:41	0°♍	
conjunction	-12350 Nov 21 j 06:37	5°♍48'05	-0°51'00
minimum elong	-12350 Nov 21 j 04:01	5°♍43'29	0°50'39
	-12350 Dec 25 j 23:31	0°♎	
max. Earth dist.	-12350 Dec 26 j 02:44	0°♎05'30	2.53651 AU
morning rise	-12349 Jan 15 j 20:50	14°♎07'35	
	-12349 Feb 08 j 21:05	0°♏	
	-12349 Mar 27 j 18:11	0°♐	
	-12349 May 15 j 18:33	0°♑	
	-12349 Jul 07 j 18:19	0°♒	
asc. node	-12349 Sep 08 j 06:07	26°♒13'07	
retrograde	-12349 Oct 02 j 04:31	29°♒24'58	
opposition	-12349 Nov 07 j 01:17	21°♒41'00	2°48'57
greatest brilliancy	-12349 Nov 07 j 17:03	21°♒26'28	-1.9m
min. Earth dist.	-12349 Nov 14 j 05:04	19°♒02'29	0.54737 AU
direct	-12349 Dec 16 j 13:40	12°♒20'34	
	-12348 Feb 13 j 02:34	0°♓	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12348 Apr 02 j 20:22	0°♈	
	-12348 May 15 j 06:42	0°♉	
	-12348 Jun 24 j 08:45	0°♊	
desc. node	-12348 Jul 23 j 13:47	22°♊09'06	
	-12348 Aug 02 j 22:54	0°♋	
	-12348 Sep 12 j 03:51	0°♌	
	-12348 Oct 23 j 17:36	0°♍	
evening set	-12348 Nov 16 j 11:55	16°♍36'43	
	-12348 Dec 06 j 01:19	0°♎	
conjunction	-12347 Jan 07 j 18:40	21°♎53'08	-1°15'35
minimum elong	-12347 Jan 07 j 18:31	21°♎52'53	1°15'50
	-12347 Jan 20 j 03:03	0°♏	
max. Earth dist.	-12347 Jan 25 j 05:27	3°♏19'56	2.62479 AU
morning rise	-12347 Feb 26 j 18:12	24°♏21'26	
	-12347 Mar 07 j 13:50	0°♐	
	-12347 Apr 23 j 21:46	0°♑	
	-12347 Jun 10 j 21:31	0°♒	
asc. node	-12347 Jul 26 j 00:36	27°♒30'37	
	-12347 Jul 30 j 05:14	0°♓	
	-12347 Sep 22 j 10:34	0°♈	
retrograde	-12347 Nov 29 j 16:28	20°♈50'39	
opposition	-12347 Dec 31 j 18:56	15°♈00'12	6°51'48
greatest brilliancy	-12346 Jan 02 j 09:08	14°♈31'01	-2.5m
min. Earth dist.	-12346 Jan 07 j 20:26	12°♈51'26	0.42948 AU
direct	-12346 Feb 04 j 12:07	8°♈06'29	
	-12346 Apr 10 j 00:06	0°♉	
	-12346 May 27 j 10:34	0°♊	
desc. node	-12346 Jun 10 j 19:23	9°♊51'24	
	-12346 Jul 09 j 13:14	0°♋	
	-12346 Aug 21 j 01:28	0°♌	
	-12346 Oct 03 j 06:36	0°♍	
	-12346 Nov 16 j 17:38	0°♎	
evening set	-12346 Dec 31 j 04:51	29°♎10'03	
	-12345 Jan 01 j 11:40	0°♏	
	-12345 Feb 17 j 02:31	0°♐	
conjunction	-12345 Feb 18 j 03:07	0°♐39'23	-0°59'59
minimum elong	-12345 Feb 18 j 04:39	0°♐41'50	1°00'36
max. Earth dist.	-12345 Feb 19 j 17:40	1°♐41'06	2.66239 AU
	-12345 Apr 04 j 22:01	0°♑	
morning rise	-12345 Apr 06 j 12:24	1°♑01'42	
	-12345 May 21 j 07:09	0°♒	
asc. node	-12345 Jun 12 j 15:50	14°♒38'03	
	-12345 Jul 05 j 22:56	0°♓	
	-12345 Aug 20 j 01:33	0°♈	
	-12345 Oct 04 j 07:14	0°♉	
	-12345 Nov 20 j 14:04	0°♊	
	-12344 Jan 21 j 11:49	0°♋	
retrograde	-12344 Feb 15 j 00:10	3°♋45'14	
	-12344 Mar 10 j 19:06	30°℞♊	
min. Earth dist.	-12344 Mar 14 j 08:29	29°♊02'00	0.39159 AU
opposition	-12344 Mar 18 j 01:20	27°♊59'52	3°06'45
greatest brilliancy	-12344 Mar 17 j 18:56	28°♊04'22	-2.8m
direct	-12344 Apr 17 j 13:24	22°♊46'45	
desc. node	-12344 Apr 28 j 01:19	23°♊28'57	
	-12344 May 23 j 02:29	0°♋	
	-12344 Jul 21 j 14:12	0°♌	
	-12344 Sep 08 j 12:48	0°♍	
	-12344 Oct 25 j 22:03	0°♎	
	-12344 Dec 12 j 06:09	0°♏	
	-12343 Jan 28 j 15:00	0°♐	
evening set	-12343 Feb 08 j 06:28	6°♐46'01	
max. Earth dist.	-12343 Mar 15 j 11:24	29°♐19'27	2.64684 AU
	-12343 Mar 16 j 12:30	0°♑	
conjunction	-12343 Mar 28 j 09:03	7°♑41'00	-0°19'25
minimum elong	-12343 Mar 28 j 09:51	7°♑42'18	0°20'09
asc. node	-12343 Apr 29 j 07:57	28°♑40'39	
	-12343 May 01 j 07:43	0°♒	
morning rise	-12343 May 14 j 16:55	8°♒57'06	
	-12343 Jun 14 j 15:04	0°♓	
	-12343 Jul 27 j 10:05	0°♈	
	-12343 Sep 06 j 23:40	0°♉	
	-12343 Oct 17 j 21:41	0°♊	
	-12343 Nov 28 j 03:21	0°♋	
	-12342 Jan 10 j 16:41	0°♌	
	-12342 Mar 05 j 05:49	0°♍	
desc. node	-12342 Mar 16 j 02:44	4°♍12'30	
retrograde	-12342 Apr 14 j 10:07	9°♍38'43	
min. Earth dist.	-12342 May 14 j 00:47	3°♍45'27	0.49477 AU
opposition	-12342 May 21 j 22:43	0°♍55'05	-3°48'42
greatest brilliancy	-12342 May 20 j 19:49	1°♍19'21	-2.2m
	-12342 May 24 j 12:32	30°℞♌	
direct	-12342 Jun 24 j 21:55	23°♌46'12	
	-12342 Jul 28 j 10:36	0°♍	
	-12342 Sep 30 j 06:45	0°♎	
	-12342 Nov 21 j 03:23	0°♏	
	-12341 Jan 09 j 09:20	0°♐	
	-12341 Feb 25 j 23:44	0°♑	
asc. node	-12341 Mar 17 j 05:08	12°♑26'18	
evening set	-12341 Mar 20 j 06:58	14°♑26'56	
max. Earth dist.	-12341 Apr 12 j 04:51	29°♑36'33	2.57983 AU
	-12341 Apr 12 j 18:52	0°♒	
conjunction	-12341 May 08 j 22:06	17°♒44'27	0°32'19
minimum elong	-12341 May 08 j 20:42	17°♒42'02	0°31'47
	-12341 May 26 j 13:29	0°♓	
morning rise	-12341 Jun 28 j 06:39	23°♓21'11	
	-12341 Jul 07 j 09:29	0°♈	
	-12341 Aug 16 j 16:00	0°♉	
	-12341 Sep 25 j 00:15	0°♊	
	-12341 Nov 03 j 05:45	0°♋	
	-12341 Dec 13 j 08:55	0°♌	
	-12340 Jan 24 j 20:54	0°♍	
desc. node	-12340 Jan 31 j 22:11	4°♍43'11	
	-12340 Mar 12 j 21:58	0°♎	
retrograde	-12340 May 26 j 08:43	25°♎47'49	
min. Earth dist.	-12340 Jun 30 j 00:32	17°♎55'07	0.60379 AU
greatest brilliancy	-12340 Jul 04 j 02:35	16°♎18'03	-1.6m
opposition	-12340 Jul 05 j 00:05	15°♎56'43	-5°22'47
direct	-12340 Aug 11 j 06:34	7°♎16'43	
	-12340 Oct 23 j 17:08	0°♏	
	-12340 Dec 17 j 23:17	0°♐	
asc. node	-12339 Feb 01 j 07:08	27°♐20'51	
	-12339 Feb 05 j 12:56	0°♑	
	-12339 Mar 23 j 22:46	0°♒	
evening set	-12339 May 03 j 01:42	27°♒27'07	
	-12339 May 06 j 16:35	0°♓	
max. Earth dist.	-12339 May 19 j 15:31	9°♓12'54	2.47056 AU
	-12339 Jun 17 j 03:21	0°♈	
conjunction	-12339 Jun 26 j 06:30	6°♈48'10	1°11'13
minimum elong	-12339 Jun 26 j 05:14	6°♈45'47	1°11'17
	-12339 Jul 26 j 20:17	0°♉	
morning rise	-12339 Aug 23 j 08:09	21°♉16'00	
	-12339 Sep 03 j 13:16	0°♊	
	-12339 Oct 12 j 02:44	0°♋	
	-12339 Nov 20 j 10:09	0°♌	
desc. node	-12339 Dec 18 j 15:55	20°♌50'25	
	-12339 Dec 31 j 10:01	0°♍	
	-12338 Feb 13 j 04:41	0°♎	
	-12338 Apr 02 j 21:25	0°♏	
	-12338 Jun 10 j 02:12	0°♐	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

retrograde	-12338 Jul 01 j 17:57	2°♐45'16		
	-12338 Jul 21 j 21:06	30°℞♏		
min. Earth dist.	-12338 Aug 09 j 09:36	23°♏25'51	0.65950 AU	
opposition	-12338 Aug 10 j 14:45	22°♏56'26	-4°26'55	
greatest brilliancy	-12338 Aug 10 j 10:55	23°♏00'18	-1.4m	
direct	-12338 Sep 19 j 03:13	13°♏24'09		
	-12338 Nov 18 j 20:27	0°♐		
asc. node	-12338 Dec 20 j 12:51	15°♐52'09		
	-12337 Jan 14 j 13:41	0°♑		
	-12337 Mar 03 j 23:07	0°♒		
	-12337 Apr 17 j 07:02	0°♓		
	-12337 May 28 j 18:57	0°♈		
evening set	-12337 Jun 27 j 05:58	22°♈14'45		
	-12337 Jul 07 j 07:55	0°♉		
	-12337 Aug 14 j 19:33	0°♊		
conjunction	-12337 Aug 27 j 09:25	9°♊51'41	0°49'13	
minimum elong	-12337 Aug 27 j 12:48	9°♊58'20	0°49'52	
max. Earth dist.	-12337 Sep 07 j 11:53	18°♊33'28	2.38438 AU	
	-12337 Sep 22 j 03:59	0°♋		
morning rise	-12337 Oct 30 j 20:36	29°♋41'29		
	-12337 Oct 31 j 06:25	0°♌		
desc. node	-12337 Nov 05 j 08:25	3°♌49'37		
	-12337 Dec 10 j 21:54	0°♍		
	-12336 Jan 22 j 18:18	0°♎		
	-12336 Mar 08 j 11:10	0°♏		
	-12336 Apr 27 j 10:17	0°♐		
	-12336 Jun 29 j 11:42	0°♑		
retrograde	-12336 Aug 05 j 07:16	7°♑05'52		
	-12336 Sep 07 j 18:21	30°℞♐		
opposition	-12336 Sep 13 j 06:49	27°♐50'01	-2°11'34	
greatest brilliancy	-12336 Sep 13 j 12:09	27°♐44'42	-1.4m	
min. Earth dist.	-12336 Sep 15 j 19:44	26°♐49'16	0.65363 AU	
direct	-12336 Oct 23 j 22:50	17°♐52'58		
asc. node	-12336 Nov 06 j 19:13	19°♐02'04		
	-12336 Dec 12 j 13:52	0°♑		
	-12335 Feb 07 j 18:00	0°♒		
	-12335 Mar 26 j 06:42	0°♓		
	-12335 May 07 j 12:33	0°♈		
	-12335 Jun 16 j 08:09	0°♉		
	-12335 Jul 24 j 23:07	0°♊		
evening set	-12335 Aug 30 j 06:32	28°♊19'13		
	-12335 Sep 01 j 10:32	0°♋		
desc. node	-12335 Sep 22 j 04:08	15°♋57'53		
	-12335 Oct 10 j 16:15	0°♌		
conjunction	-12335 Oct 30 j 04:23	14°♌31'35	-0°27'38	
minimum elong	-12335 Oct 30 j 02:23	14°♌27'55	0°27'03	
	-12335 Nov 20 j 10:06	0°♍		
max. Earth dist.	-12335 Dec 10 j 03:32	14°♍02'08	2.49087 AU	
morning rise	-12335 Dec 27 j 19:16	26°♍19'20		
	-12334 Jan 02 j 03:48	0°♎		
	-12334 Feb 16 j 02:36	0°♏		
	-12334 Apr 04 j 09:25	0°♐		
	-12334 May 24 j 18:16	0°♑		
	-12334 Jul 22 j 08:41	0°♒		
retrograde	-12334 Sep 14 j 02:40	13°♒35'24		
asc. node	-12334 Sep 24 j 22:10	12°♒49'51		
opposition	-12334 Oct 21 j 02:36	5°♒18'31	1°11'40	
greatest brilliancy	-12334 Oct 21 j 08:14	5°♒13'08	-1.7m	
min. Earth dist.	-12334 Oct 27 j 03:20	3°♒00'16	0.58769 AU	
	-12334 Nov 04 j 14:12	30°℞♑		
direct	-12334 Nov 30 j 09:52	25°♑34'15		
	-12334 Dec 27 j 20:43	0°♒		
	-12333 Feb 28 j 01:57	0°♓		
	-12333 Apr 14 j 12:22	0°♈		
	-12333 May 25 j 15:16	0°♉		
	-12333 Jul 04 j 00:42	0°♊		
desc. node	-12333 Aug 10 j 05:29	28°♊33'32		
	-12333 Aug 12 j 02:46	0°♋		
	-12333 Sep 20 j 21:36	0°♌		
evening set	-12333 Oct 28 j 16:47	27°♌33'38		
	-12333 Nov 01 j 02:48	0°♍		
	-12333 Dec 14 j 04:12	0°♎		
conjunction	-12333 Dec 22 j 02:10	5°♎22'27	-1°11'44	
minimum elong	-12333 Dec 22 j 00:52	5°♎20'15	1°11'48	
max. Earth dist.	-12332 Jan 15 j 04:07	21°♎28'53	2.59603 AU	
	-12332 Jan 28 j 02:39	0°♏		
morning rise	-12332 Feb 11 j 20:45	9°♏36'48		
	-12332 Mar 14 j 15:13	0°♐		
	-12332 May 01 j 09:55	0°♑		
	-12332 Jun 19 j 15:02	0°♒		
asc. node	-12332 Aug 11 j 19:31	0°♓12'20		
	-12332 Aug 11 j 10:10	0°♓		
retrograde	-12332 Nov 03 j 16:52	28°♓41'29		
opposition	-12332 Dec 07 j 10:36	22°♓02'34	5°30'58	
greatest brilliancy	-12332 Dec 08 j 20:29	21°♓34'00	-2.2m	
min. Earth dist.	-12332 Dec 15 j 09:42	19°♓22'31	0.47506 AU	
direct	-12331 Jan 13 j 13:03	13°♓55'57		
	-12331 Mar 08 j 14:07	0°♈		
	-12331 Apr 26 j 22:56	0°♉		
	-12331 Jun 08 j 12:52	0°♊		
desc. node	-12331 Jun 27 j 10:48	13°♊46'35		
	-12331 Jul 19 j 14:21	0°♋		
	-12331 Aug 29 j 20:43	0°♌		
	-12331 Oct 11 j 05:25	0°♍		
	-12331 Nov 24 j 02:42	0°♎		
evening set	-12331 Dec 14 j 16:24	13°♎42'20		
	-12330 Jan 08 j 12:17	0°♏		
conjunction	-12330 Feb 02 j 13:51	16°♏14'15	-1°09'44	
minimum elong	-12330 Feb 02 j 15:00	16°♏16'07	1°10'15	
max. Earth dist.	-12330 Feb 10 j 06:40	21°♏11'36	2.65409 AU	
	-12330 Feb 23 j 23:59	0°♐		
morning rise	-12330 Mar 22 j 15:30	17°♐02'27		
	-12330 Apr 11 j 22:26	0°♑		
	-12330 May 28 j 18:33	0°♒		
asc. node	-12330 Jun 29 j 11:53	20°♒24'10		
	-12330 Jul 14 j 09:49	0°♓		
	-12330 Aug 30 j 09:46	0°♈		
	-12330 Oct 18 j 16:27	0°♉		
	-12330 Dec 22 j 00:46	0°♊		
retrograde	-12329 Jan 15 j 23:45	3°♊43'17		
	-12329 Feb 10 j 10:25	30°℞♉		
opposition	-12329 Feb 15 j 19:40	28°♉34'17	6°07'12	
greatest brilliancy	-12329 Feb 16 j 06:32	28°♉26'59	-2.8m	
min. Earth dist.	-12329 Feb 17 j 00:48	28°♉14'42	0.38615 AU	
direct	-12329 Mar 18 j 16:38	23°♉19'28		
	-12329 Apr 21 j 06:20	0°♊		
desc. node	-12329 May 15 j 16:07	10°♊52'13		
	-12329 Jun 18 j 10:46	0°♋		
	-12329 Aug 04 j 14:35	0°♌		
	-12329 Sep 19 j 05:06	0°♍		
	-12329 Nov 04 j 01:32	0°♎		
	-12329 Dec 20 j 14:33	0°♏		
evening set	-12328 Jan 24 j 23:08	22°♏34'49		
	-12328 Feb 05 j 14:16	0°♐		
max. Earth dist.	-12328 Mar 05 j 18:07	18°♐38'48	2.65940 AU	
conjunction	-12328 Mar 13 j 02:42	23°♐22'16	-0°37'17	
minimum elong	-12328 Mar 13 j 04:03	23°♐24'25	0°38'00	
	-12328 Mar 23 j 09:42	0°♑		
morning rise	-12328 Apr 29 j 03:18	23°♑54'57		

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12328 May 08 j 08:49	0°♒	
asc. node	-12328 May 16 j 03:09	5°♒08'38	
	-12328 Jun 22 j 02:14	0°♓	
	-12328 Aug 04 j 13:28	0°♈	
	-12328 Sep 16 j 01:55	0°♉	
	-12328 Oct 28 j 07:14	0°♊	
	-12328 Dec 10 j 15:25	0°♋	
	-12327 Jan 28 j 19:41	0°♌	
retrograde	-12327 Mar 24 j 23:42	17°♌00'06	
desc. node	-12327 Apr 01 j 20:39	16°♌33'48	
min. Earth dist.	-12327 Apr 21 j 22:43	11°♌52'55	0.44626 AU
opposition	-12327 Apr 29 j 18:30	9°♌17'46	-1°52'21
greatest brilliancy	-12327 Apr 29 j 04:04	9°♌29'43	-2.5m
direct	-12327 Jun 01 j 02:13	2°♌57'49	
	-12327 Aug 19 j 09:51	0°♍	
	-12327 Oct 11 j 00:44	0°♎	
	-12327 Nov 29 j 10:41	0°♏	
	-12326 Jan 16 j 18:03	0°♐	
evening set	-12326 Mar 04 j 11:46	29°♐40'23	
	-12326 Mar 04 j 23:57	0°♑	
max. Earth dist.	-12326 Mar 31 j 21:55	17°♑30'46	2.61194 AU
asc. node	-12326 Apr 02 j 21:29	18°♑49'03	
	-12326 Apr 19 j 17:56	0°♒	
conjunction	-12326 Apr 22 j 04:58	1°♒38'46	0°12'02
minimum elong	-12326 Apr 22 j 04:28	1°♒37'55	0°11'23
behind sun begin	-12326 Apr 21 j 13:57	1°♒13'38	
behind sun end	-12326 Apr 22 j 18:59	2°♒02'13	
	-12326 Jun 02 j 16:28	0°♓	
morning rise	-12326 Jun 09 j 21:32	5°♓02'55	
	-12326 Jul 14 j 19:50	0°♈	
	-12326 Aug 24 j 12:09	0°♉	
	-12326 Oct 03 j 07:24	0°♊	
	-12326 Nov 12 j 01:22	0°♋	
	-12326 Dec 22 j 21:59	0°♌	
	-12325 Feb 04 j 23:40	0°♍	
desc. node	-12325 Feb 17 j 19:32	7°♍58'29	
	-12325 Mar 31 j 23:07	0°♎	
retrograde	-12325 May 11 j 20:46	9°♎34'59	
min. Earth dist.	-12325 Jun 13 j 14:40	2°♎25'50	0.56587 AU
opposition	-12325 Jun 19 j 23:14	29°♍58'16	-5°11'47
greatest brilliancy	-12325 Jun 18 j 19:57	0°♎24'44	-1.8m
	-12325 Jun 19 j 21:27	30°♍	
direct	-12325 Jul 26 j 01:18	21°♍48'28	
	-12325 Sep 03 j 16:58	0°♎	
	-12325 Nov 05 j 12:47	0°♏	
	-12325 Dec 27 j 10:37	0°♐	
	-12324 Feb 14 j 00:32	0°♑	
asc. node	-12324 Feb 18 j 21:27	3°♑05'55	
	-12324 Mar 31 j 02:47	0°♒	
evening set	-12324 Apr 14 j 18:32	9°♒52'53	
max. Earth dist.	-12324 May 02 j 07:29	21°♒56'14	2.51685 AU
	-12324 May 13 j 20:02	0°♓	
conjunction	-12324 Jun 05 j 18:15	16°♓22'23	1°00'13
minimum elong	-12324 Jun 05 j 16:12	16°♓18'40	1°00'01
	-12324 Jun 24 j 09:29	0°♈	
morning rise	-12324 Jul 30 j 05:08	26°♈53'52	
	-12324 Aug 03 j 06:41	0°♉	
	-12324 Sep 11 j 04:16	0°♊	
	-12324 Oct 19 j 22:17	0°♋	
	-12324 Nov 28 j 10:48	0°♌	
desc. node	-12323 Jan 04 j 12:16	26°♌58'50	
	-12323 Jan 08 j 18:58	0°♍	
	-12323 Feb 22 j 10:46	0°♎	
	-12323 Apr 15 j 11:55	0°♏	
retrograde	-12323 Jun 17 j 23:24	19°♏07'37	
min. Earth dist.	-12323 Jul 25 j 04:40	10°♏18'30	0.64477 AU
opposition	-12323 Jul 27 j 21:28	9°♏13'14	-4°59'59
greatest brilliancy	-12323 Jul 27 j 11:02	9°♏23'45	-1.4m
	-12323 Sep 02 j 09:52	30°♎	
direct	-12323 Sep 04 j 15:40	29°♎58'04	
	-12323 Sep 06 j 22:02	0°♏	
	-12323 Dec 01 j 17:49	0°♐	
asc. node	-12322 Jan 06 j 02:24	19°♐43'17	
	-12322 Jan 23 j 08:15	0°♑	
	-12322 Mar 11 j 17:10	0°♒	
	-12322 Apr 24 j 17:48	0°♓	
evening set	-12322 Jun 04 j 05:13	29°♓17'04	
	-12322 Jun 05 j 04:21	0°♈	
max. Earth dist.	-12322 Jul 02 j 15:00	20°♈41'24	2.40108 AU
	-12322 Jul 14 j 18:07	0°♉	
conjunction	-12322 Aug 01 j 18:37	13°♉58'18	1°08'00
minimum elong	-12322 Aug 01 j 20:46	14°♉02'29	1°08'29
	-12322 Aug 22 j 06:51	0°♊	
	-12322 Sep 29 j 16:05	0°♋	
morning rise	-12322 Oct 04 j 03:08	3°♋27'42	
	-12322 Nov 07 j 19:03	0°♌	
desc. node	-12322 Nov 22 j 04:26	10°♌46'25	
	-12322 Dec 18 j 11:42	0°♍	
	-12321 Jan 30 j 12:51	0°♎	
	-12321 Mar 17 j 21:58	0°♏	
	-12321 May 09 j 11:04	0°♐	
retrograde	-12321 Jul 23 j 07:17	23°♐55'34	
opposition	-12321 Aug 31 j 17:55	14°♐23'56	-3°12'04
greatest brilliancy	-12321 Aug 31 j 21:25	14°♐20'25	-1.4m
min. Earth dist.	-12321 Sep 01 j 19:49	13°♐57'55	0.66328 AU
direct	-12321 Oct 11 j 02:19	4°♐33'21	
asc. node	-12321 Nov 24 j 09:10	14°♐21'39	
	-12321 Dec 28 j 08:45	0°♑	
	-12320 Feb 18 j 04:19	0°♒	
	-12320 Apr 03 j 12:57	0°♓	
	-12320 May 15 j 09:21	0°♈	
	-12320 Jun 24 j 01:12	0°♉	
	-12320 Aug 01 j 13:50	0°♊	
evening set	-12320 Aug 04 j 13:40	2°♊20'42	
	-12320 Sep 08 j 22:59	0°♋	
conjunction	-12320 Oct 05 j 23:17	20°♋48'25	0°02'19
minimum elong	-12320 Oct 05 j 23:33	20°♋48'56	0°03'01
behind sun begin	-12320 Oct 04 j 21:24	19°♋59'06	
behind sun end	-12320 Oct 07 j 01:42	21°♋38'45	
desc. node	-12320 Oct 08 j 23:15	23°♋05'26	
	-12320 Oct 18 j 02:12	0°♌	
max. Earth dist.	-12320 Nov 19 j 01:25	23°♌42'44	2.44206 AU
	-12320 Nov 27 j 17:34	0°♍	
morning rise	-12320 Dec 06 j 17:07	6°♍26'29	
	-12319 Jan 09 j 10:21	0°♎	
	-12319 Feb 23 j 12:42	0°♏	
	-12319 Apr 12 j 11:12	0°♐	
	-12319 Jun 04 j 03:06	0°♑	
retrograde	-12319 Aug 28 j 17:55	28°♑58'33	
opposition	-12319 Oct 05 j 15:55	20°♑14'55	-0°15'32
greatest brilliancy	-12319 Oct 05 j 17:15	20°♑13'37	-1.6m
min. Earth dist.	-12319 Oct 10 j 09:19	18°♑24'08	0.62026 AU
asc. node	-12319 Oct 11 j 14:22	17°♑56'04	
direct	-12319 Nov 15 j 07:52	10°♑19'19	
	-12318 Jan 19 j 01:24	0°♒	
	-12318 Mar 11 j 05:01	0°♓	
	-12318 Apr 23 j 19:25	0°♈	
	-12318 Jun 03 j 05:21	0°♉	
	-12318 Jul 12 j 04:54	0°♊	
	-12318 Aug 19 j 23:16	0°♋	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

desc. node	-12318 Aug 26 j 21:32	5°♋19'12	
	-12318 Sep 28 j 11:18	0°♌	
evening set	-12318 Oct 07 j 01:11	6°♌23'16	
	-12318 Nov 08 j 10:25	0°♍	
conjunction	-12318 Dec 02 j 23:14	17°♍20'33	-1°00'48
minimum elong	-12318 Dec 02 j 20:55	17°♍16'31	1°00'35
	-12318 Dec 21 j 07:14	0°♎	
max. Earth dist.	-12317 Jan 02 j 21:24	8°♎33'16	2.55967 AU
morning rise	-12317 Jan 26 j 00:52	24°♎00'02	
	-12317 Feb 04 j 03:50	0°♏	
	-12317 Mar 22 j 20:24	0°♐	
	-12317 May 10 j 07:08	0°♑	
	-12317 Jun 30 j 11:31	0°♒	
asc. node	-12317 Aug 29 j 13:53	29°♒34'45	
	-12317 Aug 30 j 16:03	0°♓	
retrograde	-12317 Oct 13 j 10:36	9°♓36'20	
opposition	-12317 Nov 17 j 14:45	2°♓13'10	3°47'40
greatest brilliancy	-12317 Nov 18 j 13:15	1°♓52'53	-2.0m
	-12317 Nov 23 j 18:25	30°♑℞♒	
min. Earth dist.	-12317 Nov 25 j 05:38	29°♒28'50	0.52274 AU
direct	-12317 Dec 26 j 10:47	23°♒12'54	
	-12316 Jan 29 j 05:35	0°♓	
	-12316 Mar 26 j 03:11	0°♈	
	-12316 May 08 j 22:51	0°♉	
	-12316 Jun 18 j 15:27	0°♊	
desc. node	-12316 Jul 14 j 01:44	19°♊05'31	
	-12316 Jul 28 j 14:38	0°♋	
	-12316 Sep 07 j 02:15	0°♌	
	-12316 Oct 18 j 20:49	0°♍	
evening set	-12316 Nov 27 j 03:45	27°♍10'02	
	-12316 Dec 01 j 08:03	0°♎	
	-12315 Jan 15 j 11:30	0°♏	
conjunction	-12315 Jan 17 j 10:53	1°♏17'24	-1°14'57
minimum elong	-12315 Jan 17 j 11:19	1°♏18'06	1°15'20
max. Earth dist.	-12315 Jan 31 j 07:25	10°♏18'10	2.63760 AU
	-12315 Mar 02 j 21:51	0°♐	
morning rise	-12315 Mar 07 j 14:45	3°♐00'31	
	-12315 Apr 19 j 01:24	0°♑	
	-12315 Jun 05 j 13:08	0°♒	
asc. node	-12315 Jul 16 j 07:16	25°♒27'52	
	-12315 Jul 23 j 15:43	0°♓	
	-12315 Sep 12 j 02:46	0°♈	
	-12315 Nov 14 j 16:04	0°♉	
retrograde	-12315 Dec 16 j 01:42	5°♉28'02	
opposition	-12314 Jan 16 j 08:32	0°♉00'47	7°08'48
	-12314 Jan 16 j 09:38	30°♓℞♈	
greatest brilliancy	-12314 Jan 17 j 18:02	29°♈36'34	-2.6m
min. Earth dist.	-12314 Jan 21 j 23:02	28°♈23'49	0.40869 AU
direct	-12314 Feb 18 j 15:06	23°♈49'05	
	-12314 Mar 22 j 04:35	0°♉	
	-12314 May 18 j 06:22	0°♊	
desc. node	-12314 Jun 01 j 09:02	9°♊04'03	
	-12314 Jul 02 j 13:47	0°♋	
	-12314 Aug 15 j 03:36	0°♌	
	-12314 Sep 27 j 23:24	0°♍	
	-12314 Nov 11 j 19:30	0°♎	
	-12314 Dec 27 j 18:38	0°♏	
evening set	-12313 Jan 09 j 09:28	8°♏08'00	
	-12313 Feb 12 j 11:55	0°♐	
max. Earth dist.	-12313 Feb 25 j 08:32	8°♐13'43	2.66364 AU
conjunction	-12313 Feb 26 j 22:47	9°♐14'54	-0°52'33
minimum elong	-12313 Feb 27 j 00:20	9°♐17'24	0°53'13
	-12313 Mar 31 j 07:02	0°♑	
morning rise	-12313 Apr 15 j 02:11	9°♑33'00	
	-12313 May 16 j 12:09	0°♒	
asc. node	-12313 Jun 02 j 21:57	11°♒27'21	
	-12313 Jun 30 j 18:57	0°♓	
	-12313 Aug 14 j 04:40	0°♈	
	-12313 Sep 27 j 04:27	0°♉	
	-12313 Nov 10 j 20:05	0°♊	
	-12313 Dec 29 j 19:23	0°♋	
retrograde	-12312 Mar 01 j 03:38	20°♋32'51	
min. Earth dist.	-12312 Mar 28 j 18:55	15°♋51'14	0.40609 AU
opposition	-12312 Apr 03 j 14:18	14°♋07'33	1°07'09
greatest brilliancy	-12312 Apr 03 j 09:36	14°♋11'03	-2.8m
desc. node	-12312 Apr 18 j 13:42	10°♋14'06	
direct	-12312 May 04 j 12:15	8°♋35'25	
	-12312 Jul 10 j 22:46	0°♌	
	-12312 Sep 01 j 16:19	0°♍	
	-12312 Oct 20 j 08:33	0°♎	
	-12312 Dec 07 j 06:33	0°♏	
	-12311 Jan 23 j 22:08	0°♐	
evening set	-12311 Feb 17 j 01:51	15°♐20'25	
	-12311 Mar 11 j 22:19	0°♑	
max. Earth dist.	-12311 Mar 21 j 09:22	6°♑07'25	2.63664 AU
conjunction	-12311 Apr 06 j 07:15	16°♑30'18	-0°08'14
minimum elong	-12311 Apr 06 j 07:37	16°♑30'54	0°08'56
behind sun begin	-12311 Apr 05 j 14:51	16°♑03'25	
behind sun end	-12311 Apr 07 j 00:23	16°♑58'24	
asc. node	-12311 Apr 19 j 14:48	25°♑17'02	
	-12311 Apr 26 j 17:08	0°♒	
morning rise	-12311 May 23 j 22:57	18°♒21'44	
	-12311 Jun 09 j 21:32	0°♓	
	-12311 Jul 22 j 10:38	0°♈	
	-12311 Sep 01 j 15:48	0°♉	
	-12311 Oct 12 j 02:18	0°♊	
	-12311 Nov 21 j 15:18	0°♋	
	-12310 Jan 02 j 19:25	0°♌	
	-12310 Feb 19 j 13:24	0°♍	
desc. node	-12310 Mar 06 j 13:38	7°♍47'23	
retrograde	-12310 Apr 24 j 23:17	21°♍29'01	
min. Earth dist.	-12310 May 25 j 16:32	15°♍07'45	0.52133 AU
greatest brilliancy	-12310 May 31 j 23:04	12°♍48'09	-2.0m
opposition	-12310 Jun 02 j 04:13	12°♍20'57	-4°30'51
direct	-12310 Jul 06 j 22:34	4°♍48'04	
	-12310 Sep 22 j 03:05	0°♎	
	-12310 Nov 15 j 08:07	0°♏	
	-12309 Jan 04 j 08:30	0°♐	
	-12309 Feb 21 j 06:22	0°♑	
asc. node	-12309 Mar 07 j 12:45	9°♑10'50	
evening set	-12309 Mar 29 j 16:44	23°♑41'50	
	-12309 Apr 08 j 03:58	0°♒	
max. Earth dist.	-12309 Apr 19 j 11:06	7°♒36'11	2.55906 AU
conjunction	-12309 May 19 j 00:39	27°♒57'36	0°43'26
minimum elong	-12309 May 18 j 22:51	27°♒54'26	0°43'00
	-12309 May 21 j 22:28	0°♓	
	-12309 Jul 02 j 16:23	0°♈	
morning rise	-12309 Jul 09 j 14:28	5°♈05'51	
	-12309 Aug 11 j 19:47	0°♉	
	-12309 Sep 19 j 23:59	0°♊	
	-12309 Oct 29 j 00:35	0°♋	
	-12309 Dec 07 j 20:54	0°♌	
	-12308 Jan 18 j 18:52	0°♍	
desc. node	-12308 Jan 22 j 09:11	2°♍28'06	
	-12308 Mar 05 j 01:21	0°♎	
	-12308 May 06 j 03:33	0°♏	
retrograde	-12308 Jun 03 j 19:41	4°♏50'22	
	-12308 Jun 30 j 09:12	30°♏℞♎	
min. Earth dist.	-12308 Jul 09 j 10:12	26°♎36'18	0.62080 AU

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

opposition	-12308 Jul 13 j 14:44	24°♎55'52	-5°19'25
greatest brilliancy	-12308 Jul 12 j 21:03	25°♎13'33	-1.5m
direct	-12308 Aug 20 j 10:50	16°♎02'02	
	-12308 Oct 14 j 02:24	0°♏	
	-12308 Dec 12 j 00:05	0°♐	
asc. node	-12307 Jan 22 j 16:08	24°♐35'23	
	-12307 Jan 31 j 10:51	0°♑	
	-12307 Mar 19 j 04:10	0°♒	
	-12307 May 02 j 00:33	0°♓	
evening set	-12307 May 14 j 05:41	8°♓40'47	
max. Earth dist.	-12307 Jun 01 j 01:04	21°♓34'33	2.44408 AU
	-12307 Jun 12 j 11:20	0°♈	
conjunction	-12307 Jul 08 j 22:03	19°♈53'15	1°13'29
minimum elong	-12307 Jul 08 j 21:48	19°♈52'47	1°13'42
	-12307 Jul 22 j 03:14	0°♉	
	-12307 Aug 29 j 18:34	0°♊	
morning rise	-12307 Sep 07 j 02:45	6°♊31'01	
	-12307 Oct 07 j 06:06	0°♋	
	-12307 Nov 15 j 11:18	0°♌	
desc. node	-12307 Dec 09 j 00:43	17°♌29'47	
	-12307 Dec 26 j 07:14	0°♍	
	-12306 Feb 07 j 16:56	0°♎	
	-12306 Mar 27 j 05:38	0°♏	
	-12306 May 24 j 11:56	0°♐	
retrograde	-12306 Jul 09 j 14:42	10°♐47'44	
opposition	-12306 Aug 18 j 08:43	1°♐03'54	-4°02'28
greatest brilliancy	-12306 Aug 18 j 07:58	1°♐04'39	-1.4m
min. Earth dist.	-12306 Aug 17 j 22:54	1°♐13'48	0.66354 AU
	-12306 Aug 21 j 00:13	30°℞♏	
direct	-12306 Sep 27 j 05:23	21°♏24'03	
	-12306 Nov 07 j 12:12	0°♐	
asc. node	-12306 Dec 10 j 23:04	14°♐45'28	
	-12305 Jan 08 j 09:06	0°♑	
	-12305 Feb 26 j 17:49	0°♒	
	-12305 Apr 12 j 09:56	0°♓	
	-12305 May 24 j 00:47	0°♈	
	-12305 Jul 02 j 14:43	0°♉	
evening set	-12305 Jul 11 j 02:09	6°♉33'39	
	-12305 Aug 10 j 02:18	0°♊	
conjunction	-12305 Sep 11 j 05:33	25°♊10'23	0°33'38
minimum elong	-12305 Sep 11 j 08:23	25°♊15'54	0°34'19
	-12305 Sep 17 j 10:14	0°♋	
max. Earth dist.	-12305 Oct 15 j 08:42	21°♋32'33	2.39796 AU
desc. node	-12305 Oct 26 j 17:39	0°♌10'33	
	-12305 Oct 26 j 12:04	0°♌	
morning rise	-12305 Nov 14 j 06:46	14°♌02'57	
	-12305 Dec 06 j 02:22	0°♍	
	-12304 Jan 17 j 20:00	0°♎	
	-12304 Mar 03 j 05:17	0°♏	
	-12304 Apr 21 j 04:49	0°♐	
	-12304 Jun 17 j 08:24	0°♑	
retrograde	-12304 Aug 13 j 15:16	15°♑12'46	
opposition	-12304 Sep 21 j 06:41	6°♑07'14	-1°31'53
greatest brilliancy	-12304 Sep 21 j 11:38	6°♑02'21	-1.5m
min. Earth dist.	-12304 Sep 24 j 14:16	4°♑48'19	0.64439 AU
	-12304 Oct 07 j 20:55	30°℞♐	
asc. node	-12304 Oct 28 j 04:40	26°♐14'44	
direct	-12304 Nov 01 j 00:08	26°♐09'02	
	-12304 Nov 27 j 02:31	0°♑	
	-12303 Jan 31 j 23:49	0°♒	
	-12303 Mar 20 j 17:24	0°♓	
	-12303 May 02 j 09:08	0°♈	
	-12303 Jun 11 j 09:27	0°♉	
	-12303 Jul 20 j 02:59	0°♊	
	-12303 Aug 27 j 16:02	0°♋	
desc. node	-12303 Sep 12 j 16:04	12°♋19'22	
evening set	-12303 Sep 13 j 08:25	12°♋50'40	
	-12303 Oct 05 j 22:56	0°♌	
conjunction	-12303 Nov 11 j 23:56	27°♌18'52	-0°41'53
minimum elong	-12303 Nov 11 j 21:25	27°♌14'17	0°41'26
	-12303 Nov 15 j 17:19	0°♍	
max. Earth dist.	-12303 Dec 19 j 19:05	24°♍02'41	2.51653 AU
	-12303 Dec 28 j 10:42	0°♎	
morning rise	-12302 Jan 07 j 22:12	7°♎08'18	
	-12302 Feb 11 j 07:11	0°♏	
	-12302 Mar 30 j 06:52	0°♐	
	-12302 May 18 j 18:02	0°♑	
	-12302 Jul 12 j 10:43	0°♒	
asc. node	-12302 Sep 15 j 06:19	22°♒24'05	
retrograde	-12302 Sep 24 j 04:15	22°♒52'51	
opposition	-12302 Oct 30 j 14:01	14°♒53'12	2°06'16
greatest brilliancy	-12302 Oct 31 j 01:00	14°♒42'53	-1.8m
min. Earth dist.	-12302 Nov 06 j 05:59	12°♒22'58	0.56637 AU
direct	-12302 Dec 09 j 11:40	5°♒20'22	
	-12301 Feb 19 j 15:01	0°♓	
	-12301 Apr 08 j 03:04	0°♈	
	-12301 May 19 j 22:40	0°♉	
	-12301 Jun 28 j 16:48	0°♊	
desc. node	-12301 Jul 31 j 18:04	25°♊13'39	
	-12301 Aug 07 j 00:41	0°♋	
	-12301 Sep 16 j 00:05	0°♌	
	-12301 Oct 27 j 08:35	0°♍	
evening set	-12301 Nov 09 j 04:30	9°♍03'27	
	-12301 Dec 09 j 12:06	0°♎	
conjunction	-12300 Jan 01 j 08:56	15°♎24'10	-1°14'43
minimum elong	-12300 Jan 01 j 08:18	15°♎23'06	1°14'54
max. Earth dist.	-12300 Jan 21 j 16:32	28°♎50'20	2.61280 AU
	-12300 Jan 23 j 11:01	0°♏	
morning rise	-12300 Feb 21 j 02:24	18°♏35'44	
	-12300 Mar 09 j 21:39	0°♐	
	-12300 Apr 26 j 09:18	0°♑	
	-12300 Jun 13 j 20:00	0°♒	
asc. node	-12300 Aug 02 j 01:48	29°♒16'05	
	-12300 Aug 03 j 08:35	0°♓	
	-12300 Oct 01 j 13:09	0°♈	
retrograde	-12300 Nov 17 j 20:40	11°♈11'06	
opposition	-12300 Dec 20 j 16:54	4°♈59'05	6°21'32
greatest brilliancy	-12300 Dec 22 j 06:58	4°♈28'38	-2.4m
min. Earth dist.	-12300 Dec 28 j 10:03	2°♈31'49	0.44917 AU
	-12299 Jan 06 j 08:38	30°℞♓	
direct	-12299 Jan 25 j 14:14	27°♓30'53	
	-12299 Feb 14 j 01:53	0°♈	
	-12299 Apr 17 j 19:46	0°♉	
	-12299 Jun 01 j 12:17	0°♊	
desc. node	-12299 Jun 17 j 23:21	11°♊39'55	
	-12299 Jul 13 j 12:46	0°♋	
	-12299 Aug 24 j 09:25	0°♌	
	-12299 Oct 06 j 03:36	0°♍	
	-12299 Nov 19 j 07:08	0°♎	
evening set	-12299 Dec 24 j 06:32	23°♎06'24	
	-12298 Jan 03 j 20:16	0°♏	
conjunction	-12298 Feb 11 j 14:12	25°♏00'18	-1°04'34
minimum elong	-12298 Feb 11 j 15:38	25°♏02'35	1°05'08
max. Earth dist.	-12298 Feb 15 j 22:26	27°♏47'25	2.65966 AU
	-12298 Feb 19 j 09:10	0°♐	
morning rise	-12298 Mar 31 j 05:28	25°♐30'36	
	-12298 Apr 07 j 05:38	0°♑	
	-12298 May 23 j 19:28	0°♒	
asc. node	-12298 Jun 19 j 17:28	17°♒29'32	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12298 Jul 08 j 21:05	0°♓	
	-12298 Aug 23 j 17:07	0°♈	
	-12298 Oct 09 j 08:01	0°♉	
	-12298 Nov 29 j 04:37	0°♊	
retrograde	-12297 Feb 02 j 07:38	21°♊00'09	
min. Earth dist.	-12297 Mar 03 j 23:31	16°♊03'35	0.38555 AU
opposition	-12297 Mar 05 j 12:58	15°♊38'17	4°35'22
greatest brilliancy	-12297 Mar 05 j 11:46	15°♊39'05	-2.9m
direct	-12297 Apr 04 j 23:02	10°♊31'27	
desc. node	-12297 May 06 j 05:38	16°♊17'34	
	-12297 Jun 06 j 09:41	0°♋	
	-12297 Jul 28 j 01:04	0°♌	
	-12297 Sep 13 j 05:17	0°♍	
	-12297 Oct 29 j 19:46	0°♎	
	-12297 Dec 15 j 18:10	0°♏	
	-12296 Jan 31 j 22:41	0°♐	
evening set	-12296 Feb 02 j 18:42	1°♐10'03	
max. Earth dist.	-12296 Mar 11 j 09:03	25°♐12'40	2.65344 AU
	-12296 Mar 18 j 19:25	0°♑	
conjunction	-12296 Mar 21 j 20:52	1°♑58'36	-0°27'12
minimum elong	-12296 Mar 21 j 21:56	2°♑00'20	0°27'55
	-12296 May 03 j 16:49	0°♒	
asc. node	-12296 May 06 j 09:27	1°♒47'16	
morning rise	-12296 May 08 j 00:04	2°♒51'27	
	-12296 Jun 17 j 05:10	0°♓	
	-12296 Jul 30 j 07:28	0°♈	
	-12296 Sep 10 j 06:45	0°♉	
	-12296 Oct 21 j 16:51	0°♊	
	-12296 Dec 02 j 15:48	0°♋	
	-12295 Jan 16 j 18:26	0°♌	
desc. node	-12295 Mar 23 j 08:08	29°♌24'01	
	-12295 Mar 27 j 03:15	0°♍	
retrograde	-12295 Apr 06 j 00:09	0°♍40'14	
	-12295 Apr 15 j 15:43	30°℞♌	
min. Earth dist.	-12295 May 04 j 18:25	25°♌08'28	0.47281 AU
opposition	-12295 May 12 j 19:05	22°♌21'15	-3°06'11
greatest brilliancy	-12295 May 11 j 20:03	22°♌41'22	-2.3m
direct	-12295 Jun 15 j 01:23	15°♌33'26	
	-12295 Aug 08 j 04:25	0°♍	
	-12295 Oct 04 j 09:53	0°♎	
	-12295 Nov 24 j 01:47	0°♏	
	-12294 Jan 11 j 21:28	0°♐	
	-12294 Feb 28 j 08:32	0°♑	
evening set	-12294 Mar 13 j 11:25	8°♑28'18	
asc. node	-12294 Mar 24 j 05:38	15°♑29'18	
max. Earth dist.	-12294 Apr 07 j 07:34	24°♑46'11	2.59516 AU
	-12294 Apr 15 j 04:00	0°♒	
conjunction	-12294 May 01 j 15:25	11°♒06'12	0°23'46
minimum elong	-12294 May 01 j 14:23	11°♒04'28	0°23'10
	-12294 May 29 j 01:22	0°♓	
morning rise	-12294 Jun 20 j 03:57	15°♓38'07	
	-12294 Jul 10 j 01:19	0°♈	
	-12294 Aug 19 j 12:33	0°♉	
	-12294 Sep 28 j 01:33	0°♊	
	-12294 Nov 06 j 11:36	0°♋	
	-12294 Dec 16 j 20:31	0°♌	
	-12293 Jan 28 j 19:43	0°♍	
desc. node	-12293 Feb 08 j 04:06	6°♍45'48	
	-12293 Mar 19 j 15:43	0°♎	
retrograde	-12293 May 20 j 21:54	19°♎28'21	
min. Earth dist.	-12293 Jun 23 j 17:40	11°♎54'22	0.58790 AU
greatest brilliancy	-12293 Jun 28 j 08:02	10°♎05'59	-1.7m
opposition	-12293 Jun 29 j 08:29	9°♎41'56	-5°21'20
direct	-12293 Aug 05 j 02:24	1°♎14'42	
	-12293 Oct 29 j 07:28	0°♏	
	-12293 Dec 21 j 23:17	0°♐	
asc. node	-12292 Feb 09 j 06:43	0°♑05'56	
	-12292 Feb 09 j 02:57	0°♑	
	-12292 Mar 26 j 10:30	0°♒	
evening set	-12292 Apr 25 j 00:27	20°♒05'07	
	-12292 May 09 j 05:23	0°♓	
max. Earth dist.	-12292 May 11 j 15:43	1°♓42'50	2.49181 AU
conjunction	-12292 Jun 17 j 03:23	28°♓03'44	1°07'24
minimum elong	-12292 Jun 17 j 01:37	28°♓00'29	1°07'21
	-12292 Jun 19 j 18:21	0°♈	
	-12292 Jul 29 j 13:52	0°♉	
morning rise	-12292 Aug 12 j 12:24	10°♉43'11	
	-12292 Sep 06 j 09:04	0°♊	
	-12292 Oct 15 j 00:01	0°♋	
	-12292 Nov 23 j 08:37	0°♌	
desc. node	-12292 Dec 25 j 22:17	23°♌55'50	
	-12291 Jan 03 j 10:14	0°♍	
	-12291 Feb 16 j 10:28	0°♎	
	-12291 Apr 07 j 02:06	0°♏	
retrograde	-12291 Jun 25 j 23:09	27°♏27'16	
min. Earth dist.	-12291 Aug 02 j 23:24	18°♏21'02	0.65413 AU
opposition	-12291 Aug 04 j 20:54	17°♏35'07	-4°42'19
greatest brilliancy	-12291 Aug 04 j 14:13	17°♏41'52	-1.4m
direct	-12291 Sep 13 j 01:34	8°♏10'01	
	-12291 Nov 23 j 23:29	0°♐	
asc. node	-12291 Dec 27 j 12:03	17°♐42'16	
	-12290 Jan 17 j 17:39	0°♑	
	-12290 Mar 06 j 17:14	0°♒	
	-12290 Apr 19 j 23:18	0°♓	
	-12290 May 31 j 11:38	0°♈	
evening set	-12290 Jun 16 j 23:52	12°♈22'10	
	-12290 Jul 10 j 01:42	0°♉	
max. Earth dist.	-12290 Aug 02 j 07:36	18°♉03'07	2.38588 AU
conjunction	-12290 Aug 16 j 01:39	28°♉48'34	0°58'56
minimum elong	-12290 Aug 16 j 04:48	28°♉54'45	0°59'32
	-12290 Aug 17 j 14:07	0°♊	
	-12290 Sep 24 j 22:33	0°♋	
morning rise	-12290 Oct 19 j 08:44	18°♋51'22	
	-12290 Nov 03 j 00:25	0°♌	
desc. node	-12290 Nov 12 j 15:03	7°♌13'20	
	-12290 Dec 13 j 15:06	0°♍	
	-12289 Jan 25 j 11:33	0°♎	
	-12289 Mar 12 j 08:30	0°♏	
	-12289 May 02 j 02:17	0°♐	
	-12289 Jul 13 j 05:29	0°♑	
retrograde	-12289 Jul 31 j 08:00	1°♑54'28	
	-12289 Aug 17 j 06:02	30°℞♐	
opposition	-12289 Sep 08 j 12:35	22°♐30'56	-2°38'06
greatest brilliancy	-12289 Sep 08 j 17:22	22°♐26'09	-1.4m
min. Earth dist.	-12289 Sep 10 j 09:22	21°♐46'05	0.65919 AU
direct	-12289 Oct 19 j 01:32	12°♐36'13	
asc. node	-12289 Nov 14 j 18:48	16°♐33'55	
	-12289 Dec 19 j 18:34	0°♑	
	-12288 Feb 12 j 06:56	0°♒	
	-12288 Mar 29 j 08:11	0°♓	
	-12288 May 10 j 10:44	0°♈	
	-12288 Jun 19 j 05:17	0°♉	
	-12288 Jul 27 j 19:19	0°♊	
evening set	-12288 Aug 19 j 03:23	17°♊28'32	
	-12288 Sep 04 j 05:14	0°♋	
desc. node	-12288 Sep 29 j 09:50	19°♋24'17	
	-12288 Oct 13 j 09:00	0°♌	
conjunction	-12288 Oct 19 j 22:01	4°♌54'56	-0°15'18
minimum elong	-12288 Oct 19 j 20:48	4°♌52'40	0°14'40

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

behind sun begin	-12288 Oct 19 j 10:00	4°♌32'26	
behind sun end	-12288 Oct 20 j 07:37	5°♌12'54	
	-12288 Nov 23 j 00:34	0°♍	
max. Earth dist.	-12288 Dec 01 j 21:25	6°♍21'53	2.46910 AU
morning rise	-12288 Dec 18 j 23:43	18°♍26'33	
	-12287 Jan 04 j 16:21	0°♎	
	-12287 Feb 18 j 15:03	0°♏	
	-12287 Apr 07 j 02:19	0°♐	
	-12287 May 28 j 04:48	0°♑	
	-12287 Jul 30 j 08:13	0°♒	
retrograde	-12287 Sep 06 j 22:39	7°♒38'59	
asc. node	-12287 Oct 01 j 22:15	3°♒36'16	
	-12287 Oct 12 j 04:09	30°℞♑	
opposition	-12287 Oct 14 j 08:56	29°♑09'20	0°33'26
greatest brilliancy	-12287 Oct 14 j 11:19	29°♑07'02	-1.7m
min. Earth dist.	-12287 Oct 19 j 19:25	27°♑03'14	0.60342 AU
direct	-12287 Nov 23 j 20:47	19°♑18'46	
	-12286 Jan 07 j 19:53	0°♒	
	-12286 Mar 04 j 13:01	0°♓	
	-12286 Apr 18 j 03:09	0°♈	
	-12286 May 28 j 22:37	0°♉	
	-12286 Jul 07 j 03:32	0°♊	
	-12286 Aug 15 j 01:23	0°♋	
desc. node	-12286 Aug 17 j 10:03	1°♋48'34	
	-12286 Sep 23 j 16:07	0°♌	
evening set	-12286 Oct 19 j 14:06	19°♌05'15	
	-12286 Nov 03 j 17:17	0°♍	
conjunction	-12286 Dec 14 j 01:53	28°♍15'12	-1°07'58
minimum elong	-12286 Dec 14 j 00:06	28°♍12'07	1°07'55
	-12286 Dec 16 j 15:10	0°♎	
max. Earth dist.	-12285 Jan 10 j 04:48	16°♎35'17	2.58057 AU
	-12285 Jan 30 j 11:30	0°♏	
morning rise	-12285 Feb 04 j 19:37	3°♏29'36	
	-12285 Mar 18 j 00:37	0°♐	
	-12285 May 05 j 00:42	0°♑	
	-12285 Jun 23 j 22:29	0°♒	
	-12285 Aug 18 j 03:30	0°♓	
asc. node	-12285 Aug 19 j 20:29	0°♓49'30	
retrograde	-12285 Oct 25 j 15:19	20°♓33'02	
opposition	-12285 Nov 29 j 01:38	13°♓33'24	4°46'59
greatest brilliancy	-12285 Nov 30 j 06:54	13°♓07'55	-2.1m
min. Earth dist.	-12285 Dec 07 j 00:09	10°♓48'23	0.49666 AU
direct	-12284 Jan 06 j 01:06	5°♓00'13	
	-12284 Mar 16 j 17:24	0°♈	
	-12284 May 01 j 23:16	0°♉	
	-12284 Jun 12 j 14:09	0°♊	
desc. node	-12284 Jul 04 j 14:58	16°♊18'18	
	-12284 Jul 23 j 02:06	0°♋	
	-12284 Sep 01 j 22:30	0°♌	
	-12284 Oct 13 j 23:22	0°♍	
	-12284 Nov 26 j 14:40	0°♎	
evening set	-12284 Dec 07 j 07:37	7°♎11'22	
	-12283 Jan 10 j 20:23	0°♏	
conjunction	-12283 Jan 26 j 18:59	10°♏22'04	-1°12'30
minimum elong	-12283 Jan 26 j 19:53	10°♏23'31	1°12'59
max. Earth dist.	-12283 Feb 06 j 04:44	17°♏05'35	2.64770 AU
	-12283 Feb 26 j 06:46	0°♐	
morning rise	-12283 Mar 16 j 07:04	11°♐31'06	
	-12283 Apr 14 j 06:58	0°♑	
	-12283 May 31 j 09:29	0°♒	
asc. node	-12283 Jul 06 j 13:37	23°♒00'46	
	-12283 Jul 17 j 14:24	0°♓	
	-12283 Sep 03 j 19:17	0°♈	
	-12283 Oct 26 j 11:31	0°♉	
retrograde	-12282 Jan 02 j 07:20	21°♉24'26	

opposition	-12282 Feb 02 j 04:49	16°♉12'48	6°50'31
greatest brilliancy	-12282 Feb 03 j 03:01	15°♉57'30	-2.8m
min. Earth dist.	-12282 Feb 05 j 14:04	15°♉17'00	0.39311 AU
direct	-12282 Mar 05 j 23:07	10°♉38'08	
	-12282 May 05 j 18:45	0°♊	
desc. node	-12282 May 22 j 20:36	9°♊37'16	
	-12282 Jun 24 j 13:25	0°♋	
	-12282 Aug 08 j 18:32	0°♌	
	-12282 Sep 22 j 11:06	0°♍	
	-12282 Nov 06 j 18:54	0°♎	
	-12282 Dec 23 j 00:43	0°♏	
evening set	-12281 Jan 18 j 09:16	16°♏54'02	
	-12281 Feb 07 j 21:08	0°♐	
max. Earth dist.	-12281 Mar 02 j 22:12	14°♐44'19	2.66235 AU
conjunction	-12281 Mar 07 j 16:05	17°♐46'44	-0°44'04
minimum elong	-12281 Mar 07 j 17:34	17°♐49'07	0°44'45
	-12281 Mar 26 j 16:25	0°♑	
morning rise	-12281 Apr 23 j 16:32	18°♑09'03	
	-12281 May 11 j 18:39	0°♒	
asc. node	-12281 May 24 j 04:50	8°♒12'30	
	-12281 Jun 25 j 18:17	0°♓	
	-12281 Aug 08 j 15:17	0°♈	
	-12281 Sep 20 j 17:45	0°♉	
	-12281 Nov 02 j 19:50	0°♊	
	-12281 Dec 17 j 19:04	0°♋	
	-12280 Feb 12 j 09:09	0°♌	
retrograde	-12280 Mar 15 j 03:44	6°♌22'18	
desc. node	-12280 Apr 09 j 01:08	2°♌18'46	
min. Earth dist.	-12280 Apr 11 j 16:26	1°♌30'59	0.42646 AU
	-12280 Apr 16 j 12:11	30°℞♋	
opposition	-12280 Apr 18 j 22:16	29°♋13'57	-0°42'12
greatest brilliancy	-12280 Apr 18 j 17:01	29°♋18'06	-2.6m
direct	-12280 May 20 j 12:54	23°♋16'39	
	-12280 Jun 24 j 04:14	0°♌	
	-12280 Aug 24 j 21:05	0°♍	
	-12280 Oct 14 j 10:58	0°♎	
	-12280 Dec 02 j 03:36	0°♏	
	-12279 Jan 19 j 03:48	0°♐	
evening set	-12279 Feb 25 j 21:53	23°♐57'39	
	-12279 Mar 07 j 07:28	0°♑	
max. Earth dist.	-12279 Mar 27 j 09:26	13°♑01'39	2.62402 AU
asc. node	-12279 Apr 09 j 22:21	21°♑55'08	
conjunction	-12279 Apr 15 j 08:29	25°♑30'22	0°03'25
minimum elong	-12279 Apr 15 j 08:20	25°♑30'08	0°02'44
behind sun begin	-12279 Apr 14 j 12:26	24°♑57'09	
behind sun end	-12279 Apr 16 j 04:15	26°♑03'08	
	-12279 Apr 22 j 02:38	0°♒	
morning rise	-12279 Jun 02 j 11:46	28°♒07'38	
	-12279 Jun 05 j 04:34	0°♓	
	-12279 Jul 17 j 13:00	0°♈	
	-12279 Aug 27 j 11:17	0°♉	
	-12279 Oct 06 j 13:08	0°♊	
	-12279 Nov 15 j 14:09	0°♋	
	-12279 Dec 26 j 21:06	0°♌	
	-12278 Feb 09 j 23:57	0°♍	
desc. node	-12278 Feb 25 j 01:10	8°♍52'10	
	-12278 Apr 15 j 05:28	0°♎	
retrograde	-12278 May 04 j 20:27	2°♎29'38	
	-12278 May 23 j 11:51	30°℞♍	
min. Earth dist.	-12278 Jun 05 j 16:51	25°♍41'24	0.54650 AU
greatest brilliancy	-12278 Jun 11 j 09:34	23°♍31'13	-1.9m
opposition	-12278 Jun 12 j 14:30	23°♍03'33	-4°58'57
direct	-12278 Jul 18 j 02:02	15°♍09'32	
	-12278 Sep 12 j 00:28	0°♎	
	-12278 Nov 09 j 03:18	0°♏	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12278 Dec 30 j 04:11	0°♐	
	-12277 Feb 16 j 11:32	0°♑	
asc. node	-12277 Feb 25 j 21:04	6°♑00'10	
	-12277 Apr 03 j 12:51	0°♒	
evening set	-12277 Apr 08 j 08:03	3°♒12'56	
max. Earth dist.	-12277 Apr 27 j 03:14	15°♒58'37	2.53651 AU
	-12277 May 17 j 07:45	0°♓	
conjunction	-12277 May 29 j 11:58	8°♓37'03	0°53'32
minimum elong	-12277 May 29 j 09:56	8°♓33'25	0°53'13
	-12277 Jun 28 j 00:09	0°♈	
morning rise	-12277 Jul 21 j 13:10	17°♈31'30	
	-12277 Aug 07 j 00:37	0°♉	
	-12277 Sep 15 j 01:21	0°♊	
	-12277 Oct 23 j 21:51	0°♋	
	-12277 Dec 02 j 12:38	0°♌	
desc. node	-12276 Jan 12 j 18:47	29°♌49'43	
	-12276 Jan 13 j 00:41	0°♍	
	-12276 Feb 27 j 03:29	0°♎	
	-12276 Apr 21 j 13:40	0°♏	
retrograde	-12276 Jun 12 j 01:09	13°♏34'24	
min. Earth dist.	-12276 Jul 18 j 13:20	5°♏00'35	0.63514 AU
opposition	-12276 Jul 21 j 22:34	3°♏39'01	-5°10'06
greatest brilliancy	-12276 Jul 21 j 08:52	3°♏52'46	-1.5m
	-12276 Jul 31 j 10:26	30°℞♎	
direct	-12276 Aug 29 j 07:14	24°♎32'58	
	-12276 Sep 30 j 06:04	0°♏	
	-12276 Dec 05 j 13:10	0°♐	
asc. node	-12275 Jan 13 j 01:15	22°♐02'56	
	-12275 Jan 26 j 04:34	0°♑	
	-12275 Mar 14 j 07:55	0°♒	
	-12275 Apr 27 j 08:02	0°♓	
evening set	-12275 May 25 j 21:40	20°♓29'09	
	-12275 Jun 07 j 19:51	0°♈	
max. Earth dist.	-12275 Jun 16 j 04:36	6°♈14'04	2.41914 AU
	-12275 Jul 17 j 11:12	0°♉	
conjunction	-12275 Jul 22 j 03:19	3°♉36'06	1°11'59
minimum elong	-12275 Jul 22 j 04:25	3°♉38'13	1°12'22
	-12275 Aug 25 j 01:19	0°♊	
morning rise	-12275 Sep 22 j 06:17	22°♊03'22	
	-12275 Oct 02 j 11:12	0°♋	
	-12275 Nov 10 j 14:12	0°♌	
desc. node	-12275 Nov 29 j 10:44	14°♌04'49	
	-12275 Dec 21 j 06:56	0°♍	
	-12274 Feb 02 j 09:30	0°♎	
	-12274 Mar 21 j 02:26	0°♏	
	-12274 May 14 j 05:37	0°♐	
retrograde	-12274 Jul 17 j 12:14	18°♐47'43	
opposition	-12274 Aug 26 j 02:24	9°♐10'01	-3°34'23
greatest brilliancy	-12274 Aug 26 j 04:14	9°♐08'12	-1.4m
min. Earth dist.	-12274 Aug 26 j 11:58	9°♐00'23	0.66455 AU
	-12274 Sep 25 j 15:49	30°℞♏	
direct	-12274 Oct 05 j 05:51	29°♏23'51	
	-12274 Oct 15 j 06:13	0°♐	
asc. node	-12274 Dec 01 j 08:01	14°♐28'36	
	-12273 Jan 01 j 13:39	0°♑	
	-12273 Feb 21 j 07:04	0°♒	
	-12273 Apr 07 j 09:41	0°♓	
	-12273 May 19 j 04:53	0°♈	
	-12273 Jun 27 j 20:37	0°♉	
evening set	-12273 Jul 25 j 09:03	21°♉23'10	
	-12273 Aug 05 j 09:07	0°♊	
	-12273 Sep 12 j 17:24	0°♋	
conjunction	-12273 Sep 25 j 21:33	10°♋12'37	0°16'08
minimum elong	-12273 Sep 25 j 23:03	10°♋15'30	0°16'50
desc. node	-12273 Oct 17 j 05:01	26°♋31'39	
	-12273 Oct 21 j 19:04	0°♌	
max. Earth dist.	-12273 Nov 07 j 12:49	12°♌32'26	2.42081 AU
morning rise	-12273 Nov 27 j 20:35	27°♌27'43	
	-12273 Dec 01 j 08:44	0°♍	
	-12272 Jan 13 j 00:10	0°♎	
	-12272 Feb 27 j 03:36	0°♏	
	-12272 Apr 15 j 09:30	0°♐	
	-12272 Jun 08 j 09:43	0°♑	
retrograde	-12272 Aug 22 j 05:06	23°♑27'49	
opposition	-12272 Sep 29 j 11:06	14°♑33'42	-0°48'57
greatest brilliancy	-12272 Sep 29 j 14:27	14°♑30'24	-1.5m
min. Earth dist.	-12272 Oct 03 j 13:09	12°♑57'10	0.63215 AU
asc. node	-12272 Oct 18 j 13:41	7°♑43'10	
direct	-12272 Nov 09 j 04:11	4°♑36'04	
	-12271 Jan 24 j 08:27	0°♒	
	-12271 Mar 14 j 20:25	0°♓	
	-12271 Apr 27 j 01:23	0°♈	
	-12271 Jun 06 j 07:25	0°♉	
	-12271 Jul 15 j 04:26	0°♊	
	-12271 Aug 22 j 20:00	0°♋	
desc. node	-12271 Sep 03 j 02:38	8°♋40'40	
evening set	-12271 Sep 27 j 00:36	26°♋51'37	
	-12271 Oct 01 j 04:52	0°♌	
	-12271 Nov 11 j 00:47	0°♍	
conjunction	-12271 Nov 24 j 04:13	9°♍22'44	-0°53'39
minimum elong	-12271 Nov 24 j 01:39	9°♍18'12	0°53'21
	-12271 Dec 23 j 18:38	0°♎	
max. Earth dist.	-12271 Dec 28 j 05:45	3°♎03'06	2.54111 AU
morning rise	-12270 Jan 18 j 11:04	17°♎21'54	
	-12270 Feb 06 j 13:50	0°♏	
	-12270 Mar 25 j 07:56	0°♐	
	-12270 May 13 j 02:57	0°♑	
	-12270 Jul 04 j 11:10	0°♒	
asc. node	-12270 Sep 05 j 14:12	27°♒57'16	
	-12270 Sep 13 j 10:11	0°♓	
retrograde	-12270 Oct 04 j 19:42	2°♓36'00	
	-12270 Oct 24 j 21:09	30°℞♒	
opposition	-12270 Nov 09 j 14:12	24°♒55'24	3°03'17
greatest brilliancy	-12270 Nov 10 j 07:26	24°♒39'32	-1.9m
min. Earth dist.	-12270 Nov 16 j 20:10	22°♒15'39	0.54307 AU
direct	-12270 Dec 18 j 23:20	15°♒38'21	
	-12269 Feb 08 j 19:29	0°♓	
	-12269 Apr 01 j 03:04	0°♈	
	-12269 May 13 j 22:33	0°♉	
	-12269 Jun 23 j 04:06	0°♊	
desc. node	-12269 Jul 22 j 05:33	22°♊00'28	
	-12269 Aug 01 j 19:22	0°♋	
	-12269 Sep 11 j 00:10	0°♌	
	-12269 Oct 22 j 12:58	0°♍	
evening set	-12269 Nov 20 j 05:31	20°♍01'52	
	-12269 Dec 04 j 19:23	0°♎	
conjunction	-12268 Jan 11 j 07:26	25°♎03'51	-1°15'33
minimum elong	-12268 Jan 11 j 07:26	25°♎03'51	1°15'51
	-12268 Jan 18 j 19:48	0°♏	
max. Earth dist.	-12268 Jan 27 j 22:32	5°♏57'15	2.62761 AU
morning rise	-12268 Mar 01 j 02:28	27°♏21'45	
	-12268 Mar 05 j 05:23	0°♐	
	-12268 Apr 21 j 11:49	0°♑	
	-12268 Jun 08 j 08:27	0°♒	
asc. node	-12268 Jul 23 j 08:37	27°♒36'56	
	-12268 Jul 27 j 08:00	0°♓	
	-12268 Sep 18 j 07:38	0°♈	
retrograde	-12268 Dec 03 j 07:30	24°♈47'45	
opposition	-12267 Jan 04 j 05:03	19°♈01'52	6°57'17

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

greatest brilliancy	-12267 Jan 05 j 19:09	18°♈33'01	-2.5m
min. Earth dist.	-12267 Jan 11 j 00:58	16°♈58'11	0.42539 AU
direct	-12267 Feb 07 j 17:26	12°♈15'34	
	-12267 Apr 05 j 14:05	0°♉	
	-12267 May 24 j 12:33	0°♊	
desc. node	-12267 Jun 08 j 12:54	10°♊10'37	
	-12267 Jul 07 j 00:51	0°♋	
	-12267 Aug 18 j 16:44	0°♌	
	-12267 Sep 30 j 23:02	0°♍	
	-12267 Nov 14 j 10:04	0°♎	
	-12267 Dec 30 j 03:46	0°♏	
evening set	-12266 Jan 02 j 15:16	2°♏15'15	
	-12266 Feb 14 j 18:30	0°♐	
conjunction	-12266 Feb 20 j 11:36	3°♐39'26	-0°58'01
minimum elong	-12266 Feb 20 j 13:09	3°♐41'56	0°58'40
max. Earth dist.	-12266 Feb 21 j 14:07	4°♐21'52	2.66295 AU
	-12266 Apr 02 j 14:08	0°♑	
morning rise	-12266 Apr 08 j 18:44	3°♑58'54	
	-12266 May 18 j 23:15	0°♒	
asc. node	-12266 Jun 09 j 23:45	14°♒25'06	
	-12266 Jul 03 j 14:03	0°♓	
	-12266 Aug 17 j 13:40	0°♈	
	-12266 Oct 01 j 12:20	0°♉	
	-12266 Nov 17 j 00:44	0°♊	
	-12265 Jan 12 j 03:34	0°♋	
retrograde	-12265 Feb 18 j 11:56	8°♋17'37	
min. Earth dist.	-12265 Mar 18 j 17:13	3°♋35'46	0.39368 AU
opposition	-12265 Mar 22 j 20:42	2°♋25'11	2°39'16
greatest brilliancy	-12265 Mar 22 j 14:03	2°♋29'54	-2.8m
	-12265 Mar 31 j 20:32	30°℞♊	
direct	-12265 Apr 22 j 09:41	27°♊09'09	
desc. node	-12265 Apr 26 j 18:24	27°♊16'38	
	-12265 May 13 j 23:26	0°♋	
	-12265 Jul 19 j 02:51	0°♌	
	-12265 Sep 06 j 18:45	0°♍	
	-12265 Oct 24 j 09:34	0°♎	
	-12265 Dec 10 j 19:55	0°♏	
	-12264 Jan 27 j 06:08	0°♐	
evening set	-12264 Feb 11 j 13:59	9°♐44'22	
	-12264 Mar 14 j 05:01	0°♑	
max. Earth dist.	-12264 Mar 17 j 04:14	1°♑54'57	2.64522 AU
conjunction	-12264 Mar 30 j 16:49	10°♑41'09	-0°16'26
minimum elong	-12264 Mar 30 j 17:30	10°♑42'17	0°17'08
asc. node	-12264 Apr 26 j 16:03	28°♑24'16	
	-12264 Apr 29 j 01:44	0°♒	
morning rise	-12264 May 17 j 01:09	12°♒01'44	
	-12264 Jun 12 j 10:18	0°♓	
	-12264 Jul 25 j 05:50	0°♈	
	-12264 Sep 04 j 18:50	0°♉	
	-12264 Oct 15 j 14:50	0°♊	
	-12264 Nov 25 j 15:50	0°♋	
	-12263 Jan 07 j 17:29	0°♌	
	-12263 Feb 27 j 20:26	0°♍	
desc. node	-12263 Mar 13 j 18:54	6°♍02'39	
retrograde	-12263 Apr 17 j 03:11	13°♍17'46	
min. Earth dist.	-12263 May 16 j 22:53	7°♍18'32	0.49978 AU
opposition	-12263 May 24 j 18:31	4°♍28'41	-4°01'07
greatest brilliancy	-12263 May 23 j 14:40	4°♍54'03	-2.2m
	-12263 Jun 07 j 13:34	30°℞♌	
direct	-12263 Jun 27 j 20:41	27°♌14'56	
	-12263 Jul 19 j 09:17	0°♍	
	-12263 Sep 27 j 00:03	0°♎	
	-12263 Nov 18 j 10:46	0°♏	
	-12262 Jan 06 j 21:54	0°♐	
	-12262 Feb 23 j 15:24	0°♑	
asc. node	-12262 Mar 14 j 13:01	12°♑11'52	
evening set	-12262 Mar 22 j 16:46	17°♑31'39	
	-12262 Apr 10 j 13:03	0°♒	
max. Earth dist.	-12262 Apr 14 j 04:41	2°♒26'40	2.57613 AU
conjunction	-12262 May 11 j 10:35	20°♒58'56	0°35'16
minimum elong	-12262 May 11 j 09:05	20°♒56'20	0°34'46
	-12262 May 24 j 09:50	0°♓	
morning rise	-12262 Jun 30 j 23:48	26°♓50'51	
	-12262 Jul 05 j 07:29	0°♈	
	-12262 Aug 14 j 14:54	0°♉	
	-12262 Sep 22 j 23:09	0°♊	
	-12262 Nov 01 j 03:27	0°♋	
	-12262 Dec 11 j 03:39	0°♌	
	-12261 Jan 22 j 09:10	0°♍	
desc. node	-12261 Jan 29 j 15:12	4°♍53'56	
	-12261 Mar 10 j 15:36	0°♎	
retrograde	-12261 May 29 j 14:06	28°♎51'24	
min. Earth dist.	-12261 Jul 03 j 09:52	20°♎54'52	0.60707 AU
greatest brilliancy	-12261 Jul 07 j 09:26	19°♎20'00	-1.6m
opposition	-12261 Jul 08 j 06:22	18°♎59'12	-5°22'52
direct	-12261 Aug 14 j 15:15	10°♎16'44	
	-12261 Oct 20 j 21:47	0°♏	
	-12261 Dec 16 j 04:49	0°♐	
asc. node	-12260 Jan 30 j 15:22	27°♐13'44	
	-12260 Feb 04 j 02:15	0°♑	
	-12260 Mar 21 j 16:27	0°♒	
	-12260 May 04 j 13:16	0°♓	
evening set	-12260 May 05 j 18:47	0°♓51'57	
max. Earth dist.	-12260 May 22 j 09:14	12°♓41'34	2.46541 AU
	-12260 Jun 15 j 02:07	0°♈	
conjunction	-12260 Jun 29 j 05:56	10°♈33'34	1°12'04
minimum elong	-12260 Jun 29 j 04:53	10°♈31'35	1°12'11
	-12260 Jul 24 j 20:14	0°♉	
morning rise	-12260 Aug 26 j 17:18	25°♉26'51	
	-12260 Sep 01 j 13:31	0°♊	
	-12260 Oct 10 j 02:23	0°♋	
	-12260 Nov 18 j 08:11	0°♌	
desc. node	-12260 Dec 16 j 07:42	20°♌42'28	
	-12260 Dec 29 j 05:07	0°♍	
	-12259 Feb 10 j 18:21	0°♎	
	-12259 Mar 30 j 21:59	0°♏	
	-12259 Jun 02 j 02:29	0°♐	
retrograde	-12259 Jul 03 j 20:07	5°♐35'31	
	-12259 Aug 01 j 21:11	30°℞♏	
opposition	-12259 Aug 12 j 16:26	25°♏47'18	-4°20'34
min. Earth dist.	-12259 Aug 11 j 14:14	26°♏13'44	0.66051 AU
greatest brilliancy	-12259 Aug 12 j 13:10	25°♏50'35	-1.4m
direct	-12259 Sep 21 j 06:36	16°♏13'41	
	-12259 Nov 14 j 14:11	0°♐	
asc. node	-12259 Dec 17 j 22:17	16°♐09'40	
	-12258 Jan 11 j 19:21	0°♑	
	-12258 Mar 01 j 14:22	0°♒	
	-12258 Apr 15 j 03:12	0°♓	
	-12258 May 26 j 18:05	0°♈	
evening set	-12258 Jun 30 j 09:34	26°♈10'52	
	-12258 Jul 05 j 08:36	0°♉	
	-12258 Aug 12 j 20:39	0°♊	
conjunction	-12258 Aug 30 j 19:26	14°♊04'37	0°45'48
minimum elong	-12258 Aug 30 j 22:47	14°♊11'11	0°46'27
max. Earth dist.	-12258 Sep 18 j 00:01	28°♊17'52	2.38552 AU
	-12258 Sep 20 j 04:29	0°♋	
	-12258 Oct 29 j 05:25	0°♌	
desc. node	-12258 Nov 02 j 23:49	3°♌35'48	
morning rise	-12258 Nov 03 j 07:19	3°♌49'53	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12258 Dec 08 j 18:39	0°♍	
	-12257 Jan 20 j 11:52	0°♎	
	-12257 Mar 06 j 23:52	0°♏	
	-12257 Apr 25 j 12:12	0°♐	
	-12257 Jun 24 j 21:42	0°♑	
retrograde	-12257 Aug 08 j 11:45	9°♑56'18	
opposition	-12257 Sep 16 j 09:32	0°♑42'04	-2°00'54
greatest brilliancy	-12257 Sep 16 j 14:42	0°♑36'55	-1.4m
	-12257 Sep 18 j 03:42	30°℞♐	
min. Earth dist.	-12257 Sep 19 j 01:08	29°♐38'39	0.65228 AU
direct	-12257 Oct 27 j 01:28	20°♐44'51	
asc. node	-12257 Nov 05 j 04:24	21°♐15'21	
	-12257 Dec 08 j 13:43	0°♑	
	-12256 Feb 05 j 22:54	0°♒	
	-12256 Mar 23 j 22:53	0°♓	
	-12256 May 05 j 09:54	0°♈	
	-12256 Jun 14 j 08:11	0°♉	
	-12256 Jul 23 j 00:14	0°♊	
	-12256 Aug 30 j 11:26	0°♋	
evening set	-12256 Sep 02 j 12:22	2°♋21'19	
desc. node	-12256 Sep 19 j 21:19	15°♋44'11	
	-12256 Oct 08 j 15:53	0°♌	
conjunction	-12256 Nov 02 j 06:35	18°♌19'01	-0°31'15
minimum elong	-12256 Nov 02 j 04:23	18°♌14'59	0°30'44
	-12256 Nov 18 j 07:43	0°♍	
max. Earth dist.	-12256 Dec 12 j 20:11	17°♍26'18	2.49560 AU
morning rise	-12256 Dec 30 j 14:52	29°♍46'13	
	-12256 Dec 30 j 22:54	0°♎	
	-12255 Feb 13 j 18:48	0°♏	
	-12255 Apr 01 j 21:35	0°♐	
	-12255 May 21 j 21:52	0°♑	
	-12255 Jul 17 j 23:01	0°♒	
retrograde	-12255 Sep 16 j 13:29	16°♒37'16	
asc. node	-12255 Sep 22 j 06:33	16°♒24'39	
opposition	-12255 Oct 23 j 11:10	8°♒23'17	1°25'29
greatest brilliancy	-12255 Oct 23 j 17:59	8°♒16'47	-1.7m
min. Earth dist.	-12255 Oct 29 j 14:17	6°♒03'10	0.58401 AU
	-12255 Nov 18 j 19:35	30°℞♑	
direct	-12255 Dec 02 j 16:13	28°♑41'04	
	-12255 Dec 17 j 04:39	0°♒	
	-12254 Feb 25 j 00:45	0°♓	
	-12254 Apr 12 j 02:22	0°♈	
	-12254 May 23 j 10:55	0°♉	
	-12254 Jul 01 j 22:52	0°♊	
desc. node	-12254 Aug 07 j 22:46	28°♊22'45	
	-12254 Aug 10 j 01:42	0°♋	
	-12254 Sep 18 j 20:05	0°♌	
	-12254 Oct 30 j 00:00	0°♍	
evening set	-12254 Oct 31 j 12:46	1°♍05'33	
	-12254 Dec 11 j 23:33	0°♎	
conjunction	-12254 Dec 24 j 17:07	8°♎38'22	-1°12'40
minimum elong	-12254 Dec 24 j 15:58	8°♎36'27	1°12'45
max. Earth dist.	-12253 Jan 17 j 00:44	24°♎12'14	2.59917 AU
	-12253 Jan 25 j 20:01	0°♏	
morning rise	-12253 Feb 14 j 06:43	12°♏40'23	
	-12253 Mar 13 j 06:33	0°♐	
	-12253 Apr 29 j 22:36	0°♑	
	-12253 Jun 17 j 22:07	0°♒	
	-12253 Aug 08 j 23:30	0°♓	
asc. node	-12253 Aug 10 j 03:06	0°♓37'18	
	-12253 Oct 19 j 04:11	0°♈	
retrograde	-12253 Nov 07 j 20:17	2°♈14'41	
	-12253 Nov 26 j 18:02	30°℞♓	
opposition	-12253 Dec 11 j 10:17	25°♓40'51	5°42'59
greatest brilliancy	-12253 Dec 12 j 21:34	25°♓11'27	-2.3m
min. Earth dist.	-12253 Dec 19 j 10:38	23°♓01'28	0.47022 AU
direct	-12252 Jan 17 j 09:01	17°♓40'58	
	-12252 Mar 03 j 16:15	0°♈	
	-12252 Apr 24 j 00:57	0°♉	
	-12252 Jun 06 j 01:33	0°♊	
desc. node	-12252 Jun 25 j 03:39	13°♊49'59	
	-12252 Jul 17 j 07:05	0°♋	
	-12252 Aug 27 j 14:55	0°♌	
	-12252 Oct 08 j 23:45	0°♍	
	-12252 Nov 21 j 20:25	0°♎	
evening set	-12252 Dec 17 j 03:34	16°♎50'25	
	-12251 Jan 06 j 05:10	0°♏	
conjunction	-12251 Feb 04 j 22:42	19°♏15'16	-1°08'25
minimum elong	-12251 Feb 04 j 23:57	19°♏17'16	1°08'58
max. Earth dist.	-12251 Feb 11 j 22:47	23°♏45'31	2.65531 AU
	-12251 Feb 21 j 16:08	0°♐	
morning rise	-12251 Mar 24 j 22:05	19°♐59'25	
	-12251 Apr 09 j 13:59	0°♑	
	-12251 May 26 j 09:04	0°♒	
asc. node	-12251 Jun 26 j 19:20	20°♒15'13	
	-12251 Jul 11 j 21:41	0°♓	
	-12251 Aug 27 j 15:06	0°♈	
	-12251 Oct 15 j 03:33	0°♉	
	-12251 Dec 12 j 14:03	0°♊	
retrograde	-12250 Jan 19 j 22:38	8°♊13'04	
opposition	-12250 Feb 19 j 17:34	3°♊03'11	5°49'22
greatest brilliancy	-12250 Feb 20 j 02:08	2°♊57'28	-2.8m
min. Earth dist.	-12250 Feb 20 j 11:49	2°♊50'59	0.38540 AU
	-12250 Mar 03 j 21:38	30°℞♉	
direct	-12250 Mar 22 j 11:19	27°♉51'15	
	-12250 Apr 09 j 23:26	0°♊	
desc. node	-12250 May 13 j 09:55	12°♊20'51	
	-12250 Jun 14 j 21:38	0°♋	
	-12250 Aug 01 j 20:11	0°♌	
	-12250 Sep 16 j 16:57	0°♍	
	-12250 Nov 01 j 15:41	0°♎	
	-12250 Dec 18 j 05:39	0°♏	
evening set	-12249 Jan 27 j 06:22	25°♏32'47	
	-12249 Feb 03 j 06:01	0°♐	
max. Earth dist.	-12249 Mar 08 j 11:43	21°♐14'54	2.65841 AU
conjunction	-12249 Mar 16 j 09:46	26°♐20'11	-0°34'36
minimum elong	-12249 Mar 16 j 11:03	26°♐22'15	0°35'19
	-12249 Mar 22 j 02:15	0°♑	
morning rise	-12249 May 02 j 10:30	26°♑55'55	
	-12249 May 07 j 02:08	0°♒	
asc. node	-12249 May 14 j 10:50	4°♒52'30	
	-12249 Jun 20 j 19:50	0°♓	
	-12249 Aug 03 j 06:26	0°♈	
	-12249 Sep 14 j 16:54	0°♉	
	-12249 Oct 26 j 18:04	0°♊	
	-12249 Dec 08 j 16:40	0°♋	
	-12248 Jan 25 j 09:14	0°♌	
retrograde	-12248 Mar 27 j 23:57	20°♌58'43	
desc. node	-12248 Mar 30 j 13:13	20°♌55'56	
min. Earth dist.	-12248 Apr 25 j 00:51	15°♌47'01	0.45122 AU
opposition	-12248 May 02 j 22:10	13°♌09'09	-2°12'09
greatest brilliancy	-12248 May 02 j 05:23	13°♌23'14	-2.5m
direct	-12248 Jun 04 j 11:16	6°♌43'40	
	-12248 Aug 15 j 14:20	0°♍	
	-12248 Oct 08 j 04:51	0°♎	
	-12248 Nov 26 j 21:38	0°♏	
	-12247 Jan 14 j 08:13	0°♐	
	-12247 Mar 02 j 16:28	0°♑	
evening set	-12247 Mar 06 j 19:07	2°♑38'51	
asc. node	-12247 Mar 31 j 05:55	18°♑33'32	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

max. Earth dist.	-12247 Apr 02 j 13:49	20°♉05'30	2.60901 AU	
	-12247 Apr 17 j 12:34	0°♒		
conjunction	-12247 Apr 24 j 14:04	4°♒43'40	0°15'07	
minimum elong	-12247 Apr 24 j 13:25	4°♒42'35	0°14'30	
behind sun begin	-12247 Apr 24 j 04:43	4°♒27'59		
behind sun end	-12247 Apr 24 j 22:07	4°♒57'12		
	-12247 May 31 j 12:48	0°♓		
morning rise	-12247 Jun 12 j 09:42	8°♓19'07		
	-12247 Jul 12 j 17:10	0°♈		
	-12247 Aug 22 j 09:35	0°♉		
	-12247 Oct 01 j 03:56	0°♊		
	-12247 Nov 09 j 19:42	0°♋		
	-12247 Dec 20 j 11:45	0°♌		
	-12246 Feb 02 j 02:29	0°♍		
desc. node	-12246 Feb 15 j 09:59	8°♍25'29		
	-12246 Mar 26 j 19:53	0°♎		
retrograde	-12246 May 14 j 05:25	12°♎50'59		
min. Earth dist.	-12246 Jun 16 j 04:34	5°♎36'57	0.57033 AU	
greatest brilliancy	-12246 Jun 21 j 07:03	3°♎38'01	-1.8m	
opposition	-12246 Jun 22 j 10:03	3°♎11'46	-5°15'32	
	-12246 Jul 01 j 01:09	30°℞♍		
direct	-12246 Jul 28 j 14:47	24°♍58'38		
	-12246 Aug 27 j 20:11	0°♎		
	-12246 Nov 02 j 09:30	0°♏		
	-12246 Dec 24 j 19:44	0°♐		
	-12245 Feb 11 j 15:02	0°♑		
asc. node	-12245 Feb 16 j 06:14	2°♑56'09		
	-12245 Mar 29 j 20:57	0°♒		
evening set	-12245 Apr 18 j 06:21	13°♒04'27		
max. Earth dist.	-12245 May 05 j 14:05	25°♒00'52	2.51251 AU	
	-12245 May 12 j 17:02	0°♓		
conjunction	-12245 Jun 09 j 10:07	19°♓48'05	1°02'10	
minimum elong	-12245 Jun 09 j 08:06	19°♓44'26	1°01'59	
	-12245 Jun 23 j 08:36	0°♈		
	-12245 Aug 02 j 06:58	0°♉		
morning rise	-12245 Aug 03 j 05:03	0°♉42'10		
	-12245 Sep 10 j 04:40	0°♊		
	-12245 Oct 18 j 21:39	0°♋		
	-12245 Nov 27 j 07:48	0°♌		
desc. node	-12244 Jan 03 j 04:28	26°♌56'45		
	-12244 Jan 07 j 11:48	0°♍		
	-12244 Feb 20 j 19:25	0°♎		
	-12244 Apr 11 j 18:40	0°♏		
retrograde	-12244 Jun 20 j 02:56	22°♏04'49		
min. Earth dist.	-12244 Jul 27 j 11:27	13°♏12'48	0.64689 AU	
opposition	-12244 Jul 30 j 01:27	12°♏10'21	-4°55'38	
greatest brilliancy	-12244 Jul 29 j 15:42	12°♏20'10	-1.4m	
direct	-12244 Sep 06 j 21:56	2°♏53'15		
	-12244 Nov 28 j 09:37	0°♐		
asc. node	-12243 Jan 03 j 10:53	19°♐47'49		
	-12243 Jan 20 j 17:26	0°♑		
	-12243 Mar 09 j 09:15	0°♒		
	-12243 Apr 22 j 13:59	0°♓		
	-12243 Jun 03 j 03:18	0°♈		
evening set	-12243 Jun 07 j 03:54	2°♈59'26		
max. Earth dist.	-12243 Jul 08 j 09:44	26°♈38'10	2.39766 AU	
	-12243 Jul 12 j 18:43	0°♉		
conjunction	-12243 Aug 04 j 23:48	18°♉00'05	1°06'15	
minimum elong	-12243 Aug 05 j 02:13	18°♉04'48	1°06'46	
	-12243 Aug 20 j 08:07	0°♊		
	-12243 Sep 27 j 16:59	0°♋		
morning rise	-12243 Oct 07 j 14:28	7°♋40'33		
	-12243 Nov 05 j 18:32	0°♌		
desc. node	-12243 Nov 19 j 21:29	10°♌35'53		
	-12243 Dec 16 j 08:37	0°♍		
	-12242 Jan 28 j 05:44	0°♎		
	-12242 Mar 15 j 07:46	0°♏		
	-12242 May 06 j 01:20	0°♐		
retrograde	-12242 Jul 25 j 10:36	26°♐46'39		
opposition	-12242 Sep 02 j 20:06	17°♐16'09	-3°02'49	
greatest brilliancy	-12242 Sep 02 j 23:47	17°♐12'28	-1.4m	
min. Earth dist.	-12242 Sep 04 j 00:41	16°♐47'27	0.66282 AU	
direct	-12242 Oct 13 j 05:35	7°♐24'48		
asc. node	-12242 Nov 21 j 17:42	15°♐25'53		
	-12242 Dec 24 j 21:03	0°♑		
	-12241 Feb 15 j 14:31	0°♒		
	-12241 Apr 02 j 06:53	0°♓		
	-12241 May 14 j 07:20	0°♈		
	-12241 Jun 23 j 01:19	0°♉		
	-12241 Jul 31 j 14:45	0°♊		
evening set	-12241 Aug 08 j 21:57	6°♊30'04		
	-12241 Sep 07 j 23:39	0°♋		
desc. node	-12241 Oct 07 j 15:26	22°♋50'53		
conjunction	-12241 Oct 10 j 06:10	24°♋50'13	-0°02'00	
minimum elong	-12241 Oct 10 j 06:00	24°♋49'53	0°01'19	
behind sun begin	-12241 Oct 09 j 03:46	24°♋00'01		
behind sun end	-12241 Oct 11 j 08:15	25°♋39'43		
	-12241 Oct 17 j 01:41	0°♌		
max. Earth dist.	-12241 Nov 23 j 03:29	27°♌28'33	2.44706 AU	
	-12241 Nov 26 j 15:07	0°♍		
morning rise	-12241 Dec 10 j 17:22	10°♍06'00		
	-12240 Jan 08 j 05:18	0°♎		
	-12240 Feb 22 j 04:07	0°♏		
	-12240 Apr 09 j 20:46	0°♐		
	-12240 May 31 j 21:16	0°♑		
	-12240 Aug 12 j 18:04	0°♒		
retrograde	-12240 Aug 31 j 01:49	1°♒55'58		
	-12240 Sep 17 j 05:19	30°℞♑		
opposition	-12240 Oct 07 j 21:46	23°♑14'36	-0°02'38	
greatest brilliancy	-12240 Oct 07 j 22:07	23°♑14'15	-1.6m	
asc. node	-12240 Oct 08 j 21:46	22°♑51'10		
min. Earth dist.	-12240 Oct 12 j 17:36	21°♑21'37	0.61746 AU	
direct	-12240 Nov 17 j 12:59	13°♑19'52		
	-12239 Jan 15 j 02:59	0°♒		
	-12239 Mar 08 j 14:05	0°♓		
	-12239 Apr 21 j 13:31	0°♈		
	-12239 Jun 01 j 03:24	0°♉		
	-12239 Jul 10 j 04:36	0°♊		
	-12239 Aug 17 j 23:07	0°♋		
desc. node	-12239 Aug 24 j 14:40	5°♋06'29		
	-12239 Sep 26 j 10:14	0°♌		
evening set	-12239 Oct 10 j 01:39	10°♌08'52		
	-12239 Nov 06 j 07:42	0°♍		
conjunction	-12239 Dec 05 j 17:50	20°♍46'56	-1°02'47	
minimum elong	-12239 Dec 05 j 15:38	20°♍43'06	1°02'39	
	-12239 Dec 19 j 02:29	0°♎		
max. Earth dist.	-12238 Jan 05 j 01:25	11°♎31'00	2.56368 AU	
morning rise	-12238 Jan 28 j 13:34	27°♎10'08		
	-12238 Feb 01 j 20:55	0°♏		
	-12238 Mar 20 j 10:56	0°♐		
	-12238 May 07 j 17:28	0°♑		
	-12238 Jun 27 j 11:08	0°♒		
	-12238 Aug 25 j 06:17	0°♓		
asc. node	-12238 Aug 26 j 20:49	0°♓40'26		
retrograde	-12238 Oct 16 j 06:55	12°♓58'15		
opposition	-12238 Nov 20 j 08:49	5°♓39'16	4°02'12	
greatest brilliancy	-12238 Nov 21 j 08:50	5°♓17'46	-2.0m	
min. Earth dist.	-12238 Nov 28 j 02:13	2°♓54'08	0.51798 AU	
	-12238 Dec 07 j 03:32	30°℞♒		

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

direct	-12238 Dec 29 j 01:46	26°♒44'02	
	-12237 Jan 20 j 21:01	0°♓	
	-12237 Mar 24 j 00:25	0°♈	
	-12237 May 07 j 11:12	0°♉	
	-12237 Jun 17 j 09:22	0°♊	
desc. node	-12237 Jul 12 j 19:01	19°♊01'12	
	-12237 Jul 27 j 10:48	0°♋	
	-12237 Sep 05 j 22:53	0°♌	
	-12237 Oct 17 j 16:47	0°♍	
evening set	-12237 Nov 30 j 17:20	0°♎24'39	
	-12237 Nov 30 j 02:47	0°♎	
	-12236 Jan 14 j 04:55	0°♏	
conjunction	-12236 Jan 20 j 20:52	4°♏21'11	-1°14'25
minimum elong	-12236 Jan 20 j 21:25	4°♏22'05	1°14'49
max. Earth dist.	-12236 Feb 02 j 23:02	12°♏51'29	2.63969 AU
	-12236 Feb 29 j 14:10	0°♐	
morning rise	-12236 Mar 09 j 21:36	5°♐57'18	
	-12236 Apr 16 j 16:37	0°♑	
	-12236 Jun 03 j 02:11	0°♒	
asc. node	-12236 Jul 13 j 14:59	25°♒26'20	
	-12236 Jul 20 j 23:12	0°♓	
	-12236 Sep 08 j 18:05	0°♈	
	-12236 Nov 06 j 19:00	0°♉	
retrograde	-12236 Dec 19 j 21:03	9°♉44'40	
opposition	-12235 Jan 20 j 02:44	4°♉21'12	7°07'27
greatest brilliancy	-12235 Jan 21 j 10:19	3°♉58'32	-2.7m
min. Earth dist.	-12235 Jan 25 j 07:16	2°♉52'18	0.40509 AU
	-12235 Feb 05 j 21:24	30°℞♈	
direct	-12235 Feb 22 j 00:49	28°♈17'28	
	-12235 Mar 10 j 02:55	0°♉	
	-12235 May 14 j 16:06	0°♊	
desc. node	-12235 May 30 j 00:48	9°♊38'31	
	-12235 Jun 29 j 19:03	0°♋	
	-12235 Aug 12 j 15:56	0°♌	
	-12235 Sep 25 j 14:38	0°♍	
	-12235 Nov 09 j 11:41	0°♎	
	-12235 Dec 25 j 10:59	0°♏	
evening set	-12234 Jan 11 j 18:01	11°♏08'22	
	-12234 Feb 10 j 04:20	0°♐	
max. Earth dist.	-12234 Feb 27 j 03:47	10°♐51'43	2.66368 AU
conjunction	-12234 Mar 01 j 05:40	12°♐11'31	-0°50'19
minimum elong	-12234 Mar 01 j 07:13	12°♐14'00	0°51'00
	-12234 Mar 28 j 23:47	0°♑	
morning rise	-12234 Apr 17 j 07:41	12°♑28'45	
	-12234 May 14 j 05:14	0°♒	
asc. node	-12234 May 31 j 06:27	11°♒13'06	
	-12234 Jun 28 j 11:47	0°♓	
	-12234 Aug 11 j 19:51	0°♈	
	-12234 Sep 24 j 15:20	0°♉	
	-12234 Nov 07 j 21:04	0°♊	
	-12234 Dec 25 j 11:40	0°♋	
retrograde	-12233 Mar 05 j 13:02	24°♋57'39	
min. Earth dist.	-12233 Apr 02 j 00:54	20°♋16'23	0.40924 AU
opposition	-12233 Apr 08 j 05:40	18°♋24'50	0°40'06
greatest brilliancy	-12233 Apr 08 j 02:35	18°♋27'08	-2.8m
desc. node	-12233 Apr 17 j 05:26	15°♋51'57	
direct	-12233 May 09 j 04:54	12°♋48'50	
	-12233 Jul 07 j 08:15	0°♌	
	-12233 Aug 30 j 15:43	0°♍	
	-12233 Oct 18 j 17:31	0°♎	
	-12233 Dec 05 j 19:20	0°♏	
	-12232 Jan 22 j 13:01	0°♐	
evening set	-12232 Feb 20 j 09:02	18°♐18'03	
	-12232 Mar 09 j 14:56	0°♑	
max. Earth dist.	-12232 Mar 23 j 00:59	8°♑40'59	2.63456 AU
conjunction	-12232 Apr 08 j 14:50	19°♑30'49	-0°05'11
minimum elong	-12232 Apr 08 j 15:05	19°♑31'13	0°05'52
behind sun begin	-12232 Apr 07 j 20:17	19°♑00'22	
behind sun end	-12232 Apr 09 j 09:52	20°♑02'05	
asc. node	-12232 Apr 16 j 23:21	25°♑01'25	
	-12232 Apr 24 j 11:22	0°♒	
morning rise	-12232 May 26 j 07:49	21°♒28'57	
	-12232 Jun 07 j 17:07	0°♓	
	-12232 Jul 20 j 07:01	0°♈	
	-12232 Aug 30 j 12:08	0°♉	
	-12232 Oct 09 j 21:25	0°♊	
	-12232 Nov 19 j 07:21	0°♋	
	-12232 Dec 31 j 03:57	0°♌	
	-12231 Feb 15 j 21:00	0°♍	
desc. node	-12231 Mar 04 j 06:32	8°♍54'17	
retrograde	-12231 Apr 27 j 11:57	24°♍57'33	
min. Earth dist.	-12231 May 28 j 10:40	18°♍31'02	0.52599 AU
opposition	-12231 Jun 04 j 19:46	15°♍45'27	-4°39'40
greatest brilliancy	-12231 Jun 03 j 14:11	16°♍13'12	-2.0m
direct	-12231 Jul 09 j 16:05	8°♍08'40	
	-12231 Sep 18 j 07:47	0°♎	
	-12231 Nov 12 j 12:17	0°♏	
	-12230 Jan 01 j 19:54	0°♐	
	-12230 Feb 18 j 21:47	0°♑	
asc. node	-12230 Mar 04 j 21:05	8°♑57'49	
evening set	-12230 Apr 01 j 02:44	26°♑47'36	
	-12230 Apr 05 j 22:22	0°♒	
max. Earth dist.	-12230 Apr 21 j 09:01	10°♒23'34	2.55510 AU
	-12230 May 19 j 19:14	0°♓	
conjunction	-12230 May 21 j 13:28	1°♓14'07	0°46'05
minimum elong	-12230 May 21 j 11:36	1°♓10'50	0°45'41
	-12230 Jun 30 j 14:48	0°♈	
morning rise	-12230 Jul 12 j 09:12	8°♈40'41	
	-12230 Aug 09 j 19:00	0°♉	
	-12230 Sep 17 j 23:08	0°♊	
	-12230 Oct 26 j 22:38	0°♋	
	-12230 Dec 05 j 16:25	0°♌	
	-12229 Jan 16 j 09:16	0°♍	
desc. node	-12229 Jan 20 j 01:17	2°♍32'06	
	-12229 Mar 03 j 03:08	0°♎	
	-12229 Apr 30 j 13:46	0°♏	
retrograde	-12229 Jun 06 j 23:29	7°♏50'58	
	-12229 Jul 11 j 15:31	30°℞♎	
min. Earth dist.	-12229 Jul 12 j 18:10	29°♎33'35	0.62364 AU
opposition	-12229 Jul 16 j 19:47	27°♎56'01	-5°17'40
greatest brilliancy	-12229 Jul 16 j 02:48	28°♎13'00	-1.5m
direct	-12229 Aug 23 j 18:25	19°♎00'03	
	-12229 Oct 10 j 06:18	0°♏	
	-12229 Dec 10 j 01:26	0°♐	
asc. node	-12228 Jan 21 j 00:33	24°♐32'21	
	-12228 Jan 29 j 22:34	0°♑	
	-12228 Mar 16 j 21:16	0°♒	
	-12228 Apr 29 j 21:20	0°♓	
evening set	-12228 May 16 j 23:45	12°♓09'16	
max. Earth dist.	-12228 Jun 03 j 21:23	25°♓10'00	2.43942 AU
	-12228 Jun 10 j 10:39	0°♈	
conjunction	-12228 Jul 11 j 22:04	23°♈41'06	1°13'28
minimum elong	-12228 Jul 11 j 22:07	23°♈41'12	1°13'45
	-12228 Jul 20 j 03:58	0°♉	
	-12228 Aug 27 j 19:34	0°♊	
morning rise	-12228 Sep 10 j 11:44	10°♊41'10	
	-12228 Oct 05 j 06:21	0°♋	
	-12228 Nov 13 j 09:44	0°♌	
desc. node	-12228 Dec 06 j 17:24	17°♌22'04	
	-12228 Dec 24 j 02:43	0°♍	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12227 Feb 05 j 07:35	0°♎	
	-12227 Mar 24 j 10:18	0°♏	
	-12227 May 19 j 19:52	0°♐	
retrograde	-12227 Jul 11 j 17:07	13°♐39'08	
opposition	-12227 Aug 20 j 10:47	3°♐56'11	-3°55'00
greatest brilliancy	-12227 Aug 20 j 10:32	3°♐56'27	-1.4m
min. Earth dist.	-12227 Aug 20 j 04:03	4°♐02'59	0.66391 AU
	-12227 Aug 30 j 13:46	30°℞♏	
direct	-12227 Sep 29 j 09:01	24°♏15'17	
	-12227 Nov 01 j 07:22	0°♐	
asc. node	-12227 Dec 08 j 07:16	15°♐15'04	
	-12226 Jan 05 j 09:14	0°♑	
	-12226 Feb 24 j 06:29	0°♒	
	-12226 Apr 10 j 04:29	0°♓	
	-12226 May 21 j 22:57	0°♈	
	-12226 Jun 30 j 15:03	0°♉	
evening set	-12226 Jul 14 j 07:44	10°♉36'11	
	-12226 Aug 08 j 03:33	0°♊	
conjunction	-12226 Sep 14 j 13:36	29°♊17'46	0°29'43
minimum elong	-12226 Sep 14 j 16:11	29°♊22'49	0°30'25
	-12226 Sep 15 j 11:17	0°♋	
max. Earth dist.	-12226 Oct 21 j 11:30	27°♋43'00	2.40166 AU
desc. node	-12226 Oct 24 j 11:09	29°♋58'43	
	-12226 Oct 24 j 11:50	0°♌	
morning rise	-12226 Nov 17 j 11:28	17°♌55'46	
	-12226 Dec 03 j 23:54	0°♍	
	-12225 Jan 15 j 14:28	0°♎	
	-12225 Mar 01 j 19:19	0°♏	
	-12225 Apr 19 j 10:27	0°♐	
	-12225 Jun 14 j 06:05	0°♑	
retrograde	-12225 Aug 16 j 20:22	18°♑05'05	
opposition	-12225 Sep 24 j 10:07	9°♑01'19	-1°20'27
greatest brilliancy	-12225 Sep 24 j 14:38	8°♑56'51	-1.5m
min. Earth dist.	-12225 Sep 27 j 20:34	7°♑39'39	0.64232 AU
	-12225 Oct 23 j 05:12	30°℞♐	
asc. node	-12225 Oct 26 j 13:16	29°♐32'28	
direct	-12225 Nov 04 j 03:33	29°♐03'11	
	-12225 Nov 16 j 15:58	0°♑	
	-12224 Jan 29 j 22:07	0°♒	
	-12224 Mar 18 j 06:41	0°♓	
	-12224 Apr 30 j 04:24	0°♈	
	-12224 Jun 09 j 07:43	0°♉	
	-12224 Jul 18 j 02:37	0°♊	
	-12224 Aug 25 j 15:53	0°♋	
desc. node	-12224 Sep 10 j 08:06	12°♋04'46	
evening set	-12224 Sep 16 j 14:03	16°♋51'41	
	-12224 Oct 03 j 22:03	0°♌	
	-12224 Nov 13 j 14:54	0°♍	
conjunction	-12224 Nov 14 j 23:06	0°♍58'00	-0°44'58
minimum elong	-12224 Nov 14 j 20:30	0°♍53'19	0°44'34
max. Earth dist.	-12224 Dec 22 j 04:06	27°♍11'11	2.52135 AU
	-12224 Dec 26 j 06:14	0°♎	
morning rise	-12223 Jan 10 j 13:52	10°♎25'53	
	-12223 Feb 09 j 00:11	0°♏	
	-12223 Mar 27 j 20:31	0°♐	
	-12223 May 16 j 01:19	0°♑	
	-12223 Jul 08 j 20:57	0°♒	
asc. node	-12223 Sep 12 j 14:38	24°♒47'31	
retrograde	-12223 Sep 26 j 16:23	25°♒57'52	
opposition	-12223 Nov 02 j 00:09	18°♒01'19	2°20'19
greatest brilliancy	-12223 Nov 02 j 12:29	17°♒49'46	-1.8m
min. Earth dist.	-12223 Nov 08 j 19:17	15°♒28'54	0.56230 AU
direct	-12223 Dec 11 j 20:06	8°♒31'08	
	-12222 Feb 16 j 01:44	0°♓	
	-12222 Apr 05 j 13:39	0°♈	
	-12222 May 17 j 16:25	0°♉	
	-12222 Jun 26 j 13:25	0°♊	
desc. node	-12222 Jul 29 j 09:58	25°♊03'03	
	-12222 Aug 04 j 22:13	0°♋	
	-12222 Sep 13 j 21:21	0°♌	
	-12222 Oct 25 j 04:50	0°♍	
evening set	-12222 Nov 11 j 23:46	12°♍32'33	
	-12222 Dec 07 j 06:58	0°♎	
conjunction	-12221 Jan 03 j 22:39	18°♎36'42	-1°15'06
minimum elong	-12221 Jan 03 j 22:12	18°♎35'57	1°15'18
	-12221 Jan 21 j 04:24	0°♏	
max. Earth dist.	-12221 Jan 23 j 11:45	1°♏30'44	2.61590 AU
morning rise	-12221 Feb 23 j 10:56	21°♏36'01	
	-12221 Mar 08 j 13:34	0°♐	
	-12221 Apr 24 j 23:18	0°♑	
	-12221 Jun 12 j 06:02	0°♒	
asc. node	-12221 Jul 31 j 10:07	29°♒28'52	
	-12221 Aug 01 j 07:37	0°♓	
	-12221 Sep 27 j 05:52	0°♈	
retrograde	-12221 Nov 22 j 06:52	14°♈55'29	
opposition	-12221 Dec 24 j 21:46	8°♈48'21	6°30'31
greatest brilliancy	-12221 Dec 26 j 12:34	8°♈17'36	-2.4m
min. Earth dist.	-12220 Jan 01 j 12:10	6°♈24'20	0.44468 AU
direct	-12220 Jan 29 j 14:49	1°♈27'10	
	-12220 Apr 14 j 08:45	0°♉	
	-12220 May 29 j 20:41	0°♊	
desc. node	-12220 Jun 15 j 16:55	11°♊50'27	
	-12220 Jul 11 j 03:31	0°♋	
	-12220 Aug 22 j 02:32	0°♌	
	-12220 Oct 03 j 21:14	0°♍	
	-12220 Nov 17 j 00:26	0°♎	
evening set	-12220 Dec 26 j 17:17	26°♎12'24	
	-12219 Jan 01 j 13:01	0°♏	
conjunction	-12219 Feb 13 j 22:35	27°♏59'46	-1°02'52
minimum elong	-12219 Feb 14 j 00:03	28°♏02'07	1°03'28
	-12219 Feb 17 j 01:36	0°♐	
max. Earth dist.	-12219 Feb 17 j 15:45	0°♐22'40	2.66064 AU
morning rise	-12219 Apr 02 j 11:32	28°♐26'17	
	-12219 Apr 04 j 22:01	0°♑	
	-12219 May 21 j 11:29	0°♒	
asc. node	-12219 Jun 17 j 01:46	17°♒18'06	
	-12219 Jul 06 j 11:30	0°♓	
	-12219 Aug 21 j 03:18	0°♈	
	-12219 Oct 06 j 07:56	0°♉	
	-12219 Nov 24 j 19:00	0°♊	
retrograde	-12218 Feb 06 j 00:12	25°♊34'43	
min. Earth dist.	-12218 Mar 07 j 09:32	20°♊41'39	0.38642 AU
opposition	-12218 Mar 09 j 10:58	20°♊07'51	4°10'21
greatest brilliancy	-12218 Mar 09 j 08:11	20°♊09'46	-2.9m
direct	-12218 Apr 08 j 21:55	15°♊00'05	
desc. node	-12218 May 03 j 22:58	18°♊49'14	
	-12218 Jun 01 j 09:49	0°♋	
	-12218 Jul 24 j 23:26	0°♌	
	-12218 Sep 10 j 14:36	0°♍	
	-12218 Oct 27 j 08:57	0°♎	
	-12218 Dec 13 j 08:55	0°♏	
	-12217 Jan 29 j 14:25	0°♐	
evening set	-12217 Feb 05 j 02:15	4°♐07'53	
max. Earth dist.	-12217 Mar 14 j 04:43	27°♐51'49	2.65219 AU
	-12217 Mar 17 j 12:18	0°♑	
conjunction	-12217 Mar 25 j 04:13	4°♑56'58	-0°24'19
minimum elong	-12217 Mar 25 j 05:12	4°♑58'32	0°25'03
	-12217 May 02 j 10:59	0°♒	
asc. node	-12217 May 04 j 17:09	1°♒29'48	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

morning rise	-12217 May 11 j 07:36	5°♒53'12	
	-12217 Jun 16 j 00:18	0°♓	
	-12217 Jul 29 j 02:43	0°♈	
	-12217 Sep 09 j 00:58	0°♉	
	-12217 Oct 20 j 08:15	0°♊	
	-12217 Dec 01 j 01:00	0°♋	
	-12216 Jan 14 j 10:27	0°♌	
	-12216 Mar 13 j 12:02	0°♍	
desc. node	-12216 Mar 21 j 00:05	2°♍06'11	
retrograde	-12216 Apr 08 j 19:18	4°♍27'42	
	-12216 May 04 j 06:19	30°℞♌	
min. Earth dist.	-12216 May 07 j 18:40	28°♌50'13	0.47781 AU
opposition	-12216 May 15 j 18:09	26°♌02'12	-3°21'47
greatest brilliancy	-12216 May 14 j 17:30	26°♌23'58	-2.3m
direct	-12216 Jun 18 j 03:44	19°♌09'13	
	-12216 Aug 02 j 22:44	0°♍	
	-12216 Oct 01 j 08:35	0°♎	
	-12216 Nov 21 j 10:49	0°♏	
	-12215 Jan 09 j 10:43	0°♐	
	-12215 Feb 26 j 00:30	0°♑	
evening set	-12215 Mar 15 j 20:54	11°♑31'26	
asc. node	-12215 Mar 21 j 13:07	15°♑13'26	
max. Earth dist.	-12215 Apr 09 j 03:39	27°♑29'07	2.59179 AU
	-12215 Apr 12 j 22:16	0°♒	
conjunction	-12215 May 04 j 02:50	14°♒17'12	0°26'49
minimum elong	-12215 May 04 j 01:41	14°♒15'14	0°26'16
	-12215 May 26 j 21:40	0°♓	
morning rise	-12215 Jun 22 j 18:54	19°♓01'42	
	-12215 Jul 07 j 23:07	0°♈	
	-12215 Aug 17 j 11:07	0°♉	
	-12215 Sep 25 j 23:54	0°♊	
	-12215 Nov 04 j 08:29	0°♋	
	-12215 Dec 14 j 13:57	0°♌	
	-12214 Jan 26 j 05:16	0°♍	
desc. node	-12214 Feb 05 j 21:07	7°♍03'00	
	-12214 Mar 15 j 23:03	0°♎	
retrograde	-12214 May 23 j 04:02	22°♎36'46	
min. Earth dist.	-12214 Jun 26 j 04:27	14°♎59'00	0.59155 AU
opposition	-12214 Jul 01 j 16:38	12°♎48'55	-5°22'49
greatest brilliancy	-12214 Jun 30 j 16:40	13°♎12'31	-1.7m
direct	-12214 Aug 07 j 13:38	4°♎18'59	
	-12214 Oct 25 j 19:58	0°♏	
	-12214 Dec 19 j 06:06	0°♐	
asc. node	-12213 Feb 06 j 14:38	29°♐57'17	
	-12213 Feb 06 j 16:22	0°♑	
	-12213 Mar 25 j 03:51	0°♒	
evening set	-12213 Apr 28 j 15:57	23°♒26'05	
	-12213 May 08 j 01:36	0°♓	
max. Earth dist.	-12213 May 15 j 02:23	4°♓57'48	2.48679 AU
	-12213 Jun 18 j 16:36	0°♈	
conjunction	-12213 Jun 21 j 00:24	1°♈43'06	1°08'48
minimum elong	-12213 Jun 20 j 22:47	1°♈40'06	1°08'48
	-12213 Jul 28 j 13:21	0°♉	
morning rise	-12213 Aug 16 j 18:32	14°♉47'26	
	-12213 Sep 05 j 08:54	0°♊	
	-12213 Oct 13 j 23:16	0°♋	
	-12213 Nov 22 j 06:11	0°♌	
desc. node	-12213 Dec 24 j 14:31	23°♌50'37	
	-12212 Jan 02 j 04:32	0°♍	
	-12212 Feb 14 j 22:32	0°♎	
	-12212 Apr 03 j 21:34	0°♏	
	-12212 Jun 20 j 19:59	0°♐	
retrograde	-12212 Jun 28 j 00:55	0°♐20'02	
	-12212 Jul 05 j 01:26	30°℞♏	
min. Earth dist.	-12212 Aug 05 j 04:48	21°♏11'13	0.65558 AU
opposition	-12212 Aug 06 j 23:19	20°♏28'21	-4°36'43
greatest brilliancy	-12212 Aug 06 j 17:17	20°♏34'25	-1.4m
direct	-12212 Sep 15 j 06:34	11°♏01'42	
	-12212 Nov 20 j 04:25	0°♐	
asc. node	-12212 Dec 24 j 20:58	17°♐53'57	
	-12211 Jan 15 j 00:29	0°♑	
	-12211 Mar 04 j 08:23	0°♒	
	-12211 Apr 17 j 19:01	0°♓	
	-12211 May 29 j 10:10	0°♈	
evening set	-12211 Jun 20 j 02:01	16°♈14'34	
	-12211 Jul 08 j 01:46	0°♉	
max. Earth dist.	-12211 Aug 12 j 00:13	27°♉10'48	2.38414 AU
	-12211 Aug 15 j 14:36	0°♊	
conjunction	-12211 Aug 19 j 11:15	3°♊01'36	0°56'09
minimum elong	-12211 Aug 19 j 14:32	3°♊08'01	0°56'45
	-12211 Sep 22 j 22:30	0°♋	
morning rise	-12211 Oct 22 j 21:58	23°♋07'47	
	-12211 Oct 31 j 22:58	0°♌	
desc. node	-12211 Nov 10 j 05:59	6°♌59'59	
	-12211 Dec 11 j 11:21	0°♍	
	-12210 Jan 23 j 04:27	0°♎	
	-12210 Mar 09 j 19:51	0°♏	
	-12210 Apr 29 j 00:17	0°♐	
	-12210 Jul 03 j 24:00	0°♑	
retrograde	-12210 Aug 02 j 11:04	4°♑45'24	
	-12210 Aug 29 j 10:04	30°℞♐	
opposition	-12210 Sep 10 j 14:56	25°♐23'20	-2°28'00
greatest brilliancy	-12210 Sep 10 j 19:43	25°♐18'33	-1.4m
min. Earth dist.	-12210 Sep 12 j 14:41	24°♐35'35	0.65824 AU
direct	-12210 Oct 21 j 04:54	15°♐28'16	
asc. node	-12210 Nov 12 j 03:22	18°♐12'45	
	-12210 Dec 15 j 14:25	0°♑	
	-12209 Feb 09 j 13:47	0°♒	
	-12209 Mar 28 j 00:46	0°♓	
	-12209 May 09 j 08:05	0°♈	
	-12209 Jun 18 j 05:10	0°♉	
	-12209 Jul 26 j 20:10	0°♊	
evening set	-12209 Aug 23 j 10:55	21°♊35'54	
	-12209 Sep 03 j 05:47	0°♋	
desc. node	-12209 Sep 28 j 02:17	19°♋10'16	
	-12209 Oct 12 j 08:12	0°♌	
conjunction	-12209 Oct 24 j 03:01	8°♌50'57	-0°19'18
minimum elong	-12209 Oct 24 j 01:31	8°♌48'10	0°18'42
	-12209 Nov 21 j 21:39	0°♍	
max. Earth dist.	-12209 Dec 05 j 22:34	10°♍04'04	2.47393 AU
morning rise	-12209 Dec 22 j 21:54	22°♍00'56	
	-12208 Jan 03 j 10:48	0°♎	
	-12208 Feb 17 j 06:21	0°♏	
	-12208 Apr 04 j 13:00	0°♐	
	-12208 May 25 j 04:52	0°♑	
	-12208 Jul 24 j 17:16	0°♒	
retrograde	-12208 Sep 09 j 07:39	10°♒39'11	
asc. node	-12208 Sep 29 j 06:13	8°♒03'29	
opposition	-12208 Oct 16 j 16:17	2°♒12'11	0°46'50
greatest brilliancy	-12208 Oct 16 j 19:40	2°♒08'55	-1.7m
min. Earth dist.	-12208 Oct 22 j 05:53	0°♒03'32	0.60007 AU
	-12208 Oct 22 j 09:35	30°℞♑	
direct	-12208 Nov 26 j 03:14	22°♑23'12	
	-12207 Jan 02 j 06:15	0°♒	
	-12207 Mar 01 j 16:27	0°♓	
	-12207 Apr 15 j 18:34	0°♈	
	-12207 May 26 j 19:00	0°♉	
	-12207 Jul 05 j 02:06	0°♊	
	-12207 Aug 13 j 00:33	0°♋	
desc. node	-12207 Aug 15 j 03:21	1°♋37'21	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12207 Sep 21 j 14:43	0°♌	
evening set	-12207 Oct 22 j 12:01	22°♌43'24	
	-12207 Nov 01 j 14:25	0°♍	
	-12207 Dec 14 j 10:20	0°♎	
conjunction	-12207 Dec 16 j 18:40	1°♎36'18	-1°09'20
minimum elong	-12207 Dec 16 j 17:02	1°♎33'31	1°09'20
max. Earth dist.	-12206 Jan 12 j 06:39	19°♎28'32	2.58407 AU
	-12206 Jan 28 j 04:32	0°♏	
morning rise	-12206 Feb 07 j 07:08	6°♏36'55	
	-12206 Mar 15 j 15:25	0°♐	
	-12206 May 02 j 12:20	0°♑	
	-12206 Jun 21 j 02:55	0°♒	
	-12206 Aug 14 j 05:31	0°♓	
asc. node	-12206 Aug 17 j 03:48	1°♓28'09	
retrograde	-12206 Oct 28 j 15:34	23°♓59'52	
opposition	-12206 Dec 01 j 22:23	17°♓05'05	5°00'22
greatest brilliancy	-12206 Dec 03 j 05:18	16°♓38'25	-2.2m
min. Earth dist.	-12206 Dec 09 j 23:03	14°♓19'40	0.49177 AU
direct	-12205 Jan 08 j 18:50	8°♓37'37	
	-12205 Mar 13 j 22:38	0°♈	
	-12205 Apr 30 j 06:38	0°♉	
	-12205 Jun 11 j 05:14	0°♊	
desc. node	-12205 Jul 03 j 07:44	16°♊17'42	
	-12205 Jul 21 j 20:14	0°♋	
	-12205 Aug 31 j 17:40	0°♌	
	-12205 Oct 12 j 18:20	0°♍	
	-12205 Nov 25 j 08:49	0°♎	
evening set	-12205 Dec 10 j 20:03	10°♎22'44	
	-12204 Jan 09 j 13:29	0°♏	
conjunction	-12204 Jan 30 j 04:45	13°♏25'01	-1°11'31
minimum elong	-12204 Jan 30 j 05:45	13°♏26'38	1°11'59
max. Earth dist.	-12204 Feb 08 j 19:52	19°♏38'06	2.64930 AU
	-12204 Feb 24 j 22:57	0°♐	
morning rise	-12204 Mar 18 j 14:23	14°♐28'58	
	-12204 Apr 11 j 22:19	0°♑	
	-12204 May 28 j 23:24	0°♒	
asc. node	-12204 Jul 03 j 20:47	22°♒53'49	
	-12204 Jul 15 j 00:48	0°♓	
	-12204 Aug 31 j 20:29	0°♈	
	-12204 Oct 22 j 05:10	0°♉	
retrograde	-12203 Jan 06 j 05:44	25°♉46'40	
opposition	-12203 Feb 06 j 00:44	20°♉36'46	6°39'54
greatest brilliancy	-12203 Feb 06 j 20:41	20°♉23'11	-2.8m
min. Earth dist.	-12203 Feb 09 j 00:17	19°♉48'11	0.39106 AU
direct	-12203 Mar 09 j 12:40	15°♉07'44	
	-12203 Apr 30 j 18:00	0°♊	
desc. node	-12203 May 20 j 13:42	10°♊35'18	
	-12203 Jun 21 j 11:18	0°♋	
	-12203 Aug 06 j 03:54	0°♌	
	-12203 Sep 20 j 00:46	0°♍	
	-12203 Nov 04 j 10:09	0°♎	
	-12203 Dec 20 j 16:31	0°♏	
evening set	-12202 Jan 20 j 17:23	19°♏53'15	
	-12202 Feb 05 j 13:21	0°♐	
max. Earth dist.	-12202 Mar 04 j 17:05	17°♐21'53	2.66175 AU
conjunction	-12202 Mar 09 j 23:25	20°♐44'22	-0°41'32
minimum elong	-12202 Mar 10 j 00:51	20°♐46'40	0°42'14
	-12202 Mar 24 j 09:08	0°♑	
morning rise	-12202 Apr 25 j 23:29	21°♑08'20	
	-12202 May 09 j 11:50	0°♒	
asc. node	-12202 May 21 j 12:11	7°♒56'06	
	-12202 Jun 23 j 11:27	0°♓	
	-12202 Aug 06 j 07:21	0°♈	
	-12202 Sep 18 j 07:07	0°♉	
	-12202 Oct 31 j 03:26	0°♊	
	-12202 Dec 14 j 12:04	0°♋	
	-12201 Feb 05 j 08:30	0°♌	
retrograde	-12201 Mar 19 j 08:02	10°♌31'10	
desc. node	-12201 Apr 07 j 17:54	7°♌55'39	
min. Earth dist.	-12201 Apr 15 j 21:07	5°♌36'19	0.43093 AU
opposition	-12201 Apr 23 j 06:38	3°♌14'59	-1°05'23
greatest brilliancy	-12201 Apr 22 j 22:27	3°♌21'32	-2.6m
	-12201 May 04 j 06:15	30°℞♋	
direct	-12201 May 25 j 02:40	27°♋12'21	
	-12201 Jun 15 j 14:58	0°♌	
	-12201 Aug 22 j 12:46	0°♍	
	-12201 Oct 12 j 18:03	0°♎	
	-12201 Nov 30 j 15:50	0°♏	
	-12200 Jan 17 j 18:38	0°♐	
evening set	-12200 Feb 29 j 04:42	26°♐54'21	
	-12200 Mar 05 j 00:20	0°♑	
max. Earth dist.	-12200 Mar 29 j 00:57	15°♑34'51	2.62139 AU
asc. node	-12200 Apr 07 j 06:24	21°♑38'18	
conjunction	-12200 Apr 17 j 16:32	28°♑32'07	0°06'30
minimum elong	-12200 Apr 17 j 16:17	28°♑31'43	0°05'50
behind sun begin	-12200 Apr 16 j 21:18	28°♑00'10	
behind sun end	-12200 Apr 18 j 11:17	29°♑03'16	
	-12200 Apr 19 j 21:22	0°♒	
	-12200 Jun 03 j 00:48	0°♓	
morning rise	-12200 Jun 04 j 22:31	1°♓19'20	
	-12200 Jul 15 j 10:01	0°♈	
	-12200 Aug 25 j 08:12	0°♉	
	-12200 Oct 04 j 08:54	0°♊	
	-12200 Nov 13 j 07:22	0°♋	
	-12200 Dec 24 j 08:55	0°♌	
	-12199 Feb 06 j 21:19	0°♍	
desc. node	-12199 Feb 22 j 15:52	9°♍31'42	
	-12199 Apr 06 j 08:32	0°♎	
retrograde	-12199 May 07 j 06:12	5°♎50'31	
	-12199 Jun 05 j 12:32	30°℞♍	
min. Earth dist.	-12199 Jun 08 j 08:15	28°♍57'24	0.55136 AU
greatest brilliancy	-12199 Jun 13 j 22:29	26°♍48'58	-1.9m
opposition	-12199 Jun 15 j 03:23	26°♍21'16	-5°04'38
direct	-12199 Jul 20 j 18:15	18°♍23'33	
	-12199 Sep 07 j 04:00	0°♎	
	-12199 Nov 06 j 04:07	0°♏	
	-12199 Dec 27 j 14:48	0°♐	
	-12198 Feb 14 j 02:49	0°♑	
asc. node	-12198 Feb 23 j 06:07	5°♑49'01	
	-12198 Apr 01 j 07:27	0°♒	
evening set	-12198 Apr 10 j 18:29	6°♒20'07	
max. Earth dist.	-12198 Apr 29 j 03:40	18°♒50'47	2.53238 AU
	-12198 May 15 j 05:04	0°♓	
conjunction	-12198 Jun 01 j 01:54	11°♓56'47	0°55'48
minimum elong	-12198 May 31 j 23:51	11°♓53'08	0°55'33
	-12198 Jun 25 j 23:24	0°♈	
morning rise	-12198 Jul 24 j 10:29	21°♈12'25	
	-12198 Aug 05 j 00:54	0°♉	
	-12198 Sep 13 j 01:35	0°♊	
	-12198 Oct 21 j 20:52	0°♋	
	-12198 Nov 30 j 09:07	0°♌	
desc. node	-12197 Jan 10 j 10:33	29°♌49'30	
	-12197 Jan 10 j 16:31	0°♍	
	-12197 Feb 24 j 09:44	0°♎	
	-12197 Apr 18 j 06:49	0°♏	
retrograde	-12197 Jun 15 j 04:17	16°♏33'06	
min. Earth dist.	-12197 Jul 21 j 20:44	7°♏56'12	0.63776 AU
opposition	-12197 Jul 25 j 03:08	6°♏37'31	-5°06'42
greatest brilliancy	-12197 Jul 24 j 14:11	6°♏50'30	-1.5m

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12197 Aug 13 j 04:10	30°℞♎	
direct	-12197 Sep 01 j 15:02	27°♎29'17	
	-12197 Sep 22 j 15:05	0°♏	
	-12197 Dec 03 j 09:49	0°♐	
asc. node	-12196 Jan 11 j 10:12	22°♐04'14	
	-12196 Jan 24 j 15:05	0°♑	
	-12196 Mar 12 j 00:31	0°♒	
	-12196 Apr 25 j 04:32	0°♓	
evening set	-12196 May 28 j 17:57	24°♓04'26	
	-12196 Jun 05 j 19:00	0°♈	
max. Earth dist.	-12196 Jun 20 j 11:17	10°♈57'13	2.41489 AU
	-12196 Jul 15 j 11:59	0°♉	
conjunction	-12196 Jul 25 j 06:03	7°♉31'19	1°11'00
minimum elong	-12196 Jul 25 j 07:27	7°♉34'03	1°11'27
	-12196 Aug 23 j 02:42	0°♊	
morning rise	-12196 Sep 25 j 16:48	26°♊15'38	
	-12196 Sep 30 j 12:04	0°♋	
	-12196 Nov 08 j 13:29	0°♌	
desc. node	-12196 Nov 27 j 04:09	13°♌56'05	
	-12196 Dec 19 j 03:26	0°♍	
	-12195 Jan 31 j 01:34	0°♎	
	-12195 Mar 18 j 10:25	0°♏	
	-12195 May 10 j 11:55	0°♐	
retrograde	-12195 Jul 19 j 14:10	21°♐38'42	
opposition	-12195 Aug 28 j 04:24	12°♐02'04	-3°25'49
greatest brilliancy	-12195 Aug 28 j 06:32	11°♐59'55	-1.4m
min. Earth dist.	-12195 Aug 28 j 16:56	11°♐49'27	0.66454 AU
direct	-12195 Oct 07 j 10:05	2°♐14'56	
asc. node	-12195 Nov 28 j 16:54	15°♐15'39	
	-12195 Dec 29 j 08:00	0°♑	
	-12194 Feb 18 j 18:32	0°♒	
	-12194 Apr 05 j 03:58	0°♓	
	-12194 May 17 j 02:51	0°♈	
	-12194 Jun 25 j 20:39	0°♉	
evening set	-12194 Jul 28 j 16:00	25°♉29'55	
	-12194 Aug 03 j 09:58	0°♊	
	-12194 Sep 10 j 18:00	0°♋	
conjunction	-12194 Sep 29 j 05:13	14°♋18'08	0°11'54
minimum elong	-12194 Sep 29 j 06:21	14°♋20'19	0°12'36
behind sun begin	-12194 Sep 28 j 13:13	13°♋47'21	
behind sun end	-12194 Sep 29 j 23:29	14°♋53'16	
desc. node	-12194 Oct 14 j 21:32	26°♋18'08	
	-12194 Oct 19 j 18:32	0°♌	
max. Earth dist.	-12194 Nov 11 j 03:24	16°♌44'26	2.42554 AU
	-12194 Nov 29 j 06:14	0°♍	
morning rise	-12194 Nov 30 j 22:59	1°♍13'43	
	-12193 Jan 10 j 18:52	0°♎	
	-12193 Feb 24 j 18:24	0°♏	
	-12193 Apr 13 j 17:33	0°♐	
	-12193 Jun 05 j 21:50	0°♑	
retrograde	-12193 Aug 25 j 10:33	26°♑22'50	
opposition	-12193 Oct 02 j 15:33	17°♑30'43	-0°36'40
greatest brilliancy	-12193 Oct 02 j 18:10	17°♑28'08	-1.5m
min. Earth dist.	-12193 Oct 06 j 20:30	15°♑51'33	0.62983 AU
asc. node	-12193 Oct 16 j 21:35	12°♑10'34	
direct	-12193 Nov 12 j 09:06	7°♑33'35	
	-12192 Jan 21 j 21:08	0°♒	
	-12192 Mar 12 j 07:40	0°♓	
	-12192 Apr 24 j 20:15	0°♈	
	-12192 Jun 04 j 05:48	0°♉	
	-12192 Jul 13 j 04:14	0°♊	
	-12192 Aug 20 j 19:50	0°♋	
desc. node	-12192 Aug 31 j 19:43	8°♋28'05	
	-12192 Sep 29 j 03:43	0°♌	
evening set	-12192 Sep 30 j 02:44	0°♌43'11	
	-12192 Nov 08 j 21:58	0°♍	
conjunction	-12192 Nov 27 j 00:40	12°♍54'50	-0°56'08
minimum elong	-12192 Nov 26 j 22:08	12°♍50'22	0°55'52
	-12192 Dec 21 j 13:45	0°♎	
max. Earth dist.	-12192 Dec 30 j 14:31	6°♎10'18	2.54549 AU
morning rise	-12191 Jan 21 j 01:17	20°♎36'03	
	-12191 Feb 04 j 06:40	0°♏	
	-12191 Mar 22 j 21:53	0°♐	
	-12191 May 10 j 11:50	0°♑	
	-12191 Jul 01 j 06:06	0°♒	
asc. node	-12191 Sep 02 j 21:26	29°♒30'51	
	-12191 Sep 04 j 09:21	0°♓	
retrograde	-12191 Oct 07 j 12:11	5°♓51'06	
	-12191 Nov 07 j 06:38	30°℞♒	
opposition	-12191 Nov 12 j 04:43	28°♒14'22	3°17'44
greatest brilliancy	-12191 Nov 12 j 23:28	27°♒57'13	-1.9m
min. Earth dist.	-12191 Nov 19 j 13:51	25°♒32'55	0.53858 AU
direct	-12191 Dec 21 j 12:05	19°♒01'17	
	-12190 Feb 03 j 20:55	0°♓	
	-12190 Mar 29 j 06:59	0°♈	
	-12190 May 11 j 13:34	0°♉	
	-12190 Jun 20 j 23:33	0°♊	
desc. node	-12190 Jul 19 j 23:28	21°♊54'53	
	-12190 Jul 30 j 16:30	0°♋	
	-12190 Sep 08 j 21:25	0°♌	
	-12190 Oct 20 j 09:18	0°♍	
evening set	-12190 Nov 22 j 20:27	23°♍20'38	
	-12190 Dec 02 j 14:14	0°♎	
conjunction	-12189 Jan 13 j 18:12	28°♎10'08	-1°15'23
minimum elong	-12189 Jan 13 j 18:22	28°♎10'25	1°15'42
	-12189 Jan 16 j 13:08	0°♏	
max. Earth dist.	-12189 Jan 29 j 16:27	8°♏35'01	2.62996 AU
	-12189 Mar 03 j 21:23	0°♐	
morning rise	-12189 Mar 04 j 09:37	0°♐19'34	
	-12189 Apr 20 j 02:20	0°♑	
	-12189 Jun 06 j 20:07	0°♒	
asc. node	-12189 Jul 21 j 16:34	27°♒41'11	
	-12189 Jul 25 j 12:15	0°♓	
	-12189 Sep 15 j 10:59	0°♈	
retrograde	-12189 Dec 07 j 23:21	28°♈52'21	
opposition	-12188 Jan 08 j 18:13	23°♈11'05	7°01'35
greatest brilliancy	-12188 Jan 10 j 07:25	22°♈43'07	-2.6m
min. Earth dist.	-12188 Jan 15 j 06:56	21°♈13'56	0.42107 AU
direct	-12188 Feb 11 j 22:28	16°♈33'10	
	-12188 Mar 31 j 09:52	0°♉	
	-12188 May 21 j 10:12	0°♊	
desc. node	-12188 Jun 06 j 05:11	10°♊32'49	
	-12188 Jul 04 j 10:37	0°♋	
	-12188 Aug 16 j 07:19	0°♌	
	-12188 Sep 28 j 15:30	0°♍	
	-12188 Nov 12 j 02:56	0°♎	
	-12188 Dec 27 j 20:26	0°♏	
evening set	-12187 Jan 04 j 23:44	5°♏16'10	
	-12187 Feb 12 j 11:02	0°♐	
conjunction	-12187 Feb 22 j 18:08	6°♐35'29	-0°56'01
minimum elong	-12187 Feb 22 j 19:41	6°♐37'58	0°56'40
max. Earth dist.	-12187 Feb 23 j 06:08	6°♐54'41	2.66340 AU
	-12187 Mar 31 j 06:48	0°♑	
morning rise	-12187 Apr 10 j 23:50	6°♑53'21	
	-12187 May 16 j 16:02	0°♒	
asc. node	-12187 Jun 07 j 08:17	14°♒11'49	
	-12187 Jul 01 j 06:07	0°♓	
	-12187 Aug 15 j 03:10	0°♈	
	-12187 Sep 28 j 19:42	0°♉	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12187 Nov 13 j 16:28	0°♊	
	-12186 Jan 05 j 10:28	0°♋	
retrograde	-12186 Feb 22 j 01:42	12°♋50'46	
min. Earth dist.	-12186 Mar 22 j 00:49	8°♋11'20	0.39584 AU
opposition	-12186 Mar 26 j 16:26	6°♋51'32	2°11'12
greatest brilliancy	-12186 Mar 26 j 09:57	6°♋56'10	-2.8m
desc. node	-12186 Apr 24 j 09:45	1°♋34'04	
direct	-12186 Apr 26 j 04:50	1°♋32'47	
	-12186 Jul 15 j 09:25	0°♌	
	-12186 Sep 03 j 22:51	0°♍	
	-12186 Oct 21 j 20:32	0°♎	
	-12186 Dec 08 j 09:46	0°♏	
	-12185 Jan 24 j 21:39	0°♐	
evening set	-12185 Feb 13 j 20:58	12°♐41'03	
	-12185 Mar 12 j 21:58	0°♑	
max. Earth dist.	-12185 Mar 19 j 22:35	4°♑32'05	2.64351 AU
conjunction	-12185 Apr 02 j 23:46	13°♑39'27	-0°13'27
minimum elong	-12185 Apr 03 j 00:21	13°♑40'23	0°14'10
behind sun begin	-12185 Apr 02 j 15:15	13°♑25'34	
behind sun end	-12185 Apr 03 j 09:27	13°♑55'13	
asc. node	-12185 Apr 25 j 00:19	28°♑07'39	
	-12185 Apr 27 j 20:07	0°♒	
morning rise	-12185 May 20 j 09:05	15°♒05'28	
	-12185 Jun 11 j 05:54	0°♓	
	-12185 Jul 24 j 02:02	0°♈	
	-12185 Sep 03 j 14:43	0°♉	
	-12185 Oct 14 j 09:04	0°♊	
	-12185 Nov 24 j 06:02	0°♋	
	-12184 Jan 05 j 21:38	0°♌	
	-12184 Feb 24 j 05:50	0°♍	
desc. node	-12184 Mar 11 j 11:48	7°♍39'34	
retrograde	-12184 Apr 19 j 17:45	16°♍53'19	
min. Earth dist.	-12184 May 19 j 18:54	10°♍49'00	0.50452 AU
greatest brilliancy	-12184 May 26 j 08:01	8°♍25'42	-2.1m
opposition	-12184 May 27 j 12:52	7°♍59'16	-4°12'41
direct	-12184 Jun 30 j 17:19	0°♍41'21	
	-12184 Sep 23 j 14:14	0°♎	
	-12184 Nov 15 j 17:26	0°♏	
	-12183 Jan 04 j 10:30	0°♐	
	-12183 Feb 21 j 07:29	0°♑	
asc. node	-12183 Mar 11 j 21:06	11°♑56'58	
evening set	-12183 Mar 25 j 02:25	20°♑35'08	
	-12183 Apr 08 j 07:50	0°♒	
max. Earth dist.	-12183 Apr 15 j 23:13	5°♒06'54	2.57239 AU
conjunction	-12183 May 13 j 22:17	24°♒11'18	0°38'06
minimum elong	-12183 May 13 j 20:41	24°♒08'31	0°37'38
	-12183 May 22 j 06:45	0°♓	
morning rise	-12183 Jul 03 j 16:10	0°♈18'48	
	-12183 Jul 03 j 05:53	0°♈	
	-12183 Aug 12 j 14:02	0°♉	
	-12183 Sep 20 j 22:11	0°♊	
	-12183 Oct 30 j 01:18	0°♋	
	-12183 Dec 08 j 22:46	0°♌	
	-12182 Jan 19 j 22:24	0°♍	
desc. node	-12182 Jan 27 j 07:47	5°♍02'13	
	-12182 Mar 07 j 12:43	0°♎	
	-12182 May 14 j 10:34	0°♏	
retrograde	-12182 May 31 j 18:36	1°♏54'37	
	-12182 Jun 17 j 06:59	30°℞♎	
min. Earth dist.	-12182 Jul 05 j 19:01	23°♎54'47	0.61027 AU
opposition	-12182 Jul 10 j 12:49	22°♎01'49	-5°22'22
greatest brilliancy	-12182 Jul 09 j 16:36	22°♎21'54	-1.6m
direct	-12182 Aug 17 j 00:56	13°♎16'54	
	-12182 Oct 16 j 19:54	0°♏	
	-12182 Dec 13 j 08:57	0°♐	
asc. node	-12181 Jan 27 j 23:50	27°♐07'59	
	-12181 Feb 01 j 15:01	0°♑	
	-12181 Mar 20 j 10:03	0°♒	
	-12181 May 03 j 10:18	0°♓	
evening set	-12181 May 09 j 10:59	4°♓14'49	
max. Earth dist.	-12181 May 25 j 21:07	15°♓59'11	2.46066 AU
	-12181 Jun 14 j 01:31	0°♈	
conjunction	-12181 Jul 03 j 03:40	14°♈14'48	1°12'43
minimum elong	-12181 Jul 03 j 02:51	14°♈13'15	1°12'51
	-12181 Jul 23 j 20:56	0°♉	
morning rise	-12181 Aug 31 j 00:17	29°♉32'18	
	-12181 Aug 31 j 14:29	0°♊	
	-12181 Oct 09 j 02:34	0°♋	
	-12181 Nov 17 j 06:32	0°♌	
desc. node	-12181 Dec 14 j 23:59	20°♌34'57	
	-12181 Dec 28 j 00:24	0°♍	
	-12180 Feb 09 j 08:19	0°♎	
	-12180 Mar 28 j 00:00	0°♏	
	-12180 May 26 j 23:20	0°♐	
retrograde	-12180 Jul 05 j 22:12	8°♐27'44	
	-12180 Aug 11 j 11:47	30°℞♏	
opposition	-12180 Aug 14 j 18:58	28°♏40'22	-4°13'45
min. Earth dist.	-12180 Aug 13 j 20:05	29°♏03'26	0.66136 AU
greatest brilliancy	-12180 Aug 14 j 16:20	28°♏43'01	-1.4m
direct	-12180 Sep 23 j 11:35	19°♏05'24	
	-12180 Nov 09 j 19:51	0°♐	
asc. node	-12180 Dec 15 j 06:00	16°♐29'42	
	-12179 Jan 08 j 22:19	0°♑	
	-12179 Feb 27 j 03:57	0°♒	
	-12179 Apr 12 j 22:13	0°♓	
	-12179 May 24 j 16:32	0°♈	
evening set	-12179 Jul 03 j 13:28	0°♉08'18	
	-12179 Jul 03 j 09:09	0°♉	
	-12179 Aug 10 j 22:06	0°♊	
conjunction	-12179 Sep 03 j 03:36	18°♊12'52	0°42'19
minimum elong	-12179 Sep 03 j 06:51	18°♊19'14	0°42'58
	-12179 Sep 18 j 05:39	0°♋	
max. Earth dist.	-12179 Sep 25 j 08:27	5°♋32'11	2.38759 AU
	-12179 Oct 27 j 05:14	0°♌	
desc. node	-12179 Oct 31 j 17:01	3°♌23'44	
morning rise	-12179 Nov 06 j 14:55	7°♌50'28	
	-12179 Dec 06 j 16:10	0°♍	
	-12178 Jan 18 j 06:04	0°♎	
	-12178 Mar 04 j 13:08	0°♏	
	-12178 Apr 22 j 15:22	0°♐	
	-12178 Jun 20 j 00:19	0°♑	
retrograde	-12178 Aug 10 j 15:37	12°♑48'22	
opposition	-12178 Sep 18 j 12:38	3°♑35'52	-1°49'55
greatest brilliancy	-12178 Sep 18 j 17:35	3°♑30'56	-1.4m
min. Earth dist.	-12178 Sep 21 j 07:35	2°♑29'17	0.65058 AU
	-12178 Sep 27 j 18:10	30°℞♐	
direct	-12178 Oct 29 j 05:47	23°♐38'32	
asc. node	-12178 Nov 02 j 12:05	23°♐45'20	
	-12178 Dec 02 j 15:23	0°♑	
	-12177 Feb 03 j 00:42	0°♒	
	-12177 Mar 22 j 13:01	0°♓	
	-12177 May 04 j 05:28	0°♈	
	-12177 Jun 13 j 06:38	0°♉	
	-12177 Jul 22 j 00:05	0°♊	
	-12177 Aug 29 j 11:28	0°♋	
evening set	-12177 Sep 06 j 19:49	6°♋27'51	
desc. node	-12177 Sep 18 j 13:21	15°♋29'27	
	-12177 Oct 07 j 15:05	0°♌	
conjunction	-12177 Nov 06 j 07:57	22°♌04'55	-0°34'47

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

minimum elong	-12177 Nov 06 j 05:37	22°♌00'37	0°34'17
	-12177 Nov 17 j 05:16	0°♍	
max. Earth dist.	-12177 Dec 16 j 11:13	20°♍47'14	2.50054 AU
	-12177 Dec 29 j 18:08	0°♎	
morning rise	-12176 Jan 03 j 08:18	3°♎09'01	
	-12176 Feb 12 j 11:14	0°♏	
	-12176 Mar 30 j 10:07	0°♐	
	-12176 May 19 j 02:35	0°♑	
	-12176 Jul 13 j 21:24	0°♒	
retrograde	-12176 Sep 18 j 23:51	19°♒40'00	
asc. node	-12176 Sep 19 j 14:33	19°♒39'51	
opposition	-12176 Oct 25 j 19:55	11°♒29'02	1°39'18
greatest brilliancy	-12176 Oct 26 j 03:58	11°♒21'23	-1.8m
min. Earth dist.	-12176 Nov 01 j 02:52	9°♒06'01	0.58013 AU
direct	-12176 Dec 05 j 00:31	1°♒48'53	
	-12175 Feb 21 j 20:02	0°♓	
	-12175 Apr 09 j 14:46	0°♈	
	-12175 May 21 j 05:13	0°♉	
	-12175 Jun 29 j 19:37	0°♊	
desc. node	-12175 Aug 05 j 14:19	28°♊11'24	
	-12175 Aug 07 j 23:12	0°♋	
	-12175 Sep 16 j 17:14	0°♌	
	-12175 Oct 27 j 20:06	0°♍	
evening set	-12175 Nov 03 j 09:56	4°♍41'01	
	-12175 Dec 09 j 18:09	0°♎	
conjunction	-12175 Dec 27 j 08:21	11°♎55'36	-1°13'28
minimum elong	-12175 Dec 27 j 07:24	11°♎54'00	1°13'36
max. Earth dist.	-12174 Jan 19 j 00:06	27°♎00'47	2.60266 AU
	-12174 Jan 23 j 13:00	0°♏	
morning rise	-12174 Feb 16 j 16:26	15°♏43'55	
	-12174 Mar 10 j 21:47	0°♐	
	-12174 Apr 27 j 11:25	0°♑	
	-12174 Jun 15 j 05:52	0°♒	
	-12174 Aug 05 j 15:54	0°♓	
asc. node	-12174 Aug 07 j 11:02	0°♓59'32	
	-12174 Oct 09 j 02:58	0°♈	
retrograde	-12174 Nov 11 j 02:44	5°♈51'05	
	-12174 Dec 12 j 13:02	30°℞♓	
opposition	-12174 Dec 14 j 11:19	29°♓22'10	5°54'25
greatest brilliancy	-12174 Dec 15 j 23:55	28°♓51'55	-2.3m
min. Earth dist.	-12174 Dec 22 j 10:31	26°♓44'42	0.46549 AU
direct	-12173 Jan 20 j 06:04	21°♓28'30	
	-12173 Feb 26 j 20:17	0°♈	
	-12173 Apr 22 j 00:12	0°♉	
	-12173 Jun 04 j 13:08	0°♊	
desc. node	-12173 Jun 23 j 20:31	13°♊54'54	
	-12173 Jul 15 j 23:08	0°♋	
	-12173 Aug 26 j 08:30	0°♌	
	-12173 Oct 07 j 17:26	0°♍	
	-12173 Nov 20 j 13:29	0°♎	
evening set	-12173 Dec 20 j 15:40	20°♎00'43	
	-12172 Jan 04 j 21:32	0°♏	
conjunction	-12172 Feb 08 j 07:57	22°♏17'26	-1°07'00
minimum elong	-12172 Feb 08 j 09:17	22°♏19'33	1°07'33
max. Earth dist.	-12172 Feb 14 j 14:12	26°♏18'51	2.65671 AU
	-12172 Feb 20 j 08:03	0°♐	
morning rise	-12172 Mar 27 j 04:48	22°♐56'45	
	-12172 Apr 07 j 05:36	0°♑	
	-12172 May 23 j 23:58	0°♒	
asc. node	-12172 Jun 24 j 03:19	20°♒06'07	
	-12172 Jul 09 j 10:17	0°♓	
	-12172 Aug 24 j 21:47	0°♈	
	-12172 Oct 11 j 18:34	0°♉	
	-12172 Dec 05 j 18:05	0°♊	
retrograde	-12171 Jan 23 j 19:47	12°♊46'45	
opposition	-12171 Feb 23 j 16:27	7°♊34'49	5°29'26
greatest brilliancy	-12171 Feb 23 j 22:36	7°♊30'41	-2.9m
min. Earth dist.	-12171 Feb 23 j 22:37	7°♊30'41	0.38489 AU
direct	-12171 Mar 26 j 09:39	2°♊24'43	
desc. node	-12171 May 11 j 02:54	14°♊01'14	
	-12171 Jun 11 j 02:11	0°♋	
	-12171 Jul 30 j 00:01	0°♌	
	-12171 Sep 14 j 04:06	0°♍	
	-12171 Oct 30 j 05:32	0°♎	
	-12171 Dec 15 j 20:32	0°♏	
evening set	-12170 Jan 29 j 14:37	28°♏32'23	
	-12170 Jan 31 j 21:38	0°♐	
max. Earth dist.	-12170 Mar 10 j 08:52	23°♐56'45	2.65756 AU
conjunction	-12170 Mar 18 j 17:05	29°♐18'36	-0°31'51
minimum elong	-12170 Mar 18 j 18:16	29°♐20'32	0°32'33
	-12170 Mar 19 j 18:47	0°♑	
morning rise	-12170 May 04 j 17:27	29°♑56'14	
	-12170 May 04 j 19:44	0°♒	
asc. node	-12170 May 11 j 18:19	4°♒35'29	
	-12170 Jun 18 j 14:06	0°♓	
	-12170 Aug 01 j 00:28	0°♈	
	-12170 Sep 12 j 09:17	0°♉	
	-12170 Oct 24 j 06:39	0°♊	
	-12170 Dec 05 j 20:35	0°♋	
	-12169 Jan 21 j 08:36	0°♌	
desc. node	-12169 Mar 29 j 05:07	24°♌54'15	
retrograde	-12169 Mar 31 j 22:35	24°♌57'26	
min. Earth dist.	-12169 Apr 29 j 04:10	19°♌40'20	0.45607 AU
greatest brilliancy	-12169 May 06 j 06:37	17°♌16'26	-2.4m
opposition	-12169 May 07 j 01:42	17°♌00'13	-2°31'11
direct	-12169 Jun 08 j 18:24	10°♌29'19	
	-12169 Aug 12 j 11:26	0°♍	
	-12169 Oct 06 j 07:15	0°♎	
	-12169 Nov 25 j 07:47	0°♏	
	-12168 Jan 12 j 21:50	0°♐	
	-12168 Feb 29 j 08:29	0°♑	
evening set	-12168 Mar 09 j 03:43	5°♑39'56	
asc. node	-12168 Mar 28 j 13:27	18°♑17'22	
max. Earth dist.	-12168 Apr 04 j 09:12	22°♑46'36	2.60605 AU
	-12168 Apr 15 j 06:48	0°♒	
conjunction	-12168 Apr 26 j 23:58	7°♒50'46	0°18'13
minimum elong	-12168 Apr 26 j 23:12	7°♒49'28	0°17'37
	-12168 May 29 j 08:59	0°♓	
morning rise	-12168 Jun 14 j 22:30	11°♓36'50	
	-12168 Jul 10 j 14:48	0°♈	
	-12168 Aug 20 j 07:49	0°♉	
	-12168 Sep 29 j 01:46	0°♊	
	-12168 Nov 07 j 15:44	0°♋	
	-12168 Dec 18 j 03:39	0°♌	
	-12167 Jan 30 j 08:35	0°♍	
desc. node	-12167 Feb 13 j 02:56	8°♍50'57	
	-12167 Mar 22 j 08:53	0°♎	
retrograde	-12167 May 16 j 12:43	16°♎04'18	
min. Earth dist.	-12167 Jun 18 j 16:57	8°♎46'20	0.57445 AU
opposition	-12167 Jun 24 j 20:11	6°♎23'07	-5°18'42
greatest brilliancy	-12167 Jun 23 j 17:33	6°♎49'03	-1.8m
	-12167 Jul 14 j 10:25	30°℞♍	
direct	-12167 Jul 31 j 04:36	28°♍06'46	
	-12167 Aug 18 j 01:55	0°♎	
	-12167 Oct 30 j 04:00	0°♏	
	-12167 Dec 22 j 04:14	0°♐	
	-12166 Feb 09 j 05:12	0°♑	
asc. node	-12166 Feb 13 j 14:15	2°♑45'46	
	-12166 Mar 27 j 14:43	0°♒	
evening set	-12166 Apr 20 j 20:22	16°♒20'34	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

max. Earth dist.	-12166 May 07 j 19:10	28°♒03'52	2.50772 AU
	-12166 May 10 j 13:31	0°♓	
conjunction	-12166 Jun 12 j 04:54	23°♓20'28	1°04'01
minimum elong	-12166 Jun 12 j 02:58	23°♓16'57	1°03'55
	-12166 Jun 21 j 07:08	0°♈	
	-12166 Jul 31 j 06:44	0°♉	
morning rise	-12166 Aug 06 j 08:09	4°♉37'56	
	-12166 Sep 08 j 04:49	0°♊	
	-12166 Oct 16 j 21:12	0°♋	
	-12166 Nov 25 j 05:30	0°♌	
desc. node	-12166 Dec 31 j 21:09	26°♌53'19	
	-12165 Jan 05 j 05:56	0°♍	
	-12165 Feb 18 j 06:19	0°♎	
	-12165 Apr 09 j 08:00	0°♏	
retrograde	-12165 Jun 23 j 04:32	24°♏58'09	
min. Earth dist.	-12165 Jul 30 j 17:36	16°♏03'08	0.64876 AU
opposition	-12165 Aug 02 j 04:17	15°♏04'05	-4°50'55
greatest brilliancy	-12165 Aug 01 j 19:19	15°♏13'07	-1.4m
direct	-12165 Sep 10 j 04:05	5°♏45'07	
	-12165 Nov 25 j 22:59	0°♐	
asc. node	-12164 Jan 01 j 19:57	19°♐53'57	
	-12164 Jan 19 j 02:20	0°♑	
	-12164 Mar 07 j 01:23	0°♒	
	-12164 Apr 20 j 10:17	0°♓	
	-12164 Jun 01 j 02:14	0°♈	
evening set	-12164 Jun 10 j 04:08	6°♈45'10	
	-12164 Jul 10 j 19:05	0°♉	
max. Earth dist.	-12164 Jul 13 j 17:15	2°♉15'07	2.39401 AU
conjunction	-12164 Aug 08 j 07:44	22°♉08'19	1°04'13
minimum elong	-12164 Aug 08 j 10:25	22°♉13'32	1°04'46
	-12164 Aug 18 j 08:54	0°♊	
	-12164 Sep 25 j 17:15	0°♋	
morning rise	-12164 Oct 11 j 04:12	11°♋59'12	
	-12164 Nov 03 j 17:23	0°♌	
desc. node	-12164 Nov 17 j 12:36	10°♌22'44	
	-12164 Dec 14 j 05:10	0°♍	
	-12163 Jan 25 j 22:44	0°♎	
	-12163 Mar 12 j 18:36	0°♏	
	-12163 May 02 j 19:36	0°♐	
retrograde	-12163 Jul 27 j 12:29	29°♐35'47	
opposition	-12163 Sep 04 j 22:00	20°♐06'44	-2°53'22
greatest brilliancy	-12163 Sep 05 j 01:52	20°♐02'51	-1.4m
min. Earth dist.	-12163 Sep 06 j 06:01	19°♐34'38	0.66231 AU
direct	-12163 Oct 15 j 09:32	10°♐14'42	
asc. node	-12163 Nov 19 j 02:34	16°♐37'20	
	-12163 Dec 21 j 05:29	0°♑	
	-12162 Feb 13 j 00:04	0°♒	
	-12162 Mar 31 j 00:42	0°♓	
	-12162 May 12 j 05:26	0°♈	
	-12162 Jun 21 j 01:42	0°♉	
	-12162 Jul 29 j 15:59	0°♊	
evening set	-12162 Aug 12 j 05:26	10°♊37'22	
	-12162 Sep 06 j 00:30	0°♋	
desc. node	-12162 Oct 05 j 07:43	22°♋36'22	
conjunction	-12162 Oct 13 j 13:05	28°♋51'41	-0°06'14
minimum elong	-12162 Oct 13 j 12:36	28°♋50'45	0°05'36
behind sun begin	-12162 Oct 12 j 11:40	28°♋03'30	
behind sun end	-12162 Oct 14 j 13:32	29°♋37'58	
	-12162 Oct 15 j 01:10	0°♌	
	-12162 Nov 24 j 12:30	0°♍	
max. Earth dist.	-12162 Nov 26 j 15:41	1°♍32'35	2.45192 AU
morning rise	-12162 Dec 13 j 18:01	13°♍46'25	
	-12161 Jan 06 j 00:01	0°♎	
	-12161 Feb 19 j 19:30	0°♏	
	-12161 Apr 08 j 06:55	0°♐	
	-12161 May 29 j 18:14	0°♑	
	-12161 Aug 04 j 08:28	0°♒	
retrograde	-12161 Sep 03 j 08:43	4°♒52'19	
	-12161 Sep 30 j 22:00	30°℞♑	
asc. node	-12161 Oct 07 j 06:09	27°♑43'09	
opposition	-12161 Oct 11 j 03:31	26°♑13'23	0°10'15
greatest brilliancy	-12161 Oct 11 j 04:13	26°♑12'43	-1.6m
min. Earth dist.	-12161 Oct 16 j 03:04	24°♑17'16	0.61459 AU
direct	-12161 Nov 20 j 19:03	16°♑19'43	
	-12160 Jan 11 j 20:27	0°♒	
	-12160 Mar 05 j 21:33	0°♓	
	-12160 Apr 19 j 06:45	0°♈	
	-12160 May 30 j 00:55	0°♉	
	-12160 Jul 08 j 04:03	0°♊	
	-12160 Aug 15 j 22:59	0°♋	
desc. node	-12160 Aug 22 j 08:17	4°♋54'37	
	-12160 Sep 24 j 09:20	0°♌	
evening set	-12160 Oct 13 j 01:15	13°♌51'59	
	-12160 Nov 04 j 05:14	0°♍	
conjunction	-12160 Dec 08 j 12:22	24°♍12'29	-1°04'38
minimum elong	-12160 Dec 08 j 10:16	24°♍08'51	1°04'31
	-12160 Dec 16 j 21:56	0°♎	
max. Earth dist.	-12159 Jan 07 j 07:04	14°♎31'10	2.56756 AU
	-12159 Jan 30 j 14:07	0°♏	
morning rise	-12159 Jan 31 j 02:31	0°♏20'22	
	-12159 Mar 18 j 01:38	0°♐	
	-12159 May 05 j 04:23	0°♑	
	-12159 Jun 24 j 12:54	0°♒	
	-12159 Aug 20 j 13:39	0°♓	
asc. node	-12159 Aug 24 j 04:48	1°♓37'21	
retrograde	-12159 Oct 19 j 03:02	16°♓17'11	
opposition	-12159 Nov 23 j 01:50	9°♓02'50	4°16'03
greatest brilliancy	-12159 Nov 24 j 03:36	8°♓39'58	-2.1m
min. Earth dist.	-12159 Nov 30 j 21:57	6°♓16'26	0.51319 AU
direct	-12159 Dec 31 j 16:28	0°♓12'16	
	-12158 Mar 20 j 18:52	0°♈	
	-12158 May 04 j 22:32	0°♉	
	-12158 Jun 15 j 02:30	0°♊	
desc. node	-12158 Jul 10 j 12:15	18°♊58'06	
	-12158 Jul 25 j 06:18	0°♋	
	-12158 Sep 03 j 18:59	0°♌	
	-12158 Oct 15 j 12:25	0°♍	
	-12158 Nov 27 j 21:17	0°♎	
evening set	-12158 Dec 03 j 06:52	3°♎39'15	
	-12157 Jan 11 j 22:06	0°♏	
conjunction	-12157 Jan 23 j 07:03	7°♏25'39	-1°13'45
minimum elong	-12157 Jan 23 j 07:45	7°♏26'47	1°14'10
max. Earth dist.	-12157 Feb 04 j 16:29	15°♏28'12	2.64157 AU
	-12157 Feb 27 j 06:10	0°♐	
morning rise	-12157 Mar 13 j 04:53	8°♐55'20	
	-12157 Apr 15 j 07:29	0°♑	
	-12157 Jun 01 j 15:09	0°♒	
asc. node	-12157 Jul 11 j 22:27	25°♒23'27	
	-12157 Jul 19 j 07:28	0°♓	
	-12157 Sep 06 j 13:08	0°♈	
	-12157 Nov 01 j 18:27	0°♉	
retrograde	-12157 Dec 24 j 15:07	13°♉56'05	
opposition	-12156 Jan 24 j 18:35	8°♉36'12	7°04'03
greatest brilliancy	-12156 Jan 26 j 00:26	8°♉15'06	-2.7m
min. Earth dist.	-12156 Jan 29 j 15:40	7°♉13'51	0.40194 AU
direct	-12156 Feb 26 j 08:34	2°♉40'04	
	-12156 May 10 j 21:48	0°♊	
desc. node	-12156 May 27 j 17:47	10°♊16'57	
	-12156 Jun 26 j 23:28	0°♋	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12156 Aug 10 j 03:45	0°♌		
	-12156 Sep 23 j 05:19	0°♍		
	-12156 Nov 07 j 03:18	0°♎		
	-12156 Dec 23 j 02:48	0°♏		
evening set	-12155 Jan 14 j 02:10	14°♏08'42		
	-12155 Feb 07 j 20:16	0°♐		
max. Earth dist.	-12155 Feb 28 j 20:02	13°♐25'40	2.66350 AU	
conjunction	-12155 Mar 03 j 12:44	15°♐09'13	-0°48'00	
minimum elong	-12155 Mar 03 j 14:16	15°♐11'40	0°48'40	
	-12155 Mar 26 j 16:01	0°♑		
morning rise	-12155 Apr 19 j 14:13	15°♑27'14		
	-12155 May 11 j 21:43	0°♒		
asc. node	-12155 May 28 j 13:49	10°♒58'08		
	-12155 Jun 26 j 03:54	0°♓		
	-12155 Aug 09 j 10:24	0°♈		
	-12155 Sep 22 j 02:09	0°♉		
	-12155 Nov 04 j 23:37	0°♊		
	-12155 Dec 21 j 13:18	0°♋		
retrograde	-12154 Mar 08 j 21:35	29°♋15'48		
min. Earth dist.	-12154 Apr 05 j 06:47	24°♋32'40	0.41297 AU	
opposition	-12154 Apr 11 j 18:04	22°♋35'11	0°14'07	
greatest brilliancy	-12154 Apr 11 j 16:55	22°♋36'04	-2.7m	
desc. node	-12154 Apr 14 j 22:37	21°♋37'43		
direct	-12154 May 12 j 22:04	16°♋54'26		
	-12154 Jul 02 j 06:03	0°♌		
	-12154 Aug 27 j 14:07	0°♍		
	-12154 Oct 16 j 02:23	0°♎		
	-12154 Dec 03 j 08:04	0°♏		
	-12153 Jan 20 j 03:48	0°♐		
evening set	-12153 Feb 22 j 15:44	21°♐14'54		
	-12153 Mar 08 j 07:27	0°♑		
max. Earth dist.	-12153 Mar 25 j 18:58	11°♑18'28	2.63224 AU	
conjunction	-12153 Apr 11 j 22:26	22°♑31'37	-0°02'07	
minimum elong	-12153 Apr 11 j 22:34	22°♑31'50	0°02'48	
behind sun begin	-12153 Apr 11 j 02:49	21°♑59'20		
behind sun end	-12153 Apr 12 j 18:19	23°♑04'22		
asc. node	-12153 Apr 15 j 06:59	24°♑44'26		
	-12153 Apr 23 j 05:33	0°♒		
morning rise	-12153 May 29 j 17:42	24°♒38'21		
	-12153 Jun 06 j 12:36	0°♓		
	-12153 Jul 19 j 03:07	0°♈		
	-12153 Aug 29 j 07:56	0°♉		
	-12153 Oct 08 j 15:51	0°♊		
	-12153 Nov 17 j 22:47	0°♋		
	-12153 Dec 29 j 12:42	0°♌		
	-12152 Feb 13 j 09:15	0°♍		
desc. node	-12152 Mar 01 j 21:58	9°♍53'01		
retrograde	-12152 Apr 29 j 22:54	28°♍24'09		
min. Earth dist.	-12152 May 31 j 03:19	21°♍52'55	0.53101 AU	
greatest brilliancy	-12152 Jun 06 j 04:45	19°♍36'24	-2.0m	
opposition	-12152 Jun 07 j 10:38	19°♍08'17	-4°47'36	
direct	-12152 Jul 12 j 10:40	11°♍27'30		
	-12152 Sep 14 j 07:10	0°♎		
	-12152 Nov 09 j 15:52	0°♏		
	-12152 Dec 30 j 07:18	0°♐		
	-12151 Feb 16 j 13:16	0°♑		
asc. node	-12151 Mar 02 j 05:56	8°♑45'35		
evening set	-12151 Apr 03 j 12:32	29°♑52'44		
	-12151 Apr 03 j 16:54	0°♒		
max. Earth dist.	-12151 Apr 23 j 06:04	13°♒09'12	2.55109 AU	
	-12151 May 17 j 16:14	0°♓		
conjunction	-12151 May 24 j 02:06	4°♓30'06	0°48'38	
minimum elong	-12151 May 24 j 00:10	4°♓26'42	0°48'16	
	-12151 Jun 28 j 13:35	0°♈		

morning rise	-12151 Jul 15 j 03:59	12°♈15'24		
	-12151 Aug 07 j 18:38	0°♉		
	-12151 Sep 15 j 22:35	0°♊		
	-12151 Oct 24 j 20:49	0°♋		
	-12151 Dec 03 j 11:54	0°♌		
	-12150 Jan 13 j 23:42	0°♍		
desc. node	-12150 Jan 17 j 16:42	2°♍34'52		
	-12150 Feb 28 j 06:05	0°♎		
	-12150 Apr 25 j 03:32	0°♏		
retrograde	-12150 Jun 09 j 03:33	10°♏52'17		
min. Earth dist.	-12150 Jul 15 j 03:03	2°♏31'24	0.62669 AU	
greatest brilliancy	-12150 Jul 18 j 09:21	1°♏13'12	-1.5m	
opposition	-12150 Jul 19 j 01:31	0°♏57'02	-5°15'24	
	-12150 Jul 21 j 10:59	30°℞♎		
direct	-12150 Aug 26 j 04:04	21°♎58'30		
	-12150 Oct 04 j 18:10	0°♏		
	-12150 Dec 07 j 01:33	0°♐		
asc. node	-12149 Jan 18 j 09:28	24°♐30'41		
	-12149 Jan 27 j 09:58	0°♑		
	-12149 Mar 15 j 14:08	0°♒		
	-12149 Apr 28 j 17:52	0°♓		
evening set	-12149 May 20 j 17:50	15°♓38'26		
max. Earth dist.	-12149 Jun 08 j 05:08	29°♓07'06	2.43486 AU	
	-12149 Jun 09 j 09:49	0°♈		
conjunction	-12149 Jul 15 j 22:24	27°♈29'53	1°13'15	
minimum elong	-12149 Jul 15 j 22:46	27°♈30'35	1°13'33	
	-12149 Jul 19 j 04:45	0°♉		
	-12149 Aug 26 j 20:56	0°♊		
morning rise	-12149 Sep 14 j 21:07	14°♊51'24		
	-12149 Oct 04 j 07:12	0°♋		
	-12149 Nov 12 j 08:54	0°♌		
desc. node	-12149 Dec 05 j 10:30	17°♌13'42		
	-12149 Dec 22 j 22:55	0°♍		
	-12148 Feb 03 j 23:01	0°♎		
	-12148 Mar 21 j 16:22	0°♏		
	-12148 May 15 j 14:00	0°♐		
retrograde	-12148 Jul 13 j 18:51	16°♐30'36		
opposition	-12148 Aug 22 j 13:05	6°♐48'38	-3°47'05	
min. Earth dist.	-12148 Aug 22 j 09:52	6°♐51'52	0.66437 AU	
greatest brilliancy	-12148 Aug 22 j 13:20	6°♐48'23	-1.4m	
	-12148 Sep 10 j 14:16	30°℞♏		
direct	-12148 Oct 01 j 14:15	27°♏06'20		
	-12148 Oct 24 j 05:49	0°♐		
asc. node	-12148 Dec 05 j 15:34	15°♐48'11		
	-12147 Jan 02 j 08:01	0°♑		
	-12147 Feb 21 j 19:10	0°♒		
	-12147 Apr 07 j 23:14	0°♓		
	-12147 May 19 j 21:12	0°♈		
	-12147 Jun 28 j 15:19	0°♉		
evening set	-12147 Jul 17 j 13:53	14°♉40'03		
	-12147 Aug 06 j 04:41	0°♊		
	-12147 Sep 13 j 12:17	0°♋		
conjunction	-12147 Sep 17 j 22:33	3°♋26'43	0°25'39	
minimum elong	-12147 Sep 18 j 00:50	3°♋31'11	0°26'21	
desc. node	-12147 Oct 22 j 03:30	29°♋44'24		
	-12147 Oct 22 j 11:44	0°♌		
max. Earth dist.	-12147 Oct 26 j 13:23	3°♌04'43	2.40583 AU	
morning rise	-12147 Nov 20 j 16:57	21°♌49'12		
	-12147 Dec 01 j 21:47	0°♍		
	-12146 Jan 13 j 09:25	0°♎		
	-12146 Feb 27 j 09:57	0°♏		
	-12146 Apr 16 j 17:10	0°♐		
	-12146 Jun 10 j 09:58	0°♑		
retrograde	-12146 Aug 19 j 00:37	20°♑58'12		
opposition	-12146 Sep 26 j 13:52	11°♑56'21	-1°08'38	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

greatest brilliancy	-12146 Sep 26 j 17:54	11°♌52'22	-1.5m
min. Earth dist.	-12146 Sep 30 j 03:55	10°♌31'23	0.64034 AU
asc. node	-12146 Oct 23 j 20:43	3°♌10'35	
direct	-12146 Nov 06 j 08:45	1°♌58'18	
	-12145 Jan 26 j 18:04	0°♒	
	-12145 Mar 16 j 19:55	0°♓	
	-12145 Apr 29 j 00:14	0°♈	
	-12145 Jun 08 j 06:41	0°♉	
	-12145 Jul 17 j 02:52	0°♊	
	-12145 Aug 24 j 16:07	0°♋	
desc. node	-12145 Sep 09 j 00:39	11°♋50'37	
evening set	-12145 Sep 20 j 18:46	20°♋49'58	
	-12145 Oct 02 j 21:16	0°♌	
	-12145 Nov 12 j 12:25	0°♍	
conjunction	-12145 Nov 18 j 21:58	4°♍36'15	-0°47'56
minimum elong	-12145 Nov 18 j 19:20	4°♍31'32	0°47'34
	-12145 Dec 25 j 01:37	0°♎	
max. Earth dist.	-12145 Dec 25 j 15:52	0°♎24'30	2.52604 AU
morning rise	-12144 Jan 14 j 05:48	13°♎43'56	
	-12144 Feb 07 j 17:05	0°♏	
	-12144 Mar 25 j 10:07	0°♐	
	-12144 May 13 j 08:51	0°♑	
	-12144 Jul 05 j 09:55	0°♒	
asc. node	-12144 Sep 09 j 21:38	26°♒58'00	
retrograde	-12144 Sep 29 j 06:27	29°♒07'56	
opposition	-12144 Nov 04 j 12:32	21°♒15'05	2°34'43
greatest brilliancy	-12144 Nov 05 j 02:21	21°♒02'14	-1.8m
min. Earth dist.	-12144 Nov 11 j 11:17	18°♒40'14	0.55806 AU
direct	-12144 Dec 14 j 07:34	11°♒47'54	
	-12143 Feb 12 j 04:16	0°♓	
	-12143 Apr 02 j 22:11	0°♈	
	-12143 May 15 j 09:34	0°♉	
	-12143 Jun 24 j 10:07	0°♊	
desc. node	-12143 Jul 27 j 03:39	24°♊55'07	
	-12143 Aug 02 j 20:11	0°♋	
	-12143 Sep 11 j 19:08	0°♌	
	-12143 Oct 23 j 01:30	0°♍	
evening set	-12143 Nov 14 j 16:37	15°♍56'28	
	-12143 Dec 05 j 02:03	0°♎	
conjunction	-12142 Jan 06 j 11:03	21°♎46'44	-1°15'18
minimum elong	-12142 Jan 06 j 10:45	21°♎46'15	1°15'33
	-12142 Jan 18 j 21:50	0°♏	
max. Earth dist.	-12142 Jan 25 j 10:04	4°♏16'04	2.61866 AU
morning rise	-12142 Feb 25 j 19:26	24°♏36'17	
	-12142 Mar 06 j 05:27	0°♐	
	-12142 Apr 22 j 13:19	0°♑	
	-12142 Jun 09 j 16:18	0°♒	
asc. node	-12142 Jul 28 j 17:31	29°♒39'01	
	-12142 Jul 29 j 07:49	0°♓	
	-12142 Sep 22 j 11:22	0°♈	
retrograde	-12142 Nov 25 j 19:49	18°♈49'47	
opposition	-12142 Dec 28 j 06:37	12°♈47'40	6°38'59
greatest brilliancy	-12142 Dec 29 j 21:32	12°♈17'01	-2.4m
min. Earth dist.	-12141 Jan 04 j 15:57	10°♈28'44	0.43993 AU
direct	-12141 Feb 01 j 16:07	5°♈34'27	
	-12141 Apr 11 j 12:20	0°♉	
	-12141 May 28 j 01:24	0°♊	
desc. node	-12141 Jun 14 j 09:09	12°♊03'27	
	-12141 Jul 09 j 16:22	0°♋	
	-12141 Aug 20 j 18:46	0°♌	
	-12141 Oct 02 j 14:34	0°♍	
	-12141 Nov 15 j 17:41	0°♎	
evening set	-12141 Dec 30 j 02:48	29°♎16'07	
	-12141 Dec 31 j 05:46	0°♏	
	-12140 Feb 15 j 18:01	0°♐	

conjunction	-12140 Feb 17 j 05:50	0°♐57'25	-1°01'06
minimum elong	-12140 Feb 17 j 07:21	0°♐59'50	1°01'42
max. Earth dist.	-12140 Feb 20 j 05:41	2°♐52'32	2.66147 AU
	-12140 Apr 02 j 14:23	0°♑	
morning rise	-12140 Apr 04 j 17:14	1°♑21'32	
	-12140 May 19 j 03:36	0°♒	
asc. node	-12140 Jun 14 j 09:37	17°♒05'28	
	-12140 Jul 04 j 02:20	0°♓	
	-12140 Aug 18 j 14:21	0°♈	
	-12140 Oct 03 j 09:51	0°♉	
	-12140 Nov 20 j 17:40	0°♊	
	-12139 Feb 03 j 17:44	0°♋	
retrograde	-12139 Feb 09 j 17:57	0°♋14'24	
	-12139 Feb 15 j 18:57	30°℞♊	
min. Earth dist.	-12139 Mar 10 j 18:45	25°♊26'32	0.38729 AU
opposition	-12139 Mar 13 j 10:29	24°♊42'40	3°43'42
greatest brilliancy	-12139 Mar 13 j 06:10	24°♊45'38	-2.9m
direct	-12139 Apr 12 j 18:59	19°♊34'16	
desc. node	-12139 May 01 j 13:43	21°♊45'33	
	-12139 May 26 j 07:59	0°♋	
	-12139 Jul 21 j 16:46	0°♌	
	-12139 Sep 07 j 21:39	0°♍	
	-12139 Oct 24 j 21:02	0°♎	
	-12139 Dec 10 j 23:07	0°♏	
	-12138 Jan 27 j 05:50	0°♐	
evening set	-12138 Feb 07 j 09:41	7°♐05'47	
	-12138 Mar 15 j 04:52	0°♑	
max. Earth dist.	-12138 Mar 16 j 00:43	0°♑31'58	2.65086 AU
conjunction	-12138 Mar 27 j 10:54	7°♑54'51	-0°21'27
minimum elong	-12138 Mar 27 j 11:46	7°♑56'15	0°22'08
	-12138 Apr 30 j 04:46	0°♒	
asc. node	-12138 May 02 j 01:18	1°♒13'44	
morning rise	-12138 May 13 j 14:40	8°♒54'59	
	-12138 Jun 13 j 19:07	0°♓	
	-12138 Jul 26 j 21:53	0°♈	
	-12138 Sep 06 j 19:26	0°♉	
	-12138 Oct 18 j 00:24	0°♊	
	-12138 Nov 28 j 11:45	0°♋	
	-12137 Jan 11 j 06:33	0°♌	
	-12137 Mar 06 j 21:13	0°♍	
desc. node	-12137 Mar 19 j 16:49	4°♍30'59	
retrograde	-12137 Apr 12 j 13:00	8°♍14'19	
min. Earth dist.	-12137 May 11 j 17:31	2°♍32'08	0.48257 AU
	-12137 May 18 j 21:19	30°℞♌	
opposition	-12137 May 19 j 16:40	29°♌42'48	-3°36'28
greatest brilliancy	-12137 May 18 j 14:24	0°♍06'10	-2.3m
direct	-12137 Jun 22 j 04:25	22°♌45'24	
	-12137 Jul 28 j 15:42	0°♍	
	-12137 Sep 29 j 04:09	0°♎	
	-12137 Nov 19 j 18:32	0°♏	
	-12136 Jan 07 j 23:21	0°♐	
	-12136 Feb 24 j 16:13	0°♑	
evening set	-12136 Mar 18 j 05:40	14°♑33'33	
asc. node	-12136 Mar 18 j 21:18	14°♑59'01	
	-12136 Apr 10 j 16:28	0°♒	
max. Earth dist.	-12136 Apr 10 j 21:59	0°♒09'11	2.58839 AU
conjunction	-12136 May 06 j 13:09	17°♒26'37	0°29'47
minimum elong	-12136 May 06 j 11:53	17°♒24'27	0°29'15
	-12136 May 24 j 17:54	0°♓	
morning rise	-12136 Jun 25 j 09:07	22°♓24'36	
	-12136 Jul 05 j 20:47	0°♈	
	-12136 Aug 15 j 09:29	0°♉	
	-12136 Sep 23 j 22:04	0°♊	
	-12136 Nov 02 j 05:23	0°♋	
	-12136 Dec 12 j 07:43	0°♌	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12135 Jan 23 j 15:59	0°♍		
desc. node	-12135 Feb 03 j 14:07	7°♍18'05		
	-12135 Mar 12 j 11:42	0°♎		
retrograde	-12135 May 25 j 09:59	25°♎44'27		
min. Earth dist.	-12135 Jun 28 j 15:05	18°♎03'04	0.59519 AU	
greatest brilliancy	-12135 Jul 03 j 01:12	16°♎18'39	-1.7m	
opposition	-12135 Jul 04 j 00:30	15°♎55'43	-5°23'45	
direct	-12135 Aug 10 j 01:16	7°♎22'51		
	-12135 Oct 22 j 04:04	0°♏		
	-12135 Dec 16 j 11:48	0°♐		
asc. node	-12134 Feb 03 j 23:13	29°♐50'13		
	-12134 Feb 04 j 05:30	0°♑		
	-12134 Mar 22 j 21:24	0°♒		
evening set	-12134 May 01 j 06:33	26°♒44'42		
	-12134 May 05 j 22:22	0°♓		
max. Earth dist.	-12134 May 17 j 09:45	8°♓06'00	2.48206 AU	
	-12134 Jun 16 j 15:38	0°♈		
conjunction	-12134 Jun 23 j 20:04	5°♈18'51	1°10'00	
minimum elong	-12134 Jun 23 j 18:36	5°♈16'09	1°10'03	
	-12134 Jul 26 j 13:38	0°♉		
morning rise	-12134 Aug 19 j 23:15	18°♉47'49		
	-12134 Sep 03 j 09:24	0°♊		
	-12134 Oct 11 j 22:59	0°♋		
	-12134 Nov 20 j 04:02	0°♌		
desc. node	-12134 Dec 22 j 06:29	23°♌44'24		
	-12134 Dec 30 j 23:06	0°♍		
	-12133 Feb 12 j 11:10	0°♎		
	-12133 Apr 01 j 19:28	0°♏		
	-12133 Jun 07 j 17:30	0°♐		
retrograde	-12133 Jul 01 j 03:08	3°♐13'16		
	-12133 Jul 22 j 23:11	30°℞♏		
min. Earth dist.	-12133 Aug 08 j 11:14	24°♏01'32	0.65689 AU	
opposition	-12133 Aug 10 j 02:04	23°♏22'27	-4°30'46	
greatest brilliancy	-12133 Aug 09 j 20:48	23°♏27'45	-1.4m	
direct	-12133 Sep 18 j 12:07	13°♏54'05		
	-12133 Nov 17 j 02:31	0°♐		
asc. node	-12133 Dec 23 j 04:55	18°♐07'16		
	-12132 Jan 13 j 05:42	0°♑		
	-12132 Mar 01 j 22:50	0°♒		
	-12132 Apr 15 j 14:32	0°♓		
	-12132 May 27 j 08:58	0°♈		
evening set	-12132 Jun 23 j 03:41	20°♈05'26		
	-12132 Jul 06 j 02:32	0°♉		
	-12132 Aug 13 j 16:07	0°♊		
max. Earth dist.	-12132 Aug 19 j 15:37	4°♊41'19	2.38333 AU	
conjunction	-12132 Aug 22 j 18:11	7°♊07'30	0°53'16	
minimum elong	-12132 Aug 22 j 21:33	7°♊14'05	0°53'53	
	-12132 Sep 20 j 23:36	0°♋		
morning rise	-12132 Oct 26 j 06:59	27°♋13'36		
	-12132 Oct 29 j 22:38	0°♌		
desc. node	-12132 Nov 07 j 23:13	6°♌48'49		
	-12132 Dec 09 j 08:35	0°♍		
	-12131 Jan 20 j 22:15	0°♎		
	-12131 Mar 07 j 08:14	0°♏		
	-12131 Apr 26 j 00:36	0°♐		
	-12131 Jun 27 j 09:43	0°♑		
retrograde	-12131 Aug 04 j 14:05	7°♑36'22		
	-12131 Sep 08 j 08:34	30°℞♐		
opposition	-12131 Sep 12 j 17:41	28°♐16'01	-2°17'40	
greatest brilliancy	-12131 Sep 12 j 22:28	28°♐11'15	-1.4m	
min. Earth dist.	-12131 Sep 14 j 21:15	27°♐24'35	0.65698 AU	
direct	-12131 Oct 23 j 09:35	18°♐20'27		
asc. node	-12131 Nov 09 j 11:04	20°♐03'10		
	-12131 Dec 11 j 00:28	0°♑		
	-12130 Feb 06 j 18:48	0°♒		
	-12130 Mar 25 j 16:08	0°♓		
	-12130 May 07 j 04:26	0°♈		
	-12130 Jun 16 j 04:17	0°♉		
	-12130 Jul 24 j 20:37	0°♊		
evening set	-12130 Aug 26 j 18:34	25°♊43'29		
	-12130 Sep 01 j 06:24	0°♋		
desc. node	-12130 Sep 25 j 19:03	18°♋56'06		
	-12130 Oct 10 j 07:58	0°♌		
conjunction	-12130 Oct 27 j 06:06	12°♌41'45	-0°23'09	
minimum elong	-12130 Oct 27 j 04:20	12°♌38'28	0°22'35	
	-12130 Nov 19 j 19:40	0°♍		
max. Earth dist.	-12130 Dec 08 j 20:23	13°♍38'10	2.47894 AU	
morning rise	-12130 Dec 25 j 17:12	25°♍28'10		
	-12129 Jan 01 j 06:25	0°♎		
	-12129 Feb 14 j 22:55	0°♏		
	-12129 Apr 03 j 01:14	0°♐		
	-12129 May 23 j 07:36	0°♑		
	-12129 Jul 20 j 21:13	0°♒		
retrograde	-12129 Sep 12 j 15:52	13°♒37'37		
asc. node	-12129 Sep 27 j 14:37	12°♒10'35		
opposition	-12129 Oct 19 j 23:15	5°♒13'26	1°00'15	
greatest brilliancy	-12129 Oct 20 j 03:42	5°♒09'09	-1.7m	
min. Earth dist.	-12129 Oct 25 j 17:03	3°♒01'20	0.59656 AU	
	-12129 Nov 03 j 03:26	30°℞♑		
direct	-12129 Nov 29 j 10:35	25°♑25'46		
	-12129 Dec 27 j 10:33	0°♒		
	-12128 Feb 27 j 18:10	0°♓		
	-12128 Apr 13 j 09:14	0°♈		
	-12128 May 24 j 14:39	0°♉		
	-12128 Jul 02 j 23:54	0°♊		
	-12128 Aug 10 j 22:59	0°♋		
desc. node	-12128 Aug 12 j 19:07	1°♋24'34		
	-12128 Sep 19 j 12:47	0°♌		
evening set	-12128 Oct 25 j 10:46	26°♌23'00		
	-12128 Oct 30 j 11:23	0°♍		
	-12128 Dec 12 j 05:48	0°♎		
conjunction	-12128 Dec 19 j 11:17	4°♎56'20	-1°10'35	
minimum elong	-12128 Dec 19 j 09:49	4°♎53'50	1°10'36	
max. Earth dist.	-12127 Jan 14 j 08:18	22°♎20'28	2.58794 AU	
	-12127 Jan 25 j 22:14	0°♏		
morning rise	-12127 Feb 09 j 17:52	9°♏41'42		
	-12127 Mar 13 j 07:08	0°♐		
	-12127 Apr 30 j 01:08	0°♑		
	-12127 Jun 18 j 09:20	0°♒		
	-12127 Aug 10 j 14:09	0°♓		
asc. node	-12127 Aug 14 j 12:11	2°♓01'38		
retrograde	-12127 Oct 31 j 16:59	27°♓25'40		
opposition	-12127 Dec 04 j 18:53	20°♓35'36	5°13'06	
greatest brilliancy	-12127 Dec 06 j 03:25	20°♓07'43	-2.2m	
min. Earth dist.	-12127 Dec 12 j 19:49	17°♓50'49	0.48698 AU	
direct	-12126 Jan 11 j 11:58	12°♓13'22		
	-12126 Mar 09 j 21:17	0°♈		
	-12126 Apr 27 j 13:08	0°♉		
	-12126 Jun 08 j 20:09	0°♊		
desc. node	-12126 Jul 01 j 00:29	16°♊17'14		
	-12126 Jul 19 j 14:18	0°♋		
	-12126 Aug 29 j 12:41	0°♌		
	-12126 Oct 10 j 13:06	0°♍		
	-12126 Nov 23 j 02:46	0°♎		
evening set	-12126 Dec 13 j 09:12	13°♎35'13		
	-12125 Jan 07 j 06:32	0°♏		
conjunction	-12125 Feb 01 j 14:15	16°♏27'21	-1°10'24	
minimum elong	-12125 Feb 01 j 15:22	16°♏29'09	1°10'54	
max. Earth dist.	-12125 Feb 10 j 12:34	22°♏12'56	2.65104 AU	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12125 Feb 22 j 15:21	0°♐	
morning rise	-12125 Mar 21 j 20:54	17°♐25'09	
	-12125 Apr 10 j 14:08	0°♑	
	-12125 May 27 j 14:02	0°♒	
asc. node	-12125 Jul 02 j 04:58	22°♒46'53	
	-12125 Jul 13 j 12:18	0°♓	
	-12125 Aug 29 j 23:51	0°♈	
	-12125 Oct 19 j 06:59	0°♉	
	-12124 Jan 05 j 16:24	0°♊	
retrograde	-12124 Jan 11 j 04:43	0°♊11'22	
	-12124 Jan 16 j 15:47	30°℞♉	
opposition	-12124 Feb 10 j 21:33	25°♉02'26	6°27'11
greatest brilliancy	-12124 Feb 11 j 15:09	24°♉50'31	-2.8m
min. Earth dist.	-12124 Feb 13 j 10:49	24°♉21'00	0.38926 AU
direct	-12124 Mar 13 j 06:30	19°♉38'05	
	-12124 Apr 24 j 19:03	0°♊	
desc. node	-12124 May 18 j 07:06	11°♊40'52	
	-12124 Jun 18 j 06:16	0°♋	
	-12124 Aug 03 j 12:21	0°♌	
	-12124 Sep 17 j 14:01	0°♍	
	-12124 Nov 02 j 01:09	0°♎	
	-12124 Dec 18 j 08:04	0°♏	
evening set	-12123 Jan 23 j 01:35	22°♏52'40	
	-12123 Feb 03 j 05:22	0°♐	
max. Earth dist.	-12123 Mar 06 j 11:13	19°♐58'22	2.66133 AU
conjunction	-12123 Mar 12 j 06:24	23°♐41'34	-0°38'57
minimum elong	-12123 Mar 12 j 07:46	23°♐43'47	0°39'39
	-12123 Mar 22 j 01:53	0°♑	
morning rise	-12123 Apr 28 j 05:52	24°♑06'30	
	-12123 May 07 j 05:23	0°♒	
asc. node	-12123 May 18 j 19:49	7°♒39'24	
	-12123 Jun 21 j 05:20	0°♓	
	-12123 Aug 04 j 00:29	0°♈	
	-12123 Sep 15 j 21:52	0°♉	
	-12123 Oct 28 j 12:56	0°♊	
	-12123 Dec 11 j 08:52	0°♋	
	-12122 Jan 30 j 17:46	0°♌	
retrograde	-12122 Mar 22 j 09:56	14°♌38'52	
desc. node	-12122 Apr 05 j 10:20	13°♌15'03	
min. Earth dist.	-12122 Apr 19 j 02:09	9°♌39'32	0.43540 AU
opposition	-12122 Apr 26 j 13:57	7°♌14'19	-1°27'50
greatest brilliancy	-12122 Apr 26 j 02:54	7°♌23'18	-2.6m
direct	-12122 May 28 j 13:58	1°♌06'12	
	-12122 Aug 19 j 00:04	0°♍	
	-12122 Oct 09 j 23:40	0°♎	
	-12122 Nov 28 j 03:11	0°♏	
	-12121 Jan 15 j 08:43	0°♐	
evening set	-12121 Mar 03 j 12:47	29°♐54'02	
	-12121 Mar 03 j 16:30	0°♑	
max. Earth dist.	-12121 Mar 31 j 22:27	18°♑18'48	2.61880 AU
asc. node	-12121 Apr 05 j 13:56	21°♑21'42	
	-12121 Apr 18 j 15:31	0°♒	
conjunction	-12121 Apr 21 j 01:32	1°♒36'32	0°09'36
minimum elong	-12121 Apr 21 j 01:08	1°♒35'52	0°08'59
behind sun begin	-12121 Apr 20 j 08:11	1°♒07'39	
behind sun end	-12121 Apr 21 j 18:06	2°♒04'06	
	-12121 Jun 01 j 20:49	0°♓	
morning rise	-12121 Jun 08 j 09:48	4°♓32'42	
	-12121 Jul 14 j 07:16	0°♈	
	-12121 Aug 24 j 05:51	0°♉	
	-12121 Oct 03 j 05:51	0°♊	
	-12121 Nov 12 j 02:05	0°♋	
	-12121 Dec 22 j 22:40	0°♌	
	-12120 Feb 04 j 22:18	0°♍	
desc. node	-12120 Feb 21 j 08:51	10°♍08'55	
	-12120 Mar 31 j 00:14	0°♎	
retrograde	-12120 May 09 j 15:03	9°♎09'10	
min. Earth dist.	-12120 Jun 10 j 22:04	2°♎12'06	0.55579 AU
greatest brilliancy	-12120 Jun 16 j 10:41	0°♎05'02	-1.8m
	-12120 Jun 16 j 15:55	30°℞♍	
opposition	-12120 Jun 17 j 15:24	29°♍37'27	-5°09'42
direct	-12120 Jul 23 j 10:19	21°♍36'06	
	-12120 Sep 01 j 14:07	0°♎	
	-12120 Nov 03 j 02:41	0°♏	
	-12120 Dec 25 j 00:13	0°♐	
	-12119 Feb 11 j 17:07	0°♑	
asc. node	-12119 Feb 20 j 13:53	5°♑37'30	
	-12119 Mar 30 j 00:58	0°♒	
evening set	-12119 Apr 13 j 07:33	9°♒33'37	
max. Earth dist.	-12119 May 01 j 06:13	21°♒48'36	2.52776 AU
	-12119 May 13 j 01:09	0°♓	
conjunction	-12119 Jun 03 j 18:45	15°♓24'13	0°58'03
minimum elong	-12119 Jun 03 j 16:43	15°♓20'34	0°57'49
	-12119 Jun 23 j 21:26	0°♈	
morning rise	-12119 Jul 27 j 10:14	25°♈00'32	
	-12119 Aug 03 j 00:10	0°♉	
	-12119 Sep 11 j 01:12	0°♊	
	-12119 Oct 19 j 19:49	0°♋	
	-12119 Nov 28 j 06:07	0°♌	
desc. node	-12118 Jan 08 j 03:36	29°♌49'29	
	-12118 Jan 08 j 09:33	0°♍	
	-12118 Feb 21 j 18:17	0°♎	
	-12118 Apr 14 j 09:25	0°♏	
retrograde	-12118 Jun 17 j 07:09	19°♏29'13	
min. Earth dist.	-12118 Jul 24 j 04:20	10°♏48'50	0.63999 AU
opposition	-12118 Jul 27 j 06:56	9°♏34'00	-5°03'01
greatest brilliancy	-12118 Jul 26 j 18:52	9°♏46'07	-1.5m
direct	-12118 Sep 03 j 22:02	0°♏23'34	
	-12118 Nov 30 j 03:58	0°♐	
asc. node	-12117 Jan 08 j 18:50	22°♐06'44	
	-12117 Jan 22 j 00:36	0°♑	
	-12117 Mar 10 j 16:24	0°♒	
	-12117 Apr 24 j 00:17	0°♓	
evening set	-12117 Jun 01 j 16:16	27°♓45'25	
	-12117 Jun 04 j 17:16	0°♈	
max. Earth dist.	-12117 Jun 26 j 03:54	16°♈01'47	2.41034 AU
	-12117 Jul 14 j 11:43	0°♉	
conjunction	-12117 Jul 29 j 12:09	11°♉35'38	1°09'46
minimum elong	-12117 Jul 29 j 13:54	11°♉39'01	1°10'13
	-12117 Aug 22 j 02:54	0°♊	
	-12117 Sep 29 j 11:50	0°♋	
morning rise	-12117 Sep 30 j 06:41	0°♋36'41	
	-12117 Nov 07 j 11:55	0°♌	
desc. node	-12117 Nov 25 j 19:08	13°♌44'04	
	-12117 Dec 17 j 23:30	0°♍	
	-12116 Jan 29 j 17:51	0°♎	
	-12116 Mar 15 j 19:36	0°♏	
	-12116 May 06 j 23:35	0°♐	
retrograde	-12116 Jul 21 j 15:51	24°♐28'19	
opposition	-12116 Aug 30 j 06:08	14°♐53'06	-3°17'02
greatest brilliancy	-12116 Aug 30 j 08:39	14°♐50'34	-1.4m
min. Earth dist.	-12116 Aug 30 j 22:43	14°♐36'28	0.66447 AU
direct	-12116 Oct 09 j 14:02	5°♐04'50	
asc. node	-12116 Nov 26 j 01:20	16°♐07'49	
	-12116 Dec 25 j 23:19	0°♑	
	-12115 Feb 16 j 05:12	0°♒	
	-12115 Apr 02 j 21:57	0°♓	
	-12115 May 15 j 00:45	0°♈	
	-12115 Jun 23 j 20:42	0°♉	
evening set	-12115 Aug 01 j 00:04	29°♉39'01	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12115 Aug 01 j 10:47	0°♊	
	-12115 Sep 08 j 18:26	0°♋	
conjunction	-12115 Oct 02 j 14:53	18°♋27'42	0°07'34
minimum elong	-12115 Oct 02 j 15:37	18°♋29'07	0°08'14
behind sun begin	-12115 Oct 01 j 16:16	17°♋44'18	
behind sun end	-12115 Oct 03 j 14:58	19°♋13'55	
desc. node	-12115 Oct 12 j 13:08	26°♋03'23	
	-12115 Oct 17 j 17:40	0°♌	
max. Earth dist.	-12115 Nov 15 j 05:13	21°♌17'17	2.43029 AU
	-12115 Nov 27 j 03:17	0°♍	
morning rise	-12115 Dec 04 j 03:07	5°♍03'22	
	-12114 Jan 08 j 13:13	0°♎	
	-12114 Feb 22 j 09:09	0°♏	
	-12114 Apr 11 j 02:15	0°♐	
	-12114 Jun 02 j 13:34	0°♑	
retrograde	-12114 Aug 27 j 16:22	29°♑17'42	
opposition	-12114 Oct 04 j 20:25	20°♑27'58	-0°24'14
greatest brilliancy	-12114 Oct 04 j 22:16	20°♑26'10	-1.6m
min. Earth dist.	-12114 Oct 09 j 05:32	18°♑45'08	0.62731 AU
asc. node	-12114 Oct 14 j 05:32	16°♑51'07	
direct	-12114 Nov 14 j 14:55	10°♑31'21	
	-12113 Jan 18 j 04:43	0°♒	
	-12113 Mar 10 j 17:37	0°♓	
	-12113 Apr 23 j 14:28	0°♈	
	-12113 Jun 03 j 03:54	0°♉	
	-12113 Jul 12 j 04:04	0°♊	
	-12113 Aug 19 j 19:54	0°♋	
desc. node	-12113 Aug 30 j 13:00	8°♋15'19	
	-12113 Sep 28 j 02:55	0°♌	
evening set	-12113 Oct 04 j 05:00	4°♌33'54	
	-12113 Nov 07 j 19:26	0°♍	
conjunction	-12113 Nov 30 j 21:28	16°♍26'46	-0°58'28
minimum elong	-12113 Nov 30 j 19:02	16°♍22'28	0°58'15
	-12113 Dec 20 j 09:01	0°♎	
max. Earth dist.	-12112 Jan 02 j 21:38	9°♎14'26	2.54969 AU
morning rise	-12112 Jan 24 j 15:51	23°♎50'29	
	-12112 Feb 02 j 23:31	0°♏	
	-12112 Mar 20 j 11:59	0°♐	
	-12112 May 07 j 21:26	0°♑	
	-12112 Jun 28 j 03:52	0°♒	
	-12112 Aug 28 j 20:27	0°♓	
asc. node	-12112 Aug 31 j 05:23	0°♓52'35	
retrograde	-12112 Oct 10 j 06:06	9°♓05'09	
opposition	-12112 Nov 14 j 19:32	1°♓32'46	3°31'59
greatest brilliancy	-12112 Nov 15 j 16:01	1°♓14'10	-2.0m
	-12112 Nov 19 j 01:25	30°♑♒	
min. Earth dist.	-12112 Nov 22 j 07:50	28°♒49'21	0.53391 AU
direct	-12112 Dec 24 j 01:12	22°♒23'23	
	-12111 Jan 29 j 02:30	0°♓	
	-12111 Mar 26 j 08:55	0°♈	
	-12111 May 09 j 03:38	0°♉	
	-12111 Jun 18 j 18:15	0°♊	
desc. node	-12111 Jul 17 j 16:27	21°♊48'42	
	-12111 Jul 28 j 13:03	0°♋	
	-12111 Sep 06 j 18:18	0°♌	
	-12111 Oct 18 j 05:30	0°♍	
evening set	-12111 Nov 25 j 11:45	26°♍39'40	
	-12111 Nov 30 j 09:09	0°♎	
	-12110 Jan 14 j 06:34	0°♏	
conjunction	-12110 Jan 16 j 05:47	1°♏17'29	-1°15'04
minimum elong	-12110 Jan 16 j 06:05	1°♏18'00	1°15'24
max. Earth dist.	-12110 Jan 31 j 14:12	11°♏18'47	2.63224 AU
	-12110 Mar 01 j 13:28	0°♐	
morning rise	-12110 Mar 06 j 17:54	3°♐19'09	
	-12110 Apr 17 j 16:59	0°♑	
	-12110 Jun 04 j 08:17	0°♒	
asc. node	-12110 Jul 18 j 23:33	27°♒41'41	
	-12110 Jul 22 j 18:10	0°♓	
	-12110 Sep 11 j 20:59	0°♈	
	-12110 Nov 19 j 06:40	0°♉	
retrograde	-12110 Dec 11 j 13:17	2°♉53'18	
	-12109 Jan 02 j 11:04	30°♑♈	
opposition	-12109 Jan 12 j 06:05	27°♈16'30	7°04'11
greatest brilliancy	-12109 Jan 13 j 18:27	26°♈49'31	-2.6m
min. Earth dist.	-12109 Jan 18 j 13:27	25°♈24'57	0.41712 AU
direct	-12109 Feb 15 j 01:52	20°♈46'51	
	-12109 Mar 26 j 08:45	0°♉	
	-12109 May 19 j 05:54	0°♊	
desc. node	-12109 Jun 04 j 21:35	10°♊56'39	
	-12109 Jul 02 j 19:41	0°♋	
	-12109 Aug 14 j 21:24	0°♌	
	-12109 Sep 27 j 07:30	0°♍	
	-12109 Nov 10 j 19:23	0°♎	
	-12109 Dec 26 j 12:49	0°♏	
evening set	-12108 Jan 08 j 09:02	8°♏18'32	
	-12108 Feb 11 j 03:21	0°♐	
conjunction	-12108 Feb 26 j 01:59	9°♐34'00	-0°53'54
minimum elong	-12108 Feb 26 j 03:33	9°♐36'30	0°54'33
max. Earth dist.	-12108 Feb 25 j 20:25	9°♐25'04	2.66362 AU
	-12108 Mar 28 j 23:12	0°♑	
morning rise	-12108 Apr 13 j 06:53	9°♑51'32	
	-12108 May 14 j 08:25	0°♒	
asc. node	-12108 Jun 04 j 15:03	13°♒56'20	
	-12108 Jun 28 j 21:46	0°♓	
	-12108 Aug 12 j 16:32	0°♈	
	-12108 Sep 26 j 03:48	0°♉	
	-12108 Nov 10 j 11:54	0°♊	
	-12108 Dec 31 j 00:39	0°♋	
retrograde	-12107 Feb 25 j 14:48	17°♋17'10	
min. Earth dist.	-12107 Mar 25 j 08:08	12°♋38'21	0.39851 AU
opposition	-12107 Mar 30 j 09:26	11°♋11'06	1°43'38
greatest brilliancy	-12107 Mar 30 j 03:41	11°♋15'15	-2.8m
desc. node	-12107 Apr 22 j 02:52	6°♋13'11	
direct	-12107 Apr 30 j 00:17	5°♋49'01	
	-12107 Jul 11 j 11:29	0°♌	
	-12107 Sep 01 j 02:20	0°♍	
	-12107 Oct 19 j 07:21	0°♎	
	-12107 Dec 05 j 23:27	0°♏	
	-12106 Jan 22 j 12:57	0°♐	
evening set	-12106 Feb 16 j 04:11	15°♐38'12	
	-12106 Mar 10 j 14:41	0°♑	
max. Earth dist.	-12106 Mar 21 j 18:45	7°♑12'29	2.64154 AU
conjunction	-12106 Apr 05 j 07:13	16°♑39'02	-0°10'26
minimum elong	-12106 Apr 05 j 07:40	16°♑39'46	0°11'07
behind sun begin	-12106 Apr 04 j 17:15	16°♑16'13	
behind sun end	-12106 Apr 05 j 22:06	17°♑03'19	
asc. node	-12106 Apr 22 j 07:42	27°♑50'03	
	-12106 Apr 25 j 14:13	0°♒	
morning rise	-12106 May 22 j 18:07	18°♒11'57	
	-12106 Jun 09 j 01:04	0°♓	
	-12106 Jul 21 j 21:33	0°♈	
	-12106 Sep 01 j 09:42	0°♉	
	-12106 Oct 12 j 02:22	0°♊	
	-12106 Nov 21 j 19:40	0°♋	
	-12105 Jan 03 j 02:33	0°♌	
	-12105 Feb 20 j 01:49	0°♍	
desc. node	-12105 Mar 10 j 03:50	9°♍05'35	
retrograde	-12105 Apr 23 j 07:10	20°♍27'23	
min. Earth dist.	-12105 May 23 j 13:42	14°♍18'41	0.50968 AU

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

greatest brilliancy	-12105 May 30 j 01:22	11°♍56'01	-2.1m
opposition	-12105 May 31 j 06:56	11°♍28'49	-4°23'14
direct	-12105 Jul 04 j 15:14	4°♍06'36	
	-12105 Sep 21 j 01:01	0°♎	
	-12105 Nov 13 j 23:20	0°♏	
	-12104 Jan 02 j 22:42	0°♐	
	-12104 Feb 19 j 23:14	0°♑	
asc. node	-12104 Mar 09 j 05:49	11°♑43'43	
evening set	-12104 Mar 27 j 11:12	23°♑37'33	
	-12104 Apr 06 j 02:22	0°♒	
max. Earth dist.	-12104 Apr 17 j 19:39	7°♒50'37	2.56863 AU
conjunction	-12104 May 16 j 09:35	27°♒23'21	0°40'51
minimum elong	-12104 May 16 j 07:53	27°♒20'25	0°40'26
	-12104 May 20 j 03:36	0°♓	
	-12104 Jul 01 j 04:19	0°♈	
morning rise	-12104 Jul 06 j 08:49	3°♈47'43	
	-12104 Aug 10 j 13:10	0°♉	
	-12104 Sep 18 j 21:00	0°♊	
	-12104 Oct 27 j 22:41	0°♋	
	-12104 Dec 06 j 17:16	0°♌	
	-12103 Jan 17 j 11:12	0°♍	
desc. node	-12103 Jan 24 j 22:45	5°♍08'26	
	-12103 Mar 04 j 11:09	0°♎	
	-12103 May 05 j 01:13	0°♏	
retrograde	-12103 Jun 03 j 00:12	4°♏58'55	
	-12103 Jun 30 j 00:35	30°℞♎	
min. Earth dist.	-12103 Jul 08 j 05:35	26°♎54'53	0.61381 AU
opposition	-12103 Jul 12 j 19:37	25°♎05'37	-5°21'19
greatest brilliancy	-12103 Jul 12 j 00:15	25°♎24'52	-1.6m
direct	-12103 Aug 19 j 11:40	16°♎17'44	
	-12103 Oct 12 j 09:33	0°♏	
	-12103 Dec 10 j 11:44	0°♐	
asc. node	-12102 Jan 25 j 08:42	27°♐03'53	
	-12102 Jan 30 j 03:10	0°♑	
	-12102 Mar 18 j 03:09	0°♒	
	-12102 May 01 j 06:53	0°♓	
evening set	-12102 May 12 j 03:04	7°♓38'20	
max. Earth dist.	-12102 May 28 j 18:07	19°♓34'05	2.45599 AU
	-12102 Jun 12 j 00:38	0°♈	
conjunction	-12102 Jul 06 j 01:41	17°♈57'13	1°13'09
minimum elong	-12102 Jul 06 j 01:07	17°♈56'09	1°13'21
	-12102 Jul 21 j 21:37	0°♉	
	-12102 Aug 29 j 15:40	0°♊	
morning rise	-12102 Sep 03 j 07:59	3°♊39'03	
	-12102 Oct 07 j 03:05	0°♋	
	-12102 Nov 15 j 05:13	0°♌	
desc. node	-12102 Dec 12 j 16:36	20°♌27'34	
	-12102 Dec 25 j 19:53	0°♍	
	-12101 Feb 06 j 22:28	0°♎	
	-12101 Mar 26 j 03:03	0°♏	
	-12101 May 22 j 18:23	0°♐	
retrograde	-12101 Jul 09 j 00:20	11°♐20'20	
opposition	-12101 Aug 17 j 21:30	1°♐33'57	-4°06'37
min. Earth dist.	-12101 Aug 17 j 02:43	1°♐52'52	0.66230 AU
greatest brilliancy	-12101 Aug 17 j 19:31	1°♐35'57	-1.4m
	-12101 Aug 21 j 19:27	30°℞♏	
direct	-12101 Sep 26 j 16:48	21°♏57'14	
	-12101 Nov 05 j 10:11	0°♐	
asc. node	-12101 Dec 13 j 14:23	16°♐53'20	
	-12100 Jan 07 j 00:04	0°♑	
	-12100 Feb 25 j 17:20	0°♒	
	-12100 Apr 10 j 17:09	0°♓	
	-12100 May 22 j 14:47	0°♈	
	-12100 Jul 01 j 09:20	0°♉	
evening set	-12100 Jul 06 j 17:48	4°♉07'26	
	-12100 Aug 08 j 23:08	0°♊	
conjunction	-12100 Sep 06 j 12:06	22°♊22'21	0°38'39
minimum elong	-12100 Sep 06 j 15:13	22°♊28'27	0°39'19
	-12100 Sep 16 j 06:28	0°♋	
max. Earth dist.	-12100 Oct 02 j 23:31	12°♋58'29	2.39013 AU
	-12100 Oct 25 j 04:52	0°♌	
desc. node	-12100 Oct 29 j 09:48	3°♌11'06	
morning rise	-12100 Nov 09 j 22:18	11°♌50'35	
	-12100 Dec 04 j 13:40	0°♍	
	-12099 Jan 16 j 00:24	0°♎	
	-12099 Mar 02 j 02:44	0°♏	
	-12099 Apr 19 j 19:40	0°♐	
	-12099 Jun 15 j 14:18	0°♑	
retrograde	-12099 Aug 12 j 19:11	15°♑40'34	
opposition	-12099 Sep 20 j 15:49	6°♑30'00	-1°38'45
greatest brilliancy	-12099 Sep 20 j 20:32	6°♑25'19	-1.4m
min. Earth dist.	-12099 Sep 23 j 14:54	5°♑19'30	0.64902 AU
	-12099 Oct 08 j 11:54	30°℞♐	
asc. node	-12099 Oct 30 j 20:00	26°♐32'25	
direct	-12099 Oct 31 j 10:33	26°♐32'16	
	-12099 Nov 25 j 02:16	0°♑	
	-12098 Jan 31 j 01:12	0°♒	
	-12098 Mar 20 j 03:22	0°♓	
	-12098 May 02 j 01:36	0°♈	
	-12098 Jun 11 j 05:38	0°♉	
	-12098 Jul 20 j 00:14	0°♊	
	-12098 Aug 27 j 11:33	0°♋	
evening set	-12098 Sep 10 j 01:48	10°♋31'03	
desc. node	-12098 Sep 16 j 06:05	15°♋16'07	
	-12098 Oct 05 j 14:11	0°♌	
conjunction	-12098 Nov 09 j 08:55	25°♌49'48	-0°38'11
minimum elong	-12098 Nov 09 j 06:25	25°♌45'16	0°37'43
	-12098 Nov 15 j 02:40	0°♍	
max. Earth dist.	-12098 Dec 19 j 00:28	24°♍05'03	2.50547 AU
	-12098 Dec 27 j 13:19	0°♎	
morning rise	-12097 Jan 06 j 02:02	6°♎32'08	
	-12097 Feb 10 j 03:44	0°♏	
	-12097 Mar 28 j 22:54	0°♐	
	-12097 May 17 j 08:04	0°♑	
	-12097 Jul 11 j 01:21	0°♒	
asc. node	-12097 Sep 17 j 21:59	22°♒37'25	
retrograde	-12097 Sep 22 j 11:21	22°♒45'08	
opposition	-12097 Oct 29 j 05:42	14°♒37'31	1°53'19
greatest brilliancy	-12097 Oct 29 j 15:05	14°♒28'40	-1.8m
min. Earth dist.	-12097 Nov 04 j 16:31	12°♒11'29	0.57634 AU
direct	-12097 Dec 08 j 09:51	4°♒59'20	
	-12096 Feb 19 j 11:17	0°♓	
	-12096 Apr 07 j 02:35	0°♈	
	-12096 May 18 j 23:56	0°♉	
	-12096 Jun 27 j 17:16	0°♊	
desc. node	-12096 Aug 03 j 08:04	28°♊02'20	
	-12096 Aug 05 j 21:43	0°♋	
	-12096 Sep 14 j 15:21	0°♌	
	-12096 Oct 25 j 16:58	0°♍	
evening set	-12096 Nov 06 j 04:34	8°♍10'17	
	-12096 Dec 07 j 13:20	0°♎	
conjunction	-12096 Dec 29 j 22:17	15°♎09'35	-1°14'06
minimum elong	-12096 Dec 29 j 21:30	15°♎08'17	1°14'15
max. Earth dist.	-12095 Jan 21 j 00:22	29°♎50'01	2.60584 AU
	-12095 Jan 21 j 06:26	0°♏	
morning rise	-12095 Feb 19 j 02:03	18°♏46'34	
	-12095 Mar 08 j 13:29	0°♐	
	-12095 Apr 25 j 00:49	0°♑	
	-12095 Jun 12 j 14:30	0°♒	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12095 Aug 02 j 10:52	0°♓	
asc. node	-12095 Aug 04 j 18:39	1°♓18'25	
	-12095 Oct 02 j 01:06	0°♈	
retrograde	-12095 Nov 14 j 10:49	9°♈33'58	
opposition	-12095 Dec 17 j 15:01	3°♈10'00	6°05'29
greatest brilliancy	-12095 Dec 19 j 04:26	2°♈39'15	-2.3m
min. Earth dist.	-12095 Dec 25 j 11:21	0°♈35'58	0.46055 AU
	-12095 Dec 27 j 09:11	30°♓	
direct	-12094 Jan 23 j 03:14	25°♓23'28	
	-12094 Feb 19 j 01:28	0°♈	
	-12094 Apr 18 j 18:47	0°♉	
	-12094 Jun 01 j 23:05	0°♊	
desc. node	-12094 Jun 21 j 13:27	14°♊01'35	
	-12094 Jul 13 j 14:49	0°♋	
	-12094 Aug 24 j 02:28	0°♌	
	-12094 Oct 05 j 11:54	0°♍	
	-12094 Nov 18 j 07:27	0°♎	
evening set	-12094 Dec 23 j 01:49	23°♎06'05	
	-12093 Jan 02 j 14:44	0°♏	
conjunction	-12093 Feb 10 j 15:15	25°♏15'12	-1°05'30
minimum elong	-12093 Feb 10 j 16:38	25°♏17'25	1°06'04
max. Earth dist.	-12093 Feb 16 j 05:19	28°♏50'28	2.65781 AU
	-12093 Feb 18 j 00:40	0°♐	
morning rise	-12093 Mar 30 j 10:14	25°♐51'03	
	-12093 Apr 05 j 21:54	0°♑	
	-12093 May 22 j 15:41	0°♒	
asc. node	-12093 Jun 22 j 11:08	19°♒55'04	
	-12093 Jul 07 j 24:00	0°♓	
	-12093 Aug 23 j 06:14	0°♈	
	-12093 Oct 09 j 13:23	0°♉	
	-12093 Dec 01 j 03:27	0°♊	
retrograde	-12092 Jan 28 j 16:30	17°♊25'25	
opposition	-12092 Feb 28 j 17:18	12°♊11'11	5°07'34
min. Earth dist.	-12092 Feb 28 j 08:44	12°♊16'58	0.38440 AU
greatest brilliancy	-12092 Feb 28 j 20:46	12°♊08'51	-2.9m
direct	-12092 Mar 30 j 07:21	7°♊03'01	
desc. node	-12092 May 08 j 18:10	15°♊56'58	
	-12092 Jun 06 j 21:04	0°♋	
	-12092 Jul 27 j 01:06	0°♌	
	-12092 Sep 11 j 14:19	0°♍	
	-12092 Oct 27 j 19:17	0°♎	
	-12092 Dec 13 j 11:46	0°♏	
	-12091 Jan 29 j 13:44	0°♐	
evening set	-12091 Jan 31 j 21:43	1°♐29'06	
max. Earth dist.	-12091 Mar 12 j 02:04	26°♐31'23	2.65665 AU
	-12091 Mar 17 j 11:48	0°♑	
conjunction	-12091 Mar 20 j 23:14	2°♑14'23	-0°29'06
minimum elong	-12091 Mar 21 j 00:21	2°♑16'11	0°29'48
	-12091 May 02 j 13:48	0°♒	
morning rise	-12091 May 06 j 23:41	2°♒54'49	
asc. node	-12091 May 09 j 02:40	4°♒19'11	
	-12091 Jun 16 j 08:56	0°♓	
	-12091 Jul 29 j 19:20	0°♈	
	-12091 Sep 10 j 02:54	0°♉	
	-12091 Oct 21 j 21:04	0°♊	
	-12091 Dec 03 j 03:29	0°♋	
	-12090 Jan 17 j 16:29	0°♌	
desc. node	-12090 Mar 26 j 21:46	28°♌26'15	
retrograde	-12090 Apr 03 j 18:50	28°♌52'38	
min. Earth dist.	-12090 May 02 j 04:54	23°♌31'31	0.46071 AU
greatest brilliancy	-12090 May 09 j 06:30	21°♌06'45	-2.4m
opposition	-12090 May 10 j 03:52	20°♌48'26	-2°49'18
direct	-12090 Jun 11 j 22:34	14°♌12'48	
	-12090 Aug 07 j 23:05	0°♍	
	-12090 Oct 03 j 07:59	0°♎	
	-12090 Nov 22 j 17:35	0°♏	
	-12089 Jan 10 j 11:36	0°♐	
	-12089 Feb 27 j 00:53	0°♑	
evening set	-12089 Mar 12 j 11:50	8°♑39'26	
asc. node	-12089 Mar 26 j 21:46	18°♑01'53	
max. Earth dist.	-12089 Apr 07 j 05:29	25°♑28'27	2.60298 AU
	-12089 Apr 14 j 01:25	0°♒	
conjunction	-12089 Apr 30 j 09:22	10°♒56'29	0°21'15
minimum elong	-12089 Apr 30 j 08:27	10°♒54'57	0°20'42
	-12089 May 28 j 05:27	0°♓	
morning rise	-12089 Jun 18 j 11:04	14°♓54'10	
	-12089 Jul 09 j 12:36	0°♈	
	-12089 Aug 19 j 06:11	0°♉	
	-12089 Sep 27 j 23:51	0°♊	
	-12089 Nov 06 j 12:17	0°♋	
	-12089 Dec 16 j 20:35	0°♌	
	-12088 Jan 28 j 16:53	0°♍	
desc. node	-12088 Feb 11 j 20:18	9°♍13'14	
	-12088 Mar 18 j 08:43	0°♎	
retrograde	-12088 May 18 j 20:30	19°♎15'06	
min. Earth dist.	-12088 Jun 21 j 05:07	11°♎53'06	0.57840 AU
greatest brilliancy	-12088 Jun 26 j 03:24	9°♎57'59	-1.7m
opposition	-12088 Jun 27 j 05:26	9°♎32'36	-5°21'14
direct	-12088 Aug 02 j 17:54	1°♎12'55	
	-12088 Oct 26 j 19:48	0°♏	
	-12088 Dec 19 j 12:06	0°♐	
	-12087 Feb 06 j 19:20	0°♑	
asc. node	-12087 Feb 10 j 22:40	2°♑36'05	
	-12087 Mar 25 j 08:48	0°♒	
evening set	-12087 Apr 23 j 09:42	19°♒34'49	
	-12087 May 08 j 10:30	0°♓	
max. Earth dist.	-12087 May 10 j 00:16	1°♓06'06	2.50299 AU
conjunction	-12087 Jun 14 j 22:31	26°♓50'07	1°05'43
minimum elong	-12087 Jun 14 j 20:40	26°♓46'44	1°05'37
	-12087 Jun 19 j 06:09	0°♈	
	-12087 Jul 29 j 06:51	0°♉	
morning rise	-12087 Aug 09 j 09:56	8°♉30'57	
	-12087 Sep 06 j 05:08	0°♊	
	-12087 Oct 14 j 20:45	0°♋	
	-12087 Nov 23 j 03:12	0°♌	
desc. node	-12087 Dec 29 j 13:01	26°♌48'10	
	-12086 Jan 03 j 00:13	0°♍	
	-12086 Feb 15 j 17:55	0°♎	
	-12086 Apr 06 j 00:54	0°♏	
retrograde	-12086 Jun 25 j 07:52	27°♏52'23	
min. Earth dist.	-12086 Aug 02 j 01:05	18°♏53'57	0.65046 AU
opposition	-12086 Aug 04 j 07:38	17°♏59'07	-4°45'50
greatest brilliancy	-12086 Aug 03 j 23:30	18°♏07'17	-1.4m
direct	-12086 Sep 12 j 09:42	8°♏38'08	
	-12086 Nov 22 j 07:19	0°♐	
asc. node	-12086 Dec 30 j 03:50	20°♐01'26	
	-12085 Jan 16 j 09:29	0°♑	
	-12085 Mar 05 j 16:33	0°♒	
	-12085 Apr 19 j 06:06	0°♓	
	-12085 May 31 j 01:09	0°♈	
evening set	-12085 Jun 14 j 03:30	10°♈29'29	
	-12085 Jul 09 j 19:50	0°♉	
max. Earth dist.	-12085 Jul 20 j 15:17	8°♉20'22	2.39104 AU
conjunction	-12085 Aug 12 j 13:20	26°♉11'09	1°02'03
minimum elong	-12085 Aug 12 j 16:14	26°♉16'49	1°02'35
	-12085 Aug 17 j 10:18	0°♊	
	-12085 Sep 24 j 18:11	0°♋	
morning rise	-12085 Oct 15 j 14:38	16°♋09'57	
	-12085 Nov 02 j 16:47	0°♌	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

desc. node	-12085 Nov 16 j 05:19	10°♌11'36	
	-12085 Dec 13 j 02:07	0°♍	
	-12084 Jan 24 j 16:03	0°♎	
	-12084 Mar 10 j 05:55	0°♏	
	-12084 Apr 29 j 16:03	0°♐	
	-12084 Jul 09 j 03:22	0°♑	
retrograde	-12084 Jul 29 j 15:21	2°♑26'33	
	-12084 Aug 17 j 20:39	30°℞♐	
opposition	-12084 Sep 07 j 00:27	22°♐59'15	-2°43'39
greatest brilliancy	-12084 Sep 07 j 04:32	22°♐55'10	-1.4m
min. Earth dist.	-12084 Sep 08 j 12:51	22°♐22'51	0.66149 AU
direct	-12084 Oct 17 j 13:37	13°♐06'19	
asc. node	-12084 Nov 16 j 09:50	17°♐58'08	
	-12084 Dec 17 j 06:42	0°♑	
	-12083 Feb 10 j 07:05	0°♒	
	-12083 Mar 28 j 16:41	0°♓	
	-12083 May 10 j 02:02	0°♈	
	-12083 Jun 19 j 00:56	0°♉	
	-12083 Jul 27 j 16:32	0°♊	
evening set	-12083 Aug 15 j 13:47	14°♊47'16	
	-12083 Sep 04 j 01:11	0°♋	
desc. node	-12083 Oct 03 j 00:42	22°♋22'48	
	-12083 Oct 13 j 00:53	0°♌	
conjunction	-12083 Oct 16 j 18:39	2°♌49'50	-0°10'22
minimum elong	-12083 Oct 16 j 17:49	2°♌48'16	0°09'44
behind sun begin	-12083 Oct 15 j 20:38	2°♌08'14	
behind sun end	-12083 Oct 17 j 15:01	3°♌28'16	
	-12083 Nov 22 j 10:24	0°♍	
max. Earth dist.	-12083 Nov 29 j 22:32	5°♍25'33	2.45693 AU
morning rise	-12083 Dec 16 j 16:09	17°♍21'07	
	-12082 Jan 03 j 19:17	0°♎	
	-12082 Feb 17 j 11:27	0°♏	
	-12082 Apr 05 j 17:47	0°♐	
	-12082 May 26 j 17:13	0°♑	
	-12082 Jul 28 j 15:35	0°♒	
retrograde	-12082 Sep 05 j 16:00	7°♒49'29	
asc. node	-12082 Oct 04 j 14:11	2°♒29'58	
	-12082 Oct 11 j 09:10	30°℞♑	
opposition	-12082 Oct 13 j 09:35	29°♑13'21	0°23'16
greatest brilliancy	-12082 Oct 13 j 11:09	29°♑11'50	-1.6m
min. Earth dist.	-12082 Oct 18 j 13:29	27°♑13'24	0.61136 AU
direct	-12082 Nov 23 j 01:30	19°♑20'24	
	-12081 Jan 07 j 01:38	0°♒	
	-12081 Mar 04 j 02:37	0°♓	
	-12081 Apr 17 j 22:21	0°♈	
	-12081 May 28 j 20:54	0°♉	
	-12081 Jul 07 j 02:01	0°♊	
	-12081 Aug 14 j 21:30	0°♋	
desc. node	-12081 Aug 20 j 23:53	4°♋41'23	
	-12081 Sep 23 j 07:23	0°♌	
evening set	-12081 Oct 17 j 02:14	17°♌38'49	
	-12081 Nov 03 j 02:05	0°♍	
conjunction	-12081 Dec 12 j 06:33	27°♍37'51	-1°06'21
minimum elong	-12081 Dec 12 j 04:37	27°♍34'30	1°06'17
	-12081 Dec 15 j 17:04	0°♎	
max. Earth dist.	-12080 Jan 10 j 08:03	17°♎23'46	2.57172 AU
	-12080 Jan 29 j 07:15	0°♏	
morning rise	-12080 Feb 03 j 14:15	3°♏28'40	
	-12080 Mar 15 j 16:26	0°♐	
	-12080 May 02 j 15:43	0°♑	
	-12080 Jun 21 j 16:06	0°♒	
	-12080 Aug 16 j 07:18	0°♓	
asc. node	-12080 Aug 21 j 12:59	2°♓27'36	
retrograde	-12080 Oct 22 j 01:34	19°♓37'35	
opposition	-12080 Nov 25 j 19:31	12°♓27'41	4°29'44
greatest brilliancy	-12080 Nov 26 j 23:01	12°♓03'24	-2.1m
min. Earth dist.	-12080 Dec 03 j 16:55	9°♓40'53	0.50837 AU
direct	-12079 Jan 03 j 07:13	3°♓41'28	
	-12079 Mar 17 j 09:20	0°♈	
	-12079 May 02 j 08:37	0°♉	
	-12079 Jun 12 j 18:47	0°♊	
desc. node	-12079 Jul 08 j 04:10	18°♊54'10	
	-12079 Jul 23 j 00:57	0°♋	
	-12079 Sep 01 j 14:09	0°♌	
	-12079 Oct 13 j 07:09	0°♍	
	-12079 Nov 25 j 15:03	0°♎	
evening set	-12079 Dec 05 j 21:48	6°♎57'01	
	-12078 Jan 09 j 14:52	0°♏	
conjunction	-12078 Jan 25 j 17:47	10°♏31'27	-1°12'58
minimum elong	-12078 Jan 25 j 18:36	10°♏32'46	1°13'24
max. Earth dist.	-12078 Feb 06 j 12:47	18°♏09'52	2.64372 AU
	-12078 Feb 24 j 22:03	0°♐	
morning rise	-12078 Mar 15 j 12:09	11°♐53'32	
	-12078 Apr 12 j 22:30	0°♑	
	-12078 May 30 j 04:29	0°♒	
asc. node	-12078 Jul 09 j 06:06	25°♒19'41	
	-12078 Jul 16 j 16:34	0°♓	
	-12078 Sep 03 j 10:41	0°♈	
	-12078 Oct 27 j 14:47	0°♉	
retrograde	-12078 Dec 28 j 12:55	18°♉11'32	
opposition	-12077 Jan 28 j 12:06	12°♉54'42	6°58'35
greatest brilliancy	-12077 Jan 29 j 16:20	12°♉34'59	-2.7m
min. Earth dist.	-12077 Feb 02 j 01:25	11°♉38'34	0.39909 AU
direct	-12077 Mar 01 j 20:50	7°♉05'16	
	-12077 May 07 j 20:01	0°♊	
desc. node	-12077 May 26 j 10:57	11°♊00'19	
	-12077 Jun 25 j 02:06	0°♋	
	-12077 Aug 08 j 14:53	0°♌	
	-12077 Sep 21 j 19:38	0°♍	
	-12077 Nov 05 j 18:38	0°♎	
	-12077 Dec 21 j 18:24	0°♏	
evening set	-12076 Jan 17 j 11:28	17°♏10'48	
	-12076 Feb 06 j 12:09	0°♐	
max. Earth dist.	-12076 Mar 02 j 11:15	15°♐57'51	2.66348 AU
conjunction	-12076 Mar 05 j 20:27	18°♐07'51	-0°45'34
minimum elong	-12076 Mar 05 j 21:57	18°♐10'15	0°46'15
	-12076 Mar 24 j 08:29	0°♑	
morning rise	-12076 Apr 21 j 20:56	18°♑25'34	
	-12076 May 09 j 14:44	0°♒	
asc. node	-12076 May 25 j 21:03	10°♒41'48	
	-12076 Jun 23 j 20:52	0°♓	
	-12076 Aug 07 j 02:03	0°♈	
	-12076 Sep 19 j 14:22	0°♉	
	-12076 Nov 02 j 04:23	0°♊	
	-12076 Dec 17 j 21:22	0°♋	
	-12075 Feb 16 j 16:47	0°♌	
retrograde	-12075 Mar 12 j 03:58	3°♌34'37	
	-12075 Apr 04 j 11:21	30°℞♋	
min. Earth dist.	-12075 Apr 08 j 14:20	28°♋48'20	0.41681 AU
desc. node	-12075 Apr 12 j 15:11	27°♋34'19	
opposition	-12075 Apr 15 j 06:27	26°♋45'22	-0°11'32
greatest brilliancy	-12075 Apr 15 j 05:11	26°♋46'20	-2.7m
direct	-12075 May 16 j 14:56	20°♋59'26	
	-12075 Jun 26 j 05:09	0°♌	
	-12075 Aug 24 j 09:51	0°♍	
	-12075 Oct 13 j 10:24	0°♎	
	-12075 Nov 30 j 20:25	0°♏	
	-12074 Jan 17 j 18:20	0°♐	
evening set	-12074 Feb 24 j 23:53	24°♐14'11	
	-12074 Mar 05 j 23:47	0°♑	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

max. Earth dist.	-12074 Mar 27 j 18:05	14°♉04'25	2.63004 AU
asc. node	-12074 Apr 12 j 14:31	24°♉27'27	
conjunction	-12074 Apr 14 j 06:52	25°♉33'57	0°01'03
minimum elong	-12074 Apr 14 j 06:48	25°♉33'51	0°00'24
behind sun begin	-12074 Apr 13 j 10:56	25°♉01'07	
behind sun end	-12074 Apr 15 j 02:39	26°♉06'37	
	-12074 Apr 20 j 23:43	0°♒	
morning rise	-12074 Jun 01 j 03:34	27°♒47'39	
	-12074 Jun 04 j 08:24	0°♓	
	-12074 Jul 16 j 23:59	0°♈	
	-12074 Aug 27 j 04:56	0°♉	
	-12074 Oct 06 j 11:51	0°♊	
	-12074 Nov 15 j 16:03	0°♋	
	-12074 Dec 26 j 23:46	0°♌	
	-12073 Feb 10 j 02:37	0°♍	
desc. node	-12073 Feb 28 j 14:32	10°♍46'02	
	-12073 Apr 16 j 21:20	0°♎	
retrograde	-12073 May 03 j 10:52	1°♎49'51	
	-12073 May 19 j 11:35	30°℞♍	
min. Earth dist.	-12073 Jun 03 j 19:46	25°♍14'29	0.53578 AU
greatest brilliancy	-12073 Jun 09 j 19:44	22°♍59'02	-1.9m
opposition	-12073 Jun 11 j 01:42	22°♍30'45	-4°54'55
direct	-12073 Jul 16 j 06:16	14°♍45'51	
	-12073 Sep 10 j 22:12	0°♎	
	-12073 Nov 07 j 17:50	0°♏	
	-12073 Dec 28 j 17:53	0°♐	
	-12072 Feb 15 j 04:04	0°♑	
asc. node	-12072 Feb 28 j 13:31	8°♑32'27	
	-12072 Apr 01 j 10:45	0°♒	
evening set	-12072 Apr 06 j 00:18	3°♒02'16	
max. Earth dist.	-12072 Apr 25 j 08:07	16°♒04'30	2.54683 AU
	-12072 May 15 j 12:33	0°♓	
conjunction	-12072 May 26 j 17:05	7°♓51'39	0°51'09
minimum elong	-12072 May 26 j 15:07	7°♓48'10	0°50'51
	-12072 Jun 26 j 11:50	0°♈	
morning rise	-12072 Jul 18 j 00:46	15°♈55'08	
	-12072 Aug 05 j 18:04	0°♉	
	-12072 Sep 13 j 22:19	0°♊	
	-12072 Oct 22 j 19:48	0°♋	
	-12072 Dec 01 j 08:43	0°♌	
	-12071 Jan 11 j 16:04	0°♍	
desc. node	-12071 Jan 15 j 09:43	2°♍36'59	
	-12071 Feb 25 j 12:14	0°♎	
	-12071 Apr 20 j 12:02	0°♏	
retrograde	-12071 Jun 11 j 08:03	13°♏50'38	
min. Earth dist.	-12071 Jul 17 j 12:07	5°♏25'38	0.62935 AU
opposition	-12071 Jul 21 j 06:20	3°♏55'30	-5°12'44
greatest brilliancy	-12071 Jul 20 j 15:05	4°♏10'44	-1.5m
	-12071 Jul 31 j 13:36	30°℞♎	
direct	-12071 Aug 28 j 11:31	24°♎54'23	
	-12071 Sep 28 j 04:05	0°♏	
	-12071 Dec 04 j 00:06	0°♐	
asc. node	-12070 Jan 15 j 17:33	24°♐28'38	
	-12070 Jan 24 j 20:54	0°♑	
	-12070 Mar 13 j 06:42	0°♒	
	-12070 Apr 26 j 14:00	0°♓	
evening set	-12070 May 23 j 14:17	19°♓13'04	
	-12070 Jun 07 j 08:23	0°♈	
max. Earth dist.	-12070 Jun 12 j 03:53	3°♈33'26	2.42988 AU
	-12070 Jul 17 j 04:45	0°♉	
conjunction	-12070 Jul 19 j 02:23	1°♉27'32	1°12'46
minimum elong	-12070 Jul 19 j 03:04	1°♉28'50	1°13'07
	-12070 Aug 24 j 21:28	0°♊	
morning rise	-12070 Sep 18 j 10:16	19°♊10'45	
	-12070 Oct 02 j 07:20	0°♋	
	-12070 Nov 10 j 07:40	0°♌	
desc. node	-12070 Dec 03 j 01:38	17°♌01'58	
	-12070 Dec 20 j 19:12	0°♍	
	-12069 Feb 01 j 15:08	0°♎	
	-12069 Mar 20 j 00:14	0°♏	
	-12069 May 12 j 16:47	0°♐	
retrograde	-12069 Jul 16 j 20:53	19°♐19'49	
opposition	-12069 Aug 25 j 14:48	9°♐39'13	-3°38'58
greatest brilliancy	-12069 Aug 25 j 15:34	9°♐38'26	-1.4m
min. Earth dist.	-12069 Aug 25 j 15:59	9°♐38'02	0.66472 AU
	-12069 Oct 01 j 06:51	30°℞♏	
direct	-12069 Oct 04 j 17:38	29°♏55'26	
	-12069 Oct 08 j 05:26	0°♐	
asc. node	-12069 Dec 04 j 00:11	16°♐25'22	
	-12069 Dec 31 j 04:59	0°♑	
	-12068 Feb 20 j 07:32	0°♒	
	-12068 Apr 05 j 18:03	0°♓	
	-12068 May 17 j 19:37	0°♈	
	-12068 Jun 26 j 15:37	0°♉	
evening set	-12068 Jul 20 j 21:13	18°♉46'31	
	-12068 Aug 04 j 05:37	0°♊	
	-12068 Sep 11 j 12:47	0°♋	
conjunction	-12068 Sep 21 j 09:14	7°♋39'54	0°21'26
minimum elong	-12068 Sep 21 j 11:12	7°♋43'42	0°22'06
desc. node	-12068 Oct 19 j 18:57	29°♋29'44	
	-12068 Oct 20 j 10:54	0°♌	
max. Earth dist.	-12068 Oct 31 j 08:49	8°♌14'44	2.41005 AU
morning rise	-12068 Nov 23 j 23:42	25°♌46'07	
	-12068 Nov 29 j 18:53	0°♍	
	-12067 Jan 11 j 03:45	0°♎	
	-12067 Feb 25 j 00:27	0°♏	
	-12067 Apr 14 j 00:42	0°♐	
	-12067 Jun 06 j 19:13	0°♑	
retrograde	-12067 Aug 21 j 05:43	23°♑51'00	
opposition	-12067 Sep 28 j 18:01	14°♑51'31	-0°56'45
greatest brilliancy	-12067 Sep 28 j 21:32	14°♑48'03	-1.5m
min. Earth dist.	-12067 Oct 02 j 12:23	13°♑22'33	0.63825 AU
asc. node	-12067 Oct 21 j 05:01	7°♑07'21	
direct	-12067 Nov 08 j 13:43	4°♑53'29	
	-12066 Jan 23 j 10:35	0°♒	
	-12066 Mar 14 j 08:06	0°♓	
	-12066 Apr 26 j 19:33	0°♈	
	-12066 Jun 06 j 05:27	0°♉	
	-12066 Jul 15 j 03:08	0°♊	
	-12066 Aug 22 j 16:29	0°♋	
desc. node	-12066 Sep 06 j 18:05	11°♋37'52	
evening set	-12066 Sep 23 j 22:50	24°♋46'20	
	-12066 Sep 30 j 20:37	0°♌	
	-12066 Nov 10 j 09:56	0°♍	
conjunction	-12066 Nov 21 j 21:00	8°♍14'29	-0°50'45
minimum elong	-12066 Nov 21 j 18:21	8°♍09'46	0°50'26
	-12066 Dec 22 j 20:49	0°♎	
max. Earth dist.	-12066 Dec 27 j 23:14	3°♎30'31	2.53053 AU
morning rise	-12065 Jan 16 j 22:08	17°♎02'56	
	-12065 Feb 05 j 09:43	0°♏	
	-12065 Mar 23 j 23:41	0°♐	
	-12065 May 11 j 17:05	0°♑	
	-12065 Jul 03 j 02:34	0°♒	
asc. node	-12065 Sep 08 j 05:58	28°♒52'51	
	-12065 Sep 12 j 23:23	0°♓	
retrograde	-12065 Oct 02 j 21:53	2°♓16'40	
	-12065 Oct 21 j 17:27	30°℞♒	
opposition	-12065 Nov 08 j 00:35	24°♒27'47	2°48'48
greatest brilliancy	-12065 Nov 08 j 15:58	24°♒13'32	-1.9m

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

min. Earth dist.	-12065 Nov 15 j 02:35	21°♒50'30	0.55375 AU
direct	-12065 Dec 17 j 18:10	15°♒03'19	
	-12064 Feb 08 j 22:48	0°♓	
	-12064 Mar 31 j 05:05	0°♈	
	-12064 May 13 j 01:46	0°♉	
	-12064 Jun 22 j 06:04	0°♊	
desc. node	-12064 Jul 24 j 20:52	24°♊47'25	
	-12064 Jul 31 j 17:35	0°♋	
	-12064 Sep 09 j 16:35	0°♌	
	-12064 Oct 20 j 22:02	0°♍	
evening set	-12064 Nov 17 j 09:30	19°♍20'11	
	-12064 Dec 02 j 21:06	0°♎	
conjunction	-12063 Jan 08 j 23:52	24°♎57'23	-1°15'22
minimum elong	-12063 Jan 08 j 23:45	24°♎57'12	1°15'38
	-12063 Jan 16 j 15:13	0°♏	
max. Earth dist.	-12063 Jan 27 j 09:46	7°♏03'45	2.62134 AU
morning rise	-12063 Feb 28 j 04:28	27°♏37'41	
	-12063 Mar 03 j 21:15	0°♐	
	-12063 Apr 20 j 03:20	0°♑	
	-12063 Jun 07 j 03:04	0°♒	
asc. node	-12063 Jul 26 j 00:51	29°♒46'11	
	-12063 Jul 26 j 10:10	0°♓	
	-12063 Sep 18 j 05:21	0°♈	
retrograde	-12063 Nov 29 j 04:46	22°♈40'01	
opposition	-12063 Dec 31 j 13:39	16°♈42'41	6°45'56
greatest brilliancy	-12062 Jan 02 j 04:31	16°♈12'24	-2.5m
min. Earth dist.	-12062 Jan 07 j 19:55	14°♈27'56	0.43545 AU
direct	-12062 Feb 04 j 15:12	9°♈37'41	
	-12062 Apr 07 j 09:44	0°♉	
	-12062 May 25 j 04:57	0°♊	
desc. node	-12062 Jun 12 j 01:52	12°♊18'30	
	-12062 Jul 07 j 04:35	0°♋	
	-12062 Aug 18 j 10:26	0°♌	
	-12062 Sep 30 j 07:23	0°♍	
	-12062 Nov 13 j 10:32	0°♎	
	-12062 Dec 28 j 22:11	0°♏	
evening set	-12061 Jan 01 j 12:32	2°♏20'22	
	-12061 Feb 13 j 10:03	0°♐	
conjunction	-12061 Feb 19 j 13:34	3°♐56'24	-0°59'13
minimum elong	-12061 Feb 19 j 15:05	3°♐58'51	0°59'49
max. Earth dist.	-12061 Feb 21 j 20:49	5°♐24'54	2.66201 AU
	-12061 Apr 01 j 06:15	0°♑	
morning rise	-12061 Apr 07 j 23:42	4°♑18'56	
	-12061 May 17 j 19:11	0°♒	
asc. node	-12061 Jun 12 j 16:33	16°♒52'07	
	-12061 Jul 02 j 16:45	0°♓	
	-12061 Aug 17 j 01:37	0°♈	
	-12061 Oct 01 j 13:38	0°♉	
	-12061 Nov 18 j 00:27	0°♊	
	-12060 Jan 17 j 15:04	0°♋	
retrograde	-12060 Feb 14 j 11:00	4°♋45'35	
min. Earth dist.	-12060 Mar 14 j 02:47	0°♋01'07	0.38871 AU
	-12060 Mar 14 j 04:24	30°℞♊	
opposition	-12060 Mar 17 j 06:35	29°♊08'50	3°17'07
greatest brilliancy	-12060 Mar 17 j 01:29	29°♊12'21	-2.9m
direct	-12060 Apr 16 j 14:12	23°♊59'09	
desc. node	-12060 Apr 29 j 07:22	24°♊59'55	
	-12060 May 18 j 18:47	0°♋	
	-12060 Jul 18 j 08:18	0°♌	
	-12060 Sep 05 j 04:28	0°♍	
	-12060 Oct 22 j 09:00	0°♎	
	-12060 Dec 08 j 13:11	0°♏	
	-12059 Jan 24 j 21:09	0°♐	
evening set	-12059 Feb 09 j 16:39	10°♐02'52	
	-12059 Mar 12 j 21:23	0°♑	
max. Earth dist.	-12059 Mar 17 j 18:28	3°♑08'31	2.64928 AU
conjunction	-12059 Mar 29 j 17:56	10°♑53'27	-0°18'31
minimum elong	-12059 Mar 29 j 18:42	10°♑54'42	0°19'12
	-12059 Apr 27 j 22:25	0°♒	
asc. node	-12059 Apr 29 j 08:52	0°♒56'58	
morning rise	-12059 May 15 j 22:49	11°♒59'10	
	-12059 Jun 11 j 13:35	0°♓	
	-12059 Jul 24 j 16:30	0°♈	
	-12059 Sep 04 j 13:14	0°♉	
	-12059 Oct 15 j 16:03	0°♊	
	-12059 Nov 25 j 22:46	0°♋	
	-12058 Jan 08 j 05:31	0°♌	
	-12058 Mar 01 j 01:45	0°♍	
desc. node	-12058 Mar 17 j 09:29	6°♍37'09	
retrograde	-12058 Apr 15 j 04:28	11°♍55'16	
min. Earth dist.	-12058 May 14 j 13:42	6°♍09'02	0.48773 AU
greatest brilliancy	-12058 May 21 j 09:45	3°♍43'02	-2.2m
opposition	-12058 May 22 j 13:17	3°♍18'26	-3°49'55
	-12058 Jun 01 j 11:29	30°℞♌	
direct	-12058 Jun 25 j 05:10	26°♌16'21	
	-12058 Jul 20 j 13:36	0°♍	
	-12058 Sep 25 j 22:31	0°♎	
	-12058 Nov 17 j 02:25	0°♏	
	-12057 Jan 05 j 12:16	0°♐	
	-12057 Feb 22 j 08:15	0°♑	
asc. node	-12057 Mar 17 j 05:57	14°♑44'52	
evening set	-12057 Mar 21 j 13:39	17°♑33'43	
	-12057 Apr 09 j 11:01	0°♒	
max. Earth dist.	-12057 Apr 13 j 19:43	2°♒54'15	2.58487 AU
conjunction	-12057 May 09 j 23:30	20°♒35'31	0°32'41
minimum elong	-12057 May 09 j 22:07	20°♒33'09	0°32'12
	-12057 May 23 j 14:34	0°♓	
morning rise	-12057 Jun 29 j 00:03	25°♓48'32	
	-12057 Jul 04 j 18:51	0°♈	
	-12057 Aug 14 j 08:04	0°♉	
	-12057 Sep 22 j 20:11	0°♊	
	-12057 Nov 01 j 01:57	0°♋	
	-12057 Dec 11 j 01:09	0°♌	
	-12056 Jan 22 j 02:54	0°♍	
desc. node	-12056 Feb 02 j 04:54	7°♍28'58	
	-12056 Mar 09 j 03:55	0°♎	
retrograde	-12056 May 27 j 16:59	28°♎51'08	
min. Earth dist.	-12056 Jul 01 j 03:02	21°♎04'50	0.59911 AU
greatest brilliancy	-12056 Jul 05 j 09:47	19°♎23'35	-1.6m
opposition	-12056 Jul 06 j 08:13	19°♎01'27	-5°24'04
direct	-12056 Aug 12 j 12:33	10°♎25'14	
	-12056 Oct 18 j 08:12	0°♏	
	-12056 Dec 13 j 17:16	0°♐	
asc. node	-12055 Feb 01 j 08:02	29°♐43'19	
	-12055 Feb 01 j 18:47	0°♑	
	-12055 Mar 20 j 15:07	0°♒	
evening set	-12055 May 03 j 20:42	0°♓02'26	
	-12055 May 03 j 19:19	0°♓	
max. Earth dist.	-12055 May 19 j 23:49	11°♓25'51	2.47734 AU
	-12055 Jun 14 j 14:56	0°♈	
conjunction	-12055 Jun 26 j 15:30	8°♈53'57	1°11'02
minimum elong	-12055 Jun 26 j 14:14	8°♈51'36	1°11'06
	-12055 Jul 24 j 14:22	0°♉	
morning rise	-12055 Aug 23 j 04:11	22°♉47'53	
	-12055 Sep 01 j 10:30	0°♊	
	-12055 Oct 09 j 23:21	0°♋	
	-12055 Nov 18 j 02:30	0°♌	
desc. node	-12055 Dec 19 j 22:44	23°♌37'37	
	-12055 Dec 28 j 18:13	0°♍	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12054 Feb 10 j 00:32	0°♎	
	-12054 Mar 29 j 19:31	0°♏	
	-12054 May 31 j 01:52	0°♐	
retrograde	-12054 Jul 03 j 06:16	6°♐06'23	
	-12054 Aug 02 j 17:23	30°℞♏	
min. Earth dist.	-12054 Aug 10 j 18:47	26°♏50'56	0.65827 AU
opposition	-12054 Aug 12 j 05:07	26°♏16'23	-4°24'23
greatest brilliancy	-12054 Aug 12 j 00:37	26°♏20'54	-1.4m
direct	-12054 Sep 20 j 17:07	16°♏46'00	
	-12054 Nov 12 j 17:22	0°♐	
asc. node	-12054 Dec 20 j 13:16	18°♐22'32	
	-12053 Jan 10 j 10:25	0°♑	
	-12053 Feb 28 j 13:19	0°♒	
	-12053 Apr 14 j 10:03	0°♓	
	-12053 May 26 j 07:38	0°♈	
evening set	-12053 Jun 27 j 05:44	23°♈57'31	
	-12053 Jul 05 j 03:09	0°♉	
	-12053 Aug 12 j 17:33	0°♊	
conjunction	-12053 Aug 27 j 01:51	11°♊14'51	0°50'11
minimum elong	-12053 Aug 27 j 05:15	11°♊21'29	0°50'47
max. Earth dist.	-12053 Aug 30 j 15:48	14°♊03'18	2.38319 AU
	-12053 Sep 20 j 00:51	0°♋	
	-12053 Oct 28 j 22:39	0°♌	
morning rise	-12053 Oct 30 j 16:21	1°♌19'07	
desc. node	-12053 Nov 06 j 16:06	6°♌36'11	
	-12053 Dec 08 j 06:22	0°♍	
	-12052 Jan 19 j 16:43	0°♎	
	-12052 Mar 04 j 21:29	0°♏	
	-12052 Apr 23 j 02:52	0°♐	
	-12052 Jun 21 j 23:12	0°♑	
retrograde	-12052 Aug 06 j 17:26	10°♑26'53	
opposition	-12052 Sep 14 j 20:18	1°♑08'25	-2°07'02
greatest brilliancy	-12052 Sep 15 j 01:04	1°♑03'40	-1.4m
min. Earth dist.	-12052 Sep 17 j 04:21	0°♑12'36	0.65582 AU
	-12052 Sep 17 j 17:02	30°℞♐	
direct	-12052 Oct 25 j 13:21	21°♐12'00	
asc. node	-12052 Nov 06 j 19:04	22°♐06'28	
	-12052 Dec 05 j 21:30	0°♑	
	-12051 Feb 03 j 23:10	0°♒	
	-12051 Mar 23 j 07:55	0°♓	
	-12051 May 05 j 01:19	0°♈	
	-12051 Jun 14 j 03:49	0°♉	
	-12051 Jul 22 j 21:15	0°♊	
evening set	-12051 Aug 30 j 02:11	29°♊50'38	
	-12051 Aug 30 j 07:00	0°♋	
desc. node	-12051 Sep 23 j 11:39	18°♋41'45	
	-12051 Oct 08 j 07:37	0°♌	
conjunction	-12051 Oct 30 j 09:48	16°♌33'24	-0°26'58
minimum elong	-12051 Oct 30 j 07:49	16°♌29'42	0°26'25
	-12051 Nov 17 j 17:35	0°♍	
max. Earth dist.	-12051 Dec 11 j 11:58	17°♍01'08	2.48402 AU
morning rise	-12051 Dec 28 j 13:25	28°♍56'44	
	-12051 Dec 30 j 02:02	0°♎	
	-12050 Feb 12 j 15:33	0°♏	
	-12050 Mar 31 j 13:36	0°♐	
	-12050 May 20 j 11:08	0°♑	
	-12050 Jul 16 j 11:16	0°♒	
retrograde	-12050 Sep 15 j 02:05	16°♒38'54	
asc. node	-12050 Sep 24 j 21:53	16°♒01'48	
opposition	-12050 Oct 22 j 07:24	8°♒17'50	1°13'54
greatest brilliancy	-12050 Oct 22 j 13:00	8°♒12'29	-1.7m
min. Earth dist.	-12050 Oct 28 j 05:03	6°♒02'27	0.59312 AU
	-12050 Nov 16 j 22:42	30°℞♑	
direct	-12050 Dec 01 j 18:17	28°♑31'23	
	-12050 Dec 17 j 03:09	0°♒	

	-12049 Feb 24 j 17:15	0°♓	
	-12049 Apr 11 j 23:37	0°♈	
	-12049 May 23 j 10:47	0°♉	
	-12049 Jul 01 j 22:26	0°♊	
	-12049 Aug 09 j 22:07	0°♋	
desc. node	-12049 Aug 11 j 12:26	1°♋13'27	
	-12049 Sep 18 j 11:17	0°♌	
evening set	-12049 Oct 29 j 07:38	29°♌58'31	
	-12049 Oct 29 j 08:28	0°♍	
	-12049 Dec 11 j 01:04	0°♎	
conjunction	-12049 Dec 23 j 02:48	8°♎14'39	-1°11'39
minimum elong	-12049 Dec 23 j 01:30	8°♎12'28	1°11'44
max. Earth dist.	-12048 Jan 17 j 07:27	25°♎08'46	2.59149 AU
	-12048 Jan 24 j 15:35	0°♏	
morning rise	-12048 Feb 13 j 04:31	12°♏46'56	
	-12048 Mar 10 j 22:30	0°♐	
	-12048 Apr 27 j 13:42	0°♑	
	-12048 Jun 15 j 15:52	0°♒	
	-12048 Aug 07 j 01:26	0°♓	
asc. node	-12048 Aug 11 j 19:23	2°♓31'29	
	-12048 Oct 21 j 20:34	0°♈	
retrograde	-12048 Nov 03 j 21:40	1°♈00'30	
	-12048 Nov 16 j 09:46	30°℞♓	
opposition	-12048 Dec 07 j 19:00	24°♓15'12	5°25'56
greatest brilliancy	-12048 Dec 09 j 04:46	23°♓46'24	-2.2m
min. Earth dist.	-12048 Dec 15 j 18:31	21°♓32'34	0.48198 AU
direct	-12047 Jan 14 j 06:04	15°♓59'13	
	-12047 Mar 05 j 04:56	0°♈	
	-12047 Apr 24 j 15:52	0°♉	
	-12047 Jun 06 j 09:27	0°♊	
desc. node	-12047 Jun 28 j 17:28	16°♊19'02	
	-12047 Jul 17 j 07:45	0°♋	
	-12047 Aug 27 j 07:39	0°♌	
	-12047 Oct 08 j 08:04	0°♍	
	-12047 Nov 20 j 20:56	0°♎	
evening set	-12047 Dec 15 j 20:50	16°♎44'32	
	-12046 Jan 04 j 23:39	0°♏	
conjunction	-12046 Feb 03 j 22:40	19°♏27'53	-1°09'11
minimum elong	-12046 Feb 03 j 23:52	19°♏29'49	1°09'41
max. Earth dist.	-12046 Feb 12 j 07:34	24°♏51'27	2.65248 AU
	-12046 Feb 20 j 07:40	0°♐	
morning rise	-12046 Mar 24 j 03:02	20°♐21'01	
	-12046 Apr 08 j 05:51	0°♑	
	-12046 May 25 j 04:41	0°♒	
asc. node	-12046 Jun 29 j 12:08	22°♒37'56	
	-12046 Jul 11 j 00:05	0°♓	
	-12046 Aug 27 j 04:10	0°♈	
	-12046 Oct 15 j 13:28	0°♉	
	-12046 Dec 17 j 12:04	0°♊	
retrograde	-12045 Jan 15 j 03:47	4°♊46'12	
	-12045 Feb 13 j 12:41	30°℞♉	
opposition	-12045 Feb 14 j 21:51	29°♉37'35	6°12'02
greatest brilliancy	-12045 Feb 15 j 12:31	29°♉27'39	-2.8m
min. Earth dist.	-12045 Feb 16 j 21:23	29°♉05'25	0.38748 AU
direct	-12045 Mar 18 j 02:48	24°♉17'42	
	-12045 Apr 17 j 18:21	0°♊	
desc. node	-12045 May 16 j 22:31	12°♊57'30	
	-12045 Jun 15 j 18:48	0°♋	
	-12045 Aug 01 j 18:04	0°♌	
	-12045 Sep 16 j 01:57	0°♍	
	-12045 Oct 31 j 15:31	0°♎	
	-12045 Dec 16 j 23:21	0°♏	
evening set	-12044 Jan 26 j 09:24	25°♏51'29	
	-12044 Feb 01 j 21:13	0°♐	
max. Earth dist.	-12044 Mar 08 j 01:36	22°♐29'06	2.66080 AU

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

conjunction	-12044 Mar 14 j 13:03	26°♐38'29	-0°36'20
minimum elong	-12044 Mar 14 j 14:21	26°♐40'35	0°37'01
	-12044 Mar 19 j 18:29	0°♑	
morning rise	-12044 Apr 30 j 12:08	27°♑04'55	
	-12044 May 04 j 22:48	0°♒	
asc. node	-12044 May 16 j 03:43	7°♒23'21	
	-12044 Jun 18 j 23:15	0°♓	
	-12044 Aug 01 j 17:55	0°♈	
	-12044 Sep 13 j 13:19	0°♉	
	-12044 Oct 25 j 23:42	0°♊	
	-12044 Dec 08 j 08:33	0°♋	
	-12043 Jan 25 j 21:37	0°♌	
retrograde	-12043 Mar 25 j 10:23	18°♌47'30	
desc. node	-12043 Apr 03 j 02:16	18°♌15'11	
min. Earth dist.	-12043 Apr 22 j 06:14	13°♌44'46	0.43975 AU
opposition	-12043 Apr 29 j 21:23	11°♌14'55	-1°49'41
greatest brilliancy	-12043 Apr 29 j 07:26	11°♌26'23	-2.5m
direct	-12043 May 31 j 23:22	5°♌01'52	
	-12043 Aug 15 j 04:54	0°♍	
	-12043 Oct 07 j 03:14	0°♎	
	-12043 Nov 25 j 13:39	0°♏	
	-12042 Jan 12 j 22:26	0°♐	
	-12042 Mar 01 j 08:29	0°♑	
evening set	-12042 Mar 05 j 20:41	2°♑53'36	
asc. node	-12042 Apr 02 j 22:11	21°♑06'39	
max. Earth dist.	-12042 Apr 02 j 20:30	21°♑03'54	2.61610 AU
	-12042 Apr 16 j 09:30	0°♒	
conjunction	-12042 Apr 23 j 10:09	4°♒40'42	0°12'41
minimum elong	-12042 Apr 23 j 09:37	4°♒39'48	0°12'05
behind sun begin	-12042 Apr 22 j 20:09	4°♒17'21	
behind sun end	-12042 Apr 23 j 23:05	5°♒02'17	
	-12042 May 30 j 16:32	0°♓	
morning rise	-12042 Jun 10 j 20:43	7°♓46'21	
	-12042 Jul 12 j 04:12	0°♈	
	-12042 Aug 22 j 03:19	0°♉	
	-12042 Oct 01 j 02:51	0°♊	
	-12042 Nov 09 j 21:15	0°♋	
	-12042 Dec 20 j 13:26	0°♌	
	-12041 Feb 02 j 01:49	0°♍	
desc. node	-12041 Feb 19 j 02:01	10°♍42'06	
	-12041 Mar 26 j 18:51	0°♎	
retrograde	-12041 May 13 j 01:56	12°♎27'09	
min. Earth dist.	-12041 Jun 14 j 13:01	5°♎25'27	0.56008 AU
greatest brilliancy	-12041 Jun 19 j 22:57	3°♎20'40	-1.8m
opposition	-12041 Jun 21 j 03:15	2°♎53'23	-5°14'09
	-12041 Jun 28 j 22:41	30°℞♍	
direct	-12041 Jul 27 j 02:17	24°♍48'19	
	-12041 Aug 26 j 18:01	0°♎	
	-12041 Oct 31 j 22:47	0°♏	
	-12041 Dec 23 j 08:52	0°♐	
	-12040 Feb 10 j 07:15	0°♑	
asc. node	-12040 Feb 18 j 21:58	5°♑26'40	
	-12040 Mar 27 j 18:45	0°♒	
evening set	-12040 Apr 15 j 19:33	12°♒44'49	
max. Earth dist.	-12040 May 03 j 10:31	24°♒48'45	2.52325 AU
	-12040 May 10 j 21:42	0°♓	
conjunction	-12040 Jun 06 j 10:35	18°♓49'12	1°00'07
minimum elong	-12040 Jun 06 j 08:34	18°♓45'35	0°59'56
	-12040 Jun 21 j 19:55	0°♈	
morning rise	-12040 Jul 30 j 09:18	28°♈47'03	
	-12040 Jul 31 j 23:44	0°♉	
	-12040 Sep 09 j 00:58	0°♊	
	-12040 Oct 17 j 18:50	0°♋	
	-12040 Nov 26 j 03:15	0°♌	
desc. node	-12039 Jan 05 j 19:22	29°♌46'32	
	-12039 Jan 06 j 02:57	0°♍	
	-12039 Feb 19 j 03:58	0°♎	
	-12039 Apr 10 j 17:56	0°♏	
retrograde	-12039 Jun 19 j 11:42	22°♏25'44	
min. Earth dist.	-12039 Jul 26 j 12:46	13°♏41'24	0.64213 AU
opposition	-12039 Jul 29 j 10:53	12°♏31'02	-4°58'51
greatest brilliancy	-12039 Jul 28 j 23:43	12°♏42'14	-1.4m
direct	-12039 Sep 06 j 03:43	3°♏18'19	
	-12039 Nov 26 j 18:53	0°♐	
asc. node	-12038 Jan 06 j 02:29	22°♐09'32	
	-12038 Jan 19 j 09:14	0°♑	
	-12038 Mar 08 j 08:08	0°♒	
	-12038 Apr 21 j 20:25	0°♓	
	-12038 Jun 02 j 16:20	0°♈	
evening set	-12038 Jun 04 j 13:34	1°♈23'27	
max. Earth dist.	-12038 Jun 30 j 04:22	20°♈34'53	2.40634 AU
	-12038 Jul 12 j 12:32	0°♉	
conjunction	-12038 Aug 01 j 16:07	15°♉33'58	1°08'21
minimum elong	-12038 Aug 01 j 18:09	15°♉37'54	1°08'49
	-12038 Aug 20 j 04:17	0°♊	
	-12038 Sep 27 j 12:39	0°♋	
morning rise	-12038 Oct 03 j 17:51	4°♋50'18	
	-12038 Nov 05 j 11:11	0°♌	
desc. node	-12038 Nov 23 j 11:29	13°♌33'10	
	-12038 Dec 15 j 20:11	0°♍	
	-12037 Jan 27 j 10:39	0°♎	
	-12037 Mar 14 j 05:38	0°♏	
	-12037 May 04 j 14:50	0°♐	
retrograde	-12037 Jul 24 j 19:03	27°♐18'57	
opposition	-12037 Sep 02 j 08:31	17°♐45'23	-3°07'54
greatest brilliancy	-12037 Sep 02 j 11:25	17°♐42'28	-1.4m
min. Earth dist.	-12037 Sep 03 j 05:34	17°♐24'15	0.66410 AU
direct	-12037 Oct 12 j 17:31	7°♐55'53	
asc. node	-12037 Nov 24 j 08:41	17°♐06'29	
	-12037 Dec 23 j 10:09	0°♑	
	-12036 Feb 14 j 14:22	0°♒	
	-12036 Mar 31 j 15:03	0°♓	
	-12036 May 12 j 22:11	0°♈	
	-12036 Jun 21 j 20:40	0°♉	
	-12036 Jul 30 j 11:55	0°♊	
evening set	-12036 Aug 04 j 07:39	3°♊46'39	
	-12036 Sep 06 j 19:35	0°♋	
conjunction	-12036 Oct 05 j 21:31	22°♋29'33	0°03'22
minimum elong	-12036 Oct 05 j 21:53	22°♋30'16	0°04'01
behind sun begin	-12036 Oct 04 j 19:53	21°♋40'28	
behind sun end	-12036 Oct 06 j 23:53	23°♋20'01	
desc. node	-12036 Oct 10 j 06:38	25°♋50'27	
	-12036 Oct 15 j 17:46	0°♌	
max. Earth dist.	-12036 Nov 19 j 02:51	25°♌39'48	2.43505 AU
	-12036 Nov 25 j 01:24	0°♍	
morning rise	-12036 Dec 07 j 03:32	8°♍44'04	
	-12035 Jan 06 j 08:38	0°♎	
	-12035 Feb 20 j 00:59	0°♏	
	-12035 Apr 08 j 12:22	0°♐	
	-12035 May 30 j 08:46	0°♑	
	-12035 Aug 10 j 09:04	0°♒	
retrograde	-12035 Aug 29 j 23:17	2°♒12'39	
	-12035 Sep 17 j 09:44	30°℞♑	
opposition	-12035 Oct 07 j 01:49	23°♑25'35	-0°11'38
greatest brilliancy	-12035 Oct 07 j 02:49	23°♑24'37	-1.6m
asc. node	-12035 Oct 11 j 13:39	21°♑40'15	
min. Earth dist.	-12035 Oct 11 j 15:11	21°♑38'46	0.62446 AU
direct	-12035 Nov 16 j 20:22	13°♑29'13	
	-12034 Jan 14 j 05:59	0°♒	
	-12034 Mar 08 j 01:56	0°♓	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12034 Apr 21 j 07:33	0°♈	
	-12034 Jun 01 j 00:57	0°♉	
	-12034 Jul 10 j 02:59	0°♊	
	-12034 Aug 17 j 19:19	0°♋	
desc. node	-12034 Aug 28 j 05:04	8°♋01'15	
	-12034 Sep 26 j 01:51	0°♌	
evening set	-12034 Oct 07 j 07:38	8°♌25'12	
	-12034 Nov 05 j 17:03	0°♍	
conjunction	-12034 Dec 03 j 17:13	19°♍55'55	-1°00'39
minimum elong	-12034 Dec 03 j 14:51	19°♍51'48	1°00'28
	-12034 Dec 18 j 04:47	0°♎	
max. Earth dist.	-12033 Jan 04 j 21:29	12°♎05'18	2.55409 AU
morning rise	-12033 Jan 27 j 04:45	27°♎01'01	
	-12033 Jan 31 j 17:06	0°♏	
	-12033 Mar 19 j 02:59	0°♐	
	-12033 May 06 j 08:19	0°♑	
	-12033 Jun 26 j 04:24	0°♒	
	-12033 Aug 24 j 11:19	0°♓	
asc. node	-12033 Aug 29 j 13:38	2°♓03'37	
retrograde	-12033 Oct 14 j 01:09	12°♓18'17	
opposition	-12033 Nov 18 j 09:56	4°♓50'00	3°45'53
greatest brilliancy	-12033 Nov 19 j 08:07	4°♓29'56	-2.0m
min. Earth dist.	-12033 Nov 25 j 23:51	2°♓05'35	0.52929 AU
	-12033 Dec 02 j 04:40	30°♑℞♒	
direct	-12033 Dec 27 j 12:36	25°♒43'59	
	-12032 Jan 22 j 19:24	0°♓	
	-12032 Mar 23 j 08:53	0°♈	
	-12032 May 06 j 17:02	0°♉	
	-12032 Jun 16 j 12:25	0°♊	
desc. node	-12032 Jul 15 j 08:06	21°♊41'11	
	-12032 Jul 26 j 08:58	0°♋	
	-12032 Sep 04 j 14:33	0°♌	
	-12032 Oct 16 j 01:09	0°♍	
evening set	-12032 Nov 28 j 04:12	0°♎00'46	
	-12032 Nov 28 j 03:46	0°♎	
	-12031 Jan 12 j 00:01	0°♏	
conjunction	-12031 Jan 18 j 17:30	4°♏24'53	-1°14'38
minimum elong	-12031 Jan 18 j 17:58	4°♏25'39	1°15'00
max. Earth dist.	-12031 Feb 02 j 11:33	14°♏01'39	2.63480 AU
	-12031 Feb 27 j 05:50	0°♐	
morning rise	-12031 Mar 09 j 01:32	6°♐17'19	
	-12031 Apr 15 j 08:05	0°♑	
	-12031 Jun 01 j 21:06	0°♒	
asc. node	-12031 Jul 16 j 07:23	27°♒41'41	
	-12031 Jul 20 j 01:20	0°♓	
	-12031 Sep 08 j 11:15	0°♈	
	-12031 Nov 09 j 11:00	0°♉	
retrograde	-12031 Dec 15 j 06:15	6°♉56'07	
opposition	-12030 Jan 15 j 18:48	1°♉23'38	7°05'00
greatest brilliancy	-12030 Jan 17 j 06:22	0°♉57'37	-2.6m
	-12030 Jan 20 j 13:27	30°♑℞♈	
min. Earth dist.	-12030 Jan 21 j 21:26	29°♈37'01	0.41345 AU
direct	-12030 Feb 18 j 08:14	25°♈01'51	
	-12030 Mar 18 j 11:09	0°♉	
	-12030 May 15 j 22:23	0°♊	
desc. node	-12030 Jun 02 j 15:06	11°♊24'46	
	-12030 Jun 30 j 03:55	0°♋	
	-12030 Aug 12 j 11:09	0°♌	
	-12030 Sep 24 j 23:16	0°♍	
	-12030 Nov 08 j 11:35	0°♎	
	-12030 Dec 24 j 04:54	0°♏	
evening set	-12029 Jan 10 j 18:33	11°♏21'21	
	-12029 Feb 08 j 19:29	0°♐	
max. Earth dist.	-12029 Feb 27 j 11:28	11°♐56'50	2.66393 AU
conjunction	-12029 Feb 28 j 09:26	12°♐31'58	-0°51'42
minimum elong	-12029 Feb 28 j 10:59	12°♐34'27	0°52'20
	-12029 Mar 27 j 15:38	0°♑	
morning rise	-12029 Apr 16 j 12:48	12°♑47'57	
	-12029 May 13 j 01:07	0°♒	
asc. node	-12029 Jun 02 j 22:40	13°♒41'31	
	-12029 Jun 27 j 14:00	0°♓	
	-12029 Aug 11 j 06:42	0°♈	
	-12029 Sep 24 j 13:11	0°♉	
	-12029 Nov 08 j 10:07	0°♊	
	-12029 Dec 27 j 07:09	0°♋	
retrograde	-12028 Mar 01 j 02:37	21°♋44'27	
min. Earth dist.	-12028 Mar 28 j 17:25	17°♋04'20	0.40147 AU
opposition	-12028 Apr 03 j 02:14	15°♋30'25	1°16'02
greatest brilliancy	-12028 Apr 02 j 21:34	15°♋33'50	-2.8m
desc. node	-12028 Apr 19 j 20:09	11°♋19'46	
direct	-12028 May 03 j 21:23	10°♋04'08	
	-12028 Jul 07 j 05:02	0°♌	
	-12028 Aug 29 j 03:53	0°♍	
	-12028 Oct 16 j 17:17	0°♎	
	-12028 Dec 03 j 12:34	0°♏	
	-12027 Jan 20 j 03:48	0°♐	
evening set	-12027 Feb 18 j 11:43	18°♐36'18	
	-12027 Mar 08 j 07:05	0°♑	
max. Earth dist.	-12027 Mar 23 j 14:43	9°♑52'56	2.63975 AU
conjunction	-12027 Apr 07 j 14:48	19°♑39'08	-0°07'24
minimum elong	-12027 Apr 07 j 15:08	19°♑39'41	0°08'04
behind sun begin	-12027 Apr 06 j 21:44	19°♑11'14	
behind sun end	-12027 Apr 08 j 08:32	20°♑08'09	
asc. node	-12027 Apr 19 j 15:34	27°♑33'28	
	-12027 Apr 23 j 08:15	0°♒	
morning rise	-12027 May 25 j 02:38	21°♒17'40	
	-12027 Jun 06 j 20:30	0°♓	
	-12027 Jul 19 j 17:46	0°♈	
	-12027 Aug 30 j 05:44	0°♉	
	-12027 Oct 09 j 20:56	0°♊	
	-12027 Nov 19 j 10:47	0°♋	
	-12027 Dec 31 j 09:43	0°♌	
	-12026 Feb 16 j 06:10	0°♍	
desc. node	-12026 Mar 07 j 20:05	10°♍22'14	
retrograde	-12026 Apr 25 j 21:37	23°♍59'49	
min. Earth dist.	-12026 May 26 j 08:07	17°♍46'40	0.51467 AU
greatest brilliancy	-12026 Jun 01 j 18:13	15°♍24'55	-2.1m
opposition	-12026 Jun 03 j 00:16	14°♍57'10	-4°33'02
direct	-12026 Jul 07 j 13:35	7°♍30'21	
	-12026 Sep 17 j 06:43	0°♎	
	-12026 Nov 11 j 03:43	0°♏	
	-12026 Dec 31 j 09:56	0°♐	
	-12025 Feb 17 j 14:08	0°♑	
asc. node	-12025 Mar 07 j 13:31	11°♑30'15	
evening set	-12025 Mar 30 j 21:39	26°♑44'04	
	-12025 Apr 04 j 20:04	0°♒	
max. Earth dist.	-12025 Apr 20 j 22:30	10°♒46'28	2.56474 AU
	-12025 May 18 j 23:42	0°♓	
conjunction	-12025 May 19 j 22:53	0°♓40'22	0°43'36
minimum elong	-12025 May 19 j 21:06	0°♓37'16	0°43'13
	-12025 Jun 30 j 02:16	0°♈	
morning rise	-12025 Jul 10 j 02:55	7°♈20'34	
	-12025 Aug 09 j 12:12	0°♉	
	-12025 Sep 17 j 20:12	0°♊	
	-12025 Oct 26 j 20:54	0°♋	
	-12025 Dec 05 j 13:01	0°♌	
	-12024 Jan 16 j 01:47	0°♍	
desc. node	-12024 Jan 23 j 15:49	5°♍15'03	
	-12024 Mar 01 j 13:06	0°♎	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12024 Apr 28 j 12:50	0°♏		
retrograde	-12024 Jun 05 j 05:59	8°♏00'34		
	-12024 Jul 10 j 07:29	30°℞♎		
min. Earth dist.	-12024 Jul 10 j 15:42	29°♎51'54	0.61686 AU	
greatest brilliancy	-12024 Jul 14 j 06:50	28°♎25'15	-1.6m	
opposition	-12024 Jul 15 j 01:16	28°♎06'53	-5°19'53	
direct	-12024 Aug 21 j 19:22	19°♎16'08		
	-12024 Oct 07 j 12:25	0°♏		
	-12024 Dec 07 j 13:07	0°♐		
asc. node	-12023 Jan 22 j 16:29	26°♐59'15		
	-12023 Jan 27 j 14:41	0°♑		
	-12023 Mar 15 j 19:39	0°♒		
	-12023 Apr 29 j 02:43	0°♓		
evening set	-12023 May 14 j 21:19	11°♓07'29		
max. Earth dist.	-12023 Jun 01 j 02:16	23°♓31'09	2.45085 AU	
	-12023 Jun 09 j 22:47	0°♈		
conjunction	-12023 Jul 09 j 02:42	21°♈47'44	1°13'23	
minimum elong	-12023 Jul 09 j 02:25	21°♈47'12	1°13'37	
	-12023 Jul 19 j 21:13	0°♉		
	-12023 Aug 27 j 15:50	0°♊		
morning rise	-12023 Sep 06 j 18:41	7°♊53'50		
	-12023 Oct 05 j 02:52	0°♋		
	-12023 Nov 13 j 03:38	0°♌		
desc. node	-12023 Dec 10 j 08:26	20°♌18'26		
	-12023 Dec 23 j 15:43	0°♍		
	-12022 Feb 04 j 13:42	0°♎		
	-12022 Mar 23 j 08:33	0°♏		
	-12022 May 18 j 05:22	0°♐		
retrograde	-12022 Jul 11 j 03:05	14°♐10'29		
opposition	-12022 Aug 19 j 23:22	4°♐25'15	-3°59'15	
min. Earth dist.	-12022 Aug 19 j 09:00	4°♐39'44	0.66302 AU	
greatest brilliancy	-12022 Aug 19 j 22:03	4°♐26'35	-1.4m	
	-12022 Aug 31 j 10:47	30°℞♏		
direct	-12022 Sep 28 j 19:43	24°♏46'51		
	-12022 Oct 30 j 00:40	0°♐		
asc. node	-12022 Dec 10 j 23:06	17°♐20'03		
	-12021 Jan 04 j 00:29	0°♑		
	-12021 Feb 23 j 06:24	0°♒		
	-12021 Apr 09 j 12:01	0°♓		
	-12021 May 21 j 12:58	0°♈		
	-12021 Jun 30 j 09:22	0°♉		
evening set	-12021 Jul 10 j 23:40	8°♉10'06		
	-12021 Aug 07 j 23:47	0°♊		
conjunction	-12021 Sep 10 j 23:15	26°♊37'58	0°34'45	
minimum elong	-12021 Sep 11 j 02:10	26°♊43'39	0°35'23	
	-12021 Sep 15 j 06:43	0°♋		
max. Earth dist.	-12021 Oct 12 j 01:54	20°♋45'55	2.39314 AU	
	-12021 Oct 24 j 03:51	0°♌		
desc. node	-12021 Oct 28 j 01:02	2°♌56'46		
morning rise	-12021 Nov 14 j 07:44	15°♌55'23		
	-12021 Dec 03 j 10:39	0°♍		
	-12020 Jan 14 j 18:34	0°♎		
	-12020 Feb 28 j 16:45	0°♏		
	-12020 Apr 17 j 01:35	0°♐		
	-12020 Jun 11 j 13:29	0°♑		
retrograde	-12020 Aug 14 j 23:42	18°♑31'38		
opposition	-12020 Sep 22 j 18:58	9°♑23'18	-1°27'25	
greatest brilliancy	-12020 Sep 22 j 23:25	9°♑18'54	-1.5m	
min. Earth dist.	-12020 Sep 25 j 22:14	8°♑08'45	0.64735 AU	
	-12020 Oct 24 j 04:20	30°℞♐		
asc. node	-12020 Oct 28 j 04:22	29°♐36'33		
direct	-12020 Nov 02 j 14:12	29°♐25'07		
	-12020 Nov 12 j 06:47	0°♑		
	-12019 Jan 27 j 23:37	0°♒		
	-12019 Mar 17 j 17:15	0°♓		
	-12019 Apr 29 j 21:45	0°♈		
	-12019 Jun 09 j 04:56	0°♉		
	-12019 Jul 18 j 00:55	0°♊		
	-12019 Aug 25 j 12:14	0°♋		
evening set	-12019 Sep 13 j 08:11	14°♋33'33		
desc. node	-12019 Sep 13 j 23:12	15°♋02'24		
	-12019 Oct 03 j 13:47	0°♌		
conjunction	-12019 Nov 12 j 10:50	29°♌35'26	-0°41'29	
minimum elong	-12019 Nov 12 j 08:16	29°♌30'45	0°41'05	
	-12019 Nov 13 j 00:23	0°♍		
max. Earth dist.	-12019 Dec 21 j 09:42	27°♍15'33	2.51019 AU	
	-12019 Dec 25 j 08:38	0°♎		
morning rise	-12018 Jan 08 j 20:41	9°♎56'29		
	-12018 Feb 07 j 20:20	0°♏		
	-12018 Mar 26 j 12:02	0°♐		
	-12018 May 14 j 14:48	0°♑		
	-12018 Jul 07 j 11:00	0°♒		
asc. node	-12018 Sep 15 j 06:02	25°♒15'20		
retrograde	-12018 Sep 25 j 01:04	25°♒49'47		
opposition	-12018 Oct 31 j 15:54	17°♒45'45	2°07'16	
greatest brilliancy	-12018 Nov 01 j 02:42	17°♒35'36	-1.8m	
min. Earth dist.	-12018 Nov 07 j 05:42	15°♒17'14	0.57235 AU	
direct	-12018 Dec 10 j 18:33	8°♒09'32		
	-12017 Feb 15 j 22:07	0°♓		
	-12017 Apr 05 j 13:16	0°♈		
	-12017 May 17 j 18:06	0°♉		
	-12017 Jun 26 j 14:39	0°♊		
desc. node	-12017 Aug 02 j 01:16	27°♊52'15		
	-12017 Aug 04 j 20:13	0°♋		
	-12017 Sep 13 j 13:39	0°♌		
	-12017 Oct 24 j 14:08	0°♍		
evening set	-12017 Nov 09 j 23:12	11°♍38'35		
	-12017 Dec 06 j 08:48	0°♎		
conjunction	-12016 Jan 02 j 12:16	18°♎23'07	-1°14'34	
minimum elong	-12016 Jan 02 j 11:39	18°♎22'06	1°14'46	
	-12016 Jan 20 j 00:04	0°♏		
max. Earth dist.	-12016 Jan 23 j 22:50	2°♏35'59	2.60886 AU	
morning rise	-12016 Feb 22 j 11:46	21°♏49'17		
	-12016 Mar 06 j 05:19	0°♐		
	-12016 Apr 22 j 14:31	0°♑		
	-12016 Jun 10 j 00:08	0°♒		
	-12016 Jul 30 j 09:04	0°♓		
asc. node	-12016 Aug 02 j 01:49	1°♓32'30		
	-12016 Sep 26 j 09:27	0°♈		
retrograde	-12016 Nov 17 j 16:48	13°♈15'09		
opposition	-12016 Dec 20 j 18:28	6°♈56'01	6°15'35	
greatest brilliancy	-12016 Dec 22 j 08:31	6°♈25'02	-2.4m	
min. Earth dist.	-12016 Dec 28 j 13:14	4°♈24'59	0.45574 AU	
	-12015 Jan 15 j 21:09	30°℞♓		
direct	-12015 Jan 25 j 23:10	29°♓17'11		
	-12015 Feb 05 j 05:37	0°♈		
	-12015 Apr 15 j 10:07	0°♉		
	-12015 May 30 j 07:59	0°♊		
desc. node	-12015 Jun 19 j 06:01	14°♊09'02		
	-12015 Jul 11 j 05:47	0°♋		
	-12015 Aug 21 j 19:51	0°♌		
	-12015 Oct 03 j 05:57	0°♍		
	-12015 Nov 16 j 01:10	0°♎		
evening set	-12015 Dec 25 j 12:47	26°♎12'41		
	-12015 Dec 31 j 07:46	0°♏		
conjunction	-12014 Feb 12 j 23:50	28°♏15'18	-1°03'53	
minimum elong	-12014 Feb 13 j 01:17	28°♏17'37	1°04'27	
	-12014 Feb 15 j 17:05	0°♐		
max. Earth dist.	-12014 Feb 18 j 00:27	1°♐28'48	2.65871 AU	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

morning rise	-12014 Apr 01 j 17:00	28°♐48'11	
	-12014 Apr 03 j 13:53	0°♑	
	-12014 May 20 j 07:05	0°♒	
asc. node	-12014 Jun 19 j 17:37	19°♒42'06	
	-12014 Jul 05 j 13:41	0°♓	
	-12014 Aug 20 j 15:30	0°♈	
	-12014 Oct 06 j 11:34	0°♉	
	-12014 Nov 26 j 08:58	0°♊	
retrograde	-12013 Feb 01 j 11:33	21°♊56'55	
opposition	-12013 Mar 04 j 14:59	16°♊40'05	4°44'36
min. Earth dist.	-12013 Mar 03 j 16:53	16°♊54'58	0.38445 AU
greatest brilliancy	-12013 Mar 04 j 16:17	16°♊39'13	-2.9m
direct	-12013 Apr 04 j 00:47	11°♊33'11	
desc. node	-12013 May 07 j 11:33	18°♊05'35	
	-12013 Jun 03 j 07:42	0°♋	
	-12013 Jul 25 j 00:55	0°♌	
	-12013 Sep 09 j 23:57	0°♍	
	-12013 Oct 26 j 08:32	0°♎	
	-12013 Dec 12 j 02:32	0°♏	
	-12012 Jan 28 j 05:27	0°♐	
evening set	-12012 Feb 04 j 05:29	4°♐27'18	
max. Earth dist.	-12012 Mar 13 j 16:52	29°♐02'48	2.65543 AU
	-12012 Mar 15 j 04:26	0°♑	
conjunction	-12012 Mar 23 j 06:51	5°♑13'10	-0°26'15
minimum elong	-12012 Mar 23 j 07:53	5°♑14'49	0°26'56
	-12012 Apr 30 j 07:21	0°♒	
asc. node	-12012 May 06 j 09:40	4°♒01'33	
morning rise	-12012 May 09 j 07:44	5°♒57'36	
	-12012 Jun 14 j 03:01	0°♓	
	-12012 Jul 27 j 13:13	0°♈	
	-12012 Sep 07 j 19:30	0°♉	
	-12012 Oct 19 j 10:48	0°♊	
	-12012 Nov 30 j 10:53	0°♋	
	-12011 Jan 14 j 05:28	0°♌	
	-12011 Mar 17 j 10:53	0°♍	
desc. node	-12011 Mar 24 j 14:30	1°♍33'23	
retrograde	-12011 Apr 06 j 14:06	2°♍43'32	
	-12011 Apr 26 j 08:08	30°℞♌	
min. Earth dist.	-12011 May 05 j 03:57	27°♌18'37	0.46575 AU
greatest brilliancy	-12011 May 12 j 05:18	24°♌53'05	-2.4m
opposition	-12011 May 13 j 04:35	24°♌33'01	-3°06'04
direct	-12011 Jun 15 j 03:22	17°♌52'29	
	-12011 Aug 02 j 22:58	0°♍	
	-12011 Sep 30 j 07:25	0°♎	
	-12011 Nov 20 j 02:54	0°♏	
	-12010 Jan 08 j 00:58	0°♐	
	-12010 Feb 24 j 16:51	0°♑	
evening set	-12010 Mar 14 j 19:33	11°♑38'52	
asc. node	-12010 Mar 24 j 05:51	17°♑46'43	
max. Earth dist.	-12010 Apr 09 j 04:35	28°♑15'29	2.59975 AU
	-12010 Apr 11 j 19:41	0°♒	
conjunction	-12010 May 02 j 19:00	14°♒03'18	0°24'16
minimum elong	-12010 May 02 j 17:58	14°♒01'33	0°23'44
	-12010 May 26 j 01:35	0°♓	
morning rise	-12010 Jun 21 j 00:24	18°♓13'57	
	-12010 Jul 07 j 09:58	0°♈	
	-12010 Aug 17 j 03:54	0°♉	
	-12010 Sep 25 j 21:00	0°♊	
	-12010 Nov 04 j 07:43	0°♋	
	-12010 Dec 14 j 12:29	0°♌	
	-12009 Jan 26 j 00:55	0°♍	
desc. node	-12009 Feb 09 j 10:50	9°♍31'01	
	-12009 Mar 15 j 14:06	0°♎	
retrograde	-12009 May 22 j 05:41	22°♎27'12	
min. Earth dist.	-12009 Jun 24 j 19:16	14°♎59'43	0.58270 AU
opposition	-12009 Jun 30 j 15:07	12°♎43'06	-5°23'09
greatest brilliancy	-12009 Jun 29 j 13:50	13°♎07'52	-1.7m
direct	-12009 Aug 06 j 06:31	4°♎19'51	
	-12009 Oct 24 j 07:59	0°♏	
	-12009 Dec 17 j 18:50	0°♐	
	-12008 Feb 05 j 08:45	0°♑	
asc. node	-12008 Feb 09 j 07:06	2°♑27'37	
	-12008 Mar 23 j 02:20	0°♒	
evening set	-12008 Apr 25 j 22:17	22°♒48'44	
	-12008 May 06 j 07:07	0°♓	
max. Earth dist.	-12008 May 12 j 10:33	4°♓18'08	2.49842 AU
conjunction	-12008 Jun 17 j 15:56	0°♈19'59	1°07'13
minimum elong	-12008 Jun 17 j 14:12	0°♈16'49	1°07'11
	-12008 Jun 17 j 05:02	0°♈	
	-12008 Jul 27 j 07:03	0°♉	
morning rise	-12008 Aug 12 j 12:17	12°♉25'16	
	-12008 Sep 04 j 05:36	0°♊	
	-12008 Oct 12 j 20:22	0°♋	
	-12008 Nov 21 j 00:45	0°♌	
desc. node	-12008 Dec 27 j 04:41	26°♌43'08	
	-12008 Dec 31 j 18:13	0°♍	
	-12007 Feb 13 j 05:23	0°♎	
	-12007 Apr 02 j 19:40	0°♏	
	-12007 Jun 16 j 04:27	0°♐	
retrograde	-12007 Jun 27 j 12:02	0°♐48'05	
	-12007 Jul 08 j 09:23	30°℞♏	
min. Earth dist.	-12007 Aug 04 j 09:18	21°♏45'36	0.65230 AU
opposition	-12007 Aug 06 j 11:12	20°♏55'21	-4°40'20
greatest brilliancy	-12007 Aug 06 j 03:56	21°♏02'41	-1.4m
direct	-12007 Sep 14 j 14:43	11°♏32'13	
	-12007 Nov 18 j 10:25	0°♐	
asc. node	-12007 Dec 27 j 11:50	20°♐11'05	
	-12006 Jan 13 j 15:34	0°♑	
	-12006 Mar 03 j 07:10	0°♒	
	-12006 Apr 17 j 01:26	0°♓	
	-12006 May 28 j 23:36	0°♈	
evening set	-12006 Jun 17 j 03:29	14°♈16'01	
	-12006 Jul 07 j 20:13	0°♉	
max. Earth dist.	-12006 Jul 27 j 23:29	15°♉33'31	2.38857 AU
conjunction	-12006 Aug 15 j 19:44	0°♊16'02	0°59'38
minimum elong	-12006 Aug 15 j 22:49	0°♊22'03	1°00'12
	-12006 Aug 15 j 11:33	0°♊	
	-12006 Sep 22 j 19:09	0°♋	
morning rise	-12006 Oct 19 j 01:33	20°♋21'10	
	-12006 Oct 31 j 16:23	0°♌	
desc. node	-12006 Nov 13 j 22:24	10°♌00'39	
	-12006 Dec 10 j 23:18	0°♍	
	-12005 Jan 22 j 09:33	0°♎	
	-12005 Mar 08 j 17:35	0°♏	
	-12005 Apr 27 j 14:16	0°♐	
	-12005 Jul 01 j 14:52	0°♑	
retrograde	-12005 Aug 01 j 19:00	5°♑17'43	
	-12005 Aug 30 j 07:46	30°℞♐	
opposition	-12005 Sep 10 j 02:52	25°♐52'07	-2°33'37
greatest brilliancy	-12005 Sep 10 j 07:07	25°♐47'52	-1.4m
min. Earth dist.	-12005 Sep 11 j 19:35	25°♐11'24	0.66075 AU
direct	-12005 Oct 20 j 16:41	15°♐58'01	
asc. node	-12005 Nov 14 j 18:06	19°♐29'30	
	-12005 Dec 14 j 00:59	0°♑	
	-12004 Feb 08 j 13:36	0°♒	
	-12004 Mar 26 j 08:55	0°♓	
	-12004 May 07 j 22:58	0°♈	
	-12004 Jun 17 j 00:20	0°♉	
	-12004 Jul 25 j 17:01	0°♊	
evening set	-12004 Aug 18 j 21:34	18°♊56'11	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-12004 Sep 02 j 01:38	0°♋	
desc. node	-12004 Sep 30 j 17:25	22°♋09'14	
	-12004 Oct 11 j 00:21	0°♌	
conjunction	-12004 Oct 19 j 23:57	6°♌47'28	-0°14'26
minimum elong	-12004 Oct 19 j 22:47	6°♌45'17	0°13'51
behind sun begin	-12004 Oct 19 j 09:13	6°♌19'46	
behind sun end	-12004 Oct 20 j 12:20	7°♌10'46	
	-12004 Nov 20 j 08:07	0°♍	
max. Earth dist.	-12004 Dec 02 j 20:20	9°♍02'13	2.46205 AU
morning rise	-12004 Dec 19 j 14:30	20°♍56'04	
	-12003 Jan 01 j 14:33	0°♎	
	-12003 Feb 15 j 03:31	0°♏	
	-12003 Apr 03 j 05:01	0°♐	
	-12003 May 23 j 17:38	0°♑	
	-12003 Jul 23 j 02:14	0°♒	
retrograde	-12003 Sep 08 j 01:25	10°♒48'22	
asc. node	-12003 Oct 01 j 21:36	7°♒07'49	
opposition	-12003 Oct 15 j 16:27	2°♒15'03	0°36'33
greatest brilliancy	-12003 Oct 15 j 18:58	2°♒12'38	-1.6m
min. Earth dist.	-12003 Oct 20 j 23:53	0°♒11'51	0.60830 AU
	-12003 Oct 21 j 12:15	30°℞♑	
direct	-12003 Nov 25 j 07:42	22°♑22'45	
	-12002 Jan 01 j 12:42	0°♒	
	-12002 Mar 01 j 06:30	0°♓	
	-12002 Apr 15 j 14:18	0°♈	
	-12002 May 26 j 17:45	0°♉	
	-12002 Jul 05 j 00:58	0°♊	
	-12002 Aug 12 j 20:53	0°♋	
desc. node	-12002 Aug 18 j 17:01	4°♋29'31	
	-12002 Sep 21 j 06:02	0°♌	
evening set	-12002 Oct 20 j 01:09	21°♌20'36	
	-12002 Oct 31 j 23:16	0°♍	
	-12002 Dec 13 j 12:21	0°♎	
conjunction	-12002 Dec 14 j 23:43	1°♎00'54	-1°07'52
minimum elong	-12002 Dec 14 j 21:55	0°♎57'48	1°07'51
max. Earth dist.	-12001 Jan 12 j 05:51	20°♎10'47	2.57563 AU
	-12001 Jan 27 j 00:33	0°♏	
morning rise	-12001 Feb 06 j 02:04	6°♏36'48	
	-12001 Mar 14 j 07:31	0°♐	
	-12001 May 01 j 03:30	0°♑	
	-12001 Jun 19 j 20:19	0°♒	
	-12001 Aug 13 j 07:26	0°♓	
asc. node	-12001 Aug 19 j 19:57	3°♓11'40	
retrograde	-12001 Oct 26 j 01:29	23°♓03'30	
opposition	-12001 Nov 29 j 15:19	15°♓57'57	4°43'20
greatest brilliancy	-12001 Nov 30 j 20:17	15°♓32'30	-2.1m
min. Earth dist.	-12001 Dec 07 j 12:17	13°♓12'17	0.50356 AU
direct	-12000 Jan 06 j 21:30	7°♓16'50	
	-12000 Mar 13 j 17:05	0°♈	
	-12000 Apr 29 j 17:03	0°♉	
	-12000 Jun 10 j 10:54	0°♊	
desc. node	-12000 Jul 05 j 21:31	18°♊52'13	
	-12000 Jul 20 j 20:10	0°♋	
	-12000 Aug 30 j 10:19	0°♌	
	-12000 Oct 11 j 03:00	0°♍	
	-12000 Nov 23 j 09:52	0°♎	
evening set	-12000 Dec 08 j 10:47	10°♎09'22	
	-11999 Jan 07 j 08:30	0°♏	
conjunction	-11999 Jan 28 j 03:09	13°♏33'35	-1°12'03
minimum elong	-11999 Jan 28 j 04:05	13°♏35'07	1°12'31
max. Earth dist.	-11999 Feb 08 j 09:24	20°♏50'44	2.64553 AU
	-11999 Feb 22 j 14:40	0°♐	
morning rise	-11999 Mar 17 j 18:37	14°♐49'28	
	-11999 Apr 10 j 14:13	0°♑	
	-11999 May 27 j 18:38	0°♒	
asc. node	-11999 Jul 06 j 13:24	25°♒13'43	
	-11999 Jul 14 j 02:45	0°♓	
	-11999 Aug 31 j 10:24	0°♈	
	-11999 Oct 22 j 23:49	0°♉	
retrograde	-11998 Jan 01 j 12:42	22°♉36'18	
opposition	-11998 Feb 01 j 09:26	17°♉22'07	6°51'01
greatest brilliancy	-11998 Feb 02 j 11:20	17°♉04'07	-2.7m
min. Earth dist.	-11998 Feb 05 j 11:41	16°♉13'58	0.39618 AU
direct	-11998 Mar 05 j 13:39	11°♉39'17	
	-11998 May 03 j 04:45	0°♊	
desc. node	-11998 May 24 j 03:07	11°♊50'44	
	-11998 Jun 22 j 01:18	0°♋	
	-11998 Aug 06 j 00:54	0°♌	
	-11998 Sep 19 j 09:55	0°♍	
	-11998 Nov 03 j 10:27	0°♎	
	-11998 Dec 19 j 10:39	0°♏	
evening set	-11997 Jan 19 j 19:00	20°♏08'47	
	-11997 Feb 04 j 04:39	0°♐	
max. Earth dist.	-11997 Mar 05 j 01:08	18°♐26'55	2.66327 AU
conjunction	-11997 Mar 09 j 02:29	21°♐02'46	-0°43'09
minimum elong	-11997 Mar 09 j 03:57	21°♐05'06	0°43'49
	-11997 Mar 23 j 01:29	0°♑	
morning rise	-11997 Apr 25 j 02:10	21°♑20'48	
	-11997 May 08 j 08:22	0°♒	
asc. node	-11997 May 24 j 05:14	10°♒26'01	
	-11997 Jun 22 j 14:38	0°♓	
	-11997 Aug 05 j 18:48	0°♈	
	-11997 Sep 18 j 04:05	0°♉	
	-11997 Oct 31 j 11:23	0°♊	
	-11997 Dec 15 j 10:49	0°♋	
	-11996 Feb 08 j 14:05	0°♌	
retrograde	-11996 Mar 15 j 09:03	7°♌54'18	
desc. node	-11996 Apr 10 j 06:52	3°♌34'31	
min. Earth dist.	-11996 Apr 11 j 21:08	3°♌05'46	0.42065 AU
opposition	-11996 Apr 18 j 19:03	0°♌56'24	-0°36'54
greatest brilliancy	-11996 Apr 18 j 14:36	0°♌59'53	-2.7m
	-11996 Apr 21 j 20:08	30°℞♋	
direct	-11996 May 20 j 05:15	25°♋05'40	
	-11996 Jun 18 j 07:08	0°♌	
	-11996 Aug 21 j 01:45	0°♍	
	-11996 Oct 10 j 17:18	0°♎	
	-11996 Nov 28 j 08:34	0°♏	
	-11995 Jan 15 j 09:06	0°♐	
evening set	-11995 Feb 27 j 07:00	27°♐11'07	
	-11995 Mar 03 j 16:28	0°♑	
max. Earth dist.	-11995 Mar 29 j 13:34	16°♑43'49	2.62776 AU
asc. node	-11995 Apr 09 j 23:07	24°♑11'46	
conjunction	-11995 Apr 16 j 14:25	28°♑34'22	0°04'08
minimum elong	-11995 Apr 16 j 14:16	28°♑34'08	0°03'31
behind sun begin	-11995 Apr 15 j 18:34	28°♑01'36	
behind sun end	-11995 Apr 17 j 09:58	29°♑06'40	
	-11995 Apr 18 j 18:11	0°♒	
	-11995 Jun 02 j 04:25	0°♓	
morning rise	-11995 Jun 03 j 12:49	0°♓55'51	
	-11995 Jul 14 j 21:06	0°♈	
	-11995 Aug 25 j 02:20	0°♉	
	-11995 Oct 04 j 08:30	0°♊	
	-11995 Nov 13 j 10:23	0°♋	
	-11995 Dec 24 j 12:36	0°♌	
	-11994 Feb 07 j 00:19	0°♍	
desc. node	-11994 Feb 26 j 07:29	11°♍32'44	
	-11994 Apr 07 j 00:49	0°♎	
retrograde	-11994 May 05 j 23:44	5°♎12'54	
	-11994 Jun 02 j 11:26	30°℞♍	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

min. Earth dist.	-11994 Jun 06 j 12:38	28°♍32'24	0.54034 AU	
greatest brilliancy	-11994 Jun 12 j 09:37	26°♍19'14	-1.9m	
opposition	-11994 Jun 13 j 15:29	25°♍50'54	-5°01'28	
direct	-11994 Jul 19 j 00:01	18°♍01'56		
	-11994 Sep 06 j 02:05	0°♎		
	-11994 Nov 04 j 18:14	0°♏		
	-11994 Dec 26 j 04:06	0°♐		
	-11993 Feb 12 j 19:00	0°♑		
asc. node	-11993 Feb 25 j 21:43	8°♑20'01		
	-11993 Mar 31 j 04:59	0°♒		
evening set	-11993 Apr 09 j 10:56	6°♒09'16		
max. Earth dist.	-11993 Apr 28 j 12:06	19°♒02'17	2.54259 AU	
	-11993 May 14 j 09:20	0°♓		
conjunction	-11993 May 30 j 07:09	11°♓11'00	0°53'32	
minimum elong	-11993 May 30 j 05:10	11°♓07'28	0°53'16	
	-11993 Jun 25 j 10:25	0°♈		
morning rise	-11993 Jul 21 j 21:02	19°♈33'48		
	-11993 Aug 04 j 17:38	0°♉		
	-11993 Sep 12 j 22:01	0°♊		
	-11993 Oct 21 j 18:41	0°♋		
	-11993 Nov 30 j 05:31	0°♌		
	-11992 Jan 10 j 08:44	0°♍		
desc. node	-11992 Jan 14 j 01:59	2°♍37'10		
	-11992 Feb 23 j 19:42	0°♎		
	-11992 Apr 16 j 07:19	0°♏		
retrograde	-11992 Jun 13 j 13:16	16°♏48'44		
min. Earth dist.	-11992 Jul 19 j 21:01	8°♏19'28	0.63186 AU	
opposition	-11992 Jul 23 j 10:41	6°♏53'40	-5°09'42	
greatest brilliancy	-11992 Jul 22 j 20:20	7°♏08'03	-1.5m	
	-11992 Aug 12 j 16:37	30°℞♎		
direct	-11992 Aug 30 j 17:16	27°♎50'11		
	-11992 Sep 19 j 01:49	0°♏		
	-11992 Nov 30 j 20:10	0°♐		
asc. node	-11991 Jan 13 j 01:28	24°♐27'51		
	-11991 Jan 22 j 06:59	0°♑		
	-11991 Mar 10 j 23:02	0°♒		
	-11991 Apr 24 j 10:19	0°♓		
evening set	-11991 May 26 j 09:04	22°♓44'15		
	-11991 Jun 05 j 07:27	0°♈		
max. Earth dist.	-11991 Jun 15 j 15:08	7°♈38'16	2.42535 AU	
	-11991 Jul 15 j 05:23	0°♉		
conjunction	-11991 Jul 22 j 03:37	5°♉19'07	1°12'06	
minimum elong	-11991 Jul 22 j 04:37	5°♉21'03	1°12'28	
	-11991 Aug 22 j 22:34	0°♊		
morning rise	-11991 Sep 21 j 20:22	23°♊23'16		
	-11991 Sep 30 j 07:52	0°♋		
	-11991 Nov 08 j 06:37	0°♌		
desc. node	-11991 Nov 30 j 18:08	16°♌52'28		
	-11991 Dec 18 j 15:32	0°♍		
	-11990 Jan 30 j 07:19	0°♎		
	-11990 Mar 17 j 08:40	0°♏		
	-11990 May 09 j 00:30	0°♐		
retrograde	-11990 Jul 19 j 00:32	22°♐10'51		
opposition	-11990 Aug 27 j 17:06	12°♐31'41	-3°30'34	
greatest brilliancy	-11990 Aug 27 j 18:23	12°♐30'24	-1.4m	
min. Earth dist.	-11990 Aug 27 j 22:32	12°♐26'14	0.66477 AU	
direct	-11990 Oct 06 j 20:30	2°♐46'36		
asc. node	-11990 Dec 01 j 07:47	17°♐08'15		
	-11990 Dec 27 j 21:49	0°♑		
	-11989 Feb 17 j 17:55	0°♒		
	-11989 Apr 04 j 11:31	0°♓		
	-11989 May 16 j 17:12	0°♈		
	-11989 Jun 25 j 15:39	0°♉		
evening set	-11989 Jul 25 j 03:15	22°♉50'41		
	-11989 Aug 03 j 06:46	0°♊		
	-11989 Sep 10 j 13:51	0°♋		
conjunction	-11989 Sep 25 j 16:35	11°♋45'16	0°17'18	
minimum elong	-11989 Sep 25 j 18:12	11°♋48'23	0°17'57	
desc. node	-11989 Oct 18 j 12:36	29°♋17'47		
	-11989 Oct 19 j 10:47	0°♌		
max. Earth dist.	-11989 Nov 06 j 03:11	13°♌20'21	2.41427 AU	
morning rise	-11989 Nov 28 j 02:38	29°♌34'21		
	-11989 Nov 28 j 16:43	0°♍		
	-11988 Jan 09 j 22:44	0°♎		
	-11988 Feb 23 j 15:33	0°♏		
	-11988 Apr 11 j 09:10	0°♐		
	-11988 Jun 03 j 08:19	0°♑		
retrograde	-11988 Aug 23 j 12:09	26°♑44'45		
opposition	-11988 Sep 30 j 22:19	17°♑47'45	-0°44'41	
greatest brilliancy	-11988 Oct 01 j 01:15	17°♑44'52	-1.5m	
min. Earth dist.	-11988 Oct 04 j 20:37	16°♑14'55	0.63578 AU	
asc. node	-11988 Oct 18 j 12:58	11°♑22'43		
direct	-11988 Nov 10 j 17:34	7°♑49'37		
	-11987 Jan 19 j 22:08	0°♒		
	-11987 Mar 11 j 18:09	0°♓		
	-11987 Apr 24 j 13:11	0°♈		
	-11987 Jun 04 j 02:47	0°♉		
	-11987 Jul 13 j 02:16	0°♊		
	-11987 Aug 20 j 16:09	0°♋		
desc. node	-11987 Sep 04 j 10:23	11°♋23'56		
evening set	-11987 Sep 27 j 03:30	28°♋44'00		
	-11987 Sep 28 j 19:42	0°♌		
	-11987 Nov 08 j 07:36	0°♍		
conjunction	-11987 Nov 24 j 18:49	11°♍49'50	-0°53'24	
minimum elong	-11987 Nov 24 j 16:13	11°♍45'13	0°53'08	
	-11987 Dec 20 j 16:26	0°♎		
max. Earth dist.	-11987 Dec 29 j 23:36	6°♎23'48	2.53507 AU	
morning rise	-11986 Jan 19 j 12:32	20°♎17'48		
	-11986 Feb 03 j 02:52	0°♏		
	-11986 Mar 21 j 13:51	0°♐		
	-11986 May 09 j 02:18	0°♑		
	-11986 Jun 29 j 22:14	0°♒		
	-11986 Sep 03 j 17:06	0°♓		
asc. node	-11986 Sep 05 j 13:49	0°♓33'56		
retrograde	-11986 Oct 05 j 14:09	5°♓25'52		
	-11986 Nov 04 j 00:34	30°℞♒		
opposition	-11986 Nov 10 j 12:41	27°♒40'39	3°02'51	
greatest brilliancy	-11986 Nov 11 j 05:40	27°♒24'58	-1.9m	
min. Earth dist.	-11986 Nov 17 j 16:28	25°♒02'01	0.54931 AU	
direct	-11986 Dec 20 j 03:06	18°♒18'50		
	-11985 Feb 04 j 05:53	0°♓		
	-11985 Mar 29 j 10:07	0°♈		
	-11985 May 11 j 16:54	0°♉		
	-11985 Jun 21 j 01:03	0°♊		
desc. node	-11985 Jul 23 j 12:14	24°♊38'05		
	-11985 Jul 30 j 14:01	0°♋		
	-11985 Sep 08 j 13:06	0°♌		
	-11985 Oct 19 j 17:49	0°♍		
evening set	-11985 Nov 21 j 03:19	22°♍46'00		
	-11985 Dec 01 j 15:41	0°♎		
conjunction	-11984 Jan 12 j 12:21	28°♎07'39	-1°15'18	
minimum elong	-11984 Jan 12 j 12:23	28°♎07'43	1°15'37	
	-11984 Jan 15 j 08:28	0°♏		
max. Earth dist.	-11984 Jan 30 j 04:46	9°♏43'53	2.62425 AU	
	-11984 Mar 01 j 13:10	0°♐		
morning rise	-11984 Mar 02 j 12:26	0°♐37'19		
	-11984 Apr 17 j 17:41	0°♑		
	-11984 Jun 04 j 14:29	0°♒		
asc. node	-11984 Jul 23 j 08:28	29°♒51'34		

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-11984 Jul 23 j 14:05	0°♓	
	-11984 Sep 14 j 06:55	0°♈	
retrograde	-11984 Dec 02 j 17:10	26°♈32'43	
opposition	-11983 Jan 03 j 22:08	20°♈40'15	6°51'40
greatest brilliancy	-11983 Jan 05 j 13:05	20°♈10'19	-2.5m
min. Earth dist.	-11983 Jan 11 j 01:54	18°♈29'13	0.43116 AU
direct	-11983 Feb 07 j 17:11	13°♈43'19	
	-11983 Apr 02 j 20:39	0°♉	
	-11983 May 22 j 06:38	0°♊	
desc. node	-11983 Jun 09 j 18:58	12°♊35'57	
	-11983 Jul 04 j 16:10	0°♋	
	-11983 Aug 16 j 01:45	0°♌	
	-11983 Sep 27 j 23:56	0°♍	
	-11983 Nov 11 j 03:07	0°♎	
	-11983 Dec 26 j 14:28	0°♏	
evening set	-11982 Jan 03 j 23:07	5°♏25'56	
	-11982 Feb 11 j 02:09	0°♐	
conjunction	-11982 Feb 21 j 21:42	6°♐55'47	-0°57'14
minimum elong	-11982 Feb 21 j 23:16	6°♐58'17	0°57'52
max. Earth dist.	-11982 Feb 23 j 15:11	8°♐02'10	2.66269 AU
	-11982 Mar 29 j 22:28	0°♑	
morning rise	-11982 Apr 10 j 05:48	7°♑15'24	
	-11982 May 15 j 11:21	0°♒	
asc. node	-11982 Jun 09 j 23:55	16°♒38'17	
	-11982 Jun 30 j 08:00	0°♓	
	-11982 Aug 14 j 13:59	0°♈	
	-11982 Sep 28 j 19:11	0°♉	
	-11982 Nov 14 j 12:17	0°♊	
	-11981 Jan 09 j 02:11	0°♋	
retrograde	-11981 Feb 18 j 03:52	9°♋18'11	
min. Earth dist.	-11981 Mar 18 j 12:51	4°♋35'06	0.39051 AU
opposition	-11981 Mar 22 j 02:50	3°♋35'18	2°49'35
greatest brilliancy	-11981 Mar 21 j 21:24	3°♋39'06	-2.9m
	-11981 Apr 05 j 12:47	30°℞♊	
direct	-11981 Apr 21 j 13:13	28°♊23'16	
desc. node	-11981 Apr 28 j 00:40	28°♊39'19	
	-11981 May 07 j 14:57	0°♋	
	-11981 Jul 15 j 19:41	0°♌	
	-11981 Sep 03 j 10:11	0°♍	
	-11981 Oct 20 j 20:36	0°♎	
	-11981 Dec 07 j 03:08	0°♏	
	-11980 Jan 23 j 12:28	0°♐	
evening set	-11980 Feb 13 j 00:44	13°♐01'27	
	-11980 Mar 10 j 14:03	0°♑	
max. Earth dist.	-11980 Mar 19 j 10:54	5°♑42'40	2.64785 AU
conjunction	-11980 Apr 01 j 01:49	13°♑53'00	-0°15'31
minimum elong	-11980 Apr 01 j 02:28	13°♑54'04	0°16'11
	-11980 Apr 25 j 16:31	0°♒	
asc. node	-11980 Apr 26 j 16:13	0°♒39'07	
morning rise	-11980 May 18 j 06:51	15°♒02'33	
	-11980 Jun 09 j 08:51	0°♓	
	-11980 Jul 22 j 12:12	0°♈	
	-11980 Sep 02 j 08:19	0°♉	
	-11980 Oct 13 j 09:07	0°♊	
	-11980 Nov 23 j 11:25	0°♋	
	-11979 Jan 05 j 07:18	0°♌	
	-11979 Feb 24 j 03:11	0°♍	
desc. node	-11979 Mar 15 j 01:14	8°♍29'20	
retrograde	-11979 Apr 17 j 22:36	15°♍36'27	
min. Earth dist.	-11979 May 17 j 11:10	9°♍45'33	0.49286 AU
greatest brilliancy	-11979 May 24 j 05:47	7°♍20'05	-2.2m
opposition	-11979 May 25 j 10:17	6°♍54'27	-4°02'40
	-11979 Jun 22 j 15:40	30°℞♌	
direct	-11979 Jun 28 j 07:18	29°♌47'21	
	-11979 Jul 04 j 01:11	0°♍	

	-11979 Sep 22 j 13:29	0°♎	
	-11979 Nov 14 j 09:10	0°♏	
	-11978 Jan 03 j 00:29	0°♐	
	-11978 Feb 19 j 23:37	0°♑	
asc. node	-11978 Mar 14 j 13:15	14°♑29'40	
evening set	-11978 Mar 23 j 23:21	20°♑37'39	
	-11978 Apr 07 j 04:59	0°♒	
max. Earth dist.	-11978 Apr 15 j 22:44	5°♒49'01	2.58138 AU
conjunction	-11978 May 12 j 11:25	23°♒48'03	0°35'35
minimum elong	-11978 May 12 j 09:55	23°♒45'30	0°35'08
	-11978 May 21 j 10:49	0°♓	
morning rise	-11978 Jul 01 j 15:44	29°♓14'26	
	-11978 Jul 02 j 16:52	0°♈	
	-11978 Aug 12 j 07:06	0°♉	
	-11978 Sep 20 j 19:14	0°♊	
	-11978 Oct 29 j 23:51	0°♋	
	-11978 Dec 08 j 20:10	0°♌	
	-11977 Jan 19 j 15:50	0°♍	
desc. node	-11977 Jan 30 j 21:38	7°♍39'34	
	-11977 Mar 07 j 00:25	0°♎	
	-11977 May 13 j 10:40	0°♏	
retrograde	-11977 May 31 j 00:39	1°♏57'17	
	-11977 Jun 16 j 16:06	30°℞♎	
min. Earth dist.	-11977 Jul 04 j 14:54	24°♎06'03	0.60259 AU
opposition	-11977 Jul 09 j 15:46	22°♎06'30	-5°23'58
greatest brilliancy	-11977 Jul 08 j 18:07	22°♎27'58	-1.6m
direct	-11977 Aug 15 j 21:46	13°♎27'17	
	-11977 Oct 15 j 05:38	0°♏	
	-11977 Dec 11 j 21:06	0°♐	
asc. node	-11976 Jan 30 j 15:12	29°♐35'29	
	-11976 Jan 31 j 07:05	0°♑	
	-11976 Mar 18 j 07:56	0°♒	
	-11976 May 01 j 15:16	0°♓	
evening set	-11976 May 06 j 13:25	3°♓26'34	
max. Earth dist.	-11976 May 23 j 00:09	15°♓06'02	2.47229 AU
	-11976 Jun 12 j 13:11	0°♈	
conjunction	-11976 Jun 29 j 14:10	12°♈37'28	1°11'54
minimum elong	-11976 Jun 29 j 13:07	12°♈35'29	1°12'02
	-11976 Jul 22 j 14:06	0°♉	
morning rise	-11976 Aug 26 j 12:21	26°♉56'17	
	-11976 Aug 30 j 10:49	0°♊	
	-11976 Oct 07 j 23:20	0°♋	
	-11976 Nov 16 j 01:04	0°♌	
desc. node	-11976 Dec 17 j 15:03	23°♌30'00	
	-11976 Dec 26 j 13:58	0°♍	
	-11975 Feb 07 j 15:08	0°♎	
	-11975 Mar 26 j 22:21	0°♏	
	-11975 May 25 j 04:37	0°♐	
retrograde	-11975 Jul 05 j 09:49	8°♐57'46	
	-11975 Aug 12 j 04:19	30°℞♏	
min. Earth dist.	-11975 Aug 13 j 01:07	29°♏39'03	0.65935 AU
opposition	-11975 Aug 14 j 07:18	29°♏08'37	-4°17'48
greatest brilliancy	-11975 Aug 14 j 03:31	29°♏12'26	-1.4m
direct	-11975 Sep 22 j 20:05	19°♏36'32	
	-11975 Nov 07 j 21:24	0°♐	
asc. node	-11975 Dec 17 j 21:33	18°♐40'27	
	-11974 Jan 07 j 13:36	0°♑	
	-11974 Feb 26 j 03:07	0°♒	
	-11974 Apr 12 j 05:05	0°♓	
	-11974 May 24 j 05:50	0°♈	
evening set	-11974 Jun 30 j 10:25	27°♈56'04	
	-11974 Jul 03 j 03:07	0°♉	
	-11974 Aug 10 j 18:08	0°♊	
conjunction	-11974 Aug 30 j 13:06	15°♊31'03	0°46'46

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

minimum elong	-11974 Aug 30 j 16:28	15°♊37'38	0°47'24
max. Earth dist.	-11974 Sep 09 j 05:55	23°♊07'12	2.38360 AU
	-11974 Sep 18 j 01:05	0°♋	
	-11974 Oct 26 j 21:39	0°♌	
morning rise	-11974 Nov 03 j 04:16	5°♌31'08	
desc. node	-11974 Nov 04 j 07:08	6°♌21'54	
	-11974 Dec 06 j 03:17	0°♍	
	-11973 Jan 17 j 10:40	0°♎	
	-11973 Mar 03 j 10:47	0°♏	
	-11973 Apr 21 j 06:28	0°♐	
	-11973 Jun 18 j 04:54	0°♑	
retrograde	-11973 Aug 09 j 21:51	13°♑17'20	
opposition	-11973 Sep 17 j 22:53	4°♑00'51	-1°56'19
greatest brilliancy	-11973 Sep 18 j 03:34	3°♑56'11	-1.4m
min. Earth dist.	-11973 Sep 20 j 10:43	3°♑01'14	0.65456 AU
	-11973 Sep 28 j 06:53	30°℞♐	
direct	-11973 Oct 28 j 15:59	24°♐03'44	
asc. node	-11973 Nov 05 j 03:36	24°♐24'40	
	-11973 Nov 30 j 20:13	0°♑	
	-11972 Feb 02 j 01:31	0°♒	
	-11972 Mar 20 j 22:55	0°♓	
	-11972 May 02 j 21:53	0°♈	
	-11972 Jun 12 j 03:14	0°♉	
	-11972 Jul 20 j 21:49	0°♊	
	-11972 Aug 28 j 07:27	0°♋	
evening set	-11972 Sep 02 j 09:54	3°♋58'00	
desc. node	-11972 Sep 21 j 04:10	18°♋27'44	
	-11972 Oct 06 j 06:55	0°♌	
conjunction	-11972 Nov 02 j 14:05	20°♌26'35	-0°30'42
minimum elong	-11972 Nov 02 j 11:52	20°♌22'30	0°30'13
	-11972 Nov 15 j 14:56	0°♍	
max. Earth dist.	-11972 Dec 14 j 01:47	20°♍21'59	2.48898 AU
	-11972 Dec 27 j 20:58	0°♎	
morning rise	-11972 Dec 31 j 10:25	2°♎27'36	
	-11971 Feb 10 j 07:38	0°♏	
	-11971 Mar 29 j 01:50	0°♐	
	-11971 May 17 j 15:37	0°♑	
	-11971 Jul 12 j 09:37	0°♒	
retrograde	-11971 Sep 17 j 14:20	19°♒41'01	
asc. node	-11971 Sep 22 j 05:46	19°♒32'50	
opposition	-11971 Oct 24 j 16:07	11°♒23'09	1°27'35
greatest brilliancy	-11971 Oct 24 j 22:55	11°♒16'40	-1.7m
min. Earth dist.	-11971 Oct 30 j 16:18	9°♒05'28	0.58950 AU
direct	-11971 Dec 04 j 01:06	1°♒38'10	
	-11970 Feb 21 j 12:42	0°♓	
	-11970 Apr 09 j 12:27	0°♈	
	-11970 May 21 j 05:55	0°♉	
	-11970 Jun 29 j 20:19	0°♊	
	-11970 Aug 07 j 20:55	0°♋	
desc. node	-11970 Aug 09 j 05:44	1°♋02'52	
	-11970 Sep 16 j 09:42	0°♌	
	-11970 Oct 27 j 05:32	0°♍	
evening set	-11970 Nov 01 j 04:12	3°♍33'04	
	-11970 Dec 08 j 20:16	0°♎	
conjunction	-11970 Dec 25 j 18:16	11°♎32'52	-1°12'34
minimum elong	-11970 Dec 25 j 17:09	11°♎30'58	1°12'40
max. Earth dist.	-11969 Jan 19 j 04:31	27°♎53'54	2.59487 AU
	-11969 Jan 22 j 08:46	0°♏	
morning rise	-11969 Feb 15 j 15:14	15°♏52'40	
	-11969 Mar 09 j 13:43	0°♐	
	-11969 Apr 26 j 02:26	0°♑	
	-11969 Jun 13 j 23:25	0°♒	
	-11969 Aug 04 j 17:09	0°♓	
asc. node	-11969 Aug 10 j 02:37	2°♓56'03	
	-11969 Oct 10 j 05:07	0°♈	
retrograde	-11969 Nov 07 j 23:15	4°♈33'01	
	-11969 Dec 05 j 05:13	30°℞♓	
opposition	-11969 Dec 11 j 17:59	27°♓52'22	5°37'51
greatest brilliancy	-11969 Dec 13 j 04:53	27°♓22'51	-2.2m
min. Earth dist.	-11969 Dec 19 j 17:25	25°♓11'22	0.47706 AU
direct	-11968 Jan 17 j 22:42	19°♓43'07	
	-11968 Feb 28 j 20:43	0°♈	
	-11968 Apr 21 j 16:21	0°♉	
	-11968 Jun 03 j 21:34	0°♊	
desc. node	-11968 Jun 26 j 10:11	16°♊22'08	
	-11968 Jul 15 j 00:18	0°♋	
	-11968 Aug 25 j 01:58	0°♌	
	-11968 Oct 06 j 02:37	0°♍	
	-11968 Nov 18 j 14:54	0°♎	
evening set	-11968 Dec 18 j 08:56	19°♎54'29	
	-11967 Jan 02 j 16:41	0°♏	
conjunction	-11967 Feb 06 j 07:56	22°♏29'51	-1°07'50
minimum elong	-11967 Feb 06 j 09:12	22°♏31'54	1°08'22
max. Earth dist.	-11967 Feb 14 j 04:36	27°♏33'27	2.65378 AU
	-11967 Feb 17 j 23:50	0°♐	
morning rise	-11967 Mar 26 j 09:44	23°♐18'18	
	-11967 Apr 05 j 21:20	0°♑	
	-11967 May 22 j 19:13	0°♒	
asc. node	-11967 Jun 26 j 19:02	22°♒28'10	
	-11967 Jul 08 j 12:15	0°♓	
	-11967 Aug 24 j 10:12	0°♈	
	-11967 Oct 12 j 02:13	0°♉	
	-11967 Dec 08 j 23:47	0°♊	
retrograde	-11966 Jan 18 j 23:09	9°♊13'52	
opposition	-11966 Feb 18 j 18:59	4°♊05'13	5°55'25
greatest brilliancy	-11966 Feb 19 j 06:50	3°♊57'13	-2.8m
min. Earth dist.	-11966 Feb 20 j 05:23	3°♊42'03	0.38613 AU
	-11966 Mar 08 j 05:49	30°℞♉	
direct	-11966 Mar 21 j 18:06	28°♉49'15	
	-11966 Apr 04 j 05:52	0°♊	
desc. node	-11966 May 14 j 15:49	14°♊22'43	
	-11966 Jun 12 j 04:03	0°♋	
	-11966 Jul 29 j 23:02	0°♌	
	-11966 Sep 13 j 13:31	0°♍	
	-11966 Oct 29 j 05:37	0°♎	
	-11966 Dec 14 j 14:26	0°♏	
evening set	-11965 Jan 28 j 16:52	28°♏49'46	
	-11965 Jan 30 j 12:55	0°♐	
max. Earth dist.	-11965 Mar 10 j 15:37	24°♐59'26	2.65994 AU
conjunction	-11965 Mar 17 j 20:03	29°♐36'10	-0°33'39
minimum elong	-11965 Mar 17 j 21:18	29°♐38'10	0°34'19
	-11965 Mar 18 j 10:53	0°♑	
morning rise	-11965 May 03 j 19:02	0°♒05'10	
	-11965 May 03 j 15:54	0°♒	
asc. node	-11965 May 14 j 11:02	7°♒06'57	
	-11965 Jun 17 j 16:42	0°♓	
	-11965 Jul 31 j 10:53	0°♈	
	-11965 Sep 12 j 04:30	0°♉	
	-11965 Oct 24 j 10:58	0°♊	
	-11965 Dec 06 j 10:46	0°♋	
	-11964 Jan 22 j 15:34	0°♌	
retrograde	-11964 Mar 28 j 09:15	22°♌48'23	
desc. node	-11964 Mar 31 j 19:25	22°♌43'23	
min. Earth dist.	-11964 Apr 25 j 07:17	17°♌42'43	0.44447 AU
greatest brilliancy	-11964 May 02 j 09:41	15°♌22'12	-2.5m
opposition	-11964 May 03 j 02:14	15°♌08'31	-2°10'01
direct	-11964 Jun 04 j 07:31	8°♌50'27	
	-11964 Aug 11 j 05:27	0°♍	
	-11964 Oct 04 j 06:37	0°♎	
	-11964 Nov 23 j 00:23	0°♏	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-11963 Jan 10 j 12:28	0°♐		
	-11963 Feb 27 j 00:49	0°♑		
evening set	-11963 Mar 08 j 03:44	5°♑51'04		
asc. node	-11963 Mar 31 j 06:16	20°♑50'46		
max. Earth dist.	-11963 Apr 04 j 16:41	23°♑45'14	2.61323 AU	
	-11963 Apr 14 j 03:51	0°♒		
conjunction	-11963 Apr 25 j 18:50	7°♒44'25	0°15'44	
minimum elong	-11963 Apr 25 j 18:11	7°♒43'18	0°15'10	
behind sun begin	-11963 Apr 25 j 11:44	7°♒32'33		
behind sun end	-11963 Apr 26 j 00:37	7°♒54'04		
	-11963 May 28 j 12:35	0°♓		
morning rise	-11963 Jun 13 j 08:25	11°♓01'12		
	-11963 Jul 10 j 01:18	0°♈		
	-11963 Aug 20 j 00:40	0°♉		
	-11963 Sep 28 j 23:28	0°♊		
	-11963 Nov 07 j 15:58	0°♋		
	-11963 Dec 18 j 04:06	0°♌		
	-11962 Jan 30 j 06:45	0°♍		
desc. node	-11962 Feb 16 j 16:54	11°♍08'49		
	-11962 Mar 22 j 05:37	0°♎		
retrograde	-11962 May 15 j 12:00	15°♎42'35		
min. Earth dist.	-11962 Jun 17 j 04:14	8°♎35'04	0.56465 AU	
greatest brilliancy	-11962 Jun 22 j 10:21	6°♎33'24	-1.8m	
opposition	-11962 Jun 23 j 14:07	6°♎06'29	-5°17'47	
	-11962 Jul 12 j 05:46	30°℞♍		
direct	-11962 Jul 29 j 15:40	27°♍57'37		
	-11962 Aug 17 j 04:36	0°♎		
	-11962 Oct 28 j 17:37	0°♏		
	-11962 Dec 20 j 17:38	0°♐		
	-11961 Feb 07 j 21:44	0°♑		
asc. node	-11961 Feb 16 j 06:40	5°♑16'19		
	-11961 Mar 26 j 12:58	0°♒		
evening set	-11961 Apr 19 j 06:34	15°♒53'38		
max. Earth dist.	-11961 May 06 j 17:53	27°♒53'18	2.51886 AU	
	-11961 May 09 j 18:49	0°♓		
conjunction	-11961 Jun 10 j 01:59	22°♓12'32	1°02'03	
minimum elong	-11961 Jun 10 j 00:02	22°♓09'00	1°01'54	
	-11961 Jun 20 j 19:07	0°♈		
	-11961 Jul 31 j 00:06	0°♉		
morning rise	-11961 Aug 03 j 08:44	2°♉33'13		
	-11961 Sep 08 j 01:25	0°♊		
	-11961 Oct 16 j 18:18	0°♋		
	-11961 Nov 25 j 00:33	0°♌		
desc. node	-11960 Jan 04 j 10:59	29°♌43'09		
	-11960 Jan 04 j 20:25	0°♍		
	-11960 Feb 17 j 14:07	0°♎		
	-11960 Apr 07 j 06:40	0°♏		
retrograde	-11960 Jun 21 j 16:10	25°♏21'56		
min. Earth dist.	-11960 Jul 28 j 20:56	16°♏33'31	0.64439 AU	
opposition	-11960 Jul 31 j 14:43	15°♏27'20	-4°54'20	
greatest brilliancy	-11960 Jul 31 j 04:23	15°♏37'43	-1.4m	
direct	-11960 Sep 08 j 08:56	6°♏12'25		
	-11960 Nov 23 j 07:12	0°♐		
asc. node	-11959 Jan 03 j 10:51	22°♐13'55		
	-11959 Jan 16 j 17:39	0°♑		
	-11959 Mar 05 j 23:51	0°♒		
	-11959 Apr 19 j 16:28	0°♓		
	-11959 May 31 j 15:20	0°♈		
evening set	-11959 Jun 07 j 10:37	5°♈01'19		
max. Earth dist.	-11959 Jul 04 j 15:46	25°♈29'26	2.40259 AU	
	-11959 Jul 10 j 13:25	0°♉		
conjunction	-11959 Aug 04 j 19:48	19°♉31'33	1°06'42	
minimum elong	-11959 Aug 04 j 22:07	19°♉36'04	1°07'11	
	-11959 Aug 18 j 05:57	0°♊		
	-11959 Sep 25 j 14:01	0°♋		
morning rise	-11959 Oct 07 j 04:39	9°♋01'57		
	-11959 Nov 03 j 11:08	0°♌		
desc. node	-11959 Nov 21 j 05:02	13°♌23'04		
	-11959 Dec 13 j 17:35	0°♍		
	-11958 Jan 25 j 04:10	0°♎		
	-11958 Mar 11 j 16:36	0°♏		
	-11958 May 01 j 09:14	0°♐		
	-11958 Jul 21 j 23:50	0°♑		
retrograde	-11958 Jul 26 j 22:59	0°♑09'13		
	-11958 Jul 31 j 19:50	30°℞♐		
opposition	-11958 Sep 04 j 10:42	20°♐37'01	-2°58'34	
greatest brilliancy	-11958 Sep 04 j 13:53	20°♐33'48	-1.4m	
min. Earth dist.	-11958 Sep 05 j 11:35	20°♐12'01	0.66379 AU	
direct	-11958 Oct 14 j 19:56	10°♐46'19		
asc. node	-11958 Nov 21 j 17:15	18°♐12'52		
	-11958 Dec 19 j 17:08	0°♑		
	-11957 Feb 11 j 23:14	0°♒		
	-11957 Mar 30 j 08:17	0°♓		
	-11957 May 11 j 19:40	0°♈		
	-11957 Jun 20 j 20:33	0°♉		
	-11957 Jul 29 j 12:52	0°♊		
evening set	-11957 Aug 08 j 14:44	7°♊53'43		
	-11957 Sep 05 j 20:30	0°♋		
desc. node	-11957 Oct 08 j 23:20	25°♋36'13		
conjunction	-11957 Oct 10 j 04:06	26°♋31'08	-0°00'55	
minimum elong	-11957 Oct 10 j 04:01	26°♋30'59	0°00'17	
behind sun begin	-11957 Oct 09 j 01:40	25°♋40'40		
behind sun end	-11957 Oct 11 j 06:23	27°♋21'14		
	-11957 Oct 14 j 17:45	0°♌		
	-11957 Nov 23 j 23:36	0°♍		
max. Earth dist.	-11957 Nov 23 j 14:03	29°♌42'34	2.44006 AU	
morning rise	-11957 Dec 11 j 04:13	12°♍24'39		
	-11956 Jan 05 j 04:17	0°♎		
	-11956 Feb 18 j 17:10	0°♏		
	-11956 Apr 05 j 23:03	0°♐		
	-11956 May 27 j 06:04	0°♑		
	-11956 Aug 01 j 09:41	0°♒		
retrograde	-11956 Sep 01 j 07:24	5°♒08'09		
	-11956 Sep 29 j 14:20	30°℞♑		
asc. node	-11956 Oct 08 j 21:09	26°♑33'14		
opposition	-11956 Oct 09 j 07:01	26°♑23'36	0°01'04	
greatest brilliancy	-11956 Oct 09 j 07:08	26°♑23'30	-1.6m	
min. Earth dist.	-11956 Oct 13 j 23:31	24°♑33'45	0.62178 AU	
direct	-11956 Nov 19 j 00:33	16°♑27'31		
	-11955 Jan 09 j 23:13	0°♒		
	-11955 Mar 05 j 09:33	0°♓		
	-11955 Apr 19 j 00:56	0°♈		
	-11955 May 29 j 22:37	0°♉		
	-11955 Jul 08 j 02:27	0°♊		
	-11955 Aug 15 j 19:06	0°♋		
desc. node	-11955 Aug 25 j 21:53	7°♋48'04		
	-11955 Sep 24 j 00:53	0°♌		
evening set	-11955 Oct 10 j 08:58	12°♌13'34		
	-11955 Nov 03 j 14:33	0°♍		
conjunction	-11955 Dec 06 j 12:26	23°♍24'15	-1°02'39	
minimum elong	-11955 Dec 06 j 10:12	23°♍20'22	1°02'32	
	-11955 Dec 16 j 00:19	0°♎		
max. Earth dist.	-11954 Jan 06 j 19:42	14°♎53'48	2.55825 AU	
morning rise	-11954 Jan 29 j 17:47	0°♏12'12		
	-11954 Jan 29 j 10:25	0°♏		
	-11954 Mar 16 j 17:44	0°♐		
	-11954 May 03 j 19:03	0°♑		
	-11954 Jun 23 j 05:29	0°♒		
	-11954 Aug 19 j 15:31	0°♓		

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

asc. node	-11954 Aug 26 j 20:13	3°♓07'15	
retrograde	-11954 Oct 16 j 21:07	15°♓37'22	
opposition	-11954 Nov 21 j 02:19	8°♓12'58	3°59'56
greatest brilliancy	-11954 Nov 22 j 02:00	7°♓51'37	-2.0m
min. Earth dist.	-11954 Nov 28 j 16:55	5°♓28'37	0.52471 AU
	-11954 Dec 19 j 05:10	30°℞♒	
direct	-11954 Dec 30 j 00:14	29°♒11'08	
	-11953 Jan 10 j 02:36	0°♓	
	-11953 Mar 21 j 04:34	0°♈	
	-11953 May 05 j 05:11	0°♉	
	-11953 Jun 15 j 06:25	0°♊	
desc. node	-11953 Jul 14 j 01:40	21°♊36'51	
	-11953 Jul 25 j 05:15	0°♋	
	-11953 Sep 03 j 11:16	0°♌	
	-11953 Oct 14 j 21:10	0°♍	
	-11953 Nov 26 j 22:30	0°♎	
evening set	-11953 Dec 01 j 18:23	3°♎17'17	
	-11952 Jan 10 j 17:21	0°♏	
conjunction	-11952 Jan 22 j 03:43	7°♏29'55	-1°14'03
minimum elong	-11952 Jan 22 j 04:19	7°♏30'53	1°14'27
max. Earth dist.	-11952 Feb 05 j 06:25	16°♏40'52	2.63698 AU
	-11952 Feb 25 j 21:57	0°♐	
morning rise	-11952 Mar 11 j 08:31	9°♐14'58	
	-11952 Apr 12 j 23:00	0°♑	
	-11952 May 30 j 09:52	0°♒	
asc. node	-11952 Jul 13 j 14:29	27°♒40'10	
	-11952 Jul 17 j 08:48	0°♓	
	-11952 Sep 05 j 03:33	0°♈	
	-11952 Nov 02 j 08:29	0°♉	
retrograde	-11952 Dec 19 j 04:55	11°♉10'50	
opposition	-11951 Jan 19 j 12:21	5°♉42'35	7°04'17
greatest brilliancy	-11951 Jan 20 j 22:42	5°♉17'44	-2.6m
min. Earth dist.	-11951 Jan 25 j 06:43	4°♉02'44	0.40965 AU
	-11951 Feb 13 j 00:24	30°℞♈	
direct	-11951 Feb 21 j 20:38	29°♈28'44	
	-11951 Mar 02 j 15:54	0°♉	
	-11951 May 12 j 07:14	0°♊	
desc. node	-11951 May 31 j 07:30	11°♊58'23	
	-11951 Jun 27 j 09:11	0°♋	
	-11951 Aug 09 j 23:37	0°♌	
	-11951 Sep 22 j 14:34	0°♍	
	-11951 Nov 06 j 03:45	0°♎	
	-11951 Dec 21 j 21:04	0°♏	
evening set	-11950 Jan 13 j 02:45	14°♏21'45	
	-11950 Feb 06 j 11:37	0°♐	
max. Earth dist.	-11950 Mar 01 j 04:36	14°♐31'53	2.66405 AU
conjunction	-11950 Mar 02 j 15:56	15°♐28'23	-0°49'27
minimum elong	-11950 Mar 02 j 17:28	15°♐30'51	0°50'06
	-11950 Mar 25 j 08:02	0°♑	
morning rise	-11950 Apr 18 j 18:08	15°♑43'37	
	-11950 May 10 j 17:52	0°♒	
asc. node	-11950 May 31 j 06:22	13°♒26'35	
	-11950 Jun 25 j 06:31	0°♓	
	-11950 Aug 08 j 21:30	0°♈	
	-11950 Sep 21 j 23:38	0°♉	
	-11950 Nov 05 j 10:35	0°♊	
	-11950 Dec 23 j 00:03	0°♋	
retrograde	-11949 Mar 05 j 12:23	26°♋15'32	
min. Earth dist.	-11949 Apr 02 j 02:26	21°♋34'56	0.40445 AU
opposition	-11949 Apr 07 j 19:49	19°♋53'11	0°48'03
greatest brilliancy	-11949 Apr 07 j 16:30	19°♋55'39	-2.8m
desc. node	-11949 Apr 18 j 11:13	16°♋57'29	
direct	-11949 May 08 j 17:04	14°♋22'48	
	-11949 Jul 03 j 08:13	0°♌	
	-11949 Aug 27 j 02:02	0°♍	
	-11949 Oct 15 j 01:52	0°♎	
	-11949 Dec 02 j 01:10	0°♏	
	-11948 Jan 18 j 18:30	0°♐	
evening set	-11948 Feb 21 j 19:11	21°♐34'16	
	-11948 Mar 05 j 23:24	0°♑	
max. Earth dist.	-11948 Mar 25 j 06:53	12°♑27'20	2.63781 AU
conjunction	-11948 Apr 09 j 22:27	22°♑39'33	-0°04'21
minimum elong	-11948 Apr 09 j 22:40	22°♑39'54	0°05'00
behind sun begin	-11948 Apr 09 j 03:33	22°♑08'37	
behind sun end	-11948 Apr 10 j 17:47	23°♑11'13	
asc. node	-11948 Apr 16 j 23:34	27°♑17'21	
	-11948 Apr 21 j 02:09	0°♒	
morning rise	-11948 May 27 j 11:07	24°♒23'51	
	-11948 Jun 04 j 15:50	0°♓	
	-11948 Jul 17 j 13:58	0°♈	
	-11948 Aug 28 j 02:00	0°♉	
	-11948 Oct 07 j 16:05	0°♊	
	-11948 Nov 17 j 02:55	0°♋	
	-11948 Dec 28 j 18:45	0°♌	
	-11947 Feb 12 j 16:52	0°♍	
desc. node	-11947 Mar 05 j 12:33	11°♍30'45	
retrograde	-11947 Apr 28 j 13:24	27°♍32'02	
min. Earth dist.	-11947 May 29 j 03:54	21°♍13'28	0.51944 AU
greatest brilliancy	-11947 Jun 04 j 11:05	18°♍53'39	-2.0m
opposition	-11947 Jun 05 j 17:24	18°♍25'26	-4°42'08
direct	-11947 Jul 10 j 10:27	10°♍54'10	
	-11947 Sep 13 j 05:37	0°♎	
	-11947 Nov 08 j 06:33	0°♏	
	-11947 Dec 28 j 20:40	0°♐	
	-11946 Feb 15 j 04:58	0°♑	
asc. node	-11946 Mar 04 j 21:12	11°♑16'47	
evening set	-11946 Apr 02 j 07:33	29°♑49'29	
	-11946 Apr 02 j 13:54	0°♒	
max. Earth dist.	-11946 Apr 23 j 01:47	13°♒42'46	2.56081 AU
	-11946 May 16 j 19:56	0°♓	
conjunction	-11946 May 22 j 11:35	3°♓56'18	0°46'14
minimum elong	-11946 May 22 j 09:45	3°♓53'06	0°45'53
	-11946 Jun 28 j 00:15	0°♈	
morning rise	-11946 Jul 12 j 20:51	10°♈53'26	
	-11946 Aug 07 j 11:13	0°♉	
	-11946 Sep 15 j 19:22	0°♊	
	-11946 Oct 24 j 19:13	0°♋	
	-11946 Dec 03 j 09:05	0°♌	
	-11945 Jan 13 j 17:08	0°♍	
desc. node	-11945 Jan 21 j 08:21	5°♍19'19	
	-11945 Feb 27 j 17:08	0°♎	
	-11945 Apr 24 j 04:30	0°♏	
retrograde	-11945 Jun 08 j 12:19	11°♏02'41	
min. Earth dist.	-11945 Jul 14 j 01:40	2°♏49'39	0.61978 AU
opposition	-11945 Jul 18 j 07:03	1°♏08'25	-5°17'55
greatest brilliancy	-11945 Jul 17 j 13:23	1°♏26'05	-1.5m
	-11945 Jul 21 j 04:04	30°℞♎	
direct	-11945 Aug 25 j 02:41	22°♎15'14	
	-11945 Oct 02 j 21:36	0°♏	
	-11945 Dec 05 j 12:33	0°♐	
asc. node	-11944 Jan 21 j 00:07	26°♐55'24	
	-11944 Jan 26 j 01:37	0°♑	
	-11944 Mar 13 j 12:13	0°♒	
	-11944 Apr 26 j 23:03	0°♓	
evening set	-11944 May 17 j 14:39	14°♓34'06	
max. Earth dist.	-11944 Jun 04 j 05:06	27°♓17'44	2.44607 AU
	-11944 Jun 07 j 21:41	0°♈	
conjunction	-11944 Jul 12 j 02:04	25°♈34'00	1°13'25
minimum elong	-11944 Jul 12 j 02:04	25°♈33'59	1°13'41

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-11944 Jul 17 j 21:38	0°♉	
	-11944 Aug 25 j 16:44	0°♊	
morning rise	-11944 Sep 10 j 03:48	12°♊04'25	
	-11944 Oct 03 j 03:14	0°♋	
	-11944 Nov 11 j 02:29	0°♌	
desc. node	-11944 Dec 08 j 00:36	20°♌09'11	
	-11944 Dec 21 j 11:53	0°♍	
	-11943 Feb 02 j 05:25	0°♎	
	-11943 Mar 20 j 15:15	0°♏	
	-11943 May 14 j 01:32	0°♐	
retrograde	-11943 Jul 13 j 07:07	17°♐02'12	
opposition	-11943 Aug 22 j 01:47	7°♐18'03	-3°51'32
greatest brilliancy	-11943 Aug 22 j 01:00	7°♐18'50	-1.4m
min. Earth dist.	-11943 Aug 21 j 15:13	7°♐28'42	0.66348 AU
	-11943 Sep 12 j 01:10	30°℞♏	
direct	-11943 Sep 30 j 22:39	27°♏38'20	
	-11943 Oct 21 j 07:29	0°♐	
asc. node	-11943 Dec 08 j 06:24	17°♐50'07	
	-11943 Dec 31 j 21:59	0°♑	
	-11942 Feb 20 j 18:11	0°♒	
	-11942 Apr 07 j 06:16	0°♓	
	-11942 May 19 j 11:06	0°♈	
	-11942 Jun 28 j 09:51	0°♉	
evening set	-11942 Jul 14 j 04:44	12°♉10'25	
	-11942 Aug 06 j 01:19	0°♊	
	-11942 Sep 13 j 08:03	0°♋	
conjunction	-11942 Sep 14 j 07:32	0°♋45'50	0°30'51
minimum elong	-11942 Sep 14 j 10:12	0°♋51'02	0°31'31
max. Earth dist.	-11942 Oct 17 j 14:43	26°♋31'35	2.39632 AU
	-11942 Oct 22 j 03:57	0°♌	
desc. node	-11942 Oct 25 j 18:17	2°♌44'06	
morning rise	-11942 Nov 17 j 13:27	19°♌50'59	
	-11942 Dec 01 j 08:34	0°♍	
	-11941 Jan 12 j 13:29	0°♎	
	-11941 Feb 26 j 07:28	0°♏	
	-11941 Apr 15 j 08:37	0°♐	
	-11941 Jun 08 j 18:38	0°♑	
retrograde	-11941 Aug 18 j 06:01	21°♑24'07	
opposition	-11941 Sep 25 j 22:41	12°♑17'56	-1°15'53
greatest brilliancy	-11941 Sep 26 j 02:46	12°♑13'54	-1.5m
min. Earth dist.	-11941 Sep 29 j 05:33	10°♑59'47	0.64527 AU
asc. node	-11941 Oct 26 j 12:00	3°♑01'00	
direct	-11941 Nov 05 j 17:05	2°♑19'28	
	-11940 Jan 25 j 18:21	0°♒	
	-11940 Mar 15 j 05:19	0°♓	
	-11940 Apr 27 j 16:27	0°♈	
	-11940 Jun 07 j 03:03	0°♉	
	-11940 Jul 16 j 00:44	0°♊	
	-11940 Aug 23 j 12:28	0°♋	
desc. node	-11940 Sep 11 j 15:34	14°♋47'36	
evening set	-11940 Sep 16 j 14:15	18°♋35'27	
	-11940 Oct 01 j 13:24	0°♌	
	-11940 Nov 10 j 22:30	0°♍	
conjunction	-11940 Nov 15 j 10:36	3°♍16'04	-0°44'36
minimum elong	-11940 Nov 15 j 07:57	3°♍11'17	0°44'14
	-11940 Dec 23 j 04:35	0°♎	
max. Earth dist.	-11940 Dec 23 j 13:29	0°♎15'25	2.51494 AU
morning rise	-11939 Jan 11 j 12:54	13°♎15'26	
	-11939 Feb 05 j 13:41	0°♏	
	-11939 Mar 24 j 02:05	0°♐	
	-11939 May 11 j 22:55	0°♑	
	-11939 Jul 04 j 01:02	0°♒	
asc. node	-11939 Sep 12 j 13:37	27°♒35'38	
retrograde	-11939 Sep 27 j 15:12	28°♒55'01	
opposition	-11939 Nov 03 j 02:17	20°♒54'16	2°21'11
greatest brilliancy	-11939 Nov 03 j 14:29	20°♒42'49	-1.8m
min. Earth dist.	-11939 Nov 09 j 18:01	18°♒24'08	0.56816 AU
direct	-11939 Dec 13 j 01:38	11°♒20'12	
	-11938 Feb 12 j 02:54	0°♓	
	-11938 Apr 02 j 22:05	0°♈	
	-11938 May 15 j 10:51	0°♉	
	-11938 Jun 24 j 10:40	0°♊	
desc. node	-11938 Jul 30 j 16:35	27°♊41'03	
	-11938 Aug 02 j 17:26	0°♋	
	-11938 Sep 11 j 10:52	0°♌	
	-11938 Oct 22 j 10:32	0°♍	
evening set	-11938 Nov 12 j 18:43	15°♍09'01	
	-11938 Dec 04 j 03:52	0°♎	
conjunction	-11937 Jan 05 j 01:54	21°♎36'07	-1°14'55
minimum elong	-11937 Jan 05 j 01:28	21°♎35'25	1°15'08
	-11937 Jan 17 j 17:39	0°♏	
max. Earth dist.	-11937 Jan 25 j 15:49	5°♏13'02	2.61215 AU
morning rise	-11937 Feb 24 j 20:26	24°♏50'08	
	-11937 Mar 04 j 21:23	0°♐	
	-11937 Apr 21 j 04:39	0°♑	
	-11937 Jun 08 j 10:35	0°♒	
	-11937 Jul 28 j 09:32	0°♓	
asc. node	-11937 Jul 31 j 09:25	1°♓44'06	
	-11937 Sep 22 j 12:17	0°♈	
retrograde	-11937 Nov 21 j 23:06	16°♈56'19	
opposition	-11937 Dec 24 j 21:45	10°♈42'13	6°24'34
greatest brilliancy	-11937 Dec 26 j 12:35	10°♈10'59	-2.4m
min. Earth dist.	-11936 Jan 01 j 16:19	8°♈13'15	0.45107 AU
direct	-11936 Jan 29 j 20:57	3°♈10'57	
	-11936 Apr 11 j 20:54	0°♉	
	-11936 May 27 j 15:27	0°♊	
desc. node	-11936 Jun 16 j 22:42	14°♊18'31	
	-11936 Jul 08 j 19:52	0°♋	
	-11936 Aug 19 j 12:29	0°♌	
	-11936 Sep 30 j 23:18	0°♍	
	-11936 Nov 13 j 18:16	0°♎	
evening set	-11936 Dec 28 j 00:29	29°♎21'00	
	-11936 Dec 29 j 00:21	0°♏	
	-11935 Feb 13 j 09:18	0°♐	
conjunction	-11935 Feb 15 j 08:32	1°♐15'47	-1°02'09
minimum elong	-11935 Feb 15 j 10:01	1°♐18'09	1°02'44
max. Earth dist.	-11935 Feb 19 j 20:14	4°♐08'26	2.65982 AU
	-11935 Apr 01 j 05:54	0°♑	
morning rise	-11935 Apr 03 j 22:52	1°♑44'01	
	-11935 May 17 j 22:42	0°♒	
asc. node	-11935 Jun 17 j 01:29	19°♒30'48	
	-11935 Jul 03 j 03:48	0°♓	
	-11935 Aug 18 j 01:36	0°♈	
	-11935 Oct 03 j 11:50	0°♉	
	-11935 Nov 22 j 01:29	0°♊	
retrograde	-11934 Feb 05 j 08:45	26°♊30'18	
min. Earth dist.	-11934 Mar 07 j 03:21	21°♊32'44	0.38489 AU
opposition	-11934 Mar 08 j 12:58	21°♊10'04	4°20'15
greatest brilliancy	-11934 Mar 08 j 12:36	21°♊10'19	-2.9m
direct	-11934 Apr 07 j 21:58	16°♊03'30	
desc. node	-11934 May 05 j 05:05	20°♊31'53	
	-11934 May 29 j 02:59	0°♋	
	-11934 Jul 21 j 22:02	0°♌	
	-11934 Sep 07 j 08:32	0°♍	
	-11934 Oct 23 j 21:11	0°♎	
	-11934 Dec 09 j 16:48	0°♏	
	-11933 Jan 25 j 20:44	0°♐	
evening set	-11933 Feb 06 j 13:04	7°♐25'41	
	-11933 Mar 13 j 20:50	0°♑	
max. Earth dist.	-11933 Mar 16 j 07:39	1°♑34'34	2.65436 AU

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

conjunction	-11933 Mar 26 j 13:56	8°♉11'21	-0°23'23
minimum elong	-11933 Mar 26 j 14:52	8°♉12'51	0°24'04
	-11933 Apr 29 j 00:59	0°♒	
asc. node	-11933 May 04 j 17:23	3°♒44'54	
morning rise	-11933 May 12 j 14:29	8°♒58'14	
	-11933 Jun 12 j 21:34	0°♓	
	-11933 Jul 26 j 07:54	0°♈	
	-11933 Sep 06 j 13:07	0°♉	
	-11933 Oct 18 j 01:41	0°♊	
	-11933 Nov 28 j 19:49	0°♋	
	-11932 Jan 11 j 22:30	0°♌	
	-11932 Mar 08 j 03:21	0°♍	
desc. node	-11932 Mar 22 j 06:33	4°♍20'46	
retrograde	-11932 Apr 09 j 11:18	6°♍34'22	
min. Earth dist.	-11932 May 08 j 03:29	1°♍05'08	0.47087 AU
	-11932 May 11 j 07:34	30°℞♌	
greatest brilliancy	-11932 May 15 j 04:15	28°♌39'11	-2.3m
opposition	-11932 May 16 j 05:10	28°♌17'30	-3°22'04
direct	-11932 Jun 18 j 09:11	21°♌31'36	
	-11932 Jul 28 j 01:56	0°♍	
	-11932 Sep 27 j 04:14	0°♎	
	-11932 Nov 17 j 11:04	0°♏	
	-11931 Jan 05 j 13:35	0°♐	
	-11931 Feb 22 j 08:15	0°♑	
evening set	-11931 Mar 17 j 04:10	14°♑40'34	
asc. node	-11931 Mar 21 j 13:26	17°♑31'37	
	-11931 Apr 09 j 13:30	0°♒	
max. Earth dist.	-11931 Apr 11 j 03:53	1°♒03'35	2.59669 AU
conjunction	-11931 May 05 j 05:21	17°♒11'58	0°27'16
minimum elong	-11931 May 05 j 04:11	17°♒10'00	0°26'46
	-11931 May 23 j 21:35	0°♓	
morning rise	-11931 Jun 23 j 13:47	21°♓33'59	
	-11931 Jul 05 j 07:38	0°♈	
	-11931 Aug 15 j 02:25	0°♉	
	-11931 Sep 23 j 19:23	0°♊	
	-11931 Nov 02 j 04:39	0°♋	
	-11931 Dec 12 j 06:05	0°♌	
	-11930 Jan 23 j 11:13	0°♍	
desc. node	-11930 Feb 07 j 03:37	9°♍48'30	
	-11930 Mar 12 j 01:51	0°♎	
retrograde	-11930 May 24 j 14:01	25°♎37'38	
min. Earth dist.	-11930 Jun 27 j 07:58	18°♎05'02	0.58654 AU
opposition	-11930 Jul 02 j 23:48	15°♎51'43	-5°24'30
greatest brilliancy	-11930 Jul 01 j 23:07	16°♎16'00	-1.7m
direct	-11930 Aug 08 j 17:01	7°♎25'20	
	-11930 Oct 20 j 16:01	0°♏	
	-11930 Dec 15 j 00:26	0°♐	
	-11929 Feb 02 j 21:29	0°♑	
asc. node	-11929 Feb 06 j 14:31	2°♑18'41	
	-11929 Mar 21 j 19:11	0°♒	
evening set	-11929 Apr 29 j 13:13	26°♒08'05	
	-11929 May 05 j 02:59	0°♓	
max. Earth dist.	-11929 May 16 j 04:14	7°♓44'36	2.49357 AU
	-11929 Jun 16 j 03:10	0°♈	
conjunction	-11929 Jun 21 j 12:00	3°♈56'30	1°08'37
minimum elong	-11929 Jun 21 j 10:25	3°♈53'35	1°08'38
	-11929 Jul 26 j 06:39	0°♉	
morning rise	-11929 Aug 16 j 16:53	16°♉25'19	
	-11929 Sep 03 j 05:47	0°♊	
	-11929 Oct 11 j 20:08	0°♋	
	-11929 Nov 19 j 22:59	0°♌	
desc. node	-11929 Dec 25 j 21:55	26°♌38'50	
	-11929 Dec 30 j 13:23	0°♍	
	-11928 Feb 11 j 18:42	0°♎	
	-11928 Mar 30 j 18:33	0°♏	
	-11928 Jun 04 j 11:55	0°♐	
retrograde	-11928 Jun 29 j 15:39	3°♐40'41	
	-11928 Jul 22 j 21:28	30°℞♏	
min. Earth dist.	-11928 Aug 06 j 15:15	24°♏35'06	0.65374 AU
opposition	-11928 Aug 08 j 13:34	23°♏48'23	-4°34'35
greatest brilliancy	-11928 Aug 08 j 06:59	23°♏55'01	-1.4m
direct	-11928 Sep 16 j 18:10	14°♏23'33	
	-11928 Nov 14 j 08:08	0°♐	
asc. node	-11928 Dec 24 j 20:19	20°♐22'43	
	-11927 Jan 10 j 21:01	0°♑	
	-11927 Feb 28 j 21:36	0°♒	
	-11927 Apr 14 j 20:36	0°♓	
	-11927 May 26 j 21:43	0°♈	
evening set	-11927 Jun 20 j 05:33	18°♈07'32	
	-11927 Jul 05 j 20:03	0°♉	
max. Earth dist.	-11927 Aug 03 j 22:49	22°♉32'05	2.38620 AU
	-11927 Aug 13 j 12:05	0°♊	
conjunction	-11927 Aug 19 j 05:11	4°♊28'21	0°56'55
minimum elong	-11927 Aug 19 j 08:24	4°♊34'40	0°57'29
	-11927 Sep 20 j 19:25	0°♋	
morning rise	-11927 Oct 22 j 14:38	24°♋37'25	
	-11927 Oct 29 j 15:31	0°♌	
desc. node	-11927 Nov 11 j 13:50	9°♌47'15	
	-11927 Dec 08 j 20:23	0°♍	
	-11926 Jan 20 j 03:30	0°♎	
	-11926 Mar 06 j 06:24	0°♏	
	-11926 Apr 24 j 15:26	0°♐	
	-11926 Jun 25 j 08:24	0°♑	
retrograde	-11926 Aug 03 j 23:03	8°♑06'55	
	-11926 Sep 08 j 23:16	30°℞♐	
opposition	-11926 Sep 12 j 04:48	28°♐42'51	-2°23'31
greatest brilliancy	-11926 Sep 12 j 09:06	28°♐38'33	-1.4m
min. Earth dist.	-11926 Sep 14 j 00:43	27°♐58'52	0.65992 AU
direct	-11926 Oct 22 j 18:34	18°♐47'58	
asc. node	-11926 Nov 12 j 02:51	21°♐10'44	
	-11926 Dec 09 j 10:15	0°♑	
	-11925 Feb 05 j 19:16	0°♒	
	-11925 Mar 25 j 01:07	0°♓	
	-11925 May 06 j 20:09	0°♈	
	-11925 Jun 16 j 00:07	0°♉	
	-11925 Jul 24 j 17:52	0°♊	
evening set	-11925 Aug 23 j 05:53	23°♊05'25	
	-11925 Sep 01 j 02:18	0°♋	
desc. node	-11925 Sep 29 j 09:19	21°♋53'54	
	-11925 Oct 09 j 23:52	0°♌	
conjunction	-11925 Oct 24 j 06:26	10°♌46'50	-0°18'31
minimum elong	-11925 Oct 24 j 04:57	10°♌44'04	0°17'58
	-11925 Nov 19 j 05:46	0°♍	
max. Earth dist.	-11925 Dec 06 j 17:00	12°♍36'41	2.46717 AU
morning rise	-11925 Dec 23 j 14:04	24°♍32'54	
	-11925 Dec 31 j 09:49	0°♎	
	-11924 Feb 13 j 19:52	0°♏	
	-11924 Mar 31 j 17:04	0°♐	
	-11924 May 20 j 20:18	0°♑	
	-11924 Jul 18 j 06:59	0°♒	
retrograde	-11924 Sep 10 j 11:25	13°♒46'17	
asc. node	-11924 Sep 29 j 05:22	11°♒28'26	
opposition	-11924 Oct 17 j 23:12	5°♒15'45	0°49'44
greatest brilliancy	-11924 Oct 18 j 02:41	5°♒12'23	-1.6m
min. Earth dist.	-11924 Oct 23 j 09:00	3°♒10'18	0.60509 AU
	-11924 Nov 01 j 03:46	30°℞♑	
direct	-11924 Nov 27 j 12:27	25°♑24'30	
	-11924 Dec 25 j 17:13	0°♒	
	-11923 Feb 26 j 08:24	0°♓	
	-11923 Apr 13 j 05:36	0°♈	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

	-11923 May 24 j 14:24	0°♉	
	-11923 Jul 03 j 00:04	0°♊	
	-11923 Aug 10 j 20:40	0°♋	
desc. node	-11923 Aug 16 j 10:28	4°♋17'22	
	-11923 Sep 19 j 05:15	0°♌	
evening set	-11923 Oct 23 j 00:02	25°♌00'46	
	-11923 Oct 29 j 21:02	0°♍	
	-11923 Dec 11 j 08:06	0°♎	
conjunction	-11923 Dec 17 j 17:03	4°♎23'12	-1°09'15
minimum elong	-11923 Dec 17 j 15:25	4°♎20'23	1°09'16
max. Earth dist.	-11922 Jan 14 j 04:14	22°♎58'13	2.57927 AU
	-11922 Jan 24 j 18:09	0°♏	
morning rise	-11922 Feb 08 j 13:49	9°♏44'27	
	-11922 Mar 11 j 22:53	0°♐	
	-11922 Apr 28 j 15:53	0°♑	
	-11922 Jun 17 j 02:13	0°♒	
	-11922 Aug 09 j 14:40	0°♓	
asc. node	-11922 Aug 17 j 03:11	3°♓48'44	
retrograde	-11922 Oct 28 j 23:34	26°♓27'39	
opposition	-11922 Dec 02 j 10:41	19°♓26'27	4°56'24
greatest brilliancy	-11922 Dec 03 j 16:59	18°♓59'58	-2.1m
min. Earth dist.	-11922 Dec 10 j 09:01	16°♓41'01	0.49868 AU
direct	-11921 Jan 09 j 11:50	10°♓51'06	
	-11921 Mar 10 j 18:36	0°♈	
	-11921 Apr 27 j 24:00	0°♉	
	-11921 Jun 09 j 02:08	0°♊	
desc. node	-11921 Jul 04 j 14:34	18°♊51'07	
	-11921 Jul 19 j 14:44	0°♋	
	-11921 Aug 29 j 06:01	0°♌	
	-11921 Oct 09 j 22:35	0°♍	
	-11921 Nov 22 j 04:32	0°♎	
evening set	-11921 Dec 11 j 23:41	13°♎21'29	
	-11920 Jan 06 j 02:00	0°♏	
conjunction	-11920 Jan 31 j 13:01	16°♏36'38	-1°11'01
minimum elong	-11920 Jan 31 j 14:04	16°♏38'19	1°11'29
max. Earth dist.	-11920 Feb 11 j 04:32	23°♏29'32	2.64724 AU
	-11920 Feb 21 j 07:06	0°♐	
morning rise	-11920 Mar 20 j 01:35	17°♐46'41	
	-11920 Apr 08 j 05:45	0°♑	
	-11920 May 25 j 08:49	0°♒	
asc. node	-11920 Jul 03 j 20:17	25°♒06'09	
	-11920 Jul 11 j 13:40	0°♓	
	-11920 Aug 28 j 12:41	0°♈	
	-11920 Oct 18 j 20:46	0°♉	
retrograde	-11919 Jan 05 j 07:23	26°♉56'27	
opposition	-11919 Feb 05 j 04:40	21°♉44'19	6°41'39
greatest brilliancy	-11919 Feb 06 j 04:00	21°♉28'11	-2.8m
min. Earth dist.	-11919 Feb 08 j 19:02	20°♉44'46	0.39362 AU
direct	-11919 Mar 09 j 01:55	16°♉07'32	
	-11919 Apr 27 j 23:53	0°♊	
desc. node	-11919 May 21 j 19:56	12°♊46'31	
	-11919 Jun 18 j 22:21	0°♋	
	-11919 Aug 03 j 09:51	0°♌	
	-11919 Sep 16 j 23:21	0°♍	
	-11919 Nov 01 j 01:33	0°♎	
	-11919 Dec 17 j 02:18	0°♏	
evening set	-11918 Jan 22 j 03:05	23°♏08'23	
	-11918 Feb 01 j 20:34	0°♐	
max. Earth dist.	-11918 Mar 06 j 18:30	21°♐02'28	2.66276 AU
conjunction	-11918 Mar 11 j 09:55	24°♐00'52	-0°40'36
minimum elong	-11918 Mar 11 j 11:19	24°♐03'07	0°41'16
	-11918 Mar 20 j 17:49	0°♑	
morning rise	-11918 Apr 27 j 09:04	24°♑20'16	
	-11918 May 06 j 01:09	0°♒	
asc. node	-11918 May 21 j 12:02	10°♒09'22	
	-11918 Jun 20 j 07:30	0°♓	
	-11918 Aug 03 j 10:48	0°♈	
	-11918 Sep 15 j 17:34	0°♉	
	-11918 Oct 28 j 19:22	0°♊	
	-11918 Dec 12 j 04:53	0°♋	
	-11917 Feb 02 j 03:38	0°♌	
retrograde	-11917 Mar 19 j 11:32	12°♌05'18	
desc. node	-11917 Apr 08 j 23:59	9°♌15'42	
min. Earth dist.	-11917 Apr 16 j 00:04	7°♌15'09	0.42475 AU
opposition	-11917 Apr 23 j 04:13	4°♌59'43	-1°00'40
greatest brilliancy	-11917 Apr 22 j 20:43	5°♌05'38	-2.6m
	-11917 May 12 j 21:14	30°℞♋	
direct	-11917 May 24 j 16:48	29°♋04'18	
	-11917 Jun 05 j 21:20	0°♌	
	-11917 Aug 18 j 14:51	0°♍	
	-11917 Oct 08 j 23:21	0°♎	
	-11917 Nov 26 j 20:08	0°♏	
	-11916 Jan 13 j 23:18	0°♐	
evening set	-11916 Mar 01 j 14:31	0°♑09'27	
	-11916 Mar 01 j 08:37	0°♑	
max. Earth dist.	-11916 Mar 31 j 06:13	19°♑19'31	2.62515 AU
asc. node	-11916 Apr 07 j 06:11	23°♑54'31	
	-11916 Apr 16 j 12:06	0°♒	
conjunction	-11916 Apr 18 j 23:15	1°♒37'52	0°07'15
minimum elong	-11916 Apr 18 j 22:58	1°♒37'24	0°06'38
behind sun begin	-11916 Apr 18 j 04:26	1°♒06'44	
behind sun end	-11916 Apr 19 j 17:30	2°♒08'05	
	-11916 May 30 j 23:45	0°♓	
morning rise	-11916 Jun 05 j 23:45	4°♓08'29	
	-11916 Jul 12 j 17:16	0°♈	
	-11916 Aug 22 j 22:33	0°♉	
	-11916 Oct 02 j 03:51	0°♊	
	-11916 Nov 11 j 03:32	0°♋	
	-11916 Dec 22 j 00:54	0°♌	
	-11915 Feb 03 j 23:47	0°♍	
desc. node	-11915 Feb 23 j 22:49	12°♍13'21	
	-11915 Mar 31 j 07:38	0°♎	
retrograde	-11915 May 08 j 11:36	8°♎35'07	
min. Earth dist.	-11915 Jun 09 j 05:56	1°♎48'39	0.54514 AU
	-11915 Jun 14 j 00:27	30°℞♍	
greatest brilliancy	-11915 Jun 14 j 23:07	29°♍38'17	-1.9m
opposition	-11915 Jun 16 j 04:45	29°♍10'00	-5°07'11
direct	-11915 Jul 21 j 15:33	21°♍17'04	
	-11915 Aug 31 j 13:34	0°♎	
	-11915 Nov 01 j 16:52	0°♏	
	-11915 Dec 23 j 13:31	0°♐	
	-11914 Feb 10 j 09:18	0°♑	
asc. node	-11914 Feb 23 j 05:52	8°♑08'34	
	-11914 Mar 28 j 22:41	0°♒	
evening set	-11914 Apr 11 j 21:06	9°♒16'26	
max. Earth dist.	-11914 Apr 30 j 16:45	22°♒02'02	2.53837 AU
	-11914 May 12 j 05:42	0°♓	
conjunction	-11914 Jun 01 j 21:12	14°♓31'14	0°55'48
minimum elong	-11914 Jun 01 j 19:12	14°♓27'41	0°55'35
	-11914 Jun 23 j 08:47	0°♈	
morning rise	-11914 Jul 24 j 18:19	23°♈15'13	
	-11914 Aug 02 j 17:01	0°♉	
	-11914 Sep 10 j 21:25	0°♊	
	-11914 Oct 19 j 17:02	0°♋	
	-11914 Nov 28 j 01:34	0°♌	
	-11913 Jan 08 j 00:39	0°♍	
desc. node	-11913 Jan 11 j 17:01	2°♍36'30	
	-11913 Feb 21 j 03:03	0°♎	
	-11913 Apr 13 j 08:53	0°♏	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

retrograde	-11913 Jun 16 j 18:23	19°♏48'45	
min. Earth dist.	-11913 Jul 23 j 05:44	11°♏15'30	0.63461 AU
opposition	-11913 Jul 26 j 15:37	9°♏53'16	-5°06'04
greatest brilliancy	-11913 Jul 26 j 02:04	10°♏06'53	-1.5m
direct	-11913 Sep 02 j 23:53	0°♏47'34	
	-11913 Nov 28 j 13:22	0°♐	
asc. node	-11912 Jan 11 j 09:33	24°♐29'07	
	-11912 Jan 20 j 15:59	0°♑	
	-11912 Mar 08 j 14:35	0°♒	
	-11912 Apr 22 j 05:58	0°♓	
evening set	-11912 May 29 j 04:25	26°♓17'42	
	-11912 Jun 03 j 05:59	0°♈	
max. Earth dist.	-11912 Jun 19 j 01:41	11°♈43'09	2.42102 AU
	-11912 Jul 13 j 05:46	0°♉	
conjunction	-11912 Jul 25 j 05:34	9°♉12'46	1°11'11
minimum elong	-11912 Jul 25 j 06:52	9°♉15'18	1°11'36
	-11912 Aug 20 j 23:43	0°♊	
morning rise	-11912 Sep 25 j 07:26	27°♊37'12	
	-11912 Sep 28 j 08:41	0°♋	
	-11912 Nov 06 j 05:55	0°♌	
desc. node	-11912 Nov 28 j 11:09	16°♌43'17	
	-11912 Dec 16 j 12:09	0°♍	
	-11911 Jan 27 j 23:43	0°♎	
	-11911 Mar 14 j 17:36	0°♏	
	-11911 May 05 j 12:01	0°♐	
retrograde	-11911 Jul 21 j 04:37	25°♐02'44	
opposition	-11911 Aug 29 j 19:23	15°♐24'34	-3°21'49
greatest brilliancy	-11911 Aug 29 j 21:02	15°♐22'55	-1.4m
min. Earth dist.	-11911 Aug 30 j 04:07	15°♐15'47	0.66489 AU
direct	-11911 Oct 08 j 23:15	5°♐38'18	
asc. node	-11911 Nov 28 j 15:47	17°♐56'55	
	-11911 Dec 24 j 11:42	0°♑	
	-11910 Feb 15 j 03:46	0°♒	
	-11910 Apr 02 j 04:47	0°♓	
	-11910 May 14 j 14:32	0°♈	
	-11910 Jun 23 j 15:19	0°♉	
evening set	-11910 Jul 28 j 10:13	26°♉57'27	
	-11910 Aug 01 j 07:32	0°♊	
	-11910 Sep 08 j 14:39	0°♋	
conjunction	-11910 Sep 29 j 00:45	15°♋52'18	0°13'03
minimum elong	-11910 Sep 29 j 02:00	15°♋54'42	0°13'43
behind sun begin	-11910 Sep 28 j 11:24	15°♋26'31	
behind sun end	-11910 Sep 29 j 16:36	16°♋22'53	
desc. node	-11910 Oct 16 j 04:59	29°♋03'35	
	-11910 Oct 17 j 10:35	0°♌	
max. Earth dist.	-11910 Nov 10 j 16:12	18°♌15'03	2.41886 AU
	-11910 Nov 26 j 14:37	0°♍	
morning rise	-11910 Dec 01 j 06:00	3°♍22'49	
	-11909 Jan 07 j 17:54	0°♎	
	-11909 Feb 21 j 06:55	0°♏	
	-11909 Apr 09 j 18:14	0°♐	
	-11909 Jun 01 j 00:26	0°♑	
retrograde	-11909 Aug 26 j 19:20	29°♑39'05	
opposition	-11909 Oct 04 j 02:37	20°♑44'13	-0°32'27
greatest brilliancy	-11909 Oct 04 j 04:52	20°♑42'00	-1.5m
min. Earth dist.	-11909 Oct 08 j 03:44	19°♑08'36	0.63347 AU
asc. node	-11909 Oct 16 j 20:24	15°♑53'55	
direct	-11909 Nov 13 j 20:57	10°♑46'07	
	-11908 Jan 17 j 05:31	0°♒	
	-11908 Mar 09 j 04:07	0°♓	
	-11908 Apr 22 j 07:24	0°♈	
	-11908 Jun 02 j 00:43	0°♉	
	-11908 Jul 11 j 01:50	0°♊	
	-11908 Aug 18 j 15:57	0°♋	
desc. node	-11908 Sep 02 j 02:43	11°♋09'56	
	-11908 Sep 26 j 18:44	0°♌	
evening set	-11908 Sep 30 j 07:00	2°♌39'08	
	-11908 Nov 06 j 05:09	0°♍	
conjunction	-11908 Nov 27 j 16:18	15°♍24'25	-0°55'55
minimum elong	-11908 Nov 27 j 13:44	15°♍19'53	0°55'41
	-11908 Dec 18 j 12:00	0°♎	
max. Earth dist.	-11907 Jan 01 j 01:53	9°♎20'17	2.53958 AU
morning rise	-11907 Jan 22 j 03:22	23°♎33'15	
	-11907 Jan 31 j 20:09	0°♏	
	-11907 Mar 19 j 04:15	0°♐	
	-11907 May 06 j 11:58	0°♑	
	-11907 Jun 26 j 19:38	0°♒	
	-11907 Aug 27 j 23:05	0°♓	
asc. node	-11907 Sep 02 j 20:13	2°♓04'03	
retrograde	-11907 Oct 08 j 07:00	8°♓39'06	
opposition	-11907 Nov 13 j 02:24	0°♓57'18	3°16'56
greatest brilliancy	-11907 Nov 13 j 20:48	0°♓40'20	-1.9m
	-11907 Nov 15 j 16:24	30°℞♒	
min. Earth dist.	-11907 Nov 20 j 07:39	28°♒17'55	0.54504 AU
direct	-11907 Dec 22 j 13:07	21°♒38'49	
	-11906 Jan 29 j 17:28	0°♓	
	-11906 Mar 26 j 13:09	0°♈	
	-11906 May 09 j 07:55	0°♉	
	-11906 Jun 18 j 20:39	0°♊	
desc. node	-11906 Jul 21 j 05:48	24°♊31'17	
	-11906 Jul 28 j 11:21	0°♋	
	-11906 Sep 06 j 10:31	0°♌	
	-11906 Oct 17 j 14:22	0°♍	
evening set	-11906 Nov 23 j 19:18	26°♍07'10	
	-11906 Nov 29 j 10:48	0°♎	
	-11905 Jan 13 j 02:06	0°♏	
conjunction	-11905 Jan 15 j 00:01	1°♏15'41	-1°15'06
minimum elong	-11905 Jan 15 j 00:14	1°♏16'02	1°15'26
max. Earth dist.	-11905 Jan 31 j 21:54	12°♏20'24	2.62688 AU
	-11905 Feb 28 j 05:27	0°♐	
morning rise	-11905 Mar 05 j 20:23	3°♐36'23	
	-11905 Apr 16 j 08:32	0°♑	
	-11905 Jun 03 j 02:34	0°♒	
asc. node	-11905 Jul 21 j 15:29	29°♒54'22	
	-11905 Jul 21 j 19:12	0°♓	
	-11905 Sep 11 j 13:26	0°♈	
	-11905 Nov 27 j 18:38	0°♉	
retrograde	-11905 Dec 07 j 10:49	0°♉33'48	
	-11905 Dec 16 j 22:00	30°℞♈	
opposition	-11904 Jan 08 j 10:11	24°♈46'26	6°56'13
greatest brilliancy	-11904 Jan 10 j 01:01	24°♈16'59	-2.5m
min. Earth dist.	-11904 Jan 15 j 09:08	22°♈40'20	0.42674 AU
direct	-11904 Feb 12 j 00:17	17°♈57'47	
	-11904 Mar 28 j 11:39	0°♉	
	-11904 May 19 j 04:19	0°♊	
desc. node	-11904 Jun 07 j 11:39	12°♊56'42	
	-11904 Jul 02 j 02:21	0°♋	
	-11904 Aug 13 j 16:50	0°♌	
	-11904 Sep 25 j 16:54	0°♍	
	-11904 Nov 08 j 20:25	0°♎	
	-11904 Dec 24 j 07:28	0°♏	
evening set	-11903 Jan 06 j 08:10	8°♏27'39	
	-11903 Feb 08 j 18:52	0°♐	
conjunction	-11903 Feb 24 j 04:36	9°♐52'09	-0°55'12
minimum elong	-11903 Feb 24 j 06:10	9°♐54'38	0°55'49
max. Earth dist.	-11903 Feb 25 j 10:36	10°♐40'09	2.66318 AU
	-11903 Mar 27 j 15:12	0°♑	
morning rise	-11903 Apr 12 j 10:53	10°♑09'30	
	-11903 May 13 j 04:07	0°♒	

Attention, astronomical year style is used: The year -12399 in astronomical counting style is the year 12400 BCE in historical counting style.

asc. node	-11903 Jun 07 j 07:47	16°♒24'08	
	-11903 Jun 28 j 00:01	0°♓	
	-11903 Aug 12 j 03:25	0°♈	
	-11903 Sep 26 j 02:24	0°♉	
	-11903 Nov 11 j 04:02	0°♊	
	-11902 Jan 02 j 14:59	0°♋	
retrograde	-11902 Feb 21 j 19:18	13°♋56'09	
min. Earth dist.	-11902 Mar 22 j 00:07	9°♋14'34	0.39236 AU
opposition	-11902 Mar 26 j 00:43	8°♋06'23	2°21'04
greatest brilliancy	-11902 Mar 25 j 19:08	8°♋10'21	-2.8m
direct	-11902 Apr 25 j 13:05	2°♋51'45	
desc. node	-11902 Apr 25 j 15:44	2°♋51'46	
	-11902 Jul 11 j 23:48	0°♌	
	-11902 Aug 31 j 13:43	0°♍	
	-11902 Oct 18 j 07:28	0°♎	
	-11902 Dec 04 j 16:58	0°♏	
	-11901 Jan 21 j 03:52	0°♐	
evening set	-11901 Feb 15 j 07:27	15°♐57'34	
	-11901 Mar 09 j 06:48	0°♑	
max. Earth dist.	-11901 Mar 22 j 01:19	8°♑13'21	2.64630 AU
conjunction	-11901 Apr 04 j 08:26	16°♑50'23	-0°12'34
minimum elong	-11901 Apr 04 j 08:57	16°♑51'15	0°13'13
behind sun begin	-11901 Apr 03 j 21:49	16°♑33'09	
behind sun end	-11901 Apr 04 j 20:06	17°♑09'21	
	-11901 Apr 24 j 10:41	0°♒	
asc. node	-11901 Apr 25 j 00:30	0°♒22'47	
morning rise	-11901 May 21 j 13:53	18°♒04'20	
	-11901 Jun 08 j 04:14	0°♓	
	-11901 Jul 21 j 08:16	0°♈	
	-11901 Sep 01 j 04:05	0°♉	
	-11901 Oct 12 j 03:14	0°♊	
	-11901 Nov 22 j 01:35	0°♋	
	-11900 Jan 03 j 11:50	0°♌	
	-11900 Feb 20 j 18:33	0°♍	
desc. node	-11900 Mar 12 j 17:43	10°♍09'32	
retrograde	-11900 Apr 20 j 16:47	19°♍16'59	
min. Earth dist.	-11900 May 20 j 09:23	13°♍20'32	0.49780 AU
greatest brilliancy	-11900 May 27 j 01:19	10°♍56'23	-2.2m
opposition	-11900 May 28 j 06:39	10°♍29'45	-4°14'36
direct	-11900 Jul 01 j 07:37	3°♍17'47	
	-11900 Sep 19 j 00:01	0°♎	
	-11900 Nov 11 j 14:40	0°♏	
	-11900 Dec 31 j 12:21	0°♐	
	-11899 Feb 17 j 15:02	0°♑	
asc. node	-11899 Mar 11 j 21:10	14°♑15'21	
evening set	-11899 Mar 26 j 08:10	23°♑39'57	
	-11899 Apr 04 j 23:06	0°♒	
max. Earth dist.	-11899 Apr 17 j 22:10	8°♒37'35	2.57781 AU
conjunction	-11899 May 14 j 22:30	26°♒59'12	0°38'23
minimum elong	-11899 May 14 j 20:55	26°♒56'28	0°37'58
	-11899 May 19 j 07:07	0°♓	
	-11899 Jun 30 j 14:51	0°♈	
morning rise	-11899 Jul 04 j 07:17	2°♈40'28	
	-11899 Aug 10 j 06:02	0°♉	
	-11899 Sep 18 j 18:15	0°♊	
	-11899 Oct 27 j 21:55	0°♋	
	-11899 Dec 06 j 15:42	0°♌	