

Attention, astronomical year style is used: The year -12400 in astronomical counting style is the year 12401 BCE in historical counting style.

	-12400 Jan 02 j 07:37	0°♌		min. Earth dist.	-12396 Dec 18 j 17:03	1°♏36'55	4.33001 AU
evening set	-12400 Jan 08 j 13:46	1°♌25'45			-12396 Dec 31 j 16:40	30°♏	
				direct	-12395 Feb 18 j 09:11	26°♏43'52	
conjunction	-12400 Jan 22 j 06:43	4°♌35'15	-1°42'07		-12395 Apr 07 j 08:33	0°♏	
minimum elong	-12400 Jan 22 j 06:39	4°♌35'13	1°42'31	evening set	-12395 Jun 24 j 17:09	14°♏45'57	
max. Earth dist.	-12400 Jan 23 j 02:11	4°♌46'30	6.10459 AU	max. Earth dist.	-12395 Jul 06 j 06:01	17°♏21'29	6.31979 AU
morning rise	-12400 Feb 05 j 00:14	7°♌44'54					
	-12400 Mar 08 j 18:46	15°♌		conjunction	-12395 Jul 07 j 03:51	17°♏33'47	1°31'22
retrograde	-12400 Jun 11 j 13:26	26°♌58'09		minimum elong	-12395 Jul 07 j 03:46	17°♏33'44	1°31'35
opposition	-12400 Aug 09 j 11:50	21°♌55'48	-2°36'17	morning rise	-12395 Sep 19 j 12:53	20°♏20'55	
min. Earth dist.	-12400 Aug 09 j 03:25	21°♌58'41	4.13386 AU		-12395 Sep 03 j 15:56	0°♏	
direct	-12400 Oct 07 j 16:47	16°♌52'57		retrograde	-12395 Nov 19 j 19:43	8°♏04'00	
	-12399 Jan 16 j 21:53	0°♏		opposition	-12394 Jan 20 j 06:10	3°♏11'01	2°30'43
evening set	-12399 Feb 13 j 07:12	6°♏02'20		min. Earth dist.	-12394 Jan 20 j 19:20	3°♏06'52	4.30255 AU
					-12394 Feb 16 j 16:22	30°♏	
conjunction	-12399 Feb 26 j 22:43	9°♏08'32	-1°38'46	direct	-12394 Mar 23 j 04:16	28°♏15'17	
minimum elong	-12399 Feb 26 j 22:46	9°♏08'34	1°39'27		-12394 Apr 26 j 10:15	0°♏	
max. Earth dist.	-12399 Feb 27 j 04:22	9°♏11'45	6.16638 AU		-12394 Jul 20 j 06:01	15°♏	
morning rise	-12399 Mar 12 j 12:29	12°♏13'45		evening set	-12394 Jul 25 j 19:46	16°♏15'17	
	-12399 Jun 24 j 03:33	0°♏					
retrograde	-12399 Jul 14 j 23:03	0°♏42'57		conjunction	-12394 Aug 07 j 03:39	19°♏03'30	1°46'32
	-12399 Aug 04 j 14:43	30°♏		minimum elong	-12394 Aug 07 j 03:38	19°♏03'30	1°47'06
opposition	-12399 Sep 11 j 20:29	25°♏44'18	-2°04'40	max. Earth dist.	-12394 Aug 06 j 14:04	18°♏55'45	6.27462 AU
min. Earth dist.	-12399 Sep 11 j 22:22	25°♏43'40	4.20349 AU	morning rise	-12394 Aug 19 j 12:01	21°♏52'01	
direct	-12399 Nov 11 j 06:06	20°♏40'04			-12394 Sep 26 j 04:50	0°♏	
	-12398 Feb 03 j 07:41	0°♏		retrograde	-12394 Dec 23 j 14:30	10°♏09'58	
evening set	-12398 Mar 20 j 14:31	9°♏32'57		opposition	-12393 Feb 23 j 06:55	5°♏14'13	2°30'21
				min. Earth dist.	-12393 Feb 23 j 11:47	5°♏12'40	4.24306 AU
conjunction	-12398 Apr 03 j 01:37	12°♏34'32	-1°02'16	direct	-12393 Apr 25 j 05:49	0°♏20'39	
minimum elong	-12398 Apr 03 j 01:43	12°♏34'35	1°03'02	evening set	-12393 Aug 26 j 11:00	18°♏27'16	
max. Earth dist.	-12398 Apr 02 j 14:23	12°♏28'12	6.23887 AU				
morning rise	-12398 Apr 16 j 09:51	15°♏34'32		conjunction	-12393 Sep 07 j 23:36	21°♏20'15	1°29'25
	-12398 Jun 30 j 11:10	0°♏		minimum elong	-12393 Sep 07 j 23:41	21°♏20'18	1°30'09
retrograde	-12398 Aug 16 j 07:06	3°♏23'17		max. Earth dist.	-12393 Sep 08 j 00:31	21°♏20'47	6.20580 AU
	-12398 Oct 02 j 20:16	30°♏		morning rise	-12393 Sep 20 j 14:23	24°♏14'31	
opposition	-12398 Oct 14 j 15:16	28°♏28'15	-0°53'57		-12393 Oct 16 j 10:09	0°♏	
min. Earth dist.	-12398 Oct 15 j 02:28	28°♏24'33	4.27182 AU	retrograde	-12392 Jan 27 j 12:00	13°♏13'13	
direct	-12398 Dec 15 j 04:24	23°♏24'26		opposition	-12392 Mar 29 j 00:38	8°♏13'54	1°42'06
	-12397 Feb 23 j 01:57	0°♏		min. Earth dist.	-12392 Mar 28 j 18:33	8°♏15'52	4.16942 AU
evening set	-12397 Apr 23 j 05:08	11°♏55'48		direct	-12392 May 27 j 18:21	3°♏21'02	
max. Earth dist.	-12397 May 05 j 11:43	14°♏40'11	6.29890 AU	evening set	-12392 Sep 27 j 09:01	21°♏42'08	
conjunction	-12397 May 06 j 09:01	14°♏52'06	-0°06'59	conjunction	-12392 Oct 10 j 07:40	24°♏42'41	0°42'57
minimum elong	-12397 May 06 j 09:01	14°♏52'06	0°07'31	minimum elong	-12392 Oct 10 j 07:45	24°♏42'44	0°43'39
behind sun begin	-12397 May 06 j 01:39	14°♏48'00		max. Earth dist.	-12392 Oct 10 j 22:24	24°♏51'16	6.13463 AU
behind sun end	-12397 May 06 j 16:23	14°♏56'12		morning rise	-12392 Oct 23 j 09:54	27°♏45'12	
	-12397 May 06 j 23:08	15°♏			-12392 Nov 02 j 05:01	0°♏	
morning rise	-12397 May 19 j 09:18	17°♏46'34			-12391 Jan 23 j 01:46	15°♏	
asc. node	-12397 Jun 22 j 17:24	25°♏06'09		retrograde	-12391 Mar 03 j 07:40	17°♏19'00	
	-12397 Jul 19 j 16:41	0°♏			-12391 Apr 11 j 09:55	15°♏	
retrograde	-12397 Sep 17 j 03:55	5°♏11'31		opposition	-12391 May 03 j 04:54	12°♏16'13	0°17'46
opposition	-12397 Nov 16 j 04:36	0°♏19'02	0°31'24	min. Earth dist.	-12391 May 02 j 14:24	12°♏21'02	4.10566 AU
min. Earth dist.	-12397 Nov 16 j 21:39	0°♏13'32	4.31855 AU	direct	-12391 Jun 30 j 22:34	7°♏22'02	
	-12397 Nov 18 j 15:37	30°♏		desc. node	-12391 Jul 16 j 09:32	7°♏46'19	
direct	-12396 Jan 17 j 11:36	25°♏17'17			-12391 Sep 10 j 19:21	15°♏	
	-12396 Mar 15 j 23:09	0°♏		evening set	-12391 Nov 01 j 02:39	26°♏03'55	
evening set	-12396 May 24 j 09:48	13°♏30'15					
max. Earth dist.	-12396 Jun 05 j 01:41	16°♏06'28	6.32863 AU	conjunction	-12391 Nov 14 j 12:04	29°♏11'25	-0°19'18
				minimum elong	-12391 Nov 14 j 12:02	29°♏11'24	0°18'54
conjunction	-12396 Jun 06 j 04:16	16°♏21'21	0°49'37	max. Earth dist.	-12391 Nov 15 j 14:11	29°♏26'40	6.08478 AU
minimum elong	-12396 Jun 06 j 04:11	16°♏21'19	0°49'25		-12391 Nov 17 j 23:13	0°♏	
morning rise	-12396 Jun 18 j 19:59	19°♏11'03		morning rise	-12391 Nov 28 j 00:53	2°♏20'46	
	-12396 Aug 10 j 19:48	0°♏		retrograde	-12390 Apr 08 j 09:13	22°♏11'36	
retrograde	-12396 Oct 18 j 03:53	6°♏34'30		opposition	-12390 Jun 07 j 09:29	17°♏06'54	-1°14'40
opposition	-12396 Dec 17 j 22:54	1°♏42'42	1°46'29	min. Earth dist.	-12390 Jun 06 j 15:37	17°♏12'57	4.07468 AU

Attention, astronomical year style is used: The year -12390 in astronomical counting style is the year 12391 BCE in historical counting style.

direct	-12390 Aug 04 j 14:32	12° \mathbb{M} 09'56		direct	-12384 Jan 12 j 18:33	30° \mathbb{R}	
	-12390 Dec 02 j 07:18	0° \mathbb{L}			-12384 Jan 22 j 03:53	29° \mathbb{A} 51'54	
evening set	-12390 Dec 07 j 13:24	1° \mathbb{L} 12'43		evening set	-12384 Jan 31 j 14:39	0° \mathbb{H}	
					-12384 May 28 j 21:02	18° \mathbb{H} 02'18	
conjunction	-12390 Dec 21 j 05:02	4° \mathbb{L} 23'13	-1°15'18	conjunction	-12384 Jun 10 j 14:17	20° \mathbb{H} 52'44	0°56'44
minimum elong	-12390 Dec 21 j 04:56	4° \mathbb{L} 23'09	1°15'21	minimum elong	-12384 Jun 10 j 14:12	20° \mathbb{H} 52'41	0°56'37
max. Earth dist.	-12390 Dec 22 j 07:23	4° \mathbb{L} 38'34	6.07467 AU	max. Earth dist.	-12384 Jun 09 j 13:03	20° \mathbb{H} 38'36	6.33120 AU
morning rise	-12389 Jan 03 j 23:01	7° \mathbb{L} 34'50		morning rise	-12384 Jun 23 j 04:41	23° \mathbb{H} 41'47	
retrograde	-12389 May 13 j 21:00	27° \mathbb{L} 16'53			-12384 Jul 22 j 11:31	0° \mathbb{Y}	
opposition	-12389 Jul 12 j 04:08	22° \mathbb{L} 12'27	-2°20'17	retrograde	-12384 Oct 22 j 16:50	11° \mathbb{Y} 06'16	
min. Earth dist.	-12389 Jul 11 j 12:45	22° \mathbb{L} 17'43	4.08775 AU	opposition	-12384 Dec 22 j 14:40	6° \mathbb{Y} 14'24	1°54'58
direct	-12389 Sep 08 j 14:51	17° \mathbb{L} 12'03		min. Earth dist.	-12384 Dec 23 j 08:27	6° \mathbb{Y} 08'46	4.32984 AU
	-12389 Dec 15 j 21:31	0° \mathbb{M}		direct	-12383 Feb 23 j 00:35	1° \mathbb{Y} 16'02	
evening set	-12388 Jan 13 j 18:10	6° \mathbb{M} 25'59		evening set	-12383 Jun 29 j 02:26	19° \mathbb{Y} 16'50	
conjunction	-12388 Jan 27 j 11:20	9° \mathbb{M} 35'21	-1°43'52	conjunction	-12383 Jul 11 j 12:11	22° \mathbb{Y} 04'24	1°35'19
minimum elong	-12388 Jan 27 j 11:17	9° \mathbb{M} 35'19	1°44'20	minimum elong	-12383 Jul 11 j 12:06	22° \mathbb{Y} 04'22	1°35'34
max. Earth dist.	-12388 Jan 28 j 06:24	9° \mathbb{M} 46'20	6.10855 AU	max. Earth dist.	-12383 Jul 10 j 13:40	21° \mathbb{Y} 51'42	6.31651 AU
morning rise	-12388 Feb 10 j 04:25	12° \mathbb{M} 44'37		morning rise	-12383 Jul 23 j 20:51	24° \mathbb{Y} 51'26	
	-12388 Feb 20 j 02:49	15° \mathbb{M}			-12383 Aug 16 j 08:46	0° \mathbb{B}	
retrograde	-12388 Jun 16 j 09:31	1° \mathbb{X} 53'24		retrograde	-12383 Nov 24 j 12:14	12° \mathbb{B} 38'20	
	-12388 Jul 20 j 07:50	30° \mathbb{R}		opposition	-12382 Jan 24 j 23:49	7° \mathbb{B} 45'01	2°33'33
opposition	-12388 Aug 14 j 05:42	26° \mathbb{M} 51'32	-2°34'52	min. Earth dist.	-12382 Jan 25 j 12:24	7° \mathbb{B} 41'02	4.29642 AU
min. Earth dist.	-12388 Aug 13 j 22:49	26° \mathbb{M} 53'53	4.13981 AU	direct	-12382 Mar 27 j 19:35	2° \mathbb{B} 49'35	
direct	-12388 Oct 12 j 14:10	21° \mathbb{M} 48'24			-12382 Jul 03 j 16:40	15° \mathbb{B}	
	-12388 Dec 28 j 09:25	0° \mathbb{X}		evening set	-12382 Jul 30 j 05:16	20° \mathbb{B} 49'57	
evening set	-12387 Feb 18 j 09:12	10° \mathbb{X} 57'08					
				conjunction	-12382 Aug 11 j 13:32	23° \mathbb{B} 38'36	1°46'06
conjunction	-12387 Mar 04 j 00:16	14° \mathbb{X} 02'52	-1°35'19	minimum elong	-12382 Aug 11 j 13:33	23° \mathbb{B} 38'36	1°46'43
minimum elong	-12387 Mar 04 j 00:20	14° \mathbb{X} 02'55	1°36'01	max. Earth dist.	-12382 Aug 11 j 02:28	23° \mathbb{B} 32'17	6.26606 AU
max. Earth dist.	-12387 Mar 04 j 03:13	14° \mathbb{X} 04'33	6.17383 AU	morning rise	-12382 Aug 23 j 22:16	26° \mathbb{B} 27'40	
morning rise	-12387 Mar 17 j 13:34	17° \mathbb{X} 07'34			-12382 Sep 08 j 18:07	0° \mathbb{I}	
	-12387 May 19 j 20:28	0° \mathbb{B}		retrograde	-12382 Dec 28 j 10:13	14° \mathbb{I} 51'13	
retrograde	-12387 Jul 19 j 13:49	5° \mathbb{B} 31'17		opposition	-12381 Feb 28 j 03:07	9° \mathbb{I} 55'04	2°26'22
opposition	-12387 Sep 16 j 12:44	0° \mathbb{B} 33'06	-1°56'27	min. Earth dist.	-12381 Feb 28 j 06:37	9° \mathbb{I} 53'57	4.23265 AU
min. Earth dist.	-12387 Sep 16 j 15:24	0° \mathbb{B} 32'12	4.21179 AU	direct	-12381 Apr 29 j 22:00	5° \mathbb{I} 01'43	
	-12387 Sep 20 j 15:20	30° \mathbb{R}		evening set	-12381 Aug 30 j 23:58	23° \mathbb{I} 10'11	
direct	-12387 Nov 16 j 02:05	25° \mathbb{X} 28'46					
	-12386 Jan 11 j 05:17	0° \mathbb{B}		conjunction	-12381 Sep 12 j 13:37	26° \mathbb{I} 04'09	1°24'27
evening set	-12386 Mar 25 j 11:35	14° \mathbb{B} 19'14		minimum elong	-12381 Sep 12 j 13:43	26° \mathbb{I} 04'12	1°25'12
				max. Earth dist.	-12381 Sep 12 j 15:21	26° \mathbb{I} 05'09	6.19436 AU
conjunction	-12386 Apr 07 j 21:55	17° \mathbb{B} 20'10	-0°55'07	morning rise	-12381 Sep 25 j 05:54	28° \mathbb{I} 59'33	
minimum elong	-12386 Apr 07 j 22:00	17° \mathbb{B} 20'13	0°55'51		-12381 Sep 29 j 15:37	0° \mathbb{E}	
max. Earth dist.	-12386 Apr 07 j 09:57	17° \mathbb{B} 13'25	6.24768 AU	retrograde	-12380 Feb 01 j 12:39	18° \mathbb{E} 04'24	
morning rise	-12386 Apr 21 j 05:06	20° \mathbb{B} 19'25		opposition	-12380 Apr 02 j 23:12	13° \mathbb{E} 04'33	1°31'55
	-12386 Jun 06 j 09:02	0° \mathbb{A}		min. Earth dist.	-12380 Apr 02 j 15:57	13° \mathbb{E} 06'55	4.15759 AU
retrograde	-12386 Aug 20 j 20:57	8° \mathbb{A} 03'38		direct	-12380 Jun 01 j 13:13	8° \mathbb{E} 11'34	
opposition	-12386 Oct 19 j 06:27	3° \mathbb{A} 09'01	-0°42'04	evening set	-12380 Oct 02 j 04:01	26° \mathbb{E} 36'03	
min. Earth dist.	-12386 Oct 19 j 18:40	3° \mathbb{A} 05'00	4.28012 AU				
	-12386 Nov 14 j 05:27	30° \mathbb{R}		conjunction	-12380 Oct 15 j 04:26	29° \mathbb{E} 37'51	0°34'41
direct	-12386 Dec 19 j 23:00	28° \mathbb{B} 05'24		minimum elong	-12380 Oct 15 j 04:30	29° \mathbb{E} 37'54	0°35'21
	-12385 Jan 24 j 23:50	0° \mathbb{A}		max. Earth dist.	-12380 Oct 15 j 21:51	29° \mathbb{E} 48'00	6.12370 AU
	-12385 Apr 20 j 19:08	15° \mathbb{A}			-12380 Oct 16 j 18:25	0° \mathbb{L}	
evening set	-12385 Apr 27 j 20:43	16° \mathbb{A} 33'35		morning rise	-12380 Oct 28 j 08:18	2° \mathbb{L} 41'37	
asc. node	-12385 May 01 j 03:45	17° \mathbb{A} 17'31			-12380 Dec 25 j 12:44	15° \mathbb{L}	
				retrograde	-12379 Mar 08 j 11:22	22° \mathbb{L} 20'02	
conjunction	-12385 May 10 j 23:17	19° \mathbb{A} 29'04	0°01'28	opposition	-12379 May 08 j 04:54	17° \mathbb{L} 16'57	0°04'21
minimum elong	-12385 May 10 j 23:18	19° \mathbb{A} 29'04	0°00'58	min. Earth dist.	-12379 May 07 j 13:49	17° \mathbb{L} 21'58	4.09662 AU
behind sun begin	-12385 May 10 j 15:13	19° \mathbb{A} 24'34		desc. node	-12379 May 26 j 08:04	14° \mathbb{L} 57'57	
behind sun end	-12385 May 11 j 07:24	19° \mathbb{A} 33'34			-12379 May 26 j 01:04	15° \mathbb{R}	
max. Earth dist.	-12385 May 10 j 00:30	19° \mathbb{A} 16'19	6.30588 AU	direct	-12379 Jul 05 j 19:03	12° \mathbb{L} 22'31	
morning rise	-12385 May 23 j 22:29	22° \mathbb{A} 22'47			-12379 Aug 15 j 01:59	15° \mathbb{L}	
	-12385 Jun 28 j 18:46	0° \mathbb{H}			-12379 Nov 01 j 06:39	0° \mathbb{M}	
retrograde	-12385 Sep 21 j 15:56	9° \mathbb{H} 45'45		evening set	-12379 Nov 06 j 04:59	1° \mathbb{M} 08'31	
opposition	-12385 Nov 20 j 19:37	4° \mathbb{H} 53'22	0°43'12				
min. Earth dist.	-12385 Nov 21 j 12:53	4° \mathbb{H} 47'48	4.32364 AU	conjunction	-12379 Nov 19 j 15:31	4° \mathbb{M} 16'50	-0°28'11

Attention, astronomical year style is used: The year -12379 in astronomical counting style is the year 12380 BCE in historical counting style.

minimum elong	-12379 Nov 19 j 15:28	4° \mathbb{M} 16'48	0°27'50			-12373 Jun 11 j 18:43	0° \mathbb{H}	
max. Earth dist.	-12379 Nov 20 j 17:09	4° \mathbb{M} 31'49	6.07835 AU	retrograde		-12373 Sep 25 j 23:53	14° \mathbb{H} 09'25	
morning rise	-12379 Dec 03 j 05:39	7° \mathbb{M} 26'59		opposition		-12373 Nov 25 j 06:15	9° \mathbb{H} 17'16	0°54'15
retrograde	-12378 Apr 13 j 11:16	27° \mathbb{M} 19'19		min. Earth dist.		-12373 Nov 26 j 00:56	9° \mathbb{H} 11'16	4.33174 AU
opposition	-12378 Jun 12 j 09:38	22° \mathbb{M} 14'31	-1°26'25	direct		-12372 Jan 26 j 17:09	4° \mathbb{H} 16'10	
min. Earth dist.	-12378 Jun 11 j 15:05	22° \mathbb{M} 20'50	4.07174 AU	evening set		-12372 Jun 02 j 03:25	22° \mathbb{H} 23'15	
direct	-12378 Aug 09 j 13:54	17° \mathbb{M} 17'09						
	-12378 Nov 14 j 11:56	0° \mathbb{L}		conjunction		-12372 Jun 14 j 19:23	25° \mathbb{H} 12'58	1°03'14
evening set	-12378 Dec 12 j 20:43	6° \mathbb{L} 23'09		minimum elong		-12372 Jun 14 j 19:18	25° \mathbb{H} 12'55	1°03'09
				max. Earth dist.		-12372 Jun 13 j 16:18	24° \mathbb{H} 57'49	6.33486 AU
conjunction	-12378 Dec 26 j 13:01	9° \mathbb{L} 33'51	-1°21'27	morning rise		-12372 Jun 27 j 08:49	28° \mathbb{H} 01'26	
minimum elong	-12378 Dec 26 j 12:55	9° \mathbb{L} 33'47	1°21'33			-12372 Jul 06 j 07:22	0° \mathbb{Y}	
max. Earth dist.	-12378 Dec 27 j 16:44	9° \mathbb{L} 49'58	6.07565 AU	retrograde		-12372 Oct 27 j 01:09	15° \mathbb{Y} 26'57	
morning rise	-12377 Jan 09 j 07:03	12° \mathbb{L} 45'25		opposition		-12372 Dec 27 j 01:42	10° \mathbb{Y} 34'58	2°02'26
	-12377 Apr 09 j 20:29	0° \mathbb{M}		min. Earth dist.		-12372 Dec 27 j 19:29	10° \mathbb{Y} 29'20	4.32903 AU
retrograde	-12377 May 18 j 22:59	2° \mathbb{M} 24'34		direct		-12371 Feb 27 j 10:30	5° \mathbb{Y} 36'56	
	-12377 Jun 26 j 15:53	30° \mathbb{R} \mathbb{L}		evening set		-12371 Jul 03 j 06:51	23° \mathbb{Y} 36'58	
opposition	-12377 Jul 17 j 02:52	27° \mathbb{L} 20'28	-2°25'47					
min. Earth dist.	-12377 Jul 16 j 12:27	27° \mathbb{L} 25'24	4.09301 AU	conjunction		-12371 Jul 15 j 16:07	26° \mathbb{Y} 24'27	1°38'32
direct	-12377 Sep 13 j 16:09	22° \mathbb{L} 19'45		minimum elong		-12371 Jul 15 j 16:03	26° \mathbb{Y} 24'25	1°38'51
	-12377 Nov 25 j 13:14	0° \mathbb{M}		max. Earth dist.		-12371 Jul 14 j 18:50	26° \mathbb{Y} 12'26	6.31118 AU
evening set	-12376 Jan 19 j 01:53	11° \mathbb{M} 33'49		morning rise		-12371 Jul 28 j 00:15	29° \mathbb{Y} 11'30	
						-12371 Jul 31 j 14:53	0° \mathbb{B}	
conjunction	-12376 Feb 01 j 18:48	14° \mathbb{M} 42'42	-1°44'55			-12371 Oct 22 j 21:43	15° \mathbb{B}	
minimum elong	-12376 Feb 01 j 18:46	14° \mathbb{M} 42'41	1°45'26	retrograde		-12371 Nov 29 j 00:44	17° \mathbb{B} 03'05	
max. Earth dist.	-12376 Feb 02 j 12:16	14° \mathbb{M} 52'45	6.11773 AU			-12370 Jan 05 j 13:15	15° \mathbb{R} \mathbb{B}	
	-12376 Feb 03 j 00:53	15° \mathbb{M}		opposition		-12370 Jan 29 j 13:25	12° \mathbb{B} 09'32	2°35'23
morning rise	-12376 Feb 15 j 11:35	17° \mathbb{M} 51'23		min. Earth dist.		-12370 Jan 30 j 02:00	12° \mathbb{B} 05'33	4.28698 AU
	-12376 Apr 13 j 11:17	0° \mathbb{J}		direct		-12370 Apr 01 j 06:39	7° \mathbb{B} 14'26	
retrograde	-12376 Jun 21 j 04:04	6° \mathbb{J} 53'18				-12370 Jun 15 j 16:02	15° \mathbb{B}	
opposition	-12376 Aug 19 j 01:07	1° \mathbb{J} 51'55	-2°32'19	evening set		-12370 Aug 03 j 11:36	25° \mathbb{B} 16'29	
min. Earth dist.	-12376 Aug 18 j 18:15	1° \mathbb{J} 54'15	4.15235 AU					
	-12376 Sep 02 j 01:56	30° \mathbb{R} \mathbb{M}		conjunction		-12370 Aug 15 j 20:06	28° \mathbb{B} 05'46	1°45'02
direct	-12376 Oct 17 j 13:12	26° \mathbb{M} 48'33		minimum elong		-12370 Aug 15 j 20:07	28° \mathbb{B} 05'47	1°45'40
	-12376 Dec 02 j 08:59	0° \mathbb{J}		max. Earth dist.		-12370 Aug 15 j 08:31	27° \mathbb{B} 59'08	6.25320 AU
evening set	-12375 Feb 23 j 11:42	15° \mathbb{J} 53'56				-12370 Aug 24 j 03:54	0° \mathbb{I}	
				morning rise		-12370 Aug 28 j 05:40	0° \mathbb{I} 55'41	
conjunction	-12375 Mar 09 j 02:11	18° \mathbb{J} 58'48	-1°31'13	retrograde		-12369 Jan 02 j 04:16	19° \mathbb{I} 26'27	
minimum elong	-12375 Mar 09 j 02:16	18° \mathbb{J} 58'51	1°31'56	opposition		-12369 Mar 04 j 20:25	14° \mathbb{I} 29'49	2°21'34
max. Earth dist.	-12375 Mar 09 j 03:40	18° \mathbb{J} 59'39	6.18898 AU	min. Earth dist.		-12369 Mar 04 j 22:35	14° \mathbb{I} 29'07	4.21727 AU
morning rise	-12375 Mar 22 j 14:38	22° \mathbb{J} 02'31		direct		-12369 May 04 j 10:33	9° \mathbb{I} 36'34	
	-12375 Apr 28 j 11:23	0° \mathbb{B}		evening set		-12369 Sep 04 j 11:22	27° \mathbb{I} 48'51	
retrograde	-12375 Jul 24 j 04:54	10° \mathbb{B} 18'06				-12369 Sep 13 j 22:23	0° \mathbb{G}	
opposition	-12375 Sep 21 j 04:32	5° \mathbb{B} 20'28	-1°47'30					
min. Earth dist.	-12375 Sep 21 j 08:57	5° \mathbb{B} 18'59	4.22791 AU	conjunction		-12369 Sep 17 j 02:35	0° \mathbb{G} 44'09	1°18'59
direct	-12375 Nov 20 j 23:06	0° \mathbb{B} 16'09		minimum elong		-12369 Sep 17 j 02:40	0° \mathbb{G} 44'13	1°19'45
evening set	-12374 Mar 30 j 06:04	19° \mathbb{B} 01'08		max. Earth dist.		-12369 Sep 17 j 07:23	0° \mathbb{G} 46'57	6.17811 AU
				morning rise		-12369 Sep 29 j 20:18	3° \mathbb{G} 40'57	
conjunction	-12374 Apr 12 j 15:27	22° \mathbb{B} 01'02	-0°47'47	retrograde		-12368 Feb 06 j 13:21	22° \mathbb{G} 53'24	
minimum elong	-12374 Apr 12 j 15:31	22° \mathbb{B} 01'04	0°48'28	opposition		-12368 Apr 07 j 20:34	17° \mathbb{G} 53'06	1°21'10
max. Earth dist.	-12374 Apr 12 j 02:00	21° \mathbb{B} 53'29	6.26355 AU	min. Earth dist.		-12368 Apr 07 j 12:24	17° \mathbb{G} 55'46	4.14175 AU
morning rise	-12374 Apr 25 j 21:30	24° \mathbb{B} 59'11		direct		-12368 Jun 06 j 06:06	13° \mathbb{G} 00'04	
	-12374 May 18 j 21:26	0° \mathbb{A}				-12368 Sep 30 j 12:28	0° \mathbb{Q}	
retrograde	-12374 Aug 25 j 05:13	12° \mathbb{A} 36'59		evening set		-12368 Oct 06 j 23:19	1° \mathbb{Q} 29'28	
opposition	-12374 Oct 23 j 18:50	7° \mathbb{A} 42'43	-0°30'17					
min. Earth dist.	-12374 Oct 24 j 07:27	7° \mathbb{A} 38'34	4.29440 AU	conjunction		-12368 Oct 20 j 01:16	4° \mathbb{Q} 32'36	0°26'10
direct	-12374 Dec 24 j 14:25	2° \mathbb{A} 39'17		minimum elong		-12368 Oct 20 j 01:19	4° \mathbb{Q} 32'38	0°26'46
asc. node	-12373 Mar 11 j 14:59	10° \mathbb{A} 26'35		max. Earth dist.		-12368 Oct 20 j 19:26	4° \mathbb{Q} 43'13	6.10981 AU
	-12373 Apr 04 j 05:10	15° \mathbb{A}		morning rise		-12368 Nov 02 j 07:03	7° \mathbb{Q} 37'47	
evening set	-12373 May 02 j 08:05	21° \mathbb{A} 02'22				-12368 Dec 05 j 06:25	15° \mathbb{Q}	
max. Earth dist.	-12373 May 14 j 09:21	23° \mathbb{A} 43'27	6.31754 AU	retrograde		-12367 Mar 13 j 13:24	27° \mathbb{Q} 21'37	
				desc. node		-12367 Apr 05 j 03:12	26° \mathbb{Q} 33'01	
conjunction	-12373 May 15 j 09:17	23° \mathbb{A} 56'49	0°09'33	min. Earth dist.		-12367 May 12 j 11:43	22° \mathbb{Q} 23'48	4.08598 AU
minimum elong	-12373 May 15 j 09:16	23° \mathbb{A} 56'48	0°09'05	opposition		-12367 May 13 j 04:47	22° \mathbb{Q} 18'06	-0°09'08
behind sun begin	-12373 May 15 j 02:24	23° \mathbb{A} 52'59		direct		-12367 Jul 10 j 15:33	17° \mathbb{Q} 23'19	
behind sun end	-12373 May 15 j 16:07	24° \mathbb{A} 00'37				-12367 Oct 14 j 19:20	0° \mathbb{M}	
morning rise	-12373 May 28 j 07:06	26° \mathbb{A} 49'31		evening set		-12367 Nov 11 j 08:05	6° \mathbb{M} 13'54	

Attention, astronomical year style is used: The year -12367 in astronomical counting style is the year 12368 BCE in historical counting style.

conjunction	-12367 Nov 24 j 19:58	9° \mathbb{M} 23'02	-0°36'54			-12361 May 26 j 16:16	0° \mathbb{H}	
minimum elong	-12367 Nov 24 j 19:54	9° \mathbb{M} 23'00	0°36'37	morning rise		-12361 Jun 01 j 17:34	1° \mathbb{H} 20'51	
max. Earth dist.	-12367 Nov 26 j 00:36	9° \mathbb{M} 39'47	6.07200 AU	retrograde		-12361 Sep 30 j 10:25	18° \mathbb{H} 40'17	
morning rise	-12367 Dec 08 j 10:56	12° \mathbb{M} 33'50		opposition		-12361 Nov 29 j 20:15	13° \mathbb{H} 48'16	1°05'19
	-12366 Mar 09 j 20:43	0° \mathbb{L}		min. Earth dist.		-12361 Nov 30 j 14:35	13° \mathbb{H} 42'23	4.33344 AU
retrograde	-12366 Apr 18 j 15:17	2° \mathbb{L} 26'52		direct		-12360 Jan 31 j 06:58	8° \mathbb{H} 47'36	
	-12366 May 28 j 00:40	30° \mathbb{R} \mathbb{M}		evening set		-12360 Jun 06 j 13:20	26° \mathbb{H} 53'29	
opposition	-12366 Jun 17 j 09:35	27° \mathbb{M} 21'58	-1°37'32	max. Earth dist.		-12360 Jun 18 j 01:25	29° \mathbb{H} 27'47	6.33315 AU
min. Earth dist.	-12366 Jun 16 j 15:22	27° \mathbb{M} 28'10	4.07036 AU					
direct	-12366 Aug 14 j 14:26	22° \mathbb{M} 24'06		conjunction		-12360 Jun 19 j 04:06	29° \mathbb{H} 42'45	1°09'36
	-12366 Oct 25 j 08:11	0° \mathbb{L}		minimum elong		-12360 Jun 19 j 04:00	29° \mathbb{H} 42'42	1°09'35
evening set	-12366 Dec 18 j 04:23	11° \mathbb{L} 32'24				-12360 Jun 20 j 10:52	0° \mathbb{Y}	
				morning rise		-12360 Jul 01 j 16:29	2° \mathbb{Y} 30'50	
conjunction	-12366 Dec 31 j 20:56	14° \mathbb{L} 43'01	-1°26'58	retrograde		-12360 Oct 31 j 15:58	19° \mathbb{Y} 59'18	
minimum elong	-12366 Dec 31 j 20:49	14° \mathbb{L} 42'57	1°27'08	opposition		-12360 Dec 31 j 17:56	15° \mathbb{Y} 07'19	2°09'35
max. Earth dist.	-12365 Jan 01 j 23:49	14° \mathbb{L} 58'39	6.07886 AU	min. Earth dist.		-12359 Jan 01 j 12:11	15° \mathbb{Y} 01'32	4.32420 AU
morning rise	-12365 Jan 14 j 15:09	17° \mathbb{L} 54'24		direct		-12359 Mar 04 j 02:13	10° \mathbb{Y} 09'45	
	-12365 Mar 12 j 14:05	0° \mathbb{M}		evening set		-12359 Jul 07 j 16:22	28° \mathbb{Y} 10'07	
retrograde	-12365 May 23 j 21:03	7° \mathbb{M} 29'07				-12359 Jul 15 j 19:11	0° \mathbb{B}	
min. Earth dist.	-12365 Jul 21 j 09:29	2° \mathbb{M} 30'16	4.10043 AU	max. Earth dist.		-12359 Jul 19 j 03:58	0° \mathbb{B} 45'43	6.30346 AU
opposition	-12365 Jul 22 j 00:13	2° \mathbb{M} 25'12	-2°30'08					
	-12365 Aug 09 j 11:17	30° \mathbb{R} \mathbb{L}		conjunction		-12359 Jul 20 j 01:05	0° \mathbb{B} 57'40	1°41'22
direct	-12365 Sep 18 j 15:26	27° \mathbb{L} 23'59		minimum elong		-12359 Jul 20 j 01:01	0° \mathbb{B} 57'38	1°41'44
	-12365 Oct 29 j 03:04	0° \mathbb{M}		morning rise		-12359 Aug 01 j 09:06	3° \mathbb{B} 44'56	
	-12364 Jan 17 j 04:45	15° \mathbb{M}				-12359 Sep 25 j 02:05	15° \mathbb{B}	
evening set	-12364 Jan 24 j 08:05	16° \mathbb{M} 37'13		retrograde		-12359 Dec 03 j 18:32	21° \mathbb{B} 41'58	
				opposition		-12358 Feb 03 j 08:37	16° \mathbb{B} 48'05	2°36'25
conjunction	-12364 Feb 07 j 00:46	19° \mathbb{M} 45'32	-1°45'12	min. Earth dist.		-12358 Feb 03 j 19:15	16° \mathbb{B} 44'43	4.27724 AU
minimum elong	-12364 Feb 07 j 00:46	19° \mathbb{M} 45'32	1°45'45			-12358 Feb 17 j 22:09	15° \mathbb{R} \mathbb{B}	
max. Earth dist.	-12364 Feb 07 j 16:14	19° \mathbb{M} 54'24	6.12823 AU	direct		-12358 Apr 05 j 21:31	11° \mathbb{B} 53'22	
morning rise	-12364 Feb 20 j 17:01	22° \mathbb{M} 53'28				-12358 May 21 j 20:06	15° \mathbb{B}	
	-12364 Mar 23 j 23:43	0° \mathbb{J}		evening set		-12358 Aug 07 j 23:03	29° \mathbb{B} 56'56	
retrograde	-12364 Jun 25 j 22:55	11° \mathbb{J} 48'17				-12358 Aug 08 j 04:26	0° \mathbb{I}	
opposition	-12364 Aug 23 j 19:14	6° \mathbb{J} 47'21	-2°28'45					
min. Earth dist.	-12364 Aug 23 j 14:40	6° \mathbb{J} 48'54	4.16448 AU	conjunction		-12358 Aug 20 j 08:13	2° \mathbb{I} 46'55	1°43'18
direct	-12364 Oct 22 j 12:25	1° \mathbb{J} 43'43		minimum elong		-12358 Aug 20 j 08:15	2° \mathbb{I} 46'56	1°43'57
evening set	-12363 Feb 28 j 12:16	20° \mathbb{J} 45'56		max. Earth dist.		-12358 Aug 20 j 00:14	2° \mathbb{I} 42'20	6.24245 AU
				morning rise		-12358 Sep 01 j 18:24	5° \mathbb{I} 37'36	
conjunction	-12363 Mar 14 j 02:16	23° \mathbb{J} 50'05	-1°26'33	retrograde		-12357 Jan 07 j 04:33	24° \mathbb{I} 14'37	
minimum elong	-12363 Mar 14 j 02:22	23° \mathbb{J} 50'08	1°27'18	opposition		-12357 Mar 09 j 18:56	19° \mathbb{I} 17'34	2°15'38
max. Earth dist.	-12363 Mar 14 j 02:07	23° \mathbb{J} 49'59	6.20162 AU	min. Earth dist.		-12357 Mar 09 j 20:01	19° \mathbb{I} 17'13	4.20645 AU
morning rise	-12363 Mar 27 j 13:51	26° \mathbb{J} 52'56		direct		-12357 May 09 j 05:24	14° \mathbb{I} 24'33	
	-12363 Apr 10 j 14:24	0° \mathbb{B}				-12357 Aug 28 j 12:55	0° \mathbb{G}	
retrograde	-12363 Jul 28 j 17:10	15° \mathbb{B} 01'44		evening set		-12357 Sep 09 j 03:07	2° \mathbb{G} 38'46	
opposition	-12363 Sep 25 j 19:27	10° \mathbb{B} 04'37	-1°38'00					
min. Earth dist.	-12363 Sep 26 j 00:28	10° \mathbb{B} 02'56	4.23985 AU	conjunction		-12357 Sep 21 j 19:31	5° \mathbb{G} 35'04	1°12'51
direct	-12363 Nov 25 j 17:10	5° \mathbb{B} 00'21		minimum elong		-12357 Sep 21 j 19:37	5° \mathbb{G} 35'07	1°13'37
evening set	-12362 Apr 04 j 00:25	23° \mathbb{B} 41'44		max. Earth dist.		-12357 Sep 22 j 01:46	5° \mathbb{G} 38'41	6.16841 AU
				morning rise		-12357 Oct 04 j 14:58	8° \mathbb{G} 33'02	
conjunction	-12362 Apr 17 j 08:39	26° \mathbb{B} 40'47	-0°40'08	retrograde		-12356 Feb 11 j 13:52	27° \mathbb{G} 50'21	
minimum elong	-12362 Apr 17 j 08:43	26° \mathbb{B} 40'50	0°40'49	opposition		-12356 Apr 12 j 20:30	22° \mathbb{G} 49'29	1°09'36
max. Earth dist.	-12362 Apr 16 j 16:15	26° \mathbb{B} 31'36	6.27398 AU	min. Earth dist.		-12356 Apr 12 j 09:42	22° \mathbb{G} 53'01	4.13403 AU
morning rise	-12362 Apr 30 j 13:44	29° \mathbb{B} 38'07		direct		-12356 Jun 11 j 01:29	17° \mathbb{G} 56'21	
	-12362 May 02 j 05:05	0° \mathbb{A}				-12356 Sep 13 j 04:04	0° \mathbb{Q}	
	-12362 Jul 23 j 06:42	15° \mathbb{A}		evening set		-12356 Oct 11 j 20:31	6° \mathbb{Q} 27'44	
retrograde	-12362 Aug 29 j 17:27	17° \mathbb{A} 11'47						
	-12362 Oct 06 j 09:38	15° \mathbb{R} \mathbb{A}		conjunction		-12356 Oct 25 j 00:07	9° \mathbb{Q} 31'46	0°17'24
opposition	-12362 Oct 28 j 08:25	12° \mathbb{A} 17'57	-0°18'15	minimum elong		-12356 Oct 25 j 00:09	9° \mathbb{Q} 31'47	0°18'00
min. Earth dist.	-12362 Oct 28 j 23:12	12° \mathbb{A} 13'07	4.30239 AU	max. Earth dist.		-12356 Oct 25 j 21:53	9° \mathbb{Q} 44'30	6.10498 AU
direct	-12362 Dec 29 j 08:00	7° \mathbb{A} 14'47		morning rise		-12356 Nov 07 j 07:14	12° \mathbb{Q} 37'48	
asc. node	-12361 Jan 19 j 16:47	7° \mathbb{A} 56'02				-12356 Nov 17 j 14:34	15° \mathbb{Q}	
	-12361 Mar 16 j 04:21	15° \mathbb{A}				-12355 Feb 06 j 23:43	0° \mathbb{M}	
evening set	-12361 May 06 j 20:58	25° \mathbb{A} 35'07		desc. node		-12355 Feb 12 j 17:59	0° \mathbb{M} 37'12	
				retrograde		-12355 Mar 18 j 15:54	2° \mathbb{M} 23'12	
conjunction	-12361 May 19 j 21:00	28° \mathbb{A} 28'50	0°17'40			-12355 Apr 27 j 01:42	30° \mathbb{R} \mathbb{Q}	
minimum elong	-12361 May 19 j 20:58	28° \mathbb{A} 28'49	0°17'16	min. Earth dist.		-12355 May 17 j 11:07	27° \mathbb{Q} 25'01	4.08445 AU
max. Earth dist.	-12361 May 18 j 20:13	28° \mathbb{A} 15'00	6.32243 AU	opposition		-12355 May 18 j 04:03	27° \mathbb{Q} 19'20	-0°22'28

Attention, astronomical year style is used: The year -12355 in astronomical counting style is the year 12356 BCE in historical counting style.

direct	-12355 Jul 15 j 14:22	22°♏24'11		conjunction	-12349 May 24 j 08:01	3°♐00'13	0°25'39
	-12355 Sep 25 j 03:19	0°♍		minimum elong	-12349 May 24 j 07:58	3°♐00'12	0°25'18
evening set	-12355 Nov 16 j 10:09	11°♍16'14		morning rise	-12349 Jun 06 j 03:32	5°♐51'46	
				retrograde	-12349 Oct 05 j 00:19	23°♐12'21	
conjunction	-12355 Nov 29 j 22:50	14°♍25'38	-0°45'10	opposition	-12349 Dec 04 j 11:16	18°♐20'29	1°16'01
minimum elong	-12355 Nov 29 j 22:45	14°♍25'35	0°44'58	min. Earth dist.	-12349 Dec 05 j 06:36	18°♐14'18	4.33111 AU
max. Earth dist.	-12355 Dec 01 j 03:13	14°♍42'13	6.07367 AU	direct	-12348 Feb 04 j 23:11	13°♐20'13	
morning rise	-12355 Dec 13 j 14:42	17°♍36'39			-12348 Jun 04 j 13:00	0°♑	
	-12354 Feb 09 j 21:19	0°♎		evening set	-12348 Jun 11 j 00:01	1°♑25'53	
retrograde	-12354 Apr 23 j 13:09	7°♎27'15					
min. Earth dist.	-12354 Jun 21 j 11:20	2°♎28'44	4.07525 AU	conjunction	-12348 Jun 23 j 13:49	4°♑14'51	1°15'35
opposition	-12354 Jun 22 j 06:07	2°♎22'20	-1°47'34	minimum elong	-12348 Jun 23 j 13:43	4°♑14'48	1°15'37
	-12354 Jul 10 j 10:03	30°♎		max. Earth dist.	-12348 Jun 22 j 12:18	4°♑00'32	6.32857 AU
direct	-12354 Aug 19 j 11:08	27°♎23'57		morning rise	-12348 Jul 06 j 01:17	7°♑02'43	
	-12354 Sep 28 j 13:25	0°♎		retrograde	-12348 Nov 05 j 06:55	24°♑34'54	
evening set	-12354 Dec 23 j 07:56	16°♎32'30		opposition	-12347 Jan 05 j 11:48	19°♑42'43	2°15'59
				min. Earth dist.	-12347 Jan 06 j 03:56	19°♑37'36	4.31804 AU
conjunction	-12353 Jan 06 j 00:39	19°♎42'49	-1°31'38	direct	-12347 Mar 08 j 16:49	14°♑45'37	
minimum elong	-12353 Jan 06 j 00:33	19°♎42'45	1°31'52		-12347 Jun 29 j 16:12	0°♒	
max. Earth dist.	-12353 Jan 07 j 01:59	19°♎57'31	6.08621 AU	evening set	-12347 Jul 12 j 03:03	2°♒46'16	
morning rise	-12353 Jan 19 j 18:43	22°♎53'44					
	-12353 Feb 20 j 16:40	0°♓		conjunction	-12347 Jul 24 j 11:22	5°♒33'54	1°43'35
retrograde	-12353 May 28 j 15:58	12°♓23'06		minimum elong	-12347 Jul 24 j 11:19	5°♒33'52	1°44'00
opposition	-12353 Jul 26 j 17:25	7°♓19'27	-2°33'14	max. Earth dist.	-12347 Jul 23 j 16:52	5°♒23'24	6.29608 AU
min. Earth dist.	-12353 Jul 26 j 04:59	7°♓23'43	4.10943 AU	morning rise	-12347 Aug 05 j 19:12	8°♒21'23	
direct	-12353 Sep 23 j 12:37	2°♓17'46			-12347 Sep 05 j 08:02	15°♒	
	-12353 Dec 31 j 00:36	15°♓		retrograde	-12347 Dec 08 j 15:38	26°♒23'31	
evening set	-12352 Jan 29 j 09:17	21°♓29'45		opposition	-12346 Feb 08 j 05:36	21°♒29'15	2°36'25
				min. Earth dist.	-12346 Feb 08 j 15:27	21°♒26'08	4.26906 AU
conjunction	-12352 Feb 12 j 01:49	24°♓37'32	-1°44'44	direct	-12346 Apr 10 j 16:04	16°♒34'52	
minimum elong	-12352 Feb 12 j 01:50	24°♓37'32	1°45'19		-12346 Jul 22 j 15:35	0°♓	
max. Earth dist.	-12352 Feb 12 j 15:28	24°♓45'21	6.13800 AU	evening set	-12346 Aug 12 j 11:29	4°♓38'58	
morning rise	-12352 Feb 25 j 17:28	27°♓44'47					
	-12352 Mar 06 j 17:04	0°♊		conjunction	-12346 Aug 24 j 21:11	7°♓29'32	1°40'52
retrograde	-12352 Jun 30 j 12:01	16°♊33'10		minimum elong	-12346 Aug 24 j 21:14	7°♓29'34	1°41'33
opposition	-12352 Aug 28 j 09:08	11°♊32'45	-2°24'20	max. Earth dist.	-12346 Aug 24 j 14:45	7°♓25'51	6.23404 AU
min. Earth dist.	-12352 Aug 28 j 05:34	11°♊33'58	4.17412 AU	morning rise	-12346 Sep 06 j 08:23	10°♓20'59	
direct	-12352 Oct 27 j 04:57	6°♊28'54		retrograde	-12345 Jan 12 j 02:09	29°♓03'05	
evening set	-12351 Mar 05 j 08:52	25°♊29'02		opposition	-12345 Mar 14 j 17:30	24°♓05'27	2°08'43
				min. Earth dist.	-12345 Mar 14 j 15:47	24°♓06'00	4.19827 AU
conjunction	-12351 Mar 18 j 22:10	28°♊32'35	-1°21'29	direct	-12345 May 13 j 22:57	19°♓12'32	
minimum elong	-12351 Mar 18 j 22:16	28°♊32'39	1°22'13		-12345 Aug 11 j 02:15	0°♔	
max. Earth dist.	-12351 Mar 18 j 17:41	28°♊30'04	6.21040 AU	evening set	-12345 Sep 13 j 19:07	7°♔27'51	
	-12351 Mar 25 j 08:48	0°♕					
morning rise	-12351 Apr 01 j 09:10	1°♕34'49		conjunction	-12345 Sep 26 j 13:01	10°♔25'06	1°06'13
retrograde	-12351 Aug 02 j 05:20	19°♕38'42		minimum elong	-12345 Sep 26 j 13:07	10°♔25'09	1°06'57
opposition	-12351 Sep 30 j 08:06	14°♕42'05	-1°28'10	max. Earth dist.	-12345 Sep 26 j 22:35	10°♔30'40	6.16119 AU
min. Earth dist.	-12351 Sep 30 j 15:43	14°♕39'33	4.24687 AU	morning rise	-12345 Oct 09 j 09:52	13°♔24'03	
direct	-12351 Nov 30 j 10:36	9°♕37'49			-12344 Jan 04 j 11:48	0°♌	
evening set	-12350 Apr 08 j 15:55	28°♕17'14		retrograde	-12344 Feb 16 j 15:47	2°♌45'12	
	-12350 Apr 16 j 08:08	0°♖			-12344 Mar 30 j 20:46	30°♌	
				opposition	-12344 Apr 17 j 19:42	27°♌43'53	0°57'33
conjunction	-12350 Apr 21 j 23:26	1°♖15'46	-0°32'24	min. Earth dist.	-12344 Apr 17 j 08:39	27°♌47'31	4.12808 AU
minimum elong	-12350 Apr 21 j 23:29	1°♖15'48	0°33'04	direct	-12344 Jun 15 j 22:47	22°♌50'35	
max. Earth dist.	-12350 Apr 21 j 06:18	1°♖06'10	6.27890 AU		-12344 Aug 24 j 12:10	0°♍	
morning rise	-12350 May 05 j 03:22	4°♖12'30		evening set	-12344 Oct 16 j 17:36	11°♍23'45	
	-12350 Jun 26 j 18:01	15°♖					
retrograde	-12350 Sep 03 j 03:24	21°♖44'09		conjunction	-12344 Oct 29 j 22:31	14°♍28'36	0°08'34
opposition	-12350 Nov 01 j 21:19	16°♖50'40	-0°06'16	minimum elong	-12344 Oct 29 j 22:33	14°♍28'37	0°09'07
min. Earth dist.	-12350 Nov 02 j 12:05	16°♖45'51	4.30491 AU	behind sun begin	-12344 Oct 29 j 15:35	14°♍24'34	
	-12350 Nov 16 j 09:29	15°♖		behind sun end	-12344 Oct 30 j 05:31	14°♍32'40	
asc. node	-12350 Nov 30 j 11:49	13°♖27'36		max. Earth dist.	-12344 Oct 30 j 20:49	14°♍41'37	6.10087 AU
direct	-12349 Jan 02 j 21:55	11°♖47'48			-12344 Nov 01 j 04:16	15°♍	
	-12349 Feb 19 j 10:03	15°♖		morning rise	-12344 Nov 12 j 07:15	17°♍35'29	
	-12349 May 10 j 20:39	0°♐		desc. node	-12344 Dec 23 j 03:31	26°♍35'50	
evening set	-12349 May 11 j 09:22	0°♐07'03			-12343 Jan 09 j 20:00	0°♑	
max. Earth dist.	-12349 May 23 j 05:41	2°♐45'30	6.32245 AU	retrograde	-12343 Mar 23 j 15:48	7°♑22'13	

Attention, astronomical year style is used: The year -12343 in astronomical counting style is the year 12344 BCE in historical counting style.

min. Earth dist.	-12343 May 22 j 08:01	2° \mathbb{M} 24'15	4.08269 AU	conjunction	-12337 May 28 j 19:41	7° \mathbb{H} 34'10	0°33'34
opposition	-12343 May 23 j 02:13	2° \mathbb{M} 18'08	-0°35'35	minimum elong	-12337 May 28 j 19:38	7° \mathbb{H} 34'08	0°33'15
	-12343 Jun 09 j 22:37	30° \mathbb{R} \mathcal{Q}		max. Earth dist.	-12337 May 27 j 18:42	7° \mathbb{H} 20'11	6.32455 AU
direct	-12343 Jul 20 j 10:09	27° \mathcal{Q} 22'37		morning rise	-12337 Jun 10 j 13:52	10° \mathbb{H} 25'05	
	-12343 Aug 29 j 15:03	0° \mathbb{M}		retrograde	-12337 Oct 09 j 12:33	27° \mathbb{H} 46'15	
evening set	-12343 Nov 21 j 12:02	16° \mathbb{M} 16'45		opposition	-12337 Dec 09 j 02:49	22° \mathbb{H} 54'27	1°26'19
				min. Earth dist.	-12337 Dec 09 j 20:55	22° \mathbb{H} 48'40	4.33148 AU
conjunction	-12343 Dec 05 j 01:33	19° \mathbb{M} 26'26	-0°53'06	direct	-12336 Feb 09 j 13:40	17° \mathbb{H} 54'40	
minimum elong	-12343 Dec 05 j 01:28	19° \mathbb{M} 26'23	0°52'57		-12336 May 18 j 17:29	0° \mathbb{Y}	
max. Earth dist.	-12343 Dec 06 j 05:53	19° \mathbb{M} 42'58	6.07434 AU	evening set	-12336 Jun 15 j 10:28	5° \mathbb{Y} 59'02	
morning rise	-12343 Dec 18 j 17:58	22° \mathbb{M} 37'38					
	-12342 Jan 20 j 17:31	0° \mathcal{Q}		conjunction	-12336 Jun 27 j 23:01	8° \mathbb{Y} 47'31	1°21'07
retrograde	-12342 Apr 28 j 12:29	12° \mathcal{Q} 26'30		minimum elong	-12336 Jun 27 j 22:56	8° \mathbb{Y} 47'28	1°21'13
min. Earth dist.	-12342 Jun 26 j 08:54	7° \mathcal{Q} 27'33	4.07840 AU	max. Earth dist.	-12336 Jun 26 j 21:55	8° \mathbb{Y} 33'24	6.32706 AU
opposition	-12342 Jun 27 j 02:13	7° \mathcal{Q} 21'38	-1°56'50	morning rise	-12336 Jul 10 j 09:45	11° \mathbb{Y} 35'04	
direct	-12342 Aug 24 j 09:11	2° \mathcal{Q} 22'46		retrograde	-12336 Nov 09 j 23:36	29° \mathbb{Y} 10'03	
evening set	-12342 Dec 28 j 11:55	21° \mathcal{Q} 32'35		opposition	-12335 Jan 10 j 05:23	24° \mathbb{Y} 17'38	2°21'30
				min. Earth dist.	-12335 Jan 10 j 21:25	24° \mathbb{Y} 12'34	4.31485 AU
conjunction	-12341 Jan 11 j 04:53	24° \mathcal{Q} 42'43	-1°35'40	direct	-12335 Mar 13 j 09:26	19° \mathbb{Y} 20'56	
minimum elong	-12341 Jan 11 j 04:48	24° \mathcal{Q} 42'40	1°35'59		-12335 Jun 12 j 11:27	0° \mathbb{B}	
max. Earth dist.	-12341 Jan 12 j 05:33	24° \mathcal{Q} 57'00	6.09148 AU	evening set	-12335 Jul 16 j 12:39	7° \mathbb{B} 20'48	
morning rise	-12341 Jan 24 j 22:46	27° \mathcal{Q} 53'16					
	-12341 Feb 03 j 04:50	0° \mathbb{M}		conjunction	-12335 Jul 28 j 20:45	10° \mathbb{B} 08'28	1°45'08
	-12341 Apr 25 j 09:43	15° \mathbb{M}		minimum elong	-12335 Jul 28 j 20:43	10° \mathbb{B} 08'27	1°45'35
retrograde	-12341 Jun 02 j 10:27	17° \mathbb{M} 17'57		max. Earth dist.	-12335 Jul 28 j 04:14	9° \mathbb{B} 59'05	6.29133 AU
	-12341 Jul 10 j 03:27	15° \mathbb{R} \mathbb{M}		morning rise	-12335 Aug 10 j 04:33	12° \mathbb{B} 56'06	
opposition	-12341 Jul 31 j 10:46	12° \mathbb{M} 14'43	-2°35'18		-12335 Aug 19 j 09:45	15° \mathbb{B}	
min. Earth dist.	-12341 Jul 30 j 23:07	12° \mathbb{M} 18'43	4.11654 AU		-12335 Nov 17 j 03:48	0° \mathbb{I}	
direct	-12341 Sep 28 j 07:34	7° \mathbb{M} 12'41		retrograde	-12335 Dec 13 j 08:34	1° \mathbb{I} 02'18	
	-12341 Dec 11 j 09:45	15° \mathbb{M}			-12334 Jan 08 j 15:50	30° \mathbb{R} \mathbb{B}	
evening set	-12340 Feb 03 j 11:27	26° \mathbb{M} 24'15		opposition	-12334 Feb 13 j 00:38	26° \mathbb{B} 07'34	2°35'23
				min. Earth dist.	-12334 Feb 13 j 08:03	26° \mathbb{B} 05'13	4.26317 AU
conjunction	-12340 Feb 17 j 03:34	29° \mathbb{M} 31'34	-1°43'32	direct	-12334 Apr 15 j 06:53	21° \mathbb{B} 13'27	
minimum elong	-12340 Feb 17 j 03:36	29° \mathbb{M} 31'34	1°44'10		-12334 Jul 04 j 14:24	0° \mathbb{I}	
max. Earth dist.	-12340 Feb 17 j 13:11	29° \mathbb{M} 37'03	6.14619 AU	evening set	-12334 Aug 16 j 22:19	9° \mathbb{I} 17'30	
	-12340 Feb 19 j 05:18	0° \mathbb{X}					
morning rise	-12340 Mar 01 j 18:53	2° \mathbb{X} 38'17		conjunction	-12334 Aug 29 j 08:44	12° \mathbb{I} 08'38	1°37'49
retrograde	-12340 Jul 05 j 03:24	21° \mathbb{X} 20'58		minimum elong	-12334 Aug 29 j 08:48	12° \mathbb{I} 08'41	1°38'32
opposition	-12340 Sep 02 j 00:28	16° \mathbb{X} 21'05	-2°18'57	max. Earth dist.	-12334 Aug 29 j 04:42	12° \mathbb{I} 06'19	6.22739 AU
min. Earth dist.	-12340 Sep 01 j 23:10	16° \mathbb{X} 21'31	4.18253 AU	morning rise	-12334 Sep 10 j 20:51	15° \mathbb{I} 00'48	
direct	-12340 Nov 01 j 01:17	11° \mathbb{X} 17'03			-12334 Nov 26 j 15:29	0° \mathcal{Q}	
	-12339 Mar 09 j 02:51	0° \mathbb{B}		retrograde	-12333 Jan 17 j 00:01	3° \mathcal{Q} 47'21	
evening set	-12339 Mar 10 j 06:17	0° \mathbb{B} 15'22			-12333 Mar 10 j 07:58	30° \mathbb{R} \mathbb{I}	
				opposition	-12333 Mar 19 j 14:03	28° \mathbb{I} 49'10	2°01'02
conjunction	-12339 Mar 23 j 19:10	3° \mathbb{B} 18'25	-1°15'49	min. Earth dist.	-12333 Mar 19 j 11:54	28° \mathbb{I} 49'51	4.19101 AU
minimum elong	-12339 Mar 23 j 19:16	3° \mathbb{B} 18'28	1°16'33	direct	-12333 May 18 j 17:05	23° \mathbb{I} 56'15	
max. Earth dist.	-12339 Mar 23 j 13:48	3° \mathbb{B} 15'23	6.21859 AU		-12333 Jul 21 j 22:30	0° \mathcal{Q}	
morning rise	-12339 Apr 06 j 05:14	6° \mathbb{B} 19'59		evening set	-12333 Sep 18 j 09:21	12° \mathcal{Q} 12'32	
retrograde	-12339 Aug 06 j 17:42	24° \mathbb{B} 19'12					
opposition	-12339 Oct 04 j 22:05	19° \mathbb{B} 23'08	-1°17'39	conjunction	-12333 Oct 01 j 04:39	15° \mathcal{Q} 10'44	0°59'15
min. Earth dist.	-12339 Oct 05 j 06:25	19° \mathbb{B} 20'23	4.25405 AU	minimum elong	-12333 Oct 01 j 04:44	15° \mathcal{Q} 10'47	0°59'58
direct	-12339 Dec 05 j 03:23	14° \mathbb{B} 19'02		max. Earth dist.	-12333 Oct 01 j 15:26	15° \mathcal{Q} 16'59	6.15408 AU
	-12338 Mar 30 j 23:49	0° \approx		morning rise	-12333 Oct 14 j 03:11	18° \mathcal{Q} 10'44	
evening set	-12338 Apr 13 j 08:46	2° \approx 56'19			-12333 Dec 08 j 23:16	0° \mathcal{Q}	
				retrograde	-12332 Feb 21 j 13:22	7° \mathcal{Q} 35'31	
conjunction	-12338 Apr 26 j 15:05	5° \approx 54'12	-0°24'22	opposition	-12332 Apr 22 j 16:29	2° \mathcal{Q} 33'43	0°45'18
minimum elong	-12338 Apr 26 j 15:07	5° \approx 54'13	0°25'00	min. Earth dist.	-12332 Apr 22 j 03:48	2° \mathcal{Q} 37'54	4.12160 AU
max. Earth dist.	-12338 Apr 25 j 19:04	5° \approx 42'59	6.28465 AU		-12332 May 13 j 04:23	30° \mathbb{R} \mathcal{Q}	
morning rise	-12338 May 09 j 18:07	8° \approx 50'19		direct	-12332 Jun 20 j 15:45	27° \mathcal{Q} 40'11	
	-12338 Jun 07 j 07:23	15° \approx			-12332 Jul 28 j 16:48	0° \mathcal{Q}	
retrograde	-12338 Sep 07 j 16:25	26° \approx 19'47			-12332 Oct 16 j 02:34	15° \mathcal{Q}	
asc. node	-12338 Oct 10 j 12:10	24° \approx 38'49		evening set	-12332 Oct 21 j 13:22	16° \mathcal{Q} 15'39	
opposition	-12338 Nov 06 j 11:35	21° \approx 26'39	0°05'53	desc. node	-12332 Nov 02 j 06:18	18° \mathcal{Q} 59'29	
min. Earth dist.	-12338 Nov 07 j 03:49	21° \approx 21'22	4.30891 AU				
direct	-12337 Jan 07 j 15:08	16° \approx 24'04		conjunction	-12332 Nov 03 j 19:42	19° \mathcal{Q} 21'21	-0°00'14
	-12337 Apr 24 j 07:07	0° \mathbb{H}		minimum elong	-12332 Nov 03 j 19:43	19° \mathcal{Q} 21'21	0°00'16
evening set	-12337 May 15 j 22:09	4° \mathbb{H} 41'35		behind sun begin	-12332 Nov 03 j 11:31	19° \mathcal{Q} 16'35	

Attention, astronomical year style is used: The year -12332 in astronomical counting style is the year 12333 BCE in historical counting style.

behind sun end	-12332 Nov 04 j 03:55	19° Ω 26'07		opposition	-12326 Nov 11 j 02:07	26° \approx 01'44	0°18'02
max. Earth dist.	-12332 Nov 04 j 18:48	19° Ω 34'50	6.09561 AU	min. Earth dist.	-12326 Nov 11 j 18:19	25° \approx 56'29	4.31506 AU
morning rise	-12332 Nov 17 j 05:45	22° Ω 29'02		direct	-12325 Jan 12 j 07:17	20° \approx 59'31	
	-12332 Dec 20 j 21:23	0° Π			-12325 Apr 06 j 02:13	0° X	
retrograde	-12331 Mar 28 j 15:33	12° Π 17'33		evening set	-12325 May 20 j 10:18	9° X 14'16	
opposition	-12331 May 27 j 22:33	7° Π 13'12	-0°48'16	max. Earth dist.	-12325 Jun 01 j 03:49	11° X 51'15	6.32850 AU
min. Earth dist.	-12331 May 27 j 05:02	7° Π 19'07	4.07905 AU				
direct	-12331 Jul 25 j 06:19	2° Π 17'12		conjunction	-12325 Jun 02 j 06:19	12° X 06'04	0°41'16
evening set	-12331 Nov 26 j 13:11	21° Π 14'20		minimum elong	-12325 Jun 02 j 06:15	12° X 06'02	0°41'00
				morning rise	-12325 Jun 14 j 23:26	14° X 56'21	
conjunction	-12331 Dec 10 j 03:36	24° Π 24'27	-1°00'33		-12325 Sep 05 j 04:48	0° Υ	
minimum elong	-12331 Dec 10 j 03:30	24° Π 24'23	1°00'27	retrograde	-12325 Oct 14 j 01:44	2° Υ 17'41	
max. Earth dist.	-12331 Dec 11 j 08:16	24° Π 41'10	6.07266 AU		-12325 Nov 22 j 10:49	30° R X	
morning rise	-12331 Dec 23 j 20:36	27° Π 35'54		opposition	-12325 Dec 13 j 17:55	27° X 25'53	1°36'03
	-12330 Jan 03 j 07:31	0° Ω		min. Earth dist.	-12325 Dec 14 j 12:30	27° X 19'57	4.33291 AU
retrograde	-12330 May 03 j 10:15	17° Ω 23'40		direct	-12324 Feb 14 j 05:07	22° X 26'28	
opposition	-12330 Jul 01 j 21:26	12° Ω 18'56	-2°05'10		-12324 Apr 29 j 20:52	0° Υ	
min. Earth dist.	-12330 Jul 01 j 04:30	12° Ω 24'43	4.07914 AU	evening set	-12324 Jun 19 j 19:40	10° Υ 29'13	
direct	-12330 Aug 29 j 04:11	7° Ω 19'38		max. Earth dist.	-12324 Jul 01 j 08:05	13° Υ 04'12	6.32561 AU
evening set	-12329 Jan 02 j 15:48	26° Ω 31'35					
				conjunction	-12324 Jul 02 j 07:24	13° Υ 17'20	1°26'10
conjunction	-12329 Jan 16 j 08:46	29° Ω 41'36	-1°38'58	minimum elong	-12324 Jul 02 j 07:19	13° Υ 17'17	1°26'19
minimum elong	-12329 Jan 16 j 08:42	29° Ω 41'33	1°39'19	morning rise	-12324 Jul 14 j 17:11	16° Υ 04'34	
max. Earth dist.	-12329 Jan 17 j 06:24	29° Ω 54'07	6.09436 AU		-12324 Sep 25 j 02:24	0° B	
	-12329 Jan 17 j 16:34	0° Π		retrograde	-12324 Nov 14 j 13:32	3° B 42'32	
morning rise	-12329 Jan 30 j 02:42	2° Π 51'57			-12323 Jan 05 j 14:05	30° R Υ	
	-12329 Mar 28 j 14:30	15° Π		opposition	-12323 Jan 14 j 21:57	28° Υ 49'54	2°26'12
retrograde	-12329 Jun 07 j 05:16	22° Π 12'51		min. Earth dist.	-12323 Jan 15 j 12:35	28° Υ 45'17	4.31067 AU
opposition	-12329 Aug 05 j 04:32	17° Π 09'58	-2°36'14	direct	-12323 Mar 17 j 23:11	23° Υ 53'39	
min. Earth dist.	-12329 Aug 04 j 18:20	17° Π 13'28	4.12138 AU		-12323 May 23 j 12:00	0° B	
	-12329 Aug 21 j 13:42	15° R Π		evening set	-12323 Jul 20 j 21:30	11° B 53'17	
direct	-12329 Oct 03 j 04:48	12° Π 07'34					
	-12329 Nov 15 j 03:40	15° Π		conjunction	-12323 Aug 02 j 05:20	14° B 41'07	1°46'05
	-12328 Feb 02 j 17:37	0° X		minimum elong	-12323 Aug 02 j 05:19	14° B 41'06	1°46'35
evening set	-12328 Feb 08 j 13:49	1° X 19'14		max. Earth dist.	-12323 Aug 01 j 13:15	14° B 31'58	6.28448 AU
					-12323 Aug 03 j 14:32	15° B	
conjunction	-12328 Feb 22 j 05:54	4° X 26'14	-1°41'33	morning rise	-12323 Aug 14 j 13:21	17° B 29'06	
minimum elong	-12328 Feb 22 j 05:57	4° X 26'15	1°42'13		-12323 Oct 15 j 09:07	0° Π	
max. Earth dist.	-12328 Feb 22 j 14:57	4° X 31'24	6.15283 AU	retrograde	-12323 Dec 18 j 03:59	5° Π 40'30	
morning rise	-12328 Mar 06 j 20:32	7° X 32'24		opposition	-12322 Feb 17 j 19:45	0° Π 45'20	2°33'29
retrograde	-12328 Jul 09 j 19:56	26° X 09'46		min. Earth dist.	-12322 Feb 18 j 02:43	0° Π 43'07	4.25394 AU
opposition	-12328 Sep 06 j 16:32	21° X 10'27	-2°12'32		-12322 Feb 23 j 18:48	30° R B	
min. Earth dist.	-12328 Sep 06 j 16:17	21° X 10'32	4.19030 AU	direct	-12322 Apr 19 j 23:10	25° B 51'27	
direct	-12328 Nov 05 j 20:51	16° X 06'20			-12322 Jun 12 j 00:55	0° Π	
	-12327 Feb 20 j 04:01	0° B		evening set	-12322 Aug 21 j 09:26	13° Π 56'49	
evening set	-12327 Mar 15 j 04:25	5° B 02'45					
				conjunction	-12322 Sep 02 j 20:50	16° Π 48'49	1°34'11
conjunction	-12327 Mar 28 j 16:32	8° B 05'12	-1°09'34	minimum elong	-12322 Sep 02 j 20:55	16° Π 48'52	1°34'54
minimum elong	-12327 Mar 28 j 16:38	8° B 05'16	1°10'18	max. Earth dist.	-12322 Sep 02 j 18:42	16° Π 47'36	6.21665 AU
max. Earth dist.	-12327 Mar 28 j 08:16	8° B 00'33	6.22698 AU	morning rise	-12322 Sep 15 j 10:06	19° Π 41'57	
morning rise	-12327 Apr 11 j 01:57	11° B 06'10			-12322 Nov 02 j 17:16	0° B	
retrograde	-12327 Aug 11 j 07:04	29° B 00'36		retrograde	-12321 Jan 21 j 21:26	8° B 34'28	
opposition	-12327 Oct 09 j 13:06	24° B 04'58	-1°06'32	opposition	-12321 Mar 24 j 11:19	3° B 35'49	1°52'33
min. Earth dist.	-12327 Oct 09 j 22:34	24° B 01'49	4.26225 AU	min. Earth dist.	-12321 Mar 24 j 07:17	3° B 37'07	4.17949 AU
direct	-12327 Dec 09 j 22:15	19° B 00'56			-12321 Apr 24 j 21:02	30° R Π	
	-12326 Mar 13 j 09:34	0° \approx		direct	-12321 May 23 j 09:40	28° Π 42'57	
evening set	-12326 Apr 18 j 01:20	7° \approx 35'21			-12321 Jun 20 j 17:50	0° B	
max. Earth dist.	-12326 Apr 30 j 11:10	10° \approx 21'35	6.29223 AU	evening set	-12321 Sep 23 j 01:53	17° B 02'06	
conjunction	-12326 May 01 j 06:40	10° \approx 32'30	-0°16'08	conjunction	-12321 Oct 05 j 22:41	20° B 01'28	0°51'47
minimum elong	-12326 May 01 j 06:41	10° \approx 32'31	0°16'42	minimum elong	-12321 Oct 05 j 22:46	20° B 01'31	0°52'30
morning rise	-12326 May 14 j 08:24	13° \approx 27'49		max. Earth dist.	-12321 Oct 06 j 10:47	20° B 08'31	6.14283 AU
	-12326 May 21 j 07:03	15° \approx		morning rise	-12321 Oct 18 j 22:54	23° B 02'43	
asc. node	-12326 Aug 19 j 17:15	0° X 01'53			-12321 Nov 19 j 02:46	0° Ω	
	-12326 Aug 19 j 07:07	0° X		retrograde	-12320 Feb 26 j 15:42	12° Ω 32'45	
retrograde	-12326 Sep 12 j 04:12	0° X 54'35		opposition	-12320 Apr 27 j 15:32	7° Ω 30'30	0°32'29
	-12326 Oct 06 j 01:50	30° R \approx		min. Earth dist.	-12320 Apr 27 j 02:20	7° Ω 34'52	4.11132 AU

Attention, astronomical year style is used: The year -12320 in astronomical counting style is the year 12321 BCE in historical counting style.

direct	-12320 Jun 25 j 12:22	2°♌36'40		conjunction	-12314 May 05 j 19:14	15°♊04'19	-0°08'02
desc. node	-12320 Sep 11 j 14:23	11°♌25'54		minimum elong	-12314 May 05 j 19:15	15°♊04'20	0°08'35
	-12320 Sep 28 j 19:00	15°♌		behind sun begin	-12314 May 05 j 12:12	15°♊00'25	
evening set	-12320 Oct 26 j 12:45	21°♌16'07		behind sun end	-12314 May 06 j 02:19	15°♊08'15	
				max. Earth dist.	-12314 May 04 j 21:34	14°♊52'13	6.30564 AU
conjunction	-12320 Nov 08 j 20:37	24°♌22'50	-0°09'17		-12314 May 05 j 11:28	15°♊	
minimum elong	-12320 Nov 08 j 20:36	24°♌22'50	0°08'51	morning rise	-12314 May 18 j 19:46	17°♊58'35	
behind sun begin	-12320 Nov 08 j 13:31	24°♌18'42		asc. node	-12314 Jun 29 j 16:05	26°♊45'12	
behind sun end	-12320 Nov 09 j 03:42	24°♌26'57			-12314 Jul 18 j 00:42	0°♋	
max. Earth dist.	-12320 Nov 09 j 21:31	24°♌37'23	6.08737 AU	retrograde	-12314 Sep 16 j 12:04	5°♋21'02	
morning rise	-12320 Nov 22 j 08:01	27°♌31'29		opposition	-12314 Nov 15 j 13:20	0°♋28'23	0°29'39
	-12320 Dec 03 j 02:09	0°♎		min. Earth dist.	-12314 Nov 16 j 06:24	0°♋22'51	4.32577 AU
retrograde	-12319 Apr 02 j 18:53	17°♎22'34			-12314 Nov 19 j 05:14	30°♎	
opposition	-12319 Jun 01 j 22:13	12°♎18'04	-1°01'00	direct	-12313 Jan 16 j 20:50	25°♎26'25	
min. Earth dist.	-12319 Jun 01 j 04:14	12°♎24'09	4.07382 AU		-12313 Mar 15 j 08:54	0°♏	
direct	-12319 Jul 30 j 03:32	7°♎21'42		evening set	-12313 May 24 j 18:10	13°♏37'05	
evening set	-12319 Dec 01 j 18:55	26°♎22'34		max. Earth dist.	-12313 Jun 05 j 10:48	16°♏13'23	6.33560 AU
conjunction	-12319 Dec 15 j 09:54	29°♎33'01	-1°07'48	conjunction	-12313 Jun 06 j 12:57	16°♏28'00	0°48'26
minimum elong	-12319 Dec 15 j 09:47	29°♎32'57	1°07'47	minimum elong	-12313 Jun 06 j 12:52	16°♏27'58	0°48'14
max. Earth dist.	-12319 Dec 16 j 13:14	29°♎48'59	6.07072 AU	morning rise	-12313 Jun 19 j 04:40	19°♏17'27	
	-12319 Dec 17 j 08:08	0°♐			-12313 Aug 10 j 16:24	0°♑	
morning rise	-12319 Dec 29 j 03:30	2°♐44'45		retrograde	-12313 Oct 18 j 09:27	6°♑38'14	
retrograde	-12318 May 08 j 10:34	22°♐31'09		opposition	-12313 Dec 18 j 04:40	1°♑46'28	1°44'49
opposition	-12318 Jul 06 j 20:07	17°♐26'32	-2°12'52	min. Earth dist.	-12313 Dec 18 j 23:38	1°♑40'26	4.33597 AU
min. Earth dist.	-12318 Jul 06 j 03:22	17°♐32'17	4.08109 AU		-12312 Jan 01 j 11:08	30°♑	
direct	-12318 Sep 03 j 04:23	12°♐26'48		direct	-12312 Feb 18 j 16:06	26°♑47'28	
	-12318 Dec 31 j 16:01	0°♒			-12312 Apr 06 j 05:08	0°♑	
evening set	-12317 Jan 07 j 23:38	1°♒40'20		evening set	-12312 Jun 24 j 00:24	14°♑48'15	
				max. Earth dist.	-12312 Jul 05 j 10:03	17°♑21'52	6.32407 AU
conjunction	-12317 Jan 21 j 16:49	4°♒50'08	-1°41'39				
minimum elong	-12317 Jan 21 j 16:45	4°♒50'05	1°42'03	conjunction	-12312 Jul 06 j 11:05	17°♑35'58	1°30'30
max. Earth dist.	-12317 Jan 22 j 15:05	5°♒03'00	6.10027 AU	minimum elong	-12312 Jul 06 j 11:00	17°♑35'55	1°30'42
morning rise	-12317 Feb 04 j 10:17	8°♒00'00		morning rise	-12312 Jul 18 j 20:23	20°♑23'00	
	-12317 Mar 07 j 23:20	15°♒			-12312 Sep 02 j 20:05	0°♓	
retrograde	-12317 Jun 12 j 03:34	27°♒15'21		retrograde	-12312 Nov 19 j 00:52	8°♓04'16	
opposition	-12317 Aug 10 j 00:52	22°♒12'58	-2°36'03	opposition	-12311 Jan 19 j 10:17	3°♓11'23	2°29'52
min. Earth dist.	-12317 Aug 09 j 15:39	22°♒16'07	4.13105 AU	min. Earth dist.	-12311 Jan 20 j 01:09	3°♓06'41	4.30476 AU
direct	-12317 Oct 08 j 05:00	17°♒10'17			-12311 Feb 15 j 21:53	30°♓	
	-12316 Jan 16 j 00:04	0°♈		direct	-12311 Mar 22 j 09:38	28°♓15'24	
evening set	-12316 Feb 13 j 18:24	6°♈19'55			-12311 Apr 25 j 15:06	0°♈	
					-12311 Jul 19 j 11:58	15°♈	
conjunction	-12316 Feb 27 j 09:56	9°♈26'10	-1°38'52	evening set	-12311 Jul 25 j 02:24	16°♈15'42	
minimum elong	-12316 Feb 27 j 10:00	9°♈26'13	1°39'34				
max. Earth dist.	-12316 Feb 27 j 16:45	9°♈30'03	6.16555 AU	conjunction	-12311 Aug 06 j 10:28	19°♈03'56	1°46'22
morning rise	-12316 Mar 12 j 00:01	12°♈31'33		minimum elong	-12311 Aug 06 j 10:27	19°♈03'56	1°46'55
	-12316 Jun 19 j 13:52	0°♉		max. Earth dist.	-12311 Aug 05 j 20:01	18°♉55'42	6.27468 AU
retrograde	-12316 Jul 14 j 11:01	1°♉01'08		morning rise	-12311 Aug 18 j 18:39	21°♉52'26	
	-12316 Aug 08 j 05:24	30°♉			-12311 Sep 25 j 10:33	0°♊	
opposition	-12316 Sep 11 j 09:34	26°♉02'17	-2°05'12	retrograde	-12311 Dec 22 j 18:56	10°♊10'00	
min. Earth dist.	-12316 Sep 11 j 09:57	26°♉02'09	4.20495 AU	opposition	-12310 Feb 22 j 11:04	5°♊14'29	2°30'43
direct	-12316 Nov 10 j 18:32	20°♉58'02		min. Earth dist.	-12310 Feb 22 j 17:06	5°♊12'34	4.24101 AU
	-12315 Feb 01 j 06:44	0°♋		direct	-12310 Apr 24 j 10:18	0°♊20'51	
evening set	-12315 Mar 20 j 01:50	9°♋49'42		evening set	-12310 Aug 25 j 18:18	18°♊29'10	
conjunction	-12315 Apr 02 j 13:06	12°♋51'10	-1°02'55	conjunction	-12310 Sep 07 j 06:40	21°♊22'15	1°30'01
minimum elong	-12315 Apr 02 j 13:11	12°♋51'13	1°03'39	minimum elong	-12310 Sep 07 j 06:45	21°♊22'18	1°30'44
max. Earth dist.	-12315 Apr 02 j 04:05	12°♋46'06	6.24268 AU	max. Earth dist.	-12310 Sep 07 j 04:59	21°♊21'17	6.20174 AU
morning rise	-12315 Apr 15 j 21:22	15°♋51'02		morning rise	-12310 Sep 19 j 21:21	24°♊16'37	
	-12315 Jun 28 j 01:49	0°♌			-12310 Oct 15 j 12:24	0°♍	
retrograde	-12315 Aug 15 j 18:44	3°♌38'18		retrograde	-12309 Jan 26 j 19:08	13°♍16'45	
	-12315 Oct 04 j 06:50	30°♌		opposition	-12309 Mar 29 j 06:38	8°♍17'36	1°43'29
opposition	-12315 Oct 14 j 02:43	28°♌43'08	-0°55'11	min. Earth dist.	-12309 Mar 29 j 01:33	8°♍19'15	4.16359 AU
min. Earth dist.	-12315 Oct 14 j 13:27	28°♌39'36	4.27743 AU	direct	-12309 May 28 j 00:49	3°♍24'41	
direct	-12315 Dec 14 j 16:16	23°♌39'16		evening set	-12309 Sep 27 j 17:28	21°♍48'29	
	-12314 Feb 21 j 03:25	0°♍					
evening set	-12314 Apr 22 j 15:16	12°♍08'16		conjunction	-12309 Oct 10 j 16:04	24°♍49'17	0°44'02

Attention, astronomical year style is used: The year -12309 in astronomical counting style is the year 12310 BCE in historical counting style.

minimum elong	-12309 Oct 10 j 16:09	24° \mathfrak{D} 49'20	0°44'43	morning rise	-12303 Apr 20 j 15:20	20° \mathfrak{Z} 32'57	
max. Earth dist.	-12309 Oct 11 j 07:08	24° \mathfrak{D} 58'04	6.12772 AU		-12303 Jun 04 j 16:37	0° \mathfrak{A}	
morning rise	-12309 Oct 23 j 18:01	27° \mathfrak{D} 52'00		retrograde	-12303 Aug 20 j 05:05	8° \mathfrak{A} 15'06	
	-12309 Nov 02 j 00:43	0° \mathfrak{Q}		opposition	-12303 Oct 18 j 16:11	3° \mathfrak{A} 20'21	-0°43'35
	-12308 Jan 22 j 02:45	15° \mathfrak{Q}		min. Earth dist.	-12303 Oct 19 j 03:32	3° \mathfrak{A} 16'37	4.28712 AU
retrograde	-12308 Mar 02 j 17:56	17° \mathfrak{Q} 28'27			-12303 Nov 15 j 12:49	30° \mathfrak{R} \mathfrak{Z}	
	-12308 Apr 12 j 05:32	15° \mathfrak{R} \mathfrak{Q}		direct	-12303 Dec 19 j 08:13	28° \mathfrak{Z} 16'41	
opposition	-12308 May 02 j 14:02	12° \mathfrak{Q} 25'51	0°19'28		-12302 Jan 22 j 12:44	0° \mathfrak{A}	
min. Earth dist.	-12308 May 01 j 23:42	12° \mathfrak{Q} 30'37	4.09843 AU		-12302 Apr 19 j 10:57	15° \mathfrak{A}	
direct	-12308 Jun 30 j 06:41	7° \mathfrak{Q} 31'50		evening set	-12302 Apr 27 j 05:08	16° \mathfrak{A} 42'28	
desc. node	-12308 Jul 22 j 19:05	8° \mathfrak{Q} 22'42		asc. node	-12302 May 08 j 20:18	19° \mathfrak{A} 17'52	
	-12308 Sep 09 j 05:58	15° \mathfrak{Q}		max. Earth dist.	-12302 May 09 j 08:56	19° \mathfrak{A} 24'56	6.31279 AU
evening set	-12308 Oct 31 j 12:54	26° \mathfrak{Q} 16'19					
				conjunction	-12302 May 10 j 07:51	19° \mathfrak{A} 37'43	0°00'12
conjunction	-12308 Nov 13 j 22:02	29° \mathfrak{Q} 24'03	-0°18'12	minimum elong	-12302 May 10 j 07:51	19° \mathfrak{A} 37'43	0°00'18
minimum elong	-12308 Nov 13 j 22:00	29° \mathfrak{Q} 24'02	0°17'48	behind sun begin	-12302 May 09 j 23:48	19° \mathfrak{A} 33'15	
max. Earth dist.	-12308 Nov 14 j 23:22	29° \mathfrak{Q} 38'53	6.07785 AU	behind sun end	-12302 May 10 j 15:54	19° \mathfrak{A} 42'11	
	-12308 Nov 16 j 11:25	0° \mathfrak{P}		morning rise	-12302 May 23 j 07:09	22° \mathfrak{A} 31'13	
morning rise	-12308 Nov 27 j 10:53	2° \mathfrak{P} 33'43			-12302 Jun 27 j 12:03	0° \mathfrak{H}	
retrograde	-12307 Apr 07 j 20:16	22° \mathfrak{P} 27'27		retrograde	-12302 Sep 20 j 23:25	9° \mathfrak{H} 51'57	
opposition	-12307 Jun 06 j 21:36	17° \mathfrak{P} 22'43	-1°13'17	opposition	-12302 Nov 20 j 02:44	4° \mathfrak{H} 59'35	0°41'18
min. Earth dist.	-12307 Jun 06 j 02:29	17° \mathfrak{P} 29'12	4.06872 AU	min. Earth dist.	-12302 Nov 20 j 21:02	4° \mathfrak{H} 53'41	4.32981 AU
direct	-12307 Aug 04 j 01:49	12° \mathfrak{P} 25'54			-12301 Jan 16 j 20:27	30° \mathfrak{R} \mathfrak{A}	
	-12307 Nov 30 j 12:30	0° \mathfrak{U}		direct	-12301 Jan 21 j 12:18	29° \mathfrak{A} 58'02	
evening set	-12307 Dec 07 j 01:00	1° \mathfrak{U} 30'19			-12301 Jan 26 j 04:23	0° \mathfrak{H}	
				evening set	-12301 May 29 j 04:15	18° \mathfrak{H} 06'48	
conjunction	-12307 Dec 20 j 16:47	4° \mathfrak{U} 41'03	-1°14'32				
minimum elong	-12307 Dec 20 j 16:40	4° \mathfrak{U} 40'59	1°14'35	conjunction	-12301 Jun 10 j 21:44	20° \mathfrak{H} 57'09	0°55'30
max. Earth dist.	-12307 Dec 21 j 22:09	4° \mathfrak{U} 58'11	6.07040 AU	minimum elong	-12301 Jun 10 j 21:39	20° \mathfrak{H} 57'06	0°55'22
morning rise	-12306 Jan 03 j 10:35	7° \mathfrak{U} 52'51		max. Earth dist.	-12301 Jun 09 j 18:14	20° \mathfrak{H} 41'47	6.33604 AU
retrograde	-12306 May 13 j 11:51	27° \mathfrak{U} 36'39		morning rise	-12301 Jun 23 j 12:26	23° \mathfrak{H} 46'08	
opposition	-12306 Jul 11 j 18:14	22° \mathfrak{U} 32'11	-2°19'30		-12301 Jul 22 j 11:40	0° \mathfrak{Y}	
min. Earth dist.	-12306 Jul 11 j 02:15	22° \mathfrak{U} 37'40	4.08553 AU	retrograde	-12301 Oct 22 j 21:53	11° \mathfrak{Y} 08'50	
direct	-12306 Sep 08 j 04:40	17° \mathfrak{U} 32'00		opposition	-12301 Dec 22 j 19:35	6° \mathfrak{Y} 17'00	1°53'22
	-12306 Dec 13 j 20:42	0° \mathfrak{M}		min. Earth dist.	-12301 Dec 23 j 14:07	6° \mathfrak{Y} 11'06	4.33310 AU
evening set	-12305 Jan 13 j 06:21	6° \mathfrak{M} 45'47		direct	-12300 Feb 23 j 05:50	1° \mathfrak{Y} 18'25	
				evening set	-12300 Jun 28 j 09:14	19° \mathfrak{Y} 19'02	
conjunction	-12305 Jan 26 j 23:22	9° \mathfrak{M} 55'08	-1°43'33				
minimum elong	-12305 Jan 26 j 23:19	9° \mathfrak{M} 55'06	1°44'01	conjunction	-12300 Jul 10 j 19:17	22° \mathfrak{Y} 06'39	1°34'31
max. Earth dist.	-12305 Jan 27 j 19:39	10° \mathfrak{M} 06'50	6.10848 AU	minimum elong	-12300 Jul 10 j 19:12	22° \mathfrak{Y} 06'36	1°34'46
morning rise	-12305 Feb 09 j 16:38	13° \mathfrak{M} 04'28		max. Earth dist.	-12300 Jul 09 j 20:18	21° \mathfrak{Y} 53'41	6.31806 AU
	-12305 Feb 18 j 03:44	15° \mathfrak{M}		morning rise	-12300 Jul 23 j 03:54	24° \mathfrak{Y} 53'39	
	-12305 May 10 j 15:15	0° \mathfrak{X}			-12300 Aug 15 j 11:49	0° \mathfrak{B}	
retrograde	-12305 Jun 16 j 21:49	2° \mathfrak{X} 13'22		retrograde	-12300 Nov 23 j 17:12	12° \mathfrak{B} 39'41	
	-12305 Jul 23 j 22:31	30° \mathfrak{R} \mathfrak{M}		opposition	-12299 Jan 24 j 04:11	7° \mathfrak{B} 46'35	2°32'53
opposition	-12305 Aug 14 j 19:41	27° \mathfrak{M} 11'21	-2°34'46	min. Earth dist.	-12299 Jan 24 j 18:18	7° \mathfrak{B} 42'07	4.29621 AU
min. Earth dist.	-12305 Aug 14 j 10:49	27° \mathfrak{M} 14'23	4.14195 AU	direct	-12299 Mar 27 j 01:02	2° \mathfrak{B} 51'04	
direct	-12305 Oct 13 j 03:16	22° \mathfrak{M} 08'19			-12299 Jul 02 j 19:25	15° \mathfrak{B}	
	-12305 Dec 27 j 03:58	0° \mathfrak{X}		evening set	-12299 Jul 29 j 12:34	20° \mathfrak{B} 52'28	
evening set	-12304 Feb 18 j 20:39	11° \mathfrak{X} 15'26					
				conjunction	-12299 Aug 10 j 20:41	23° \mathfrak{B} 41'11	1°46'03
conjunction	-12304 Mar 03 j 11:44	14° \mathfrak{X} 20'58	-1°35'33	minimum elong	-12299 Aug 10 j 20:41	23° \mathfrak{B} 41'11	1°46'38
minimum elong	-12304 Mar 03 j 11:48	14° \mathfrak{X} 21'01	1°36'15	max. Earth dist.	-12299 Aug 10 j 06:46	23° \mathfrak{B} 33'14	6.26425 AU
max. Earth dist.	-12304 Mar 03 j 16:25	14° \mathfrak{X} 23'38	6.17806 AU	morning rise	-12299 Aug 23 j 05:32	26° \mathfrak{B} 30'21	
morning rise	-12304 Mar 17 j 01:03	17° \mathfrak{X} 25'30			-12299 Sep 07 j 20:10	0° \mathfrak{I}	
	-12304 May 17 j 15:05	0° \mathfrak{Z}		retrograde	-12299 Dec 27 j 16:11	14° \mathfrak{I} 54'15	
retrograde	-12304 Jul 19 j 02:35	5° \mathfrak{Z} 47'55		opposition	-12298 Feb 27 j 08:21	9° \mathfrak{I} 58'16	2°26'53
opposition	-12304 Sep 16 j 01:08	0° \mathfrak{Z} 49'38	-1°57'10	min. Earth dist.	-12298 Feb 27 j 12:22	9° \mathfrak{I} 56'59	4.22960 AU
min. Earth dist.	-12304 Sep 16 j 03:43	0° \mathfrak{Z} 48'45	4.21751 AU	direct	-12298 Apr 29 j 03:18	5° \mathfrak{I} 04'51	
	-12304 Sep 22 j 05:21	30° \mathfrak{R} \mathfrak{X}		evening set	-12298 Aug 30 j 08:04	23° \mathfrak{I} 15'08	
direct	-12304 Nov 15 j 14:58	25° \mathfrak{X} 45'21					
	-12303 Jan 08 j 20:46	0° \mathfrak{Z}		conjunction	-12298 Sep 11 j 21:45	26° \mathfrak{I} 09'14	1°25'07
evening set	-12303 Mar 24 j 21:34	14° \mathfrak{Z} 33'16		minimum elong	-12298 Sep 11 j 21:51	26° \mathfrak{I} 09'17	1°25'51
				max. Earth dist.	-12298 Sep 12 j 00:07	26° \mathfrak{I} 10'36	6.19075 AU
conjunction	-12303 Apr 07 j 08:03	17° \mathfrak{Z} 33'57	-0°55'57	morning rise	-12298 Sep 24 j 13:40	29° \mathfrak{I} 04'41	
minimum elong	-12303 Apr 07 j 08:08	17° \mathfrak{Z} 34'00	0°56'39		-12298 Sep 28 j 14:18	0° \mathfrak{D}	
max. Earth dist.	-12303 Apr 06 j 20:52	17° \mathfrak{Z} 27'40	6.25430 AU	retrograde	-12297 Jan 31 j 20:50	18° \mathfrak{D} 10'27	

Attention, astronomical year style is used: The year -12297 in astronomical counting style is the year 12298 BCE in historical counting style.

opposition	-12297 Apr 03 j 06:13	13° \mathfrak{D} 10'49	1°33'21	direct	-12292 Nov 20 j 05:38	0° \mathfrak{Z} 22'48	
min. Earth dist.	-12297 Apr 02 j 23:35	13° \mathfrak{D} 12'59	4.15409 AU	evening set	-12291 Mar 29 j 13:52	19° \mathfrak{Z} 08'31	
direct	-12297 Jun 01 j 20:30	8° \mathfrak{D} 17'56					
evening set	-12297 Oct 02 j 12:58	26° \mathfrak{D} 43'50		conjunction	-12291 Apr 11 j 23:24	22° \mathfrak{Z} 08'36	-0°48'49
				minimum elong	-12291 Apr 11 j 23:28	22° \mathfrak{Z} 08'39	0°49'30
conjunction	-12297 Oct 15 j 12:56	29° \mathfrak{D} 45'37	0°35'48	max. Earth dist.	-12291 Apr 11 j 08:58	22° \mathfrak{Z} 00'31	6.26094 AU
minimum elong	-12297 Oct 15 j 13:00	29° \mathfrak{D} 45'39	0°36'27	morning rise	-12291 Apr 25 j 05:51	25° \mathfrak{Z} 07'01	
max. Earth dist.	-12297 Oct 16 j 05:13	29° \mathfrak{D} 55'07	6.12071 AU		-12291 May 17 j 14:39	0° \mathfrak{Z}	
	-12297 Oct 16 j 13:35	0° \mathfrak{D}		retrograde	-12291 Aug 24 j 16:11	12° \mathfrak{Z} 46'09	
morning rise	-12297 Oct 28 j 16:39	2° \mathfrak{D} 49'23		opposition	-12291 Oct 23 j 04:03	7° \mathfrak{Z} 51'51	-0°31'59
	-12297 Dec 25 j 02:29	15° \mathfrak{D}		min. Earth dist.	-12291 Oct 23 j 17:40	7° \mathfrak{Z} 47'23	4.29123 AU
retrograde	-12296 Mar 07 j 18:41	22° \mathfrak{D} 28'40		direct	-12291 Dec 23 j 23:44	2° \mathfrak{Z} 48'24	
opposition	-12296 May 07 j 13:35	17° \mathfrak{D} 25'34	0°06'10	asc. node	-12290 Mar 19 j 02:04	12° \mathfrak{Z} 05'54	
min. Earth dist.	-12296 May 06 j 21:19	17° \mathfrak{D} 30'59	4.09458 AU		-12290 Apr 02 j 18:35	15° \mathfrak{Z}	
	-12296 May 26 j 15:56	15° \mathfrak{R} \mathfrak{D}		evening set	-12290 May 01 j 17:31	21° \mathfrak{Z} 12'51	
desc. node	-12296 Jun 02 j 06:20	14° \mathfrak{D} 17'00					
direct	-12296 Jul 05 j 03:29	12° \mathfrak{D} 31'13		conjunction	-12290 May 14 j 19:11	24° \mathfrak{Z} 07'37	0°08'22
	-12296 Aug 13 j 06:18	15° \mathfrak{D}		minimum elong	-12290 May 14 j 19:11	24° \mathfrak{Z} 07'36	0°07'54
	-12296 Oct 30 j 23:50	0° \mathfrak{D}		behind sun begin	-12290 May 14 j 11:56	24° \mathfrak{Z} 03'35	
evening set	-12296 Nov 05 j 13:27	1° \mathfrak{D} 17'24		behind sun end	-12290 May 15 j 02:25	24° \mathfrak{Z} 11'38	
				max. Earth dist.	-12290 May 13 j 19:29	23° \mathfrak{Z} 54'23	6.31411 AU
conjunction	-12296 Nov 18 j 23:54	4° \mathfrak{D} 25'40	-0°26'58	morning rise	-12290 May 27 j 17:19	27° \mathfrak{Z} 00'36	
minimum elong	-12296 Nov 18 j 23:51	4° \mathfrak{D} 25'38	0°26'37		-12290 Jun 10 j 08:14	0° \mathfrak{Z}	
max. Earth dist.	-12296 Nov 20 j 04:01	4° \mathfrak{D} 42'06	6.07752 AU	retrograde	-12290 Sep 25 j 09:40	14° \mathfrak{Z} 21'39	
morning rise	-12296 Dec 02 j 13:35	7° \mathfrak{D} 35'42		opposition	-12290 Nov 24 j 15:57	9° \mathfrak{Z} 29'28	0°52'37
retrograde	-12295 Apr 12 j 21:10	27° \mathfrak{D} 28'13		min. Earth dist.	-12290 Nov 25 j 09:50	9° \mathfrak{Z} 23'43	4.32854 AU
opposition	-12295 Jun 11 j 19:13	22° \mathfrak{D} 23'21	-1°24'46	direct	-12289 Jan 26 j 01:14	4° \mathfrak{Z} 28'19	
min. Earth dist.	-12295 Jun 11 j 00:47	22° \mathfrak{D} 29'37	4.07201 AU	evening set	-12289 Jun 02 j 14:41	22° \mathfrak{Z} 36'56	
direct	-12295 Aug 09 j 00:12	17° \mathfrak{D} 26'03		max. Earth dist.	-12289 Jun 14 j 04:10	25° \mathfrak{Z} 11'54	6.33230 AU
	-12295 Nov 13 j 05:03	0° \mathfrak{D}					
evening set	-12295 Dec 12 j 04:23	6° \mathfrak{D} 30'58		conjunction	-12289 Jun 15 j 06:57	25° \mathfrak{Z} 26'54	1°02'15
				minimum elong	-12289 Jun 15 j 06:52	25° \mathfrak{Z} 26'51	1°02'10
conjunction	-12295 Dec 25 j 20:22	9° \mathfrak{D} 41'29	-1°20'32	morning rise	-12289 Jun 27 j 20:38	28° \mathfrak{Z} 15'35	
minimum elong	-12295 Dec 25 j 20:16	9° \mathfrak{D} 41'25	1°20'38		-12289 Jul 05 j 17:22	0° \mathfrak{Z}	
max. Earth dist.	-12295 Dec 27 j 00:03	9° \mathfrak{D} 57'35	6.07657 AU	retrograde	-12289 Oct 27 j 12:55	15° \mathfrak{Z} 41'33	
morning rise	-12294 Jan 08 j 14:25	12° \mathfrak{D} 52'58		opposition	-12289 Dec 27 j 11:58	10° \mathfrak{Z} 49'42	2°01'16
	-12294 Apr 08 j 03:20	0° \mathfrak{D}		min. Earth dist.	-12289 Dec 28 j 06:35	10° \mathfrak{Z} 43'48	4.32731 AU
retrograde	-12294 May 18 j 06:11	2° \mathfrak{D} 31'53		direct	-12288 Feb 27 j 21:45	5° \mathfrak{Z} 51'37	
	-12294 Jun 27 j 01:39	30° \mathfrak{R} \mathfrak{D}		evening set	-12288 Jul 02 j 19:15	23° \mathfrak{Z} 52'42	
opposition	-12294 Jul 16 j 12:03	27° \mathfrak{D} 27'37	-2°24'51	max. Earth dist.	-12288 Jul 14 j 06:27	26° \mathfrak{Z} 27'47	6.31050 AU
min. Earth dist.	-12294 Jul 15 j 20:15	27° \mathfrak{D} 33'01	4.09417 AU				
direct	-12294 Sep 13 j 00:27	22° \mathfrak{D} 26'54		conjunction	-12288 Jul 15 j 04:38	26° \mathfrak{Z} 40'18	1°37'59
	-12294 Nov 24 j 06:28	0° \mathfrak{D}		minimum elong	-12288 Jul 15 j 04:33	26° \mathfrak{Z} 40'16	1°38'17
evening set	-12293 Jan 18 j 08:22	11° \mathfrak{D} 39'41		morning rise	-12288 Jul 27 j 12:59	29° \mathfrak{Z} 27'27	
					-12288 Oct 29 j 23:02	0° \mathfrak{Z}	
conjunction	-12293 Feb 01 j 01:13	14° \mathfrak{D} 48'29	-1°44'39		-12288 Oct 20 j 00:27	15° \mathfrak{Z}	
minimum elong	-12293 Feb 01 j 01:12	14° \mathfrak{D} 48'28	1°45'10	retrograde	-12288 Nov 28 j 10:54	17° \mathfrak{Z} 18'37	
	-12293 Feb 01 j 21:14	15° \mathfrak{D}			-12287 Jan 07 j 11:10	15° \mathfrak{R} \mathfrak{Z}	
max. Earth dist.	-12293 Feb 01 j 19:01	14° \mathfrak{D} 58'43	6.11862 AU	opposition	-12287 Jan 28 j 23:44	12° \mathfrak{Z} 25'10	2°34'56
morning rise	-12293 Feb 14 j 17:59	17° \mathfrak{D} 57'07		min. Earth dist.	-12287 Jan 29 j 11:33	12° \mathfrak{Z} 21'25	4.28761 AU
	-12293 Apr 13 j 05:12	0° \mathfrak{Z}		direct	-12287 Mar 31 j 16:41	7° \mathfrak{Z} 30'02	
retrograde	-12293 Jun 21 j 13:22	6° \mathfrak{Z} 59'26			-12287 Jun 13 j 17:36	15° \mathfrak{Z}	
opposition	-12293 Aug 19 j 10:02	1° \mathfrak{Z} 57'52	-2°32'29	evening set	-12287 Aug 03 j 00:03	25° \mathfrak{Z} 32'17	
min. Earth dist.	-12293 Aug 19 j 03:56	1° \mathfrak{Z} 59'57	4.15247 AU				
	-12293 Sep 03 j 05:24	30° \mathfrak{R} \mathfrak{D}		conjunction	-12287 Aug 15 j 08:37	28° \mathfrak{Z} 21'30	1°45'02
direct	-12293 Oct 17 j 22:23	26° \mathfrak{D} 54'31		minimum elong	-12287 Aug 15 j 08:38	28° \mathfrak{Z} 21'31	1°45'39
	-12293 Dec 01 j 22:15	0° \mathfrak{Z}		max. Earth dist.	-12287 Aug 14 j 22:35	28° \mathfrak{Z} 15'46	6.25528 AU
evening set	-12292 Feb 23 j 18:02	15° \mathfrak{Z} 59'25			-12287 Aug 22 j 12:48	0° \mathfrak{D}	
				morning rise	-12287 Aug 27 j 17:52	1° \mathfrak{D} 11'15	
conjunction	-12292 Mar 08 j 08:46	19° \mathfrak{Z} 04'24	-1°31'43	retrograde	-12286 Jan 01 j 15:12	19° \mathfrak{D} 40'35	
minimum elong	-12292 Mar 08 j 08:51	19° \mathfrak{Z} 04'27	1°32'27	opposition	-12286 Mar 04 j 06:25	14° \mathfrak{D} 44'09	2°22'00
max. Earth dist.	-12292 Mar 08 j 11:03	19° \mathfrak{Z} 05'42	6.18806 AU	min. Earth dist.	-12286 Mar 04 j 09:18	14° \mathfrak{D} 43'13	4.22074 AU
morning rise	-12292 Mar 21 j 21:22	22° \mathfrak{Z} 08'14		direct	-12286 May 03 j 22:10	9° \mathfrak{D} 50'56	
	-12292 Apr 27 j 06:41	0° \mathfrak{Z}		evening set	-12286 Sep 03 j 22:50	28° \mathfrak{D} 02'18	
retrograde	-12292 Jul 23 j 12:41	10° \mathfrak{Z} 24'53			-12286 Sep 12 j 10:41	0° \mathfrak{D}	
opposition	-12292 Sep 20 j 13:11	5° \mathfrak{Z} 27'06	-1°48'42				
min. Earth dist.	-12292 Sep 20 j 16:40	5° \mathfrak{Z} 25'56	4.22609 AU	conjunction	-12286 Sep 16 j 13:35	0° \mathfrak{D} 57'16	1°19'37

Attention, astronomical year style is used: The year -12286 in astronomical counting style is the year 12287 BCE in historical counting style.

minimum elong	-12286 Sep 16 j 13:40	0° \mathfrak{D} 57'19	1°20'22	opposition	-12280 Sep 25 j 02:53	10° \mathfrak{Z} 08'43	-1°39'26
max. Earth dist.	-12286 Sep 16 j 17:06	0° \mathfrak{D} 59'18	6.18264 AU	min. Earth dist.	-12280 Sep 25 j 08:50	10° \mathfrak{Z} 06'44	4.23415 AU
morning rise	-12286 Sep 29 j 07:07	3° \mathfrak{D} 53'45		direct	-12280 Nov 25 j 00:25	5° \mathfrak{Z} 04'23	
retrograde	-12285 Feb 05 j 20:18	23° \mathfrak{D} 03'57		evening set	-12279 Apr 03 j 07:17	23° \mathfrak{Z} 47'51	
opposition	-12285 Apr 08 j 05:17	18° \mathfrak{D} 03'45	1°22'32				
min. Earth dist.	-12285 Apr 07 j 20:18	18° \mathfrak{D} 06'41	4.14708 AU	conjunction	-12279 Apr 16 j 16:06	26° \mathfrak{Z} 47'22	-0°41'17
direct	-12285 Jun 06 j 15:03	13° \mathfrak{D} 10'47		minimum elong	-12279 Apr 16 j 16:11	26° \mathfrak{Z} 47'24	0°41'57
	-12285 Sep 30 j 05:52	0° \mathfrak{D}		max. Earth dist.	-12279 Apr 16 j 01:01	26° \mathfrak{Z} 38'54	6.26776 AU
evening set	-12285 Oct 07 j 08:14	1° \mathfrak{D} 38'18		morning rise	-12279 Apr 29 j 21:27	29° \mathfrak{Z} 45'06	
					-12279 May 01 j 00:13	0° \mathfrak{Z}	
conjunction	-12285 Oct 20 j 09:53	4° \mathfrak{D} 41'01	0°27'21		-12279 Jul 21 j 08:33	15° \mathfrak{Z}	
minimum elong	-12285 Oct 20 j 09:56	4° \mathfrak{D} 41'02	0°27'57	retrograde	-12279 Aug 29 j 02:26	17° \mathfrak{Z} 21'07	
max. Earth dist.	-12285 Oct 21 j 05:27	4° \mathfrak{D} 52'26	6.11555 AU		-12279 Oct 07 j 05:02	15° \mathfrak{R}	
morning rise	-12285 Nov 02 j 15:00	7° \mathfrak{D} 45'42		opposition	-12279 Oct 27 j 17:17	12° \mathfrak{Z} 27'13	-0°20'01
	-12285 Dec 05 j 00:20	15° \mathfrak{D}		min. Earth dist.	-12279 Oct 28 j 06:53	12° \mathfrak{Z} 22'46	4.29634 AU
retrograde	-12284 Mar 12 j 20:37	27° \mathfrak{D} 27'12		direct	-12279 Dec 28 j 14:31	7° \mathfrak{Z} 24'01	
desc. node	-12284 Apr 12 j 17:39	25° \mathfrak{D} 57'36		asc. node	-12278 Jan 27 j 04:15	8° \mathfrak{Z} 41'42	
opposition	-12284 May 12 j 12:20	22° \mathfrak{D} 23'47	-0°07'07		-12278 Mar 14 j 14:06	15° \mathfrak{Z}	
min. Earth dist.	-12284 May 11 j 20:18	22° \mathfrak{D} 29'09	4.09160 AU	evening set	-12278 May 06 j 06:47	25° \mathfrak{Z} 46'35	
direct	-12284 Jul 10 j 01:08	17° \mathfrak{D} 29'08		max. Earth dist.	-12278 May 18 j 05:47	28° \mathfrak{Z} 26'32	6.31725 AU
	-12284 Oct 13 j 18:26	0° \mathfrak{D}					
evening set	-12284 Nov 10 j 14:06	6° \mathfrak{D} 17'17		conjunction	-12278 May 19 j 07:04	28° \mathfrak{Z} 40'40	0°16'29
				minimum elong	-12278 May 19 j 07:02	28° \mathfrak{Z} 40'39	0°16'05
conjunction	-12284 Nov 24 j 01:27	9° \mathfrak{D} 25'59	-0°35'30		-12278 May 25 j 05:01	0° \mathfrak{H}	
minimum elong	-12284 Nov 24 j 01:23	9° \mathfrak{D} 25'57	0°35'13	morning rise	-12278 Jun 01 j 04:08	1° \mathfrak{H} 33'04	
max. Earth dist.	-12284 Nov 25 j 05:00	9° \mathfrak{D} 42'05	6.07693 AU	retrograde	-12278 Sep 29 j 22:51	18° \mathfrak{H} 53'57	
morning rise	-12284 Dec 07 j 16:14	12° \mathfrak{D} 36'27		opposition	-12278 Nov 29 j 06:34	14° \mathfrak{H} 01'56	1°03'44
	-12283 Mar 08 j 21:08	0° \mathfrak{D}		min. Earth dist.	-12278 Nov 30 j 01:28	13° \mathfrak{H} 55'52	4.32966 AU
retrograde	-12283 Apr 17 j 19:20	2° \mathfrak{D} 27'55		direct	-12277 Jan 30 j 17:46	9° \mathfrak{H} 01'10	
	-12283 May 27 j 10:15	30° \mathfrak{R}		evening set	-12277 Jun 07 j 01:03	27° \mathfrak{H} 08'26	
opposition	-12283 Jun 16 j 15:44	27° \mathfrak{D} 23'02	-1°35'38				
min. Earth dist.	-12283 Jun 15 j 20:42	27° \mathfrak{D} 29'31	4.07415 AU	conjunction	-12277 Jun 19 j 16:14	29° \mathfrak{H} 57'56	1°08'40
direct	-12283 Aug 13 j 20:17	22° \mathfrak{D} 25'16		minimum elong	-12277 Jun 19 j 16:09	29° \mathfrak{H} 57'53	1°08'38
	-12283 Oct 24 j 12:30	0° \mathfrak{D}		max. Earth dist.	-12277 Jun 18 j 14:34	29° \mathfrak{H} 43'32	6.33130 AU
evening set	-12283 Dec 17 j 08:00	11° \mathfrak{D} 31'39			-12277 Jun 19 j 19:56	0° \mathfrak{Y}	
				morning rise	-12277 Jul 02 j 04:51	2° \mathfrak{Y} 46'12	
conjunction	-12283 Dec 31 j 00:22	14° \mathfrak{D} 42'05	-1°25'57	retrograde	-12277 Nov 01 j 01:50	20° \mathfrak{Y} 14'29	
minimum elong	-12283 Dec 31 j 00:16	14° \mathfrak{D} 42'01	1°26'07	opposition	-12276 Jan 01 j 04:17	15° \mathfrak{Y} 22'28	2°08'27
max. Earth dist.	-12282 Jan 01 j 02:59	14° \mathfrak{D} 57'32	6.08117 AU	min. Earth dist.	-12276 Jan 01 j 21:01	15° \mathfrak{Y} 17'09	4.32464 AU
morning rise	-12282 Jan 13 j 18:25	17° \mathfrak{D} 53'18		direct	-12276 Mar 03 j 11:37	10° \mathfrak{Y} 24'49	
	-12282 Mar 11 j 20:22	0° \mathfrak{M}		evening set	-12276 Jul 07 j 04:39	28° \mathfrak{Y} 25'09	
retrograde	-12282 May 23 j 02:54	7° \mathfrak{M} 28'08			-12276 Jul 14 j 05:03	0° \mathfrak{Z}	
opposition	-12282 Jul 21 j 06:07	2° \mathfrak{M} 24'08	-2°29'13				
min. Earth dist.	-12282 Jul 20 j 16:27	2° \mathfrak{M} 28'49	4.10081 AU	conjunction	-12276 Jul 19 j 13:25	1° \mathfrak{Z} 12'37	1°40'50
	-12282 Aug 08 j 13:31	30° \mathfrak{R}		minimum elong	-12276 Jul 19 j 13:22	1° \mathfrak{Z} 12'34	1°41'13
direct	-12282 Sep 17 j 21:53	27° \mathfrak{D} 22'59		max. Earth dist.	-12276 Jul 18 j 17:24	1° \mathfrak{Z} 01'17	6.30628 AU
	-12282 Oct 28 j 11:23	0° \mathfrak{M}		morning rise	-12276 Jul 31 j 21:23	3° \mathfrak{Z} 59'45	
	-12281 Jan 16 j 10:38	15° \mathfrak{M}			-12276 Sep 23 j 05:47	15° \mathfrak{Z}	
evening set	-12281 Jan 23 j 10:53	16° \mathfrak{M} 35'34		retrograde	-12276 Dec 03 j 04:59	21° \mathfrak{Z} 54'49	
				opposition	-12275 Feb 02 j 18:12	17° \mathfrak{Z} 01'01	2°35'59
conjunction	-12281 Feb 06 j 03:42	19° \mathfrak{M} 43'58	-1°45'02	min. Earth dist.	-12275 Feb 03 j 05:34	16° \mathfrak{Z} 57'25	4.28207 AU
minimum elong	-12281 Feb 06 j 03:42	19° \mathfrak{M} 43'58	1°45'35		-12275 Feb 19 j 03:56	15° \mathfrak{R}	
max. Earth dist.	-12281 Feb 06 j 19:55	19° \mathfrak{M} 53'17	6.12670 AU	direct	-12275 Apr 05 j 09:18	12° \mathfrak{Z} 06'11	
morning rise	-12281 Feb 19 j 20:01	22° \mathfrak{M} 52'03			-12275 May 19 j 15:18	15° \mathfrak{Z}	
	-12281 Mar 24 j 05:08	0° \mathfrak{Z}			-12275 Aug 06 j 19:33	0° \mathfrak{I}	
retrograde	-12281 Jun 26 j 04:16	11° \mathfrak{Z} 48'29		evening set	-12275 Aug 07 j 09:59	0° \mathfrak{I} 08'12	
opposition	-12281 Aug 24 j 01:23	6° \mathfrak{Z} 47'25	-2°29'11				
min. Earth dist.	-12281 Aug 23 j 19:58	6° \mathfrak{Z} 49'16	4.16130 AU	conjunction	-12275 Aug 19 j 18:54	2° \mathfrak{I} 57'50	1°43'23
direct	-12281 Oct 22 j 15:58	1° \mathfrak{Z} 43'51		minimum elong	-12275 Aug 19 j 18:56	2° \mathfrak{I} 57'51	1°44'01
evening set	-12280 Feb 28 j 16:36	20° \mathfrak{Z} 47'02		max. Earth dist.	-12275 Aug 19 j 09:58	2° \mathfrak{I} 52'44	6.24876 AU
				morning rise	-12275 Sep 01 j 04:59	5° \mathfrak{I} 48'11	
conjunction	-12280 Mar 13 j 06:42	23° \mathfrak{Z} 51'27	-1°27'14	retrograde	-12274 Jan 06 j 09:54	24° \mathfrak{I} 22'03	
minimum elong	-12280 Mar 13 j 06:47	23° \mathfrak{Z} 51'30	1°27'58	opposition	-12274 Mar 09 j 02:19	19° \mathfrak{I} 25'02	2°16'14
max. Earth dist.	-12280 Mar 13 j 05:03	23° \mathfrak{Z} 50'31	6.19697 AU	min. Earth dist.	-12274 Mar 09 j 02:40	19° \mathfrak{I} 24'55	4.21359 AU
morning rise	-12280 Mar 26 j 18:45	26° \mathfrak{Z} 54'40		direct	-12274 May 08 j 13:20	14° \mathfrak{I} 31'56	
	-12280 Apr 09 j 15:44	0° \mathfrak{Z}			-12274 Aug 27 j 11:48	0° \mathfrak{D}	
retrograde	-12280 Jul 28 j 02:00	15° \mathfrak{Z} 05'58		evening set	-12274 Sep 08 j 11:31	2° \mathfrak{D} 43'56	

Attention, astronomical year style is used: The year -12274 in astronomical counting style is the year 12275 BCE in historical counting style.

conjunction	-12274 Sep 21 j 03:38	5° \mathfrak{D} 39'46	1°13'41	retrograde	-12268 Aug 01 j 15:04	19° \mathfrak{Z} 48'26	
minimum elong	-12274 Sep 21 j 03:44	5° \mathfrak{D} 39'49	1°14'26	opposition	-12268 Sep 29 j 17:29	14° \mathfrak{Z} 51'44	-1°29'27
max. Earth dist.	-12274 Sep 21 j 10:12	5° \mathfrak{D} 43'34	6.17554 AU	min. Earth dist.	-12268 Sep 29 j 23:50	14° \mathfrak{Z} 49'37	4.24226 AU
morning rise	-12274 Oct 03 j 22:27	8° \mathfrak{D} 37'11		direct	-12268 Nov 29 j 17:55	9° \mathfrak{Z} 47'32	
retrograde	-12273 Feb 10 j 19:26	27° \mathfrak{D} 51'25		evening set	-12267 Apr 08 j 01:09	28° \mathfrak{Z} 28'26	
opposition	-12273 Apr 13 j 01:55	22° \mathfrak{D} 50'43	1°11'20		-12267 Apr 14 j 21:11	0° \approx	
min. Earth dist.	-12273 Apr 12 j 16:51	22° \mathfrak{D} 53'41	4.14031 AU				
direct	-12273 Jun 11 j 09:36	17° \mathfrak{D} 57'36		conjunction	-12267 Apr 21 j 08:49	1° \approx 27'13	-0°33'25
	-12273 Sep 13 j 10:20	0° \mathfrak{D}		minimum elong	-12267 Apr 21 j 08:52	1° \approx 27'15	0°34'04
evening set	-12273 Oct 12 j 02:00	6° \mathfrak{D} 26'57		max. Earth dist.	-12267 Apr 20 j 15:09	1° \approx 17'19	6.27553 AU
				morning rise	-12267 May 04 j 13:16	4° \approx 24'15	
conjunction	-12273 Oct 25 j 04:59	9° \mathfrak{D} 30'33	0°18'51		-12267 Jun 25 j 00:30	15° \approx	
minimum elong	-12273 Oct 25 j 05:01	9° \mathfrak{D} 30'34	0°19'26	retrograde	-12267 Sep 02 j 15:00	21° \approx 56'59	
max. Earth dist.	-12273 Oct 26 j 00:39	9° \mathfrak{D} 42'02	6.10975 AU	opposition	-12267 Nov 01 j 07:28	17° \approx 03'25	-0°07'52
morning rise	-12273 Nov 07 j 11:46	12° \mathfrak{D} 36'11		min. Earth dist.	-12267 Nov 01 j 22:29	16° \approx 58'31	4.30302 AU
	-12273 Nov 17 j 22:01	15° \mathfrak{D}			-12267 Nov 17 j 13:46	15° \mathfrak{R} \approx	
	-12272 Feb 07 j 13:40	0° \mathfrak{D}		asc. node	-12267 Dec 07 j 06:07	13° \approx 02'09	
desc. node	-12272 Feb 22 j 14:21	1° \mathfrak{D} 24'59		direct	-12266 Jan 02 j 08:26	12° \approx 00'28	
retrograde	-12272 Mar 17 j 18:18	2° \mathfrak{D} 19'57			-12266 Feb 17 j 02:34	15° \approx	
	-12272 Apr 25 j 18:31	30° \mathfrak{R} \mathfrak{D}			-12266 May 09 j 07:04	0° \mathfrak{H}	
opposition	-12272 May 17 j 08:22	27° \mathfrak{D} 16'14	-0°20'08	evening set	-12266 May 10 j 19:45	0° \mathfrak{H} 20'18	
min. Earth dist.	-12272 May 16 j 15:09	27° \mathfrak{D} 22'00	4.08734 AU				
direct	-12272 Jul 14 j 18:20	22° \mathfrak{D} 21'12		conjunction	-12266 May 23 j 18:53	3° \mathfrak{H} 13'39	0°24'33
	-12272 Sep 24 j 14:58	0° \mathfrak{D}		minimum elong	-12266 May 23 j 18:50	3° \mathfrak{H} 13'38	0°24'12
evening set	-12272 Nov 15 j 13:17	11° \mathfrak{D} 12'09		max. Earth dist.	-12266 May 22 j 18:41	3° \mathfrak{H} 00'08	6.32228 AU
				morning rise	-12266 Jun 05 j 14:31	6° \mathfrak{H} 05'17	
conjunction	-12272 Nov 29 j 01:42	14° \mathfrak{D} 21'24	-0°43'39	retrograde	-12266 Oct 04 j 09:23	23° \mathfrak{H} 25'26	
minimum elong	-12272 Nov 29 j 01:37	14° \mathfrak{D} 21'21	0°43'27	opposition	-12266 Dec 03 j 20:45	18° \mathfrak{H} 33'32	1°14'28
max. Earth dist.	-12272 Nov 30 j 05:26	14° \mathfrak{D} 37'36	6.07450 AU	min. Earth dist.	-12266 Dec 04 j 14:49	18° \mathfrak{H} 27'45	4.33265 AU
morning rise	-12272 Dec 12 j 17:13	17° \mathfrak{D} 32'16		direct	-12265 Feb 04 j 07:42	13° \mathfrak{H} 33'11	
	-12271 Feb 09 j 09:18	0° \mathfrak{D}			-12265 Jun 04 j 00:36	0° \mathfrak{Y}	
retrograde	-12271 Apr 22 j 18:19	7° \mathfrak{D} 23'32		evening set	-12265 Jun 11 j 10:46	1° \mathfrak{Y} 38'30	
opposition	-12271 Jun 21 j 10:56	2° \mathfrak{D} 18'38	-1°45'40	max. Earth dist.	-12265 Jun 22 j 22:31	4° \mathfrak{Y} 12'45	6.33165 AU
min. Earth dist.	-12271 Jun 20 j 17:21	2° \mathfrak{D} 24'38	4.07382 AU				
	-12271 Jul 09 j 02:38	30° \mathfrak{R} \mathfrak{D}		conjunction	-12265 Jun 24 j 00:37	4° \mathfrak{Y} 27'24	1°14'40
direct	-12271 Aug 18 j 16:46	27° \mathfrak{D} 20'24		minimum elong	-12265 Jun 24 j 00:32	4° \mathfrak{Y} 27'21	1°14'41
	-12271 Sep 28 j 04:52	0° \mathfrak{D}		morning rise	-12265 Jul 06 j 12:22	7° \mathfrak{Y} 15'15	
evening set	-12271 Dec 22 j 10:42	16° \mathfrak{D} 29'13		retrograde	-12265 Nov 05 j 16:37	24° \mathfrak{Y} 45'39	
				opposition	-12264 Jan 05 j 20:01	19° \mathfrak{Y} 53'29	2°14'51
conjunction	-12270 Jan 05 j 03:28	19° \mathfrak{D} 39'42	-1°30'41	min. Earth dist.	-12264 Jan 06 j 13:16	19° \mathfrak{Y} 48'02	4.32223 AU
minimum elong	-12270 Jan 05 j 03:21	19° \mathfrak{D} 39'38	1°30'55	direct	-12264 Mar 08 j 02:46	14° \mathfrak{Y} 56'13	
max. Earth dist.	-12270 Jan 06 j 05:31	19° \mathfrak{D} 54'49	6.08288 AU		-12264 Jun 28 j 08:16	0° \mathfrak{Z}	
morning rise	-12270 Jan 18 j 21:31	22° \mathfrak{D} 50'48		evening set	-12264 Jul 11 j 12:49	2° \mathfrak{Z} 55'49	
	-12270 Feb 20 j 00:09	0° \mathfrak{D}					
retrograde	-12270 May 27 j 21:51	12° \mathfrak{D} 22'30		conjunction	-12264 Jul 23 j 21:15	5° \mathfrak{Z} 43'17	1°43'07
opposition	-12270 Jul 25 j 23:33	7° \mathfrak{D} 18'52	-2°32'31	minimum elong	-12264 Jul 23 j 21:12	5° \mathfrak{Z} 43'15	1°43'31
min. Earth dist.	-12270 Jul 25 j 10:22	7° \mathfrak{D} 23'23	4.10473 AU	max. Earth dist.	-12264 Jul 23 j 02:29	5° \mathfrak{Z} 32'39	6.30103 AU
direct	-12270 Sep 22 j 16:20	2° \mathfrak{D} 17'22		morning rise	-12264 Aug 05 j 05:02	8° \mathfrak{Z} 30'33	
	-12270 Dec 30 j 03:58	15° \mathfrak{D}			-12264 Sep 04 j 00:58	15° \mathfrak{Z}	
evening set	-12269 Jan 28 j 13:38	21° \mathfrak{D} 30'47		retrograde	-12264 Dec 07 j 20:45	26° \mathfrak{Z} 30'06	
				opposition	-12263 Feb 07 j 11:52	21° \mathfrak{Z} 35'54	2°36'10
conjunction	-12269 Feb 11 j 06:09	24° \mathfrak{D} 38'52	-1°44'38	min. Earth dist.	-12263 Feb 07 j 21:14	21° \mathfrak{Z} 32'56	4.27441 AU
minimum elong	-12269 Feb 11 j 06:10	24° \mathfrak{D} 38'52	1°45'13	direct	-12263 Apr 09 j 22:35	16° \mathfrak{Z} 41'24	
max. Earth dist.	-12269 Feb 11 j 18:54	24° \mathfrak{D} 46'10	6.13240 AU		-12263 Jul 21 j 13:41	0° \mathfrak{D}	
morning rise	-12269 Feb 24 j 22:12	27° \mathfrak{D} 46'32		evening set	-12263 Aug 11 j 19:44	4° \mathfrak{D} 44'10	
	-12269 Mar 06 j 18:19	0° \mathfrak{Z}					
retrograde	-12269 Jun 30 j 20:41	16° \mathfrak{Z} 37'58		conjunction	-12263 Aug 24 j 05:14	7° \mathfrak{D} 34'26	1°41'07
opposition	-12269 Aug 28 j 17:15	11° \mathfrak{Z} 37'25	-2°24'51	minimum elong	-12263 Aug 24 j 05:17	7° \mathfrak{D} 34'28	1°41'47
min. Earth dist.	-12269 Aug 28 j 13:53	11° \mathfrak{Z} 38'34	4.16824 AU	max. Earth dist.	-12263 Aug 23 j 22:14	7° \mathfrak{D} 30'25	6.23925 AU
direct	-12269 Oct 27 j 12:33	6° \mathfrak{Z} 33'39		morning rise	-12263 Sep 05 j 16:06	10° \mathfrak{D} 25'32	
evening set	-12268 Mar 04 j 15:31	25° \mathfrak{Z} 35'38		retrograde	-12262 Jan 11 j 07:39	29° \mathfrak{D} 05'09	
				opposition	-12262 Mar 13 j 22:24	24° \mathfrak{D} 07'38	2°09'39
conjunction	-12268 Mar 18 j 05:18	28° \mathfrak{Z} 39'35	-1°22'07	min. Earth dist.	-12262 Mar 13 j 22:32	24° \mathfrak{D} 07'36	4.20265 AU
minimum elong	-12268 Mar 18 j 05:23	28° \mathfrak{Z} 39'39	1°22'50	direct	-12262 May 10 j 06:28	19° \mathfrak{D} 14'36	
max. Earth dist.	-12268 Mar 18 j 03:15	28° \mathfrak{Z} 38'26	6.20490 AU		-12262 Aug 10 j 06:11	0° \mathfrak{D}	
	-12268 Mar 24 j 03:20	0° \mathfrak{Z}		evening set	-12262 Sep 13 j 01:33	7° \mathfrak{D} 28'53	
morning rise	-12268 Mar 31 j 16:28	1° \mathfrak{Z} 42'10					

Attention, astronomical year style is used: The year -12262 in astronomical counting style is the year 12263 BCE in historical counting style.

conjunction	-12262 Sep 25 j 19:03	10° \mathfrak{D} 25'49	1°07'15	conjunction	-12256 Mar 23 j 04:17	3° \mathfrak{Z} 29'45	-1°16'26
minimum elong	-12262 Sep 25 j 19:08	10° \mathfrak{D} 25'52	1°07'58	minimum elong	-12256 Mar 23 j 04:23	3° \mathfrak{Z} 29'49	1°17'09
max. Earth dist.	-12262 Sep 26 j 02:40	10° \mathfrak{D} 30'15	6.16428 AU	max. Earth dist.	-12256 Mar 22 j 23:36	3° \mathfrak{Z} 27'06	6.21920 AU
morning rise	-12262 Oct 08 j 15:35	13° \mathfrak{D} 24'28		morning rise	-12256 Apr 05 j 14:43	6° \mathfrak{Z} 31'25	
	-12261 Jan 03 j 18:40	0° \mathfrak{Q}		retrograde	-12256 Aug 06 j 03:37	24° \mathfrak{Z} 30'24	
retrograde	-12261 Feb 15 j 18:15	2° \mathfrak{Q} 44'08		opposition	-12256 Oct 04 j 08:19	19° \mathfrak{Z} 34'08	-1°18'54
	-12261 Mar 30 j 21:37	30° \mathfrak{R} \mathfrak{D}		min. Earth dist.	-12256 Oct 04 j 15:52	19° \mathfrak{Z} 31'38	4.25700 AU
opposition	-12261 Apr 17 j 23:51	27° \mathfrak{D} 42'57	0°59'31	direct	-12256 Dec 04 j 13:48	14° \mathfrak{Z} 29'58	
min. Earth dist.	-12261 Apr 17 j 12:51	27° \mathfrak{D} 46'34	4.12954 AU		-12255 Mar 29 j 14:50	0° \mathfrak{X}	
direct	-12261 Jun 16 j 03:01	22° \mathfrak{D} 49'39		evening set	-12255 Apr 12 j 17:30	3° \mathfrak{X} 05'43	
	-12261 Aug 24 j 19:52	0° \mathfrak{Q}		max. Earth dist.	-12255 Apr 25 j 06:37	5° \mathfrak{X} 53'40	6.28980 AU
evening set	-12261 Oct 16 j 22:28	11° \mathfrak{Q} 22'32					
				conjunction	-12255 Apr 26 j 00:07	6° \mathfrak{X} 03'28	-0°25'28
conjunction	-12261 Oct 30 j 03:03	14° \mathfrak{Q} 27'14	0°10'04	minimum elong	-12255 Apr 26 j 00:09	6° \mathfrak{X} 03'29	0°26'05
minimum elong	-12261 Oct 30 j 03:04	14° \mathfrak{Q} 27'15	0°10'37	morning rise	-12255 May 09 j 03:10	8° \mathfrak{X} 59'23	
behind sun begin	-12261 Oct 29 j 20:43	14° \mathfrak{Q} 23'33			-12255 Jun 05 j 23:52	15° \mathfrak{X}	
behind sun end	-12261 Oct 30 j 09:25	14° \mathfrak{Q} 30'57		retrograde	-12255 Sep 06 j 23:50	26° \mathfrak{X} 26'52	
max. Earth dist.	-12261 Oct 31 j 00:17	14° \mathfrak{Q} 39'39	6.10047 AU	asc. node	-12255 Oct 18 j 04:22	23° \mathfrak{X} 52'52	
	-12261 Nov 01 j 11:05	15° \mathfrak{Q}		opposition	-12255 Nov 05 j 19:37	21° \mathfrak{X} 33'38	0°04'03
morning rise	-12261 Nov 12 j 11:19	17° \mathfrak{Q} 33'57		min. Earth dist.	-12255 Nov 06 j 10:57	21° \mathfrak{X} 28'39	4.31558 AU
desc. node	-12260 Jan 01 j 23:13	28° \mathfrak{Q} 29'03		direct	-12254 Jan 06 j 23:10	16° \mathfrak{X} 31'00	
	-12260 Jan 10 j 02:53	0° \mathfrak{P}			-12254 Apr 23 j 04:47	0° \mathfrak{X}	
retrograde	-12260 Mar 22 j 21:12	7° \mathfrak{P} 21'15		evening set	-12254 May 15 j 05:32	4° \mathfrak{X} 46'07	
opposition	-12260 May 22 j 07:23	2° \mathfrak{P} 17'12	-0°33'21	max. Earth dist.	-12254 May 27 j 00:40	7° \mathfrak{X} 23'41	6.33196 AU
min. Earth dist.	-12260 May 21 j 14:24	2° \mathfrak{P} 22'55	4.08023 AU				
	-12260 Jun 09 j 00:49	30° \mathfrak{R} \mathfrak{Q}		conjunction	-12254 May 28 j 03:06	7° \mathfrak{X} 38'26	0°32'14
direct	-12260 Jul 19 j 16:33	27° \mathfrak{Q} 21'44		minimum elong	-12254 May 28 j 03:03	7° \mathfrak{X} 38'25	0°31'56
	-12260 Aug 28 j 22:43	0° \mathfrak{P}		morning rise	-12254 Jun 09 j 21:37	10° \mathfrak{X} 29'11	
evening set	-12260 Nov 20 j 16:33	16° \mathfrak{P} 16'36		retrograde	-12254 Oct 08 j 18:17	27° \mathfrak{X} 47'33	
				opposition	-12254 Dec 08 j 07:56	22° \mathfrak{X} 55'42	1°24'23
conjunction	-12260 Dec 04 j 05:59	19° \mathfrak{P} 26'26	-0°51'44	min. Earth dist.	-12254 Dec 09 j 03:06	22° \mathfrak{X} 49'34	4.33883 AU
minimum elong	-12260 Dec 04 j 05:54	19° \mathfrak{P} 26'23	0°51'35	direct	-12253 Feb 08 j 20:12	17° \mathfrak{X} 55'41	
max. Earth dist.	-12260 Dec 05 j 10:38	19° \mathfrak{P} 43'11	6.07023 AU		-12253 May 18 j 23:43	0° \mathfrak{Y}	
morning rise	-12260 Dec 17 j 22:17	22° \mathfrak{P} 37'48		evening set	-12253 Jun 15 j 16:05	5° \mathfrak{Y} 58'05	
	-12259 Jan 19 j 20:30	0° \mathfrak{D}		max. Earth dist.	-12253 Jun 27 j 03:47	8° \mathfrak{Y} 32'16	6.33368 AU
retrograde	-12259 Apr 27 j 19:26	12° \mathfrak{D} 28'56					
opposition	-12259 Jun 26 j 09:20	7° \mathfrak{D} 24'06	-1°55'16	conjunction	-12253 Jun 28 j 04:59	8° \mathfrak{Y} 46'25	1°20'01
min. Earth dist.	-12259 Jun 25 j 15:30	7° \mathfrak{D} 30'11	4.07319 AU	minimum elong	-12253 Jun 28 j 04:54	8° \mathfrak{Y} 46'22	1°20'07
direct	-12259 Aug 23 j 14:24	2° \mathfrak{D} 25'26		morning rise	-12253 Jul 10 j 15:40	11° \mathfrak{Y} 33'45	
evening set	-12259 Dec 27 j 17:54	21° \mathfrak{D} 36'48		retrograde	-12253 Nov 10 j 01:14	29° \mathfrak{Y} 06'03	
				opposition	-12252 Jan 10 j 07:38	24° \mathfrak{Y} 13'45	2°20'14
conjunction	-12258 Jan 10 j 10:46	24° \mathfrak{D} 47'12	-1°34'55	min. Earth dist.	-12252 Jan 11 j 00:08	24° \mathfrak{Y} 08'32	4.32015 AU
minimum elong	-12258 Jan 10 j 10:40	24° \mathfrak{D} 47'09	1°35'13	direct	-12252 Mar 12 j 12:05	19° \mathfrak{Y} 16'55	
max. Earth dist.	-12258 Jan 11 j 10:44	25° \mathfrak{D} 01'06	6.08580 AU		-12252 Jun 12 j 00:46	0° \mathfrak{Z}	
morning rise	-12258 Jan 24 j 04:55	27° \mathfrak{D} 58'07		evening set	-12252 Jul 15 j 17:15	7° \mathfrak{Z} 15'58	
	-12258 Feb 02 j 02:05	0° \mathfrak{M}		max. Earth dist.	-12252 Jul 27 j 05:57	9° \mathfrak{Z} 52'33	6.29479 AU
	-12258 Apr 23 j 17:02	15° \mathfrak{M}					
retrograde	-12258 Jun 01 j 19:45	17° \mathfrak{M} 25'44		conjunction	-12252 Jul 28 j 01:15	10° \mathfrak{Z} 03'30	1°44'43
	-12258 Jul 10 j 15:44	15° \mathfrak{R} \mathfrak{M}		minimum elong	-12252 Jul 28 j 01:12	10° \mathfrak{Z} 03'29	1°45'09
opposition	-12258 Jul 30 j 20:20	12° \mathfrak{M} 22'25	-2°34'48	morning rise	-12252 Aug 09 j 09:04	12° \mathfrak{Z} 51'00	
min. Earth dist.	-12258 Jul 30 j 08:06	12° \mathfrak{M} 26'36	4.11125 AU		-12252 Aug 18 j 23:38	15° \mathfrak{Z}	
direct	-12258 Sep 27 j 16:33	7° \mathfrak{M} 20'32			-12252 Nov 17 j 16:32	0° \mathfrak{I}	
	-12258 Dec 09 j 23:11	15° \mathfrak{M}		retrograde	-12252 Dec 12 j 11:22	0° \mathfrak{I} 55'41	
evening set	-12257 Feb 02 j 19:08	26° \mathfrak{M} 33'22			-12251 Jan 06 j 06:06	30° \mathfrak{R} \mathfrak{Z}	
				opposition	-12251 Feb 12 j 01:56	26° \mathfrak{Z} 01'09	2°35'25
conjunction	-12257 Feb 16 j 11:36	29° \mathfrak{M} 40'58	-1°43'31	min. Earth dist.	-12251 Feb 12 j 11:34	25° \mathfrak{Z} 58'05	4.26439 AU
minimum elong	-12257 Feb 16 j 11:37	29° \mathfrak{M} 40'59	1°44'08	direct	-12251 Apr 14 j 09:58	21° \mathfrak{Z} 06'53	
max. Earth dist.	-12257 Feb 17 j 00:36	29° \mathfrak{M} 48'25	6.14235 AU		-12251 Jul 04 j 06:56	0° \mathfrak{I}	
	-12257 Feb 17 j 20:50	0° \mathfrak{X}		evening set	-12251 Aug 16 j 02:18	9° \mathfrak{I} 11'35	
morning rise	-12257 Mar 02 j 02:56	2° \mathfrak{X} 47'55					
retrograde	-12257 Jul 05 j 14:43	21° \mathfrak{X} 32'24		conjunction	-12251 Aug 28 j 12:40	12° \mathfrak{I} 02'43	1°38'19
opposition	-12257 Sep 02 j 11:18	16° \mathfrak{X} 32'23	-2°19'25	minimum elong	-12251 Aug 28 j 12:43	12° \mathfrak{I} 02'45	1°39'01
min. Earth dist.	-12257 Sep 02 j 08:31	16° \mathfrak{X} 33'20	4.18079 AU	max. Earth dist.	-12251 Aug 28 j 06:52	11° \mathfrak{I} 59'23	6.22639 AU
direct	-12257 Nov 01 j 10:41	11° \mathfrak{X} 28'31		morning rise	-12251 Sep 10 j 00:34	14° \mathfrak{I} 54'50	
	-12256 Mar 07 j 15:42	0° \mathfrak{Z}			-12251 Nov 26 j 11:24	0° \mathfrak{D}	
evening set	-12256 Mar 09 j 15:22	0° \mathfrak{Z} 26'41		retrograde	-12250 Jan 16 j 01:30	3° \mathfrak{D} 41'33	
					-12250 Mar 08 j 15:57	30° \mathfrak{R} \mathfrak{I}	

Attention, astronomical year style is used: The year -12250 in astronomical counting style is the year 12251 BCE in historical counting style.

opposition	-12250 Mar 18 j 15:53	28°II43'36	2°02'26	direct	-12245 Nov 06 j 07:21	16°X18'51	
min. Earth dist.	-12250 Mar 18 j 14:15	28°II44'08	4.18795 AU		-12244 Feb 19 j 15:39	0°Z	
direct	-12250 May 17 j 18:38	23°II50'42		evening set	-12244 Mar 14 j 12:52	5°Z13'28	
	-12250 Jul 21 j 13:41	0°E					
evening set	-12250 Sep 17 j 14:01	12°E08'57		conjunction	-12244 Mar 28 j 01:07	8°Z15'45	-1°10'20
				minimum elong	-12244 Mar 28 j 01:13	8°Z15'48	1°11'04
conjunction	-12250 Sep 30 j 09:00	15°E07'13	1°00'29	max. Earth dist.	-12244 Mar 27 j 18:57	8°Z12'16	6.23174 AU
minimum elong	-12250 Sep 30 j 09:06	15°E07'17	1°01'11	morning rise	-12244 Apr 10 j 10:33	11°Z16'31	
max. Earth dist.	-12250 Sep 30 j 18:10	15°E12'34	6.14917 AU	retrograde	-12244 Aug 10 j 16:09	29°Z09'23	
morning rise	-12250 Oct 13 j 07:13	18°E07'18		opposition	-12244 Oct 08 j 21:58	24°Z13'38	-1°08'02
	-12250 Dec 08 j 08:27	0°N		min. Earth dist.	-12244 Oct 09 j 07:07	24°Z10'36	4.26822 AU
retrograde	-12249 Feb 20 j 18:44	7°N34'04		direct	-12244 Dec 09 j 07:17	19°Z09'36	
opposition	-12249 Apr 22 j 20:43	2°N32'27	0°47'25		-12243 Mar 12 j 02:42	0°X	
min. Earth dist.	-12249 Apr 22 j 09:02	2°N36'18	4.11519 AU	evening set	-12243 Apr 17 j 08:37	7°X41'38	
	-12249 May 13 j 04:19	30°RZ					
direct	-12249 Jun 20 j 20:47	27°E38'58		conjunction	-12243 Apr 30 j 14:02	10°X38'33	-0°17'25
	-12249 Jul 29 j 00:30	0°N		minimum elong	-12243 Apr 30 j 14:04	10°X38'34	0°17'58
	-12249 Oct 16 j 06:15	15°N		max. Earth dist.	-12243 Apr 29 j 17:57	10°X27'20	6.29877 AU
evening set	-12249 Oct 21 j 19:03	16°N17'00		morning rise	-12243 May 13 j 16:02	13°X33'40	
					-12243 May 20 j 04:15	15°X	
conjunction	-12249 Nov 04 j 01:16	19°N22'58	0°01'15		-12243 Aug 17 j 17:51	0°X	
minimum elong	-12249 Nov 04 j 01:15	19°N22'57	0°01'45	asc. node	-12243 Aug 28 j 05:55	0°X38'42	
behind sun begin	-12249 Nov 03 j 17:00	19°N18'08		retrograde	-12243 Sep 11 j 10:03	0°X58'13	
behind sun end	-12249 Nov 04 j 09:31	19°N27'45			-12243 Oct 06 j 03:09	30°RX	
max. Earth dist.	-12249 Nov 05 j 00:48	19°N36'43	6.08846 AU	opposition	-12243 Nov 10 j 08:23	26°X05'14	0°15'58
desc. node	-12249 Nov 11 j 16:09	21°N09'57		min. Earth dist.	-12243 Nov 11 j 00:41	25°X59'57	4.32172 AU
morning rise	-12249 Nov 17 j 11:03	22°N30'53		direct	-12242 Jan 11 j 13:52	21°X02'51	
	-12249 Dec 20 j 21:28	0°N			-12242 Apr 05 j 03:24	0°X	
retrograde	-12248 Mar 27 j 23:40	12°N22'23		evening set	-12242 May 19 j 16:10	9°X15'34	
min. Earth dist.	-12248 May 26 j 11:53	7°N24'14	4.07199 AU	max. Earth dist.	-12242 May 31 j 10:33	11°X52'43	6.33485 AU
opposition	-12248 May 27 j 06:00	7°N18'08	-0°46'18				
direct	-12248 Jul 24 j 11:59	2°N22'20		conjunction	-12242 Jun 01 j 12:31	12°X07'13	0°39'51
evening set	-12248 Nov 25 j 20:33	21°N21'38		minimum elong	-12242 Jun 01 j 12:27	12°X07'11	0°39'35
				morning rise	-12242 Jun 14 j 05:41	14°X57'18	
conjunction	-12248 Dec 09 j 10:44	24°N32'00	-0°59'25		-12242 Sep 04 j 13:15	0°Y	
minimum elong	-12248 Dec 09 j 10:38	24°N31'56	0°59'19	retrograde	-12242 Oct 13 j 05:15	2°Y16'16	
max. Earth dist.	-12248 Dec 10 j 15:05	24°N48'34	6.06626 AU		-12242 Nov 21 j 09:35	30°RX	
morning rise	-12248 Dec 23 j 03:50	27°N43'47		opposition	-12242 Dec 12 j 21:31	27°X24'30	1°34'05
	-12247 Jan 02 j 00:31	0°E		min. Earth dist.	-12242 Dec 13 j 16:47	27°X18'22	4.33839 AU
retrograde	-12247 May 02 j 19:23	17°E34'21		direct	-12241 Feb 13 j 09:37	22°X24'57	
opposition	-12247 Jul 01 j 07:35	12°E29'30	-2°03'57		-12241 Apr 30 j 06:09	0°Y	
min. Earth dist.	-12247 Jun 30 j 13:34	12°E35'40	4.07400 AU	evening set	-12241 Jun 20 j 00:41	10°Y26'32	
direct	-12247 Aug 28 j 13:46	7°E30'20		max. Earth dist.	-12241 Jul 01 j 10:09	12°Y59'45	6.32972 AU
evening set	-12246 Jan 02 j 00:24	26°E43'20					
				conjunction	-12241 Jul 02 j 12:29	13°Y14'33	1°25'06
conjunction	-12246 Jan 15 j 17:34	29°E53'33	-1°38'25	minimum elong	-12241 Jul 02 j 12:24	13°Y14'30	1°25'15
minimum elong	-12246 Jan 15 j 17:29	29°E53'30	1°38'46	morning rise	-12241 Jul 14 j 22:35	16°Y01'44	
	-12246 Jan 16 j 04:42	0°N			-12241 Sep 25 j 18:32	0°X	
max. Earth dist.	-12246 Jan 16 j 18:37	0°N08'03	6.09108 AU	retrograde	-12241 Nov 14 j 16:40	3°X37'54	
morning rise	-12246 Jan 29 j 11:21	3°N04'03			-12240 Jan 05 j 01:16	30°RX	
	-12246 Mar 26 j 19:23	15°N		opposition	-12240 Jan 14 j 23:56	28°Y45'23	2°25'06
retrograde	-12246 Jun 06 j 17:13	22°N26'21		min. Earth dist.	-12240 Jan 15 j 16:09	28°Y40'14	4.31313 AU
opposition	-12246 Aug 04 j 15:58	17°N23'22	-2°35'55	direct	-12240 Mar 17 j 02:28	23°Y48'54	
min. Earth dist.	-12246 Aug 04 j 04:45	17°N27'13	4.12024 AU		-12240 May 23 j 02:55	0°X	
	-12246 Aug 22 j 21:07	15°RN		evening set	-12240 Jul 20 j 02:03	11°X48'43	
direct	-12246 Oct 02 j 15:44	12°N21'08					
	-12246 Nov 12 j 18:27	15°N		conjunction	-12240 Aug 01 j 10:06	14°X36'34	1°45'47
	-12245 Feb 01 j 03:40	0°X		minimum elong	-12240 Aug 01 j 10:05	14°X36'33	1°46'16
evening set	-12245 Feb 07 j 22:56	1°X32'11		max. Earth dist.	-12240 Jul 31 j 17:25	14°X27'05	6.28531 AU
					-12240 Aug 03 j 03:18	15°X	
conjunction	-12245 Feb 21 j 14:54	4°X39'07	-1°41'41	morning rise	-12240 Aug 13 j 17:57	17°X24'29	
minimum elong	-12245 Feb 21 j 14:57	4°X39'08	1°42'20		-12240 Oct 15 j 01:12	0°N	
max. Earth dist.	-12245 Feb 22 j 01:00	4°X44'53	6.15378 AU	retrograde	-12240 Dec 17 j 05:49	5°N35'08	
morning rise	-12245 Mar 07 j 05:46	7°X45'19		opposition	-12239 Feb 16 j 21:33	0°N40'13	2°33'43
retrograde	-12245 Jul 10 j 05:25	26°X22'30		min. Earth dist.	-12239 Feb 17 j 05:23	0°N37'44	4.25331 AU
opposition	-12245 Sep 07 j 03:23	21°X22'57	-2°13'10		-12239 Feb 22 j 04:35	30°RX	
min. Earth dist.	-12245 Sep 07 j 01:46	21°X23'30	4.19324 AU	direct	-12239 Apr 19 j 01:24	25°X46'19	

Attention, astronomical year style is used: The year -12239 in astronomical counting style is the year 12240 BCE in historical counting style.

	-12239 Jun 11 j 17:54	0°♊	minimum elong	-12233 Feb 26 j 13:12	9°♊24'29	1°39'54
evening set	-12239 Aug 20 j 14:27	13°♊52'53	max. Earth dist.	-12233 Feb 26 j 20:30	9°♊28'39	6.16506 AU
			morning rise	-12233 Mar 12 j 03:20	12°♊29'54	
conjunction	-12239 Sep 02 j 01:34	16°♊44'52	1°34'46	-12233 Jun 19 j 22:24	0°♊	
minimum elong	-12239 Sep 02 j 01:39	16°♊44'55	1°35'28	retrograde	-12233 Jul 14 j 18:07	1°♊00'35
max. Earth dist.	-12239 Sep 01 j 21:22	16°♊42'27	6.21481 AU		-12233 Aug 08 j 08:23	30°♊♊
morning rise	-12239 Sep 14 j 14:42	19°♊38'00		opposition	-12233 Sep 11 j 15:31	26°♊01'37 -2°06'19
	-12239 Nov 02 j 05:15	0°♋		min. Earth dist.	-12233 Sep 11 j 16:28	26°♊01'17 4.20352 AU
retrograde	-12238 Jan 21 j 01:24	8°♋30'57		direct	-12233 Nov 10 j 23:57	20°♊57'25
opposition	-12238 Mar 23 j 14:21	3°♋32'29	1°54'03		-12232 Feb 01 j 11:46	0°♊
min. Earth dist.	-12238 Mar 23 j 11:05	3°♋33'32	4.17682 AU	evening set	-12232 Mar 19 j 05:55	9°♋49'28
	-12238 Apr 23 j 08:58	30°♋♊				
direct	-12238 May 22 j 13:36	28°♊39'37		conjunction	-12232 Apr 01 j 17:31	12°♊51'10 -1°04'01
	-12238 Jun 20 j 12:21	0°♋		minimum elong	-12232 Apr 01 j 17:37	12°♊51'13 1°04'44
evening set	-12238 Sep 22 j 07:15	17°♋00'16		max. Earth dist.	-12232 Apr 01 j 08:27	12°♊46'04 6.24020 AU
				morning rise	-12232 Apr 15 j 02:08	15°♊51'17
conjunction	-12238 Oct 05 j 03:53	19°♋59'40	0°53'03		-12232 Jun 27 j 04:14	0°♋
minimum elong	-12238 Oct 05 j 03:59	19°♋59'43	0°53'45	retrograde	-12232 Aug 15 j 00:37	3°♋40'02
max. Earth dist.	-12238 Oct 05 j 16:38	20°♋07'05	6.14000 AU		-12232 Oct 03 j 18:23	30°♋♊
morning rise	-12238 Oct 18 j 03:43	23°♋00'53		opposition	-12232 Oct 13 j 08:45	28°♋44'45 -0°57'07
	-12238 Nov 18 j 10:16	0°♌		min. Earth dist.	-12232 Oct 13 j 18:52	28°♋41'25 4.27424 AU
retrograde	-12237 Feb 25 j 20:48	12°♌31'41		direct	-12232 Dec 13 j 20:16	23°♋40'50
opposition	-12237 Apr 27 j 20:21	7°♌29'38	0°34'39		-12231 Feb 20 j 03:31	0°♋
min. Earth dist.	-12237 Apr 27 j 07:02	7°♌34'02	4.10894 AU	evening set	-12231 Apr 21 j 21:19	12°♋11'16
direct	-12237 Jun 25 j 16:53	2°♌35'59		max. Earth dist.	-12231 May 04 j 04:01	14°♋55'32 6.30209 AU
desc. node	-12237 Sep 21 j 07:19	13°♌21'09			-12231 May 04 j 11:59	15°♋
	-12237 Sep 29 j 00:59	15°♌				
evening set	-12237 Oct 26 j 18:09	21°♌16'04		conjunction	-12231 May 05 j 01:39	15°♋07'37 -0°09'27
				minimum elong	-12231 May 05 j 01:39	15°♋07'38 0°09'59
conjunction	-12237 Nov 09 j 01:34	24°♌22'42	-0°07'47	behind sun begin	-12231 May 04 j 19:07	15°♋03'59
minimum elong	-12237 Nov 09 j 01:32	24°♌22'41	0°07'21	behind sun end	-12231 May 05 j 08:12	15°♋11'16
behind sun begin	-12237 Nov 08 j 18:00	24°♌18'18		morning rise	-12231 May 18 j 02:32	18°♋02'12
behind sun end	-12237 Nov 09 j 09:05	24°♌27'05		asc. node	-12231 Jul 08 j 16:22	28°♋36'28
max. Earth dist.	-12237 Nov 10 j 01:49	24°♌36'54	6.08567 AU		-12231 Jul 16 j 21:12	0°♋
morning rise	-12237 Nov 22 j 12:46	27°♌31'19		retrograde	-12231 Sep 15 j 20:33	5°♋26'00
	-12237 Dec 03 j 06:59	0°♎		opposition	-12231 Nov 14 j 20:10	0°♋33'22 0°27'37
retrograde	-12236 Apr 01 j 23:09	17°♎23'03		min. Earth dist.	-12231 Nov 15 j 13:44	0°♋27'41 4.32214 AU
min. Earth dist.	-12236 May 31 j 09:16	12°♎24'55	4.07295 AU		-12231 Nov 19 j 03:35	30°♎♋
opposition	-12236 Jun 01 j 04:16	12°♎18'30	-0°58'51	direct	-12230 Jan 16 j 03:16	25°♋31'23
direct	-12236 Jul 29 j 09:45	7°♎22'14			-12230 Mar 14 j 00:43	0°♋
evening set	-12236 Nov 30 j 23:23	26°♎22'35		evening set	-12230 May 24 j 02:06	13°♋43'38
conjunction	-12236 Dec 14 j 14:21	29°♎32'59	-1°06'32	conjunction	-12230 Jun 05 j 21:15	16°♋34'54 0°47'09
minimum elong	-12236 Dec 14 j 14:14	29°♎32'55	1°06'31	minimum elong	-12230 Jun 05 j 21:11	16°♋34'51 0°46'57
max. Earth dist.	-12236 Dec 15 j 20:12	29°♎50'24	6.07079 AU	max. Earth dist.	-12230 Jun 04 j 18:05	16°♋19'42 6.33219 AU
	-12236 Dec 16 j 12:39	0°♏		morning rise	-12230 Jun 18 j 13:27	19°♋24'40
morning rise	-12236 Dec 28 j 07:38	2°♏44'36			-12230 Aug 09 j 07:46	0°♏
retrograde	-12235 May 07 j 17:03	22°♏31'11		retrograde	-12230 Oct 17 j 17:49	6°♏46'17
min. Earth dist.	-12235 Jul 05 j 09:42	17°♏32'14	4.08173 AU	opposition	-12230 Dec 17 j 12:05	1°♏54'31 1°43'15
opposition	-12235 Jul 06 j 02:32	17°♏26'28	-2°11'26	min. Earth dist.	-12230 Dec 18 j 06:42	1°♏48'35 4.33323 AU
direct	-12235 Sep 02 j 10:48	12°♏26'50			-12229 Jan 01 j 21:42	30°♏♋
	-12235 Dec 30 j 21:41	0°♐		direct	-12229 Feb 17 j 22:48	26°♋55'25
evening set	-12234 Jan 07 j 03:13	1°♐39'08			-12229 Apr 05 j 10:57	0°♏
				evening set	-12229 Jun 24 j 09:55	14°♏57'37
conjunction	-12234 Jan 20 j 20:12	4°♐48'50	-1°41'05	conjunction	-12229 Jul 06 j 20:59	17°♏45'33 1°29'40
minimum elong	-12234 Jan 20 j 20:08	4°♐48'48	1°41'28	minimum elong	-12229 Jul 06 j 20:54	17°♏45'30 1°29'52
max. Earth dist.	-12234 Jan 21 j 18:07	5°♐01'30	6.10091 AU	max. Earth dist.	-12229 Jul 05 j 21:12	17°♏32'09 6.32241 AU
morning rise	-12234 Feb 03 j 13:51	7°♐58'43		morning rise	-12229 Jul 19 j 06:18	20°♏32'42
	-12234 Mar 07 j 05:28	15°♐			-12229 Sep 02 j 08:54	0°♏
retrograde	-12234 Jun 11 j 07:55	27°♐14'26		retrograde	-12229 Nov 19 j 09:00	8°♏13'50
opposition	-12234 Aug 09 j 06:53	22°♐11'51	-2°35'53	opposition	-12228 Jan 19 j 18:00	3°♏21'07 2°29'06
min. Earth dist.	-12234 Aug 08 j 20:36	22°♐15'22	4.13127 AU	min. Earth dist.	-12228 Jan 20 j 09:02	3°♏16'21 4.30439 AU
direct	-12234 Oct 07 j 10:01	17°♐09'12			-12228 Feb 17 j 23:06	30°♏♏
	-12233 Jan 15 j 06:30	0°♑		direct	-12228 Mar 21 j 18:08	28°♏25'08
evening set	-12233 Feb 12 j 21:28	6°♑18'08			-12228 Apr 23 j 07:20	0°♏
					-12228 Jul 18 j 03:45	15°♏
conjunction	-12233 Feb 26 j 13:08	9°♑24'27	-1°39'14			

evening set	-12228 Jul 24 j 12:38	16°8'25"59				-12222 May 11 j 00:40	0°♏	
					retrograde	-12222 Jun 16 j 01:27	2°♏04'44	
conjunction	-12228 Aug 05 j 20:33	19°8'14"11	1°46'11			-12222 Jul 21 j 18:07	30°♍♌	
minimum elong	-12228 Aug 05 j 20:33	19°8'14"11	1°46'43		opposition	-12222 Aug 13 j 22:45	27°♌02'35	-2°34'51
max. Earth dist.	-12228 Aug 05 j 04:54	19°8'05"16	6.27568 AU		min. Earth dist.	-12222 Aug 13 j 14:55	27°♌05'15	4.14017 AU
morning rise	-12228 Aug 18 j 04:52	22°8'02"39			direct	-12222 Oct 12 j 06:12	21°♌59'37	
	-12228 Sep 24 j 00:26	0°♐				-12222 Dec 26 j 23:33	0°♏	
retrograde	-12228 Dec 22 j 02:31	10°♐19'07			evening set	-12221 Feb 17 j 20:58	11°♏06'59	
opposition	-12227 Feb 21 j 18:41	5°♐23'41	2°30'57					
min. Earth dist.	-12227 Feb 22 j 00:22	5°♐21'52	4.24345 AU		conjunction	-12221 Mar 03 j 12:19	14°♏12'47	-1°36'06
direct	-12227 Apr 23 j 18:46	0°♐30'00			minimum elong	-12221 Mar 03 j 12:23	14°♏12'49	1°36'47
evening set	-12227 Aug 25 j 03:40	18°♐37'47			max. Earth dist.	-12221 Mar 03 j 17:28	14°♏15'42	6.17439 AU
					morning rise	-12221 Mar 17 j 01:53	17°♏17'34	
conjunction	-12227 Sep 06 j 15:58	21°♐30'38	1°30'33			-12221 May 18 j 09:04	0°♏	
minimum elong	-12227 Sep 06 j 16:03	21°♐30'41	1°31'16		retrograde	-12221 Jul 19 j 05:44	5°♏42'19	
max. Earth dist.	-12227 Sep 06 j 15:49	21°♐30'33	6.20559 AU		opposition	-12221 Sep 16 j 04:53	0°♏43'52	-1°58'36
morning rise	-12227 Sep 19 j 06:12	24°♐24'41			min. Earth dist.	-12221 Sep 16 j 06:35	0°♏43'17	4.21245 AU
	-12227 Oct 14 j 06:43	0°♑				-12221 Sep 21 j 15:41	30°♍♌	
retrograde	-12226 Jan 26 j 01:55	13°♑22'39			direct	-12221 Nov 15 j 16:03	25°♏39'34	
opposition	-12226 Mar 28 j 13:24	8°♑23'40	1°44'47			-12220 Jan 09 j 13:44	0°♏	
min. Earth dist.	-12226 Mar 28 j 08:36	8°♑25'14	4.16871 AU		evening set	-12220 Mar 24 j 00:27	14°♏29'20	
direct	-12226 May 27 j 08:53	3°♑30'50						
evening set	-12226 Sep 27 j 01:02	21°♑52'53			conjunction	-12220 Apr 06 j 11:11	17°♏30'24	-0°57'12
					minimum elong	-12220 Apr 06 j 11:17	17°♏30'27	0°57'54
conjunction	-12226 Oct 09 j 22:59	24°♑53'11	0°45'15		max. Earth dist.	-12220 Apr 05 j 23:10	17°♏23'39	6.24825 AU
minimum elong	-12226 Oct 09 j 23:04	24°♑53'14	0°45'56		morning rise	-12220 Apr 19 j 18:59	20°♏29'51	
max. Earth dist.	-12226 Oct 10 j 12:45	25°♑01'13	6.13356 AU			-12220 Jun 04 j 01:12	0°♐	
morning rise	-12226 Oct 23 j 00:34	27°♑55'27			retrograde	-12220 Aug 19 j 12:32	8°♐14'37	
	-12226 Nov 01 j 01:24	0°♒			opposition	-12220 Oct 17 j 21:31	3°♐19'47	-0°45'41
	-12225 Jan 21 j 03:14	15°♒			min. Earth dist.	-12220 Oct 18 j 09:46	3°♐15'45	4.28060 AU
retrograde	-12225 Mar 02 j 21:00	17°♒29'18				-12220 Nov 14 j 14:59	30°♍♌	
	-12225 Apr 12 j 13:15	15°♒♌			direct	-12220 Dec 18 j 13:10	28°♏16'03	
opposition	-12225 May 02 j 19:15	12°♒26'44	0°21'39			-12219 Jan 21 j 18:34	0°♐	
min. Earth dist.	-12225 May 02 j 04:20	12°♒31'42	4.10452 AU			-12219 Apr 18 j 13:43	15°♐	
direct	-12225 Jun 30 j 12:45	7°♒32'48			evening set	-12219 Apr 26 j 10:58	16°♐44'18	
desc. node	-12225 Aug 01 j 13:17	9°♒13'40						
	-12225 Sep 09 j 11:38	15°♒			conjunction	-12219 May 09 j 14:14	19°♐40'02	-0°01'17
evening set	-12225 Oct 31 j 17:05	26°♒14'43			minimum elong	-12219 May 09 j 14:15	19°♐40'02	0°01'47
					behind sun begin	-12219 May 09 j 06:08	19°♐35'32	
conjunction	-12225 Nov 14 j 01:55	29°♒22'01	-0°16'37		behind sun end	-12219 May 09 j 22:21	19°♐44'33	
minimum elong	-12225 Nov 14 j 01:53	29°♒21'59	0°16'13		max. Earth dist.	-12219 May 08 j 15:54	19°♐27'33	6.30638 AU
max. Earth dist.	-12225 Nov 15 j 04:43	29°♒37'41	6.08375 AU		asc. node	-12219 May 18 j 01:32	21°♐33'38	
	-12225 Nov 16 j 18:51	0°♓			morning rise	-12219 May 22 j 13:56	22°♐33'58	
morning rise	-12225 Nov 27 j 14:07	2°♓31'10				-12219 Jun 26 j 12:07	0°♈	
retrograde	-12224 Apr 06 j 23:54	22°♓22'46			retrograde	-12219 Sep 20 j 06:32	9°♈56'45	
min. Earth dist.	-12224 Jun 05 j 07:18	17°♓24'17	4.07386 AU		opposition	-12219 Nov 19 j 09:31	5°♈04'20	0°39'17
opposition	-12224 Jun 06 j 01:35	17°♓18'05	-1°10'56		min. Earth dist.	-12219 Nov 20 j 02:40	4°♈58'48	4.32429 AU
direct	-12224 Aug 03 j 07:03	12°♓21'24			direct	-12218 Jan 20 j 17:04	0°♈02'44	
	-12224 Nov 30 j 01:59	0°♉			evening set	-12218 May 28 j 12:48	18°♈13'38	
evening set	-12224 Dec 06 j 02:17	1°♉23'14			max. Earth dist.	-12218 Jun 09 j 04:03	20°♈49'26	6.33221 AU
conjunction	-12224 Dec 19 j 17:38	4°♉33'38	-1°13'11		conjunction	-12218 Jun 10 j 06:38	21°♈04'19	0°54'16
minimum elong	-12224 Dec 19 j 17:31	4°♉33'34	1°13'13		minimum elong	-12218 Jun 10 j 06:33	21°♈04'16	0°54'08
max. Earth dist.	-12224 Dec 20 j 21:41	4°♉49'59	6.07418 AU		morning rise	-12218 Jun 22 j 21:41	23°♈53'35	
morning rise	-12223 Jan 02 j 11:24	7°♉45'13				-12218 Jul 21 j 05:53	0°♐	
retrograde	-12223 May 12 j 12:40	27°♉28'18			retrograde	-12218 Oct 22 j 07:08	11°♐16'56	
opposition	-12223 Jul 10 j 21:07	22°♉23'45	-2°18'02		opposition	-12218 Dec 22 j 03:17	6°♐25'10	1°51'52
min. Earth dist.	-12223 Jul 10 j 04:23	22°♉29'29	4.08760 AU		min. Earth dist.	-12218 Dec 22 j 22:07	6°♐19'11	4.33130 AU
direct	-12223 Sep 07 j 06:52	17°♉23'38			direct	-12217 Feb 22 j 14:24	1°♐26'33	
	-12223 Dec 13 j 14:37	0°♑			evening set	-12217 Jun 28 j 19:04	19°♐28'00	
evening set	-12222 Jan 12 j 06:07	6°♑36'04			max. Earth dist.	-12217 Jul 10 j 06:01	22°♐02'35	6.31858 AU
conjunction	-12222 Jan 25 j 23:07	9°♑45'23	-1°43'04		conjunction	-12217 Jul 11 j 05:17	22°♐15'41	1°33'45
minimum elong	-12222 Jan 25 j 23:04	9°♑45'21	1°43'31		minimum elong	-12217 Jul 11 j 05:12	22°♐15'39	1°33'59
max. Earth dist.	-12222 Jan 26 j 19:16	9°♑57'00	6.10868 AU		morning rise	-12217 Jul 23 j 14:09	25°♐02'46	
morning rise	-12222 Feb 08 j 16:20	12°♑54'43				-12217 Aug 15 j 05:01	0°♈	
	-12222 Feb 17 j 20:49	15°♑			retrograde	-12217 Nov 24 j 00:02	12°♈47'36	

Attention, astronomical year style is used: The year -12216 in astronomical counting style is the year 12217 BCE in historical counting style.

opposition	-12216 Jan 24 j 11:22	7° 8 54'32	2°32'09	conjunction	-12210 Jan 31 j 01:36	14° ℓ 40'30	-1°44'17
min. Earth dist.	-12216 Jan 25 j 00:27	7° 8 50'24	4.29913 AU	minimum elong	-12210 Jan 31 j 01:34	14° ℓ 40'29	1°44'47
direct	-12216 Mar 26 j 08:23	2° 8 58'56		max. Earth dist.	-12210 Jan 31 j 20:16	14° ℓ 51'15	6.11343 AU
	-12216 Jul 01 j 14:24	15° 8			-12210 Feb 01 j 11:28	15° ℓ	
evening set	-12216 Jul 28 j 21:48	20° 8 59'34		morning rise	-12210 Feb 13 j 18:32	17° ℓ 49'28	
					-12210 Apr 12 j 20:31	0° 8	
conjunction	-12216 Aug 10 j 05:56	23° 8 48'04	1°45'56	retrograde	-12210 Jun 20 j 17:11	6° 8 54'48	
minimum elong	-12216 Aug 10 j 05:57	23° 8 48'04	1°46'30	opposition	-12210 Aug 18 j 14:18	1° 8 53'09	-2°32'44
max. Earth dist.	-12216 Aug 09 j 17:44	23° 8 41'07	6.26938 AU	min. Earth dist.	-12210 Aug 18 j 06:55	1° 8 55'41	4.14646 AU
morning rise	-12216 Aug 22 j 14:26	26° 8 36'55			-12210 Sep 01 j 18:44	30° ℓ ℓ	
	-12216 Sep 06 j 17:39	0° ℓ		direct	-12210 Oct 16 j 23:33	26° ℓ 49'57	
retrograde	-12216 Dec 26 j 22:02	14° ℓ 57'58			-12210 Dec 01 j 13:55	0° 8	
opposition	-12215 Feb 26 j 14:04	10° ℓ 02'08	2°27'14	evening set	-12209 Feb 22 j 20:40	15° 8 56'44	
min. Earth dist.	-12215 Feb 26 j 18:51	10° ℓ 00'36	4.23639 AU				
direct	-12215 Apr 28 j 11:20	5° ℓ 08'41		conjunction	-12209 Mar 08 j 11:31	19° 8 02'05	-1°32'17
evening set	-12215 Aug 29 j 15:13	23° ℓ 16'52		minimum elong	-12209 Mar 08 j 11:36	19° 8 02'07	1°33'00
				max. Earth dist.	-12209 Mar 08 j 13:19	19° 8 03'06	6.18180 AU
conjunction	-12215 Sep 11 j 04:22	26° ℓ 10'28	1°25'50	morning rise	-12209 Mar 22 j 00:36	22° 8 06'21	
minimum elong	-12215 Sep 11 j 04:28	26° ℓ 10'30	1°26'32		-12209 Apr 27 j 12:22	0° 8	
max. Earth dist.	-12215 Sep 11 j 04:55	26° ℓ 10'46	6.19833 AU	retrograde	-12209 Jul 23 j 20:11	10° 8 25'59	
morning rise	-12215 Sep 23 j 20:02	29° ℓ 05'25		opposition	-12209 Sep 20 j 19:22	5° 8 28'03	-1°50'03
	-12215 Sep 27 j 19:28	0° 8		min. Earth dist.	-12209 Sep 20 j 23:12	5° 8 26'46	4.22018 AU
retrograde	-12214 Jan 30 j 22:11	18° 8 07'43		direct	-12209 Nov 20 j 11:28	0° 8 23'45	
opposition	-12214 Apr 02 j 09:29	13° 8 08'12	1°34'59	evening set	-12208 Mar 28 j 19:11	19° 8 11'20	
min. Earth dist.	-12214 Apr 02 j 02:38	13° 8 10'25	4.16160 AU				
direct	-12214 Jun 01 j 00:43	8° 8 15'17		conjunction	-12208 Apr 11 j 05:15	22° 8 11'48	-0°49'58
evening set	-12214 Oct 01 j 16:46	26° 8 38'50		minimum elong	-12208 Apr 11 j 05:20	22° 8 11'51	0°50'38
				max. Earth dist.	-12208 Apr 10 j 17:00	22° 8 04'56	6.25596 AU
conjunction	-12214 Oct 14 j 16:22	29° 8 40'07	0°37'18	morning rise	-12208 Apr 24 j 11:57	25° 8 10'33	
minimum elong	-12214 Oct 14 j 16:26	29° 8 40'09	0°37'56		-12208 May 16 j 13:40	0° 8	
max. Earth dist.	-12214 Oct 15 j 09:04	29° 8 49'51	6.12738 AU	retrograde	-12208 Aug 23 j 22:54	12° 8 51'27	
	-12214 Oct 16 j 02:28	0° 8		opposition	-12208 Oct 22 j 11:05	7° 8 57'02	-0°33'51
morning rise	-12214 Oct 27 j 19:20	2° 8 43'20		min. Earth dist.	-12208 Oct 22 j 23:06	7° 8 53'05	4.28764 AU
	-12214 Dec 24 j 20:46	15° 8		direct	-12208 Dec 23 j 04:44	2° 8 53'32	
retrograde	-12213 Mar 07 j 20:22	22° 8 20'04		asc. node	-12207 Mar 27 j 07:46	13° 8 56'16	
opposition	-12213 May 07 j 15:24	17° 8 17'10	0°08'44		-12207 Apr 01 j 14:02	15° 8	
min. Earth dist.	-12213 May 07 j 00:47	17° 8 22'01	4.09963 AU	evening set	-12207 May 01 j 01:05	21° 8 19'09	
	-12213 May 25 j 13:07	15° 8 8		max. Earth dist.	-12207 May 13 j 03:05	24° 8 00'46	6.31224 AU
desc. node	-12213 Jun 13 j 03:37	13° 8 12'06					
direct	-12213 Jul 05 j 07:16	12° 8 22'56		conjunction	-12207 May 14 j 02:57	24° 8 14'06	0°07'03
	-12213 Aug 14 j 13:00	15° 8		minimum elong	-12207 May 14 j 02:56	24° 8 14'05	0°06'36
	-12213 Oct 31 j 18:09	0° 8		behind sun begin	-12207 May 13 j 19:22	24° 8 09'53	
evening set	-12213 Nov 05 j 14:19	1° 8 07'18		behind sun end	-12207 May 14 j 10:29	24° 8 18'17	
				morning rise	-12207 May 27 j 01:31	27° 8 07'18	
conjunction	-12213 Nov 19 j 00:10	4° 8 15'13	-0°25'11		-12207 Jun 09 j 03:57	0° 8	
minimum elong	-12213 Nov 19 j 00:07	4° 8 15'11	0°24'50	retrograde	-12207 Sep 24 j 18:36	14° 8 28'34	
max. Earth dist.	-12213 Nov 20 j 02:06	4° 8 30'23	6.08048 AU	opposition	-12207 Nov 23 j 23:20	9° 8 36'19	0°50'44
morning rise	-12213 Dec 02 j 13:38	7° 8 25'00		min. Earth dist.	-12207 Nov 24 j 17:42	9° 8 30'24	4.32843 AU
retrograde	-12212 Apr 11 j 20:38	27° 8 17'03		direct	-12206 Jan 25 j 09:41	4° 8 35'02	
opposition	-12212 Jun 10 j 20:34	22° 8 12'17	-1°22'20	evening set	-12206 Jun 01 j 22:48	22° 8 43'39	
min. Earth dist.	-12212 Jun 10 j 01:40	22° 8 18'42	4.07265 AU				
direct	-12212 Aug 08 j 00:52	17° 8 15'10		conjunction	-12206 Jun 14 j 15:29	25° 8 33'42	1°01'05
	-12212 Nov 13 j 01:47	0° 8		minimum elong	-12206 Jun 14 j 15:24	25° 8 33'39	1°01'00
evening set	-12212 Dec 11 j 03:45	6° 8 19'36		max. Earth dist.	-12206 Jun 13 j 13:33	25° 8 19'11	6.33397 AU
				morning rise	-12206 Jun 27 j 05:22	28° 8 22'25	
conjunction	-12212 Dec 24 j 19:40	9° 8 30'10	-1°19'12		-12206 Jul 04 j 13:44	0° 8	
minimum elong	-12212 Dec 24 j 19:34	9° 8 30'06	1°19'18	retrograde	-12206 Oct 26 j 18:14	15° 8 47'01	
max. Earth dist.	-12212 Dec 25 j 23:09	9° 8 46'10	6.07506 AU	opposition	-12206 Dec 26 j 18:04	10° 8 55'07	1°59'48
morning rise	-12211 Jan 07 j 13:33	12° 8 41'43		min. Earth dist.	-12206 Dec 27 j 11:33	10° 8 49'34	4.33065 AU
	-12211 Apr 08 j 13:37	0° ℓ		direct	-12205 Feb 27 j 03:21	5° 8 56'52	
retrograde	-12211 May 17 j 09:35	2° ℓ 22'27		evening set	-12205 Jul 03 j 03:07	23° 8 57'06	
	-12211 Jun 24 j 19:28	30° 8 8					
opposition	-12211 Jul 15 j 14:34	27° 8 18'10	-2°23'36	conjunction	-12205 Jul 15 j 12:34	26° 8 44'33	1°37'16
min. Earth dist.	-12211 Jul 14 j 23:51	27° 8 23'13	4.09055 AU	minimum elong	-12205 Jul 15 j 12:29	26° 8 44'30	1°37'34
direct	-12211 Sep 12 j 03:02	22° 8 17'37		max. Earth dist.	-12205 Jul 14 j 14:43	26° 8 32'12	6.31523 AU
	-12211 Nov 24 j 02:29	0° ℓ		morning rise	-12205 Jul 27 j 20:53	29° 8 31'30	
evening set	-12210 Jan 17 j 08:34	11° ℓ 31'23			-12205 Jul 29 j 23:48	0° 8	

Attention, astronomical year style is used: The year -12205 in astronomical counting style is the year 12206 BCE in historical counting style.

	-12205 Oct 19 j 23:18	15°♄		direct	-12199 Sep 17 j 00:32	27°♑20'07	
retrograde	-12205 Nov 28 j 16:14	17°♄20'05			-12199 Oct 27 j 23:38	0°♐	
	-12204 Jan 07 j 21:10	15°♄			-12198 Jan 15 j 16:08	15°♐	
opposition	-12204 Jan 29 j 04:09	12°♄26'43	2°34'20	evening set	-12198 Jan 22 j 14:33	16°♐34'38	
min. Earth dist.	-12204 Jan 29 j 17:18	12°♄22'33	4.29320 AU				
direct	-12204 Mar 30 j 23:31	7°♄31'25		conjunction	-12198 Feb 05 j 07:21	19°♐43'22	-1°44'49
	-12204 Jun 12 j 22:06	15°♄		minimum elong	-12198 Feb 05 j 07:20	19°♐43'21	1°45'20
evening set	-12204 Aug 02 j 06:23	25°♄32'11		max. Earth dist.	-12198 Feb 05 j 23:36	19°♐52'43	6.12053 AU
				morning rise	-12198 Feb 19 j 00:01	22°♐51'51	
conjunction	-12204 Aug 14 j 14:43	28°♄21'05	1°45'05		-12198 Mar 23 j 08:21	0°♏	
minimum elong	-12204 Aug 14 j 14:44	28°♄21'06	1°45'41	retrograde	-12198 Jun 25 j 12:20	11°♏51'23	
max. Earth dist.	-12204 Aug 14 j 02:56	28°♄14'21	6.26119 AU	opposition	-12198 Aug 23 j 09:01	6°♏50'13	-2°29'32
	-12204 Aug 21 j 19:56	0°♐		min. Earth dist.	-12198 Aug 23 j 03:13	6°♏52'11	4.15630 AU
morning rise	-12204 Aug 26 j 23:53	1°♐10'31		direct	-12198 Oct 21 j 23:08	1°♏46'48	
retrograde	-12204 Dec 31 j 16:01	19°♐36'54		evening set	-12197 Feb 27 j 22:17	20°♏51'07	
opposition	-12203 Mar 03 j 08:51	14°♐40'31	2°22'41				
min. Earth dist.	-12203 Mar 03 j 11:28	14°♐39'41	4.22649 AU	conjunction	-12197 Mar 13 j 12:47	23°♏55'48	-1°27'48
direct	-12203 May 03 j 01:10	9°♐47'11		minimum elong	-12197 Mar 13 j 12:52	23°♏55'51	1°28'32
evening set	-12203 Sep 03 j 03:00	27°♐57'02		max. Earth dist.	-12197 Mar 13 j 14:45	23°♏56'55	6.19407 AU
	-12203 Sep 12 j 00:15	0°♑		morning rise	-12197 Mar 27 j 00:56	26°♏59'14	
					-12197 Apr 09 j 13:34	0°♒	
conjunction	-12203 Sep 15 j 17:29	0°♑51'38	1°20'34	retrograde	-12197 Jul 28 j 09:47	15°♒11'48	
minimum elong	-12203 Sep 15 j 17:35	0°♑51'41	1°21'18	opposition	-12197 Sep 25 j 11:02	10°♒14'25	-1°40'43
max. Earth dist.	-12203 Sep 15 j 20:55	0°♑53'37	6.18764 AU	min. Earth dist.	-12197 Sep 25 j 15:02	10°♒13'05	4.23374 AU
morning rise	-12203 Sep 28 j 10:25	3°♑47'40		direct	-12197 Nov 25 j 06:48	5°♒10'12	
retrograde	-12202 Feb 04 j 22:03	22°♑55'36		evening set	-12196 Apr 02 j 14:08	23°♒53'14	
opposition	-12202 Apr 07 j 06:36	17°♑55'32	1°24'32				
min. Earth dist.	-12202 Apr 06 j 23:35	17°♑57'50	4.15068 AU	conjunction	-12196 Apr 15 j 23:00	26°♒52'42	-0°42'25
direct	-12202 Jun 05 j 18:53	13°♑02'31		minimum elong	-12196 Apr 15 j 23:05	26°♒52'45	0°43'04
	-12202 Sep 30 j 00:05	0°♓		max. Earth dist.	-12196 Apr 15 j 08:10	26°♒44'23	6.26992 AU
evening set	-12202 Oct 06 j 10:24	1°♓29'04		morning rise	-12196 Apr 29 j 04:46	29°♒50'29	
					-12196 Apr 29 j 21:52	0°♓	
conjunction	-12202 Oct 19 j 11:27	4°♓31'28	0°29'00		-12196 Jul 20 j 00:03	15°♓	
minimum elong	-12202 Oct 19 j 11:30	4°♓31'30	0°29'36	retrograde	-12196 Aug 28 j 10:04	17°♓25'37	
max. Earth dist.	-12202 Oct 20 j 04:29	4°♓41'24	6.11726 AU		-12196 Oct 07 j 03:42	15°♒	
morning rise	-12202 Nov 01 j 16:15	7°♓35'53		opposition	-12196 Oct 27 j 00:23	12°♓31'35	-0°21'57
	-12202 Dec 04 j 20:08	15°♓		min. Earth dist.	-12196 Oct 27 j 14:00	12°♓27'08	4.30073 AU
retrograde	-12201 Mar 12 j 20:06	27°♓16'49		direct	-12196 Dec 27 j 22:50	7°♓28'18	
desc. node	-12201 Apr 23 j 20:44	24°♓37'00		asc. node	-12195 Feb 04 j 18:57	9°♓40'01	
opposition	-12201 May 12 j 13:29	22°♓13'31	-0°04'28		-12195 Mar 13 j 12:16	15°♓	
min. Earth dist.	-12201 May 11 j 21:15	22°♓18'56	4.09122 AU	evening set	-12195 May 05 j 12:51	25°♓49'04	
direct	-12201 Jul 10 j 01:50	17°♓18'55					
	-12201 Oct 14 j 14:21	0°♐		conjunction	-12195 May 18 j 13:31	28°♓43'01	0°15'03
evening set	-12201 Nov 10 j 14:53	6°♐07'11		minimum elong	-12195 May 18 j 13:30	28°♓43'00	0°14'40
				behind sun begin	-12195 May 18 j 10:05	28°♓41'07	
conjunction	-12201 Nov 24 j 02:01	9°♐15'52	-0°33'46	behind sun end	-12195 May 18 j 16:55	28°♓44'54	
minimum elong	-12201 Nov 24 j 01:57	9°♐15'50	0°33'29	max. Earth dist.	-12195 May 17 j 14:19	28°♓30'05	6.32350 AU
max. Earth dist.	-12201 Nov 25 j 05:11	9°♐31'46	6.07449 AU		-12195 May 24 j 07:27	0°♑	
morning rise	-12201 Dec 07 j 16:25	12°♐26'19		morning rise	-12195 May 31 j 10:37	1°♑35'12	
	-12200 Mar 09 j 04:41	0°♑		retrograde	-12195 Sep 29 j 01:54	18°♑53'37	
retrograde	-12200 Apr 16 j 22:56	2°♑19'34		opposition	-12195 Nov 28 j 10:53	14°♑01'33	1°01'35
	-12200 May 25 j 07:43	30°♑		min. Earth dist.	-12195 Nov 29 j 04:48	13°♑55'48	4.33705 AU
opposition	-12200 Jun 15 j 18:41	27°♑14'42	-1°33'27	direct	-12194 Jan 29 j 21:55	9°♑00'41	
min. Earth dist.	-12200 Jun 15 j 00:47	27°♑20'48	4.06969 AU	evening set	-12194 Jun 06 j 05:43	27°♑05'41	
direct	-12200 Aug 12 j 23:48	22°♑17'05					
	-12200 Oct 24 j 06:46	0°♑		conjunction	-12194 Jun 18 j 20:57	29°♑54'55	1°07'20
evening set	-12200 Dec 16 j 09:19	11°♑24'43		minimum elong	-12194 Jun 18 j 20:52	29°♑54'52	1°07'18
				max. Earth dist.	-12194 Jun 17 j 17:51	29°♑39'45	6.33909 AU
					-12194 Jun 19 j 06:01	0°♒	
conjunction	-12200 Dec 30 j 01:45	14°♑35'27	-1°24'50	morning rise	-12194 Jul 01 j 09:50	2°♒42'59	
minimum elong	-12200 Dec 30 j 01:38	14°♑35'23	1°24'59	retrograde	-12194 Oct 31 j 04:25	20°♒08'09	
max. Earth dist.	-12200 Dec 31 j 05:14	14°♑51'27	6.07529 AU	opposition	-12194 Dec 31 j 05:37	15°♒16'13	2°06'46
morning rise	-12199 Jan 12 j 19:51	17°♑47'01		min. Earth dist.	-12193 Jan 01 j 00:14	15°♒10'19	4.33193 AU
	-12199 Mar 11 j 08:59	0°♒		direct	-12193 Mar 03 j 15:15	10°♒18'21	
retrograde	-12199 May 22 j 07:55	7°♒25'02		evening set	-12193 Jul 07 j 07:31	28°♒17'01	
opposition	-12199 Jul 20 j 11:22	2°♒21'02	-2°28'17		-12193 Jul 14 j 22:34	0°♓	
min. Earth dist.	-12199 Jul 19 j 20:32	2°♒26'07	4.09437 AU				
	-12199 Aug 07 j 08:24	30°♒					

Attention, astronomical year style is used: The year -12193 in astronomical counting style is the year 12194 BCE in historical counting style.

conjunction	-12193 Jul 19 j 16:28	1°804'18	1°40'07	morning rise	-12187 Jan 18 j 02:11	22°52'50	
minimum elong	-12193 Jul 19 j 16:24	1°804'16	1°40'28		-12187 Feb 18 j 23:58	0°M	
max. Earth dist.	-12193 Jul 18 j 18:54	0°852'08	6.31240 AU	retrograde	-12187 May 27 j 05:13	12°M27'06	
morning rise	-12193 Aug 01 j 00:25	3°851'13		opposition	-12187 Jul 25 j 07:31	7°M23'16	-2°31'51
	-12193 Sep 24 j 06:31	15°8		min. Earth dist.	-12187 Jul 24 j 17:32	7°M28'04	4.10041 AU
retrograde	-12193 Dec 03 j 03:11	21°843'38		direct	-12187 Sep 21 j 23:59	2°M21'51	
opposition	-12192 Feb 02 j 17:06	16°849'59	2°35'33		-12187 Dec 29 j 00:39	15°M	
min. Earth dist.	-12192 Feb 03 j 04:51	16°846'16	4.28659 AU	evening set	-12186 Jan 27 j 19:24	21°M35'50	
	-12192 Feb 17 j 13:20	15°R8					
direct	-12192 Apr 04 j 08:20	11°855'02		conjunction	-12186 Feb 10 j 12:11	24°M44'05	-1°44'34
	-12192 May 20 j 03:57	15°8		minimum elong	-12186 Feb 10 j 12:11	24°M44'05	1°45'08
evening set	-12192 Aug 06 j 11:41	29°856'35		max. Earth dist.	-12186 Feb 11 j 04:33	24°M53'29	6.13006 AU
	-12192 Aug 06 j 17:42	0°II		morning rise	-12186 Feb 24 j 04:11	27°M51'52	
					-12186 Mar 05 j 14:46	0°J	
conjunction	-12192 Aug 18 j 20:26	2°II46'03	1°43'39	retrograde	-12186 Jun 30 j 05:20	16°J44'23	
minimum elong	-12192 Aug 18 j 20:28	2°II46'04	1°44'16	opposition	-12186 Aug 28 j 01:55	11°J43'39	-2°25'18
max. Earth dist.	-12192 Aug 18 j 09:53	2°II40'00	6.25130 AU	min. Earth dist.	-12186 Aug 27 j 21:00	11°J45'19	4.16804 AU
morning rise	-12192 Aug 31 j 06:13	5°II36'11		direct	-12186 Oct 26 j 20:03	6°J39'59	
retrograde	-12191 Jan 05 j 09:56	24°II08'52		evening set	-12185 Mar 04 j 21:46	25°J41'03	
opposition	-12191 Mar 08 j 00:52	19°II12'05	2°17'24				
min. Earth dist.	-12191 Mar 08 j 03:41	19°II11'11	4.21382 AU	conjunction	-12185 Mar 18 j 11:31	28°J44'57	-1°22'49
direct	-12191 May 07 j 13:53	14°II18'54		minimum elong	-12185 Mar 18 j 11:37	28°J45'00	1°23'32
	-12191 Aug 27 j 10:47	0°S		max. Earth dist.	-12185 Mar 18 j 09:58	28°J44'04	6.20668 AU
evening set	-12191 Sep 07 j 12:47	2°S31'47			-12185 Mar 24 j 00:13	0°S	
				morning rise	-12185 Mar 31 j 23:03	1°S47'33	
conjunction	-12191 Sep 20 j 04:33	5°S27'34	1°14'56	retrograde	-12185 Aug 01 j 22:16	19°S53'19	
minimum elong	-12191 Sep 20 j 04:38	5°S27'37	1°15'39	opposition	-12185 Sep 30 j 01:09	14°S56'23	-1°30'55
max. Earth dist.	-12191 Sep 20 j 08:32	5°S29'52	6.17352 AU	min. Earth dist.	-12185 Sep 30 j 06:54	14°S54'27	4.24581 AU
morning rise	-12191 Oct 02 j 23:08	8°S24'56		direct	-12185 Nov 30 j 01:53	9°S52'05	
retrograde	-12190 Feb 09 j 18:03	27°S39'49		evening set	-12184 Apr 07 j 06:51	28°S31'14	
opposition	-12190 Apr 12 j 01:32	22°S39'20	1°13'42		-12184 Apr 13 j 22:12	0°S	
min. Earth dist.	-12190 Apr 11 j 16:32	22°S42'17	4.13629 AU				
direct	-12190 Jun 10 j 08:38	17°S46'16		conjunction	-12184 Apr 20 j 14:50	1°S29'53	-0°34'43
	-12190 Sep 13 j 06:28	0°Q		minimum elong	-12184 Apr 20 j 14:53	1°S29'55	0°35'21
evening set	-12190 Oct 11 j 03:38	6°Q17'34		max. Earth dist.	-12184 Apr 19 j 23:27	1°S21'17	6.28059 AU
				morning rise	-12184 May 03 j 19:19	4°S26'45	
conjunction	-12190 Oct 24 j 06:22	9°Q21'18	0°20'35		-12184 Jun 24 j 03:03	15°S	
minimum elong	-12190 Oct 24 j 06:25	9°Q21'19	0°21'10	retrograde	-12184 Sep 01 j 19:50	21°S57'41	
max. Earth dist.	-12190 Oct 25 j 01:27	9°Q32'27	6.10412 AU	opposition	-12184 Oct 31 j 12:48	17°S04'01	-0°10'01
morning rise	-12190 Nov 06 j 12:44	12°Q27'01		min. Earth dist.	-12184 Nov 01 j 03:03	16°S59'22	4.30905 AU
	-12190 Nov 17 j 14:44	15°Q			-12184 Nov 16 j 21:04	15°R	
	-12189 Feb 07 j 16:44	0°R		asc. node	-12184 Dec 16 j 12:04	12°S24'39	
desc. node	-12189 Mar 04 j 18:07	1°R56'43		direct	-12183 Jan 01 j 13:31	12°S00'59	
retrograde	-12189 Mar 17 j 21:57	2°R13'18			-12183 Feb 16 j 07:19	15°S	
	-12189 Apr 24 j 21:02	30°RQ			-12183 May 08 j 14:37	0°H	
opposition	-12189 May 17 j 10:58	27°Q09'40	-0°17'34	evening set	-12183 May 10 j 00:31	0°H18'45	
min. Earth dist.	-12189 May 16 j 18:39	27°Q15'08	4.08051 AU				
direct	-12189 Jul 14 j 21:46	22°Q14'44		conjunction	-12183 May 22 j 23:43	3°H11'54	0°23'00
	-12189 Sep 25 j 05:17	0°R		minimum elong	-12183 May 22 j 23:41	3°H11'53	0°22'39
evening set	-12189 Nov 15 j 16:00	11°R07'55		max. Earth dist.	-12183 May 21 j 21:58	2°H57'32	6.32871 AU
				morning rise	-12183 Jun 04 j 19:46	6°H03'24	
conjunction	-12189 Nov 29 j 04:18	14°R17'27	-0°42'05	retrograde	-12183 Oct 03 j 13:06	23°H21'10	
minimum elong	-12189 Nov 29 j 04:13	14°R17'24	0°41'53	opposition	-12183 Dec 02 j 23:39	18°H29'12	1°12'13
max. Earth dist.	-12189 Nov 30 j 08:54	14°R34'11	6.06727 AU	min. Earth dist.	-12183 Dec 03 j 18:45	18°H23'05	4.33897 AU
morning rise	-12189 Dec 12 j 19:45	17°R28'38		direct	-12182 Feb 03 j 11:51	13°H28'39	
	-12188 Feb 09 j 16:38	0°S			-12182 Jun 03 j 15:04	0°Y	
retrograde	-12188 Apr 21 j 23:51	7°S23'04		evening set	-12182 Jun 10 j 14:08	1°Y32'18	
opposition	-12188 Jun 20 j 16:37	2°S18'09	-1°43'51	max. Earth dist.	-12182 Jun 22 j 02:26	4°Y06'34	6.33741 AU
min. Earth dist.	-12188 Jun 19 j 21:47	2°S24'35	4.06704 AU				
	-12188 Jul 08 j 06:40	30°R		conjunction	-12182 Jun 23 j 04:25	4°Y21'07	1°13'20
direct	-12188 Aug 17 j 20:17	27°R20'06		minimum elong	-12182 Jun 23 j 04:19	4°Y21'04	1°13'22
	-12188 Sep 27 j 09:50	0°S		morning rise	-12182 Jul 05 j 16:12	7°Y08'48	
evening set	-12188 Dec 21 j 15:16	16°S30'39		retrograde	-12182 Nov 04 j 16:24	24°Y36'49	
				opposition	-12181 Jan 04 j 20:23	19°Y44'45	2°13'17
conjunction	-12187 Jan 04 j 07:54	19°S41'23	-1°29'47	min. Earth dist.	-12181 Jan 05 j 13:51	19°Y39'13	4.32704 AU
minimum elong	-12187 Jan 04 j 07:48	19°S41'19	1°30'01	direct	-12181 Mar 08 j 03:18	14°Y47'21	
max. Earth dist.	-12187 Jan 05 j 10:10	19°S56'39	6.07710 AU		-12181 Jun 29 j 04:05	0°S	

Attention, astronomical year style is used: The year -12181 in astronomical counting style is the year 12182 BCE in historical counting style.

evening set	-12181 Jul 11 j 15:34	2°♄46'16		minimum elong	-12175 Jan 09 j 11:13	24°♂39'08	1°34'16
				max. Earth dist.	-12175 Jan 10 j 13:50	24°♂54'34	6.08610 AU
conjunction	-12181 Jul 23 j 23:57	5°♄33'37	1°42'30	morning rise	-12175 Jan 23 j 05:16	27°♂50'04	
minimum elong	-12181 Jul 23 j 23:54	5°♄33'35	1°42'54		-12175 Feb 01 j 16:45	0°♄	
max. Earth dist.	-12181 Jul 23 j 02:41	5°♄21'35	6.30450 AU		-12175 Apr 23 j 21:05	15°♄	
morning rise	-12181 Aug 05 j 07:49	8°♄20'46		retrograde	-12175 May 31 j 22:57	17°♄18'06	
	-12181 Sep 04 j 23:17	15°♄			-12175 Jul 08 j 16:16	15°♄♄	
retrograde	-12181 Dec 07 j 21:43	26°♄18'42		opposition	-12175 Jul 29 j 23:37	12°♄14'39	-2°34'08
opposition	-12180 Feb 07 j 11:11	21°♄24'42	2°35'58	min. Earth dist.	-12175 Jul 29 j 11:04	12°♄18'57	4.11153 AU
min. Earth dist.	-12180 Feb 07 j 22:38	21°♄21'04	4.27627 AU	direct	-12175 Sep 26 j 19:14	7°♄12'53	
direct	-12180 Apr 08 j 23:47	16°♄30'04			-12175 Dec 09 j 17:58	15°♄	
	-12180 Jul 21 j 11:59	0°♄		evening set	-12174 Feb 01 j 19:14	26°♄24'45	
evening set	-12180 Aug 10 j 21:59	4°♄33'19					
				conjunction	-12174 Feb 15 j 11:35	29°♄32'20	-1°43'37
conjunction	-12180 Aug 23 j 07:25	7°♄23'32	1°41'31	minimum elong	-12174 Feb 15 j 11:36	29°♄32'20	1°44'13
minimum elong	-12180 Aug 23 j 07:28	7°♄23'33	1°42'10	max. Earth dist.	-12174 Feb 15 j 23:57	29°♄39'24	6.14203 AU
max. Earth dist.	-12180 Aug 22 j 23:00	7°♄18'42	6.23960 AU		-12174 Feb 17 j 11:56	0°♄	
morning rise	-12180 Sep 04 j 18:05	10°♄14'32		morning rise	-12174 Mar 01 j 03:12	2°♄39'22	
retrograde	-12179 Jan 10 j 06:44	28°♄53'41		retrograde	-12174 Jul 04 j 16:48	21°♄24'50	
opposition	-12179 Mar 12 j 21:58	23°♄56'27	2°10'59	opposition	-12174 Sep 01 j 14:19	16°♄24'37	-2°20'19
min. Earth dist.	-12179 Mar 12 j 22:13	23°♄56'22	4.20186 AU	min. Earth dist.	-12174 Sep 01 j 11:07	16°♄25'42	4.17965 AU
direct	-12179 May 12 j 05:46	19°♄03'29		direct	-12174 Oct 31 j 12:53	11°♄20'43	
	-12179 Aug 10 j 04:12	0°♄			-12173 Mar 08 j 06:03	0°♄	
evening set	-12179 Sep 12 j 03:54	7°♄18'55		evening set	-12173 Mar 09 j 15:59	0°♄19'00	
conjunction	-12179 Sep 24 j 21:04	10°♄15'48	1°08'33	conjunction	-12173 Mar 23 j 05:14	3°♄22'15	-1°17'29
minimum elong	-12179 Sep 24 j 21:10	10°♄15'51	1°09'15	minimum elong	-12173 Mar 23 j 05:20	3°♄22'18	1°18'12
max. Earth dist.	-12179 Sep 25 j 03:48	10°♄19'42	6.16267 AU	max. Earth dist.	-12173 Mar 23 j 01:31	3°♄20'09	6.21718 AU
morning rise	-12179 Oct 07 j 17:13	13°♄14'21		morning rise	-12173 Apr 05 j 15:51	6°♄24'06	
	-12178 Jan 04 j 04:13	0°♄		retrograde	-12173 Aug 06 j 08:03	24°♄24'33	
retrograde	-12178 Feb 14 j 20:06	2°♄34'35		opposition	-12173 Oct 04 j 11:24	19°♄28'11	-1°20'57
	-12178 Mar 28 j 13:30	30°♄♄		min. Earth dist.	-12173 Oct 04 j 19:08	19°♄25'37	4.25410 AU
opposition	-12178 Apr 17 j 00:54	27°♄33'36	1°01'55	direct	-12173 Dec 04 j 15:37	14°♄24'00	
min. Earth dist.	-12178 Apr 16 j 14:42	27°♄36'57	4.12749 AU		-12172 Mar 29 j 02:20	0°♄	
direct	-12178 Jun 15 j 05:25	22°♄40'25		evening set	-12172 Apr 11 j 19:59	3°♄00'54	
	-12178 Aug 24 j 17:07	0°♄		max. Earth dist.	-12172 Apr 24 j 08:17	5°♄48'32	6.28605 AU
evening set	-12178 Oct 16 j 00:39	11°♄14'14					
				conjunction	-12172 Apr 25 j 02:56	5°♄58'58	-0°27'03
conjunction	-12178 Oct 29 j 04:55	14°♄18'53	0°11'49	minimum elong	-12172 Apr 25 j 02:59	5°♄58'59	0°27'39
minimum elong	-12178 Oct 29 j 04:56	14°♄18'54	0°12'22	morning rise	-12172 May 08 j 06:32	8°♄55'14	
behind sun begin	-12178 Oct 28 j 23:32	14°♄15'45			-12172 Jun 05 j 10:51	15°♄	
behind sun end	-12178 Oct 29 j 10:20	14°♄22'02		retrograde	-12172 Sep 06 j 04:41	26°♄24'15	
max. Earth dist.	-12178 Oct 30 j 02:45	14°♄31'39	6.09851 AU	asc. node	-12172 Oct 28 j 09:26	22°♄29'40	
	-12178 Nov 01 j 03:13	15°♄		opposition	-12172 Nov 04 j 23:16	21°♄30'55	0°01'39
morning rise	-12178 Nov 11 j 12:49	17°♄25'32		min. Earth dist.	-12172 Nov 05 j 14:44	21°♄25'53	4.31141 AU
	-12177 Jan 09 j 21:55	0°♄		direct	-12171 Jan 06 j 01:35	16°♄28'09	
desc. node	-12177 Jan 12 j 08:37	0°♄25'59			-12171 Apr 22 j 11:49	0°♄	
retrograde	-12177 Mar 22 j 23:22	7°♄13'32		evening set	-12171 May 14 j 10:09	4°♄45'04	
opposition	-12177 May 22 j 09:53	2°♄09'38	-0°30'43	max. Earth dist.	-12171 May 26 j 06:51	7°♄23'34	6.32788 AU
min. Earth dist.	-12177 May 21 j 16:06	2°♄15'36	4.07889 AU				
	-12177 Jun 08 j 02:10	30°♄♄		conjunction	-12171 May 27 j 08:16	7°♄37'46	0°30'40
direct	-12177 Jul 19 j 18:09	27°♄14'23		minimum elong	-12171 May 27 j 08:13	7°♄37'45	0°30'22
	-12177 Aug 30 j 00:49	0°♄		morning rise	-12171 Jun 09 j 03:03	10°♄28'49	
evening set	-12177 Nov 20 j 18:07	16°♄09'09		retrograde	-12171 Oct 07 j 23:44	27°♄48'16	
				opposition	-12171 Dec 07 j 12:21	22°♄56'27	1°22'21
conjunction	-12177 Dec 04 j 07:09	19°♄18'53	-0°50'06	min. Earth dist.	-12171 Dec 08 j 07:22	22°♄50'22	4.33516 AU
minimum elong	-12177 Dec 04 j 07:04	19°♄18'49	0°49'56	direct	-12170 Feb 07 j 23:48	17°♄56'23	
max. Earth dist.	-12177 Dec 05 j 11:29	19°♄35'27	6.06954 AU		-12170 May 18 j 02:11	0°♄	
morning rise	-12177 Dec 17 j 23:20	22°♄30'12		evening set	-12170 Jun 14 j 22:47	6°♄00'27	
	-12176 Jan 20 j 11:38	0°♄		max. Earth dist.	-12170 Jun 26 j 09:06	8°♄34'00	6.33076 AU
retrograde	-12176 Apr 26 j 21:02	12°♄21'55					
opposition	-12176 Jun 25 j 12:38	7°♄16'58	-1°53'16	conjunction	-12170 Jun 27 j 11:54	8°♄49'03	1°18'53
min. Earth dist.	-12176 Jun 24 j 18:08	7°♄23'18	4.07302 AU	minimum elong	-12170 Jun 27 j 11:48	8°♄49'00	1°18'58
direct	-12176 Aug 22 j 17:58	2°♄18'25		morning rise	-12170 Jul 09 j 23:03	11°♄36'39	
evening set	-12176 Dec 26 j 18:22	21°♄28'49		retrograde	-12170 Nov 09 j 08:05	29°♄09'13	
				opposition	-12169 Jan 09 j 12:37	24°♄16'58	2°19'03
conjunction	-12175 Jan 09 j 11:19	24°♄39'11	-1°33'59	min. Earth dist.	-12169 Jan 10 j 05:32	24°♄11'36	4.31827 AU

Attention, astronomical year style is used: The year -12169 in astronomical counting style is the year 12170 BCE in historical counting style.

direct	-12169 Mar 12 j 17:38	19° Υ 19'58		direct	-12164 Aug 27 j 14:42	7° $\underline{\mathbf{A}}$ 16'04	
	-12169 Jun 12 j 00:20	0° \mathbf{B}		evening set	-12164 Dec 31 j 21:43	26° $\underline{\mathbf{A}}$ 26'53	
evening set	-12169 Jul 16 j 00:58	7° \mathbf{B} 20'10					
conjunction	-12169 Jul 28 j 09:15	10° \mathbf{B} 07'48	1°44'16	conjunction	-12163 Jan 14 j 14:34	29° $\underline{\mathbf{A}}$ 36'54	-1°37'32
minimum elong	-12169 Jul 28 j 09:13	10° \mathbf{B} 07'47	1°44'42	minimum elong	-12163 Jan 14 j 14:30	29° $\underline{\mathbf{A}}$ 36'52	1°37'52
max. Earth dist.	-12169 Jul 27 j 15:08	9° \mathbf{B} 57'31	6.29432 AU	max. Earth dist.	-12163 Jan 15 j 14:04	29° $\underline{\mathbf{A}}$ 50'30	6.09313 AU
morning rise	-12169 Aug 09 j 16:59	12° \mathbf{B} 55'19		morning rise	-12163 Jan 16 j 06:29	0° \mathbf{M}	
	-12169 Aug 18 j 23:47	15° \mathbf{B}			-12163 Jan 28 j 08:30	2° \mathbf{M} 47'20	
	-12169 Nov 17 j 03:38	0° \mathbf{II}		retrograde	-12163 Mar 27 j 05:58	15° \mathbf{M}	
retrograde	-12169 Dec 12 j 16:01	0° \mathbf{II} 59'11		opposition	-12163 Jun 05 j 15:31	22° \mathbf{M} 09'58	
	-12168 Jan 07 j 06:33	30° \mathbf{R} \mathbf{B}		opposition	-12163 Aug 03 j 15:58	17° \mathbf{M} 06'52	-2°35'28
opposition	-12168 Feb 12 j 07:04	26° \mathbf{B} 04'47	2°35'20	min. Earth dist.	-12163 Aug 03 j 04:14	17° \mathbf{M} 10'54	4.12025 AU
min. Earth dist.	-12168 Feb 12 j 16:13	26° \mathbf{B} 01'53	4.26554 AU		-12163 Aug 19 j 15:08	15° \mathbf{R} \mathbf{M}	
direct	-12168 Apr 13 j 15:32	21° \mathbf{B} 10'32		direct	-12163 Oct 01 j 14:46	12° \mathbf{M} 04'41	
	-12168 Jul 03 j 06:38	0° \mathbf{II}			-12163 Nov 13 j 21:58	15° \mathbf{M}	
evening set	-12168 Aug 15 j 10:03	9° \mathbf{II} 15'11		evening set	-12162 Feb 01 j 06:34	0° \mathbf{A}	
					-12162 Feb 06 j 19:54	1° \mathbf{A} 15'22	
conjunction	-12168 Aug 27 j 20:06	12° \mathbf{II} 06'07	1°38'41	conjunction	-12162 Feb 20 j 12:02	4° \mathbf{A} 22'25	-1°41'58
minimum elong	-12168 Aug 27 j 20:09	12° \mathbf{II} 06'09	1°39'21	minimum elong	-12162 Feb 20 j 12:04	4° \mathbf{A} 22'27	1°42'37
max. Earth dist.	-12168 Aug 27 j 13:44	12° \mathbf{II} 02'28	6.22910 AU	max. Earth dist.	-12162 Feb 20 j 22:20	4° \mathbf{A} 28'19	6.15181 AU
morning rise	-12168 Sep 09 j 07:48	14° \mathbf{II} 58'01		morning rise	-12162 Mar 06 j 02:59	7° \mathbf{A} 28'47	
	-12168 Nov 25 j 11:31	0° \mathbf{B}		retrograde	-12162 Jul 09 j 07:23	26° \mathbf{A} 07'57	
retrograde	-12167 Jan 15 j 06:13	3° \mathbf{B} 42'54		opposition	-12162 Sep 06 j 04:02	21° \mathbf{A} 08'17	-2°14'25
	-12167 Mar 08 j 01:12	30° \mathbf{R} \mathbf{II}		min. Earth dist.	-12162 Sep 06 j 03:07	21° \mathbf{A} 08'36	4.18946 AU
opposition	-12167 Mar 17 j 20:37	28° \mathbf{II} 45'04	2°03'33	direct	-12162 Nov 05 j 07:02	16° \mathbf{A} 04'14	
min. Earth dist.	-12167 Mar 17 j 19:10	28° \mathbf{II} 45'32	4.19207 AU		-12161 Feb 19 j 15:59	0° \mathbf{B}	
direct	-12167 May 17 j 01:21	23° \mathbf{II} 52'08		evening set	-12161 Mar 14 j 11:36	5° \mathbf{B} 00'09	
	-12167 Jul 20 j 17:39	0° \mathbf{B}					
evening set	-12167 Sep 16 j 20:05	12° \mathbf{B} 09'03		conjunction	-12161 Mar 28 j 00:13	8° \mathbf{B} 02'49	-1°11'36
				minimum elong	-12161 Mar 28 j 00:19	8° \mathbf{B} 02'52	1°12'20
conjunction	-12167 Sep 29 j 14:46	15° \mathbf{B} 06'57	1°01'38	max. Earth dist.	-12161 Mar 27 j 17:46	7° \mathbf{B} 59'10	6.22628 AU
minimum elong	-12167 Sep 29 j 14:51	15° \mathbf{B} 07'00	1°02'20	morning rise	-12161 Apr 10 j 10:06	11° \mathbf{B} 04'00	
max. Earth dist.	-12167 Sep 30 j 00:52	15° \mathbf{B} 12'49	6.15450 AU	retrograde	-12161 Aug 10 j 18:07	28° \mathbf{B} 59'37	
morning rise	-12167 Oct 12 j 12:27	18° \mathbf{B} 06'34		opposition	-12161 Oct 08 j 23:42	24° \mathbf{B} 03'43	-1°10'20
	-12167 Dec 07 j 17:13	0° \mathbf{Q}		min. Earth dist.	-12161 Oct 09 j 08:16	24° \mathbf{B} 00'53	4.26177 AU
retrograde	-12166 Feb 19 j 21:08	7° \mathbf{Q} 30'35		direct	-12161 Dec 09 j 06:33	18° \mathbf{B} 59'37	
opposition	-12166 Apr 22 j 00:07	2° \mathbf{Q} 29'08	0°49'37		-12160 Mar 11 j 20:42	0° \mathbf{A}	
min. Earth dist.	-12166 Apr 21 j 12:18	2° \mathbf{Q} 33'01	4.12146 AU	evening set	-12160 Apr 16 j 10:33	7° \mathbf{A} 34'14	
	-12166 May 11 j 20:21	30° \mathbf{R} \mathbf{B}					
direct	-12166 Jun 20 j 01:04	27° \mathbf{B} 35'45		conjunction	-12160 Apr 29 j 16:26	10° \mathbf{A} 31'38	-0°19'05
	-12166 Jul 28 j 17:21	0° \mathbf{Q}		minimum elong	-12160 Apr 29 j 16:28	10° \mathbf{A} 31'39	0°19'39
	-12166 Oct 15 j 19:07	15° \mathbf{Q}		max. Earth dist.	-12160 Apr 28 j 20:33	10° \mathbf{A} 20'31	6.29194 AU
evening set	-12166 Oct 20 j 22:18	16° \mathbf{Q} 11'19		morning rise	-12160 May 12 j 18:52	13° \mathbf{A} 27'14	
					-12160 May 19 j 18:40	15° \mathbf{A}	
conjunction	-12166 Nov 03 j 03:51	19° \mathbf{Q} 16'43	0°02'59		-12160 Aug 17 j 20:05	0° \mathbf{H}	
minimum elong	-12166 Nov 03 j 03:50	19° \mathbf{Q} 16'42	0°03'28	asc. node	-12160 Sep 07 j 20:50	0° \mathbf{H} 53'30	
behind sun begin	-12166 Nov 02 j 19:40	19° \mathbf{Q} 11'57		retrograde	-12160 Sep 10 j 15:33	0° \mathbf{H} 54'15	
behind sun end	-12166 Nov 03 j 12:01	19° \mathbf{Q} 21'28			-12160 Oct 04 j 10:18	30° \mathbf{R} \mathbf{A}	
max. Earth dist.	-12166 Nov 04 j 02:14	19° \mathbf{Q} 29'48	6.09498 AU	opposition	-12160 Nov 09 j 11:47	26° \mathbf{A} 01'18	0°13'32
morning rise	-12166 Nov 16 j 13:11	22° \mathbf{Q} 24'07		min. Earth dist.	-12160 Nov 10 j 04:24	25° \mathbf{A} 55'54	4.31508 AU
desc. node	-12166 Nov 21 j 16:29	23° \mathbf{Q} 35'23		direct	-12159 Jan 10 j 16:20	20° \mathbf{A} 58'54	
	-12166 Dec 20 j 13:31	0° \mathbf{M}			-12159 Apr 04 j 12:36	0° \mathbf{H}	
retrograde	-12165 Mar 27 j 23:04	12° \mathbf{M} 13'02		evening set	-12159 May 18 j 21:09	9° \mathbf{H} 14'15	
opposition	-12165 May 27 j 07:52	7° \mathbf{M} 08'47	-0°43'38				
min. Earth dist.	-12165 May 26 j 13:30	7° \mathbf{M} 14'58	4.07811 AU	conjunction	-12159 May 31 j 17:57	12° \mathbf{H} 06'22	0°38'18
direct	-12165 Jul 24 j 15:12	2° \mathbf{M} 13'05		minimum elong	-12159 May 31 j 17:53	12° \mathbf{H} 06'20	0°38'03
evening set	-12165 Nov 25 j 20:02	21° \mathbf{M} 09'28		max. Earth dist.	-12159 May 30 j 15:23	11° \mathbf{H} 51'31	6.32903 AU
				morning rise	-12159 Jun 13 j 11:39	14° \mathbf{H} 56'54	
conjunction	-12165 Dec 09 j 10:00	24° \mathbf{M} 19'27	-0°57'45		-12159 Sep 03 j 16:33	0° \mathbf{Y}	
minimum elong	-12165 Dec 09 j 09:54	24° \mathbf{M} 19'23	0°57'39	retrograde	-12159 Oct 12 j 11:22	2° \mathbf{Y} 17'24	
max. Earth dist.	-12165 Dec 10 j 15:48	24° \mathbf{M} 36'51	6.07158 AU		-12159 Nov 20 j 18:52	30° \mathbf{R} \mathbf{H}	
morning rise	-12165 Dec 23 j 02:35	27° \mathbf{M} 30'49		opposition	-12159 Dec 12 j 02:21	27° \mathbf{H} 25'38	1°32'09
	-12164 Jan 02 j 22:21	0° \mathbf{A}		min. Earth dist.	-12159 Dec 12 j 20:55	27° \mathbf{H} 19'42	4.33415 AU
retrograde	-12164 May 01 j 19:38	17° \mathbf{A} 19'55		direct	-12158 Feb 12 j 13:19	22° \mathbf{H} 26'01	
opposition	-12164 Jun 30 j 08:16	12° \mathbf{A} 15'04	-2°01'55		-12158 Apr 29 j 07:41	0° \mathbf{Y}	
min. Earth dist.	-12164 Jun 29 j 14:45	12° \mathbf{A} 21'03	4.07794 AU	evening set	-12158 Jun 19 j 07:45	10° \mathbf{Y} 29'24	

Attention, astronomical year style is used: The year -12158 in astronomical counting style is the year 12159 BCE in historical counting style.

conjunction	-12158 Jul 01 j 19:59	13° Υ 17'41	1°24'02	minimum elong	-12153 Dec 14 j 10:32	29° \mathbb{M} 14'51	1°04'48
minimum elong	-12158 Jul 01 j 19:53	13° Υ 17'37	1°24'11	max. Earth dist.	-12153 Dec 15 j 14:31	29° \mathbb{M} 31'11	6.07142 AU
max. Earth dist.	-12158 Jun 30 j 19:35	13° Υ 03'57	6.32772 AU		-12153 Dec 17 j 15:55	0° $\underline{\mathbf{A}}$	
morning rise	-12158 Jul 14 j 06:11	16° Υ 05'01		morning rise	-12153 Dec 28 j 03:55	2° $\underline{\mathbf{A}}$ 26'30	
	-12158 Sep 24 j 16:10	0° \mathbf{B}		retrograde	-12152 May 06 j 14:33	22° $\underline{\mathbf{A}}$ 13'54	
retrograde	-12158 Nov 13 j 22:13	3° \mathbf{B} 40'58		min. Earth dist.	-12152 Jul 04 j 08:17	17° $\underline{\mathbf{A}}$ 15'08	4.07995 AU
	-12157 Jan 04 j 16:43	30° $\mathbf{R}\Upsilon$		opposition	-12152 Jul 05 j 01:41	17° $\underline{\mathbf{A}}$ 09'11	-2°09'34
opposition	-12157 Jan 14 j 05:04	28° Υ 48'33	2°24'00	direct	-12152 Sep 01 j 09:01	12° $\underline{\mathbf{A}}$ 09'41	
min. Earth dist.	-12157 Jan 14 j 20:58	28° Υ 43'32	4.31363 AU		-12152 Dec 31 j 00:02	0° \mathbb{M}	
direct	-12157 Mar 17 j 08:18	23° Υ 52'05		evening set	-12151 Jan 05 j 23:44	1° \mathbb{M} 22'13	
	-12157 May 23 j 01:56	0° \mathbf{B}					
evening set	-12157 Jul 20 j 09:40	11° \mathbf{B} 52'00		conjunction	-12151 Jan 19 j 16:49	4° \mathbb{M} 32'07	-1°40'21
				minimum elong	-12151 Jan 19 j 16:45	4° \mathbb{M} 32'05	1°40'43
conjunction	-12157 Aug 01 j 17:35	14° \mathbf{B} 39'45	1°45'25	max. Earth dist.	-12151 Jan 20 j 15:07	4° \mathbb{M} 45'01	6.09714 AU
minimum elong	-12157 Aug 01 j 17:33	14° \mathbf{B} 39'44	1°45'54	morning rise	-12151 Feb 02 j 10:29	7° \mathbb{M} 42'14	
max. Earth dist.	-12157 Aug 01 j 00:08	14° \mathbf{B} 29'50	6.28827 AU		-12151 Mar 07 j 08:38	15° \mathbb{M}	
	-12157 Aug 03 j 05:14	15° \mathbf{B}		retrograde	-12151 Jun 10 j 09:58	27° \mathbb{M} 00'43	
morning rise	-12157 Aug 14 j 01:32	17° \mathbf{B} 27'34		opposition	-12151 Aug 08 j 07:49	21° \mathbb{M} 58'02	-2°35'42
	-12157 Oct 15 j 02:55	0° \mathbb{I}		min. Earth dist.	-12151 Aug 07 j 22:16	22° \mathbb{M} 01'18	4.12585 AU
retrograde	-12157 Dec 17 j 09:44	5° \mathbb{I} 36'06		direct	-12151 Oct 06 j 10:11	16° \mathbb{M} 55'31	
opposition	-12156 Feb 17 j 01:41	0° \mathbb{I} 41'15	2°33'44		-12150 Jan 15 j 04:55	0° \mathbf{A}	
min. Earth dist.	-12156 Feb 17 j 09:09	0° \mathbb{I} 38'52	4.25849 AU	evening set	-12150 Feb 11 j 19:58	6° \mathbf{A} 05'59	
	-12156 Feb 22 j 11:54	30° $\mathbf{R}\mathbf{B}$					
direct	-12156 Apr 18 j 07:04	25° \mathbf{B} 47'15		conjunction	-12150 Feb 25 j 11:54	9° \mathbf{A} 12'42	-1°39'37
	-12156 Jun 10 j 22:14	0° \mathbb{I}		minimum elong	-12150 Feb 25 j 11:58	9° \mathbf{A} 12'44	1°40'16
evening set	-12156 Aug 19 j 20:21	13° \mathbb{I} 52'15		max. Earth dist.	-12150 Feb 25 j 20:11	9° \mathbf{A} 17'25	6.15859 AU
				morning rise	-12150 Mar 11 j 02:25	12° \mathbf{A} 18'34	
conjunction	-12156 Sep 01 j 07:19	16° \mathbb{I} 43'53	1°35'16		-12150 Jun 20 j 19:57	0° \mathbf{B}	
minimum elong	-12156 Sep 01 j 07:23	16° \mathbb{I} 43'55	1°35'58	retrograde	-12150 Jul 13 j 20:17	0° \mathbf{B} 52'33	
max. Earth dist.	-12156 Sep 01 j 04:29	16° \mathbb{I} 42'15	6.22173 AU		-12150 Aug 05 j 18:05	30° $\mathbf{R}\mathbf{A}$	
morning rise	-12156 Sep 13 j 19:55	19° \mathbb{I} 36'31		opposition	-12150 Sep 10 j 18:13	25° \mathbf{A} 53'23	-2°07'36
	-12156 Nov 01 j 15:49	0° \mathbf{B}		min. Earth dist.	-12150 Sep 10 j 17:44	25° \mathbf{A} 53'33	4.19685 AU
retrograde	-12155 Jan 20 j 02:51	8° \mathbf{B} 25'58		direct	-12150 Nov 09 j 23:36	20° \mathbf{A} 49'14	
opposition	-12155 Mar 22 j 16:28	3° \mathbf{B} 27'41	1°55'26		-12149 Feb 01 j 03:49	0° \mathbf{B}	
min. Earth dist.	-12155 Mar 22 j 13:42	3° \mathbf{B} 28'35	4.18478 AU	evening set	-12149 Mar 19 j 07:30	9° \mathbf{B} 43'23	
	-12155 Apr 21 j 14:29	30° $\mathbf{R}\mathbb{I}$					
direct	-12155 May 21 j 17:36	28° \mathbb{I} 34'49		conjunction	-12149 Apr 01 j 19:22	12° \mathbf{B} 45'28	-1°05'12
	-12155 Jun 20 j 14:08	0° \mathbf{B}		minimum elong	-12149 Apr 01 j 19:28	12° \mathbf{B} 45'31	1°05'55
evening set	-12155 Sep 21 j 10:12	16° \mathbf{B} 52'52		max. Earth dist.	-12149 Apr 01 j 10:34	12° \mathbf{B} 40'30	6.23401 AU
				morning rise	-12149 Apr 15 j 04:29	15° \mathbf{B} 46'01	
conjunction	-12155 Oct 04 j 06:08	19° \mathbf{B} 51'39	0°54'28		-12149 Jun 27 j 17:51	0° \approx	
minimum elong	-12155 Oct 04 j 06:13	19° \mathbf{B} 51'42	0°55'10	retrograde	-12149 Aug 15 j 06:41	3° \approx 37'16	
max. Earth dist.	-12155 Oct 04 j 16:55	19° \mathbf{B} 57'56	6.14789 AU		-12149 Oct 03 j 13:35	30° $\mathbf{R}\mathbf{B}$	
morning rise	-12155 Oct 17 j 05:30	22° \mathbf{B} 52'18		opposition	-12149 Oct 13 j 13:05	28° \mathbf{B} 41'50	-0°59'11
	-12155 Nov 18 j 05:32	0° \mathbb{O}		min. Earth dist.	-12149 Oct 13 j 23:27	28° \mathbf{B} 38'24	4.26900 AU
retrograde	-12154 Feb 24 j 18:45	12° \mathbb{O} 19'49		direct	-12149 Dec 14 j 00:17	23° \mathbf{B} 37'52	
opposition	-12154 Apr 26 j 20:11	7° \mathbb{O} 17'52	0°37'16		-12148 Feb 20 j 12:29	0° \approx	
min. Earth dist.	-12154 Apr 26 j 07:04	7° \mathbb{O} 22'12	4.11581 AU	evening set	-12148 Apr 21 j 01:30	12° \approx 09'55	
direct	-12154 Jun 24 j 17:55	2° \mathbb{O} 24'14		max. Earth dist.	-12148 May 03 j 09:58	14° \approx 55'14	6.29823 AU
	-12154 Sep 29 j 01:38	15° \mathbb{O}			-12148 May 03 j 18:29	15° \approx	
desc. node	-12154 Oct 02 j 09:16	15° \mathbb{O} 43'34					
evening set	-12154 Oct 25 j 17:19	21° \mathbb{O} 01'52		conjunction	-12148 May 04 j 06:22	15° \approx 06'38	-0°10'56
				minimum elong	-12148 May 04 j 06:22	15° \approx 06'38	0°11'27
conjunction	-12154 Nov 08 j 00:22	24° \mathbb{O} 08'04	-0°05'50	behind sun begin	-12148 May 04 j 00:31	15° \approx 03'23	
minimum elong	-12154 Nov 08 j 00:21	24° \mathbb{O} 08'03	0°05'24	behind sun end	-12148 May 04 j 12:14	15° \approx 09'54	
behind sun begin	-12154 Nov 07 j 16:23	24° \mathbb{O} 03'25		morning rise	-12148 May 17 j 07:37	18° \approx 01'31	
behind sun end	-12154 Nov 08 j 08:18	24° \mathbb{O} 12'41			-12148 Jul 16 j 02:49	0° \mathbf{H}	
max. Earth dist.	-12154 Nov 09 j 01:08	24° \mathbb{O} 22'33	6.09092 AU	asc. node	-12148 Jul 18 j 06:23	0° \mathbf{H} 20'44	
morning rise	-12154 Nov 21 j 10:52	27° \mathbb{O} 16'11		retrograde	-12148 Sep 15 j 01:09	5° \mathbf{H} 26'18	
	-12154 Dec 03 j 07:59	0° \mathbb{M}		opposition	-12148 Nov 14 j 01:01	0° \mathbf{H} 33'31	0°25'26
retrograde	-12153 Apr 01 j 21:48	17° \mathbb{M} 06'20		min. Earth dist.	-12148 Nov 14 j 17:11	0° \mathbf{H} 28'17	4.32001 AU
min. Earth dist.	-12153 May 31 j 09:27	12° \mathbb{M} 07'54	4.07603 AU		-12148 Nov 18 j 08:48	30° $\mathbf{R}\approx$	
opposition	-12153 Jun 01 j 03:12	12° \mathbb{M} 01'55	-0°55'58	direct	-12147 Jan 15 j 06:40	25° \approx 31'26	
direct	-12153 Jul 29 j 09:34	7° \mathbb{M} 05'50			-12147 Mar 13 j 04:42	0° \mathbf{H}	
evening set	-12153 Nov 30 j 20:08	26° \mathbb{M} 04'42		evening set	-12147 May 23 j 07:55	13° \mathbf{H} 44'22	
				max. Earth dist.	-12147 Jun 04 j 01:12	16° \mathbf{H} 21'08	6.33214 AU
conjunction	-12153 Dec 14 j 10:39	29° \mathbb{M} 14'55	-1°04'50				

Attention, astronomical year style is used: The year -12147 in astronomical counting style is the year 12148 BCE in historical counting style.

conjunction	-12147 Jun 05 j 03:22	16° X 35'45	0°45'44	max. Earth dist.	-12142 Nov 13 j 23:49	29° Ω 18'27	6.08349 AU
minimum elong	-12147 Jun 05 j 03:17	16° X 35'43	0°45'33		-12142 Nov 16 j 22:50	0° M	
morning rise	-12147 Jun 17 j 19:50	19° X 25'38		morning rise	-12142 Nov 26 j 11:32	2° M 13'18	
	-12147 Aug 08 j 12:20	0° Y		retrograde	-12141 Apr 06 j 21:16	22° M 05'37	
retrograde	-12147 Oct 16 j 23:15	6° Y 46'33		min. Earth dist.	-12141 Jun 05 j 05:55	17° M 07'21	4.07123 AU
opposition	-12147 Dec 16 j 16:35	1° Y 54'46	1°41'25	opposition	-12141 Jun 06 j 00:38	17° M 01'00	-1°08'11
min. Earth dist.	-12147 Dec 17 j 11:36	1° Y 48'43	4.33506 AU	direct	-12141 Aug 03 j 05:08	12° M 04'28	
	-12146 Jan 01 j 02:42	30° X			-12141 Dec 01 j 03:53	0° $\underline{\text{A}}$	
direct	-12146 Feb 17 j 04:41	26° X 55'33		evening set	-12141 Dec 05 j 23:49	1° $\underline{\text{A}}$ 07'00	
	-12146 Apr 04 j 15:50	0° Y					
evening set	-12146 Jun 23 j 15:54	14° Y 57'14		conjunction	-12141 Dec 19 j 15:08	4° $\underline{\text{A}}$ 17'36	-1°11'38
max. Earth dist.	-12146 Jul 05 j 02:38	17° Y 31'20	6.32596 AU	minimum elong	-12141 Dec 19 j 15:01	4° $\underline{\text{A}}$ 17'32	1°11'40
				max. Earth dist.	-12141 Dec 20 j 19:33	4° $\underline{\text{A}}$ 34'11	6.06955 AU
conjunction	-12146 Jul 06 j 03:08	17° Y 45'07	1°28'42	morning rise	-12140 Jan 02 j 08:43	7° $\underline{\text{A}}$ 29'22	
minimum elong	-12146 Jul 06 j 03:03	17° Y 45'04	1°28'53	retrograde	-12140 May 11 j 15:19	27° $\underline{\text{A}}$ 15'27	
morning rise	-12146 Jul 18 j 12:43	20° Y 32'13		opposition	-12140 Jul 09 j 22:29	22° $\underline{\text{A}}$ 10'54	-2°16'31
	-12146 Sep 01 j 17:36	0° Z		min. Earth dist.	-12140 Jul 09 j 06:37	22° $\underline{\text{A}}$ 16'21	4.08128 AU
retrograde	-12146 Nov 18 j 11:17	8° Z 11'09		direct	-12140 Sep 06 j 08:00	17° $\underline{\text{A}}$ 10'59	
opposition	-12145 Jan 18 j 20:45	3° Z 18'25	2°28'06		-12140 Dec 13 j 11:23	0° M	
min. Earth dist.	-12145 Jan 19 j 11:18	3° Z 13'48	4.30937 AU	evening set	-12139 Jan 11 j 05:27	6° M 25'20	
	-12145 Feb 16 j 14:09	30° X					
direct	-12145 Mar 21 j 21:26	28° Y 22'15		conjunction	-12139 Jan 24 j 22:36	9° M 35'04	-1°42'31
	-12145 Apr 23 j 24:00	0° Z		minimum elong	-12139 Jan 24 j 22:33	9° M 35'02	1°42'58
	-12145 Jul 18 j 15:48	15° Z		max. Earth dist.	-12139 Jan 25 j 19:58	9° M 47'24	6.10146 AU
evening set	-12145 Jul 24 j 17:29	16° Z 21'50		morning rise	-12139 Feb 07 j 16:04	12° M 44'51	
max. Earth dist.	-12145 Aug 05 j 10:42	19° Z 01'24	6.28172 AU		-12139 Feb 17 j 13:35	15° M	
					-12139 May 11 j 03:33	0° Z	
conjunction	-12145 Aug 06 j 01:27	19° Z 09'47	1°45'58	retrograde	-12139 Jun 15 j 04:56	1° Z 58'36	
minimum elong	-12145 Aug 06 j 01:26	19° Z 09'47	1°46'29		-12139 Jul 19 j 23:34	30° X	
morning rise	-12145 Aug 18 j 09:25	21° Z 57'54		opposition	-12139 Aug 13 j 02:35	26° M 56'24	-2°34'53
	-12145 Sep 24 j 15:55	0° II		min. Earth dist.	-12139 Aug 12 j 17:01	26° M 59'40	4.13312 AU
retrograde	-12145 Dec 22 j 03:29	10° II 11'15		direct	-12139 Oct 11 j 06:54	21° M 53'39	
opposition	-12144 Feb 21 j 19:34	5° II 16'00	2°31'16		-12139 Dec 26 j 12:25	0° Z	
min. Earth dist.	-12144 Feb 22 j 02:29	5° II 13'49	4.24996 AU	evening set	-12138 Feb 16 j 23:14	11° Z 03'09	
direct	-12144 Apr 22 j 22:03	0° II 22'14					
evening set	-12144 Aug 24 j 06:29	18° II 28'15		conjunction	-12138 Mar 02 j 14:40	14° Z 09'18	-1°36'33
				minimum elong	-12138 Mar 02 j 14:44	14° Z 09'20	1°37'13
conjunction	-12144 Sep 05 j 18:15	21° II 20'39	1°31'19	max. Earth dist.	-12138 Mar 02 j 20:26	14° Z 12'35	6.16846 AU
minimum elong	-12144 Sep 05 j 18:19	21° II 20'42	1°32'01	morning rise	-12138 Mar 16 j 04:38	17° Z 14'31	
max. Earth dist.	-12144 Sep 05 j 15:40	21° II 19'10	6.21187 AU		-12138 May 17 j 16:37	0° Z	
morning rise	-12144 Sep 18 j 08:12	24° II 14'17		retrograde	-12138 Jul 18 j 12:44	5° Z 42'01	
	-12144 Oct 14 j 04:52	0° III		opposition	-12138 Sep 15 j 10:44	0° Z 43'24	-1°59'50
retrograde	-12143 Jan 24 j 23:21	13° III 09'21		min. Earth dist.	-12138 Sep 15 j 12:08	0° Z 42'56	4.20844 AU
opposition	-12143 Mar 27 j 12:26	8° III 10'29	1°46'37		-12138 Sep 20 j 19:59	30° X	
min. Earth dist.	-12143 Mar 27 j 07:47	8° III 11'59	4.17413 AU	direct	-12138 Nov 14 j 21:32	25° Z 39'13	
direct	-12143 May 26 j 08:59	3° III 17'34			-12137 Jan 08 j 17:58	0° Z	
evening set	-12143 Sep 26 j 01:13	21° III 38'08		evening set	-12137 Mar 24 j 04:39	14° Z 29'49	
conjunction	-12143 Oct 08 j 22:51	24° III 38'05	0°46'55	conjunction	-12137 Apr 06 j 15:50	17° Z 31'06	-0°58'20
minimum elong	-12143 Oct 08 j 22:56	24° III 38'08	0°47'35	minimum elong	-12137 Apr 06 j 15:56	17° Z 31'09	0°59'02
max. Earth dist.	-12143 Oct 09 j 12:39	24° III 46'07	6.13757 AU	max. Earth dist.	-12137 Apr 06 j 06:59	17° Z 26'08	6.24673 AU
morning rise	-12143 Oct 21 j 23:42	27° III 39'53		morning rise	-12137 Apr 19 j 23:49	20° Z 30'43	
	-12143 Nov 01 j 04:06	0° Ω			-12137 Jun 04 j 04:16	0° \approx	
	-12142 Jan 22 j 12:46	15° Ω		retrograde	-12137 Aug 19 j 17:08	8° \approx 15'58	
retrograde	-12142 Mar 01 j 19:40	17° Ω 12'08		opposition	-12137 Oct 18 j 03:09	3° \approx 20'59	-0°47'39
	-12142 Apr 08 j 21:42	15° R		min. Earth dist.	-12137 Oct 18 j 13:17	3° \approx 17'39	4.28176 AU
opposition	-12142 May 01 j 17:35	12° Ω 09'46	0°24'31		-12137 Nov 15 j 01:08	30° R	
min. Earth dist.	-12142 May 01 j 04:29	12° Ω 14'07	4.10657 AU	direct	-12137 Dec 18 j 17:05	28° Z 17'15	
direct	-12142 Jun 29 j 12:48	7° Ω 15'53			-12136 Jan 21 j 18:32	0° \approx	
desc. node	-12142 Aug 12 j 22:47	10° Ω 24'50			-12136 Apr 17 j 17:38	15° \approx	
	-12142 Sep 09 j 23:19	15° Ω		evening set	-12136 Apr 25 j 15:58	16° \approx 44'43	
evening set	-12142 Oct 30 j 15:20	25° Ω 57'11					
				conjunction	-12136 May 08 j 19:20	19° \approx 40'23	-0°02'49
conjunction	-12142 Nov 12 j 23:33	29° Ω 04'15	-0°14'36	minimum elong	-12136 May 08 j 19:21	19° \approx 40'23	0°03'18
minimum elong	-12142 Nov 12 j 23:31	29° Ω 04'14	0°14'13	behind sun begin	-12136 May 08 j 11:18	19° \approx 35'55	
behind sun begin	-12142 Nov 12 j 19:38	29° Ω 01'59		behind sun end	-12136 May 09 j 03:24	19° \approx 44'51	
behind sun end	-12142 Nov 13 j 03:24	29° Ω 06'30		max. Earth dist.	-12136 May 07 j 21:19	19° \approx 28'05	6.31014 AU

Attention, astronomical year style is used: The year -12136 in astronomical counting style is the year 12137 BCE in historical counting style.

morning rise	-12136 May 21 j 19:25	22° \approx 34'17			-12130 Oct 31 j 18:40	0° \mathfrak{M}	
asc. node	-12136 May 27 j 17:09	23° \approx 52'34		evening set	-12130 Nov 04 j 13:15	0° \mathfrak{M} 52'36	
	-12136 Jun 25 j 18:04	0° \mathfrak{H}					
retrograde	-12136 Sep 19 j 11:20	9° \mathfrak{H} 55'22		conjunction	-12130 Nov 17 j 22:57	4° \mathfrak{M} 00'43	-0°23'14
opposition	-12136 Nov 18 j 13:29	5° \mathfrak{H} 02'51	0°36'58	minimum elong	-12130 Nov 17 j 22:55	4° \mathfrak{M} 00'41	0°22'53
min. Earth dist.	-12136 Nov 19 j 07:09	4° \mathfrak{H} 57'10	4.33006 AU	max. Earth dist.	-12130 Nov 19 j 01:17	4° \mathfrak{M} 16'08	6.07408 AU
direct	-12135 Jan 19 j 22:59	0° \mathfrak{H} 01'07		morning rise	-12130 Dec 01 j 12:04	7° \mathfrak{M} 10'41	
evening set	-12135 May 27 j 16:38	18° \mathfrak{H} 10'00		retrograde	-12129 Apr 11 j 23:13	27° \mathfrak{M} 05'46	
max. Earth dist.	-12135 Jun 08 j 08:44	20° \mathfrak{H} 45'58	6.33937 AU	opposition	-12129 Jun 10 j 22:04	22° \mathfrak{M} 01'00	-1°19'51
				min. Earth dist.	-12129 Jun 10 j 03:53	22° \mathfrak{M} 07'11	4.06545 AU
conjunction	-12135 Jun 09 j 10:49	21° \mathfrak{H} 00'31	0°52'45	direct	-12129 Aug 08 j 02:46	17° \mathfrak{M} 04'00	
minimum elong	-12135 Jun 09 j 10:44	21° \mathfrak{H} 00'29	0°52'37		-12129 Nov 13 j 20:22	0° \mathfrak{L}	
morning rise	-12135 Jun 22 j 02:00	23° \mathfrak{H} 49'35		evening set	-12129 Dec 11 j 04:09	6° \mathfrak{L} 10'26	
	-12135 Jul 20 j 19:22	0° \mathfrak{Y}					
retrograde	-12135 Oct 21 j 06:43	11° \mathfrak{Y} 09'53		conjunction	-12129 Dec 24 j 20:04	9° \mathfrak{L} 21'20	-1°17'53
opposition	-12135 Dec 21 j 04:10	6° \mathfrak{Y} 18'05	1°49'50	minimum elong	-12129 Dec 24 j 19:57	9° \mathfrak{L} 21'16	1°17'58
min. Earth dist.	-12135 Dec 21 j 22:24	6° \mathfrak{Y} 12'17	4.33916 AU	max. Earth dist.	-12129 Dec 26 j 00:54	9° \mathfrak{L} 38'09	6.06785 AU
direct	-12134 Feb 21 j 15:26	1° \mathfrak{Y} 19'15		morning rise	-12128 Jan 07 j 14:04	12° \mathfrak{L} 33'16	
evening set	-12134 Jun 27 j 21:14	19° \mathfrak{Y} 18'33			-12128 Apr 08 j 11:50	0° \mathfrak{M}	
max. Earth dist.	-12134 Jul 09 j 07:40	21° \mathfrak{Y} 52'33	6.32641 AU	retrograde	-12128 May 16 j 13:11	2° \mathfrak{M} 17'16	
					-12128 Jun 23 j 05:38	30° \mathfrak{R} \mathfrak{L}	
conjunction	-12134 Jul 10 j 07:33	22° \mathfrak{Y} 06'00	1°32'44	opposition	-12128 Jul 14 j 18:49	27° \mathfrak{L} 12'51	-2°22'24
minimum elong	-12134 Jul 10 j 07:29	22° \mathfrak{Y} 05'57	1°32'58	min. Earth dist.	-12128 Jul 14 j 02:23	27° \mathfrak{L} 18'29	4.08413 AU
morning rise	-12134 Jul 22 j 16:26	24° \mathfrak{Y} 52'47		direct	-12128 Sep 11 j 04:49	22° \mathfrak{L} 12'28	
	-12134 Aug 15 j 03:11	0° \mathfrak{Z}			-12128 Nov 23 j 14:56	0° \mathfrak{M}	
retrograde	-12134 Nov 22 j 23:01	12° \mathfrak{Z} 34'15		evening set	-12127 Jan 16 j 11:03	11° \mathfrak{M} 27'42	
opposition	-12133 Jan 23 j 09:26	7° \mathfrak{Z} 41'20	2°31'12				
min. Earth dist.	-12133 Jan 24 j 00:39	7° \mathfrak{Z} 36'31	4.30607 AU	conjunction	-12127 Jan 30 j 04:04	14° \mathfrak{M} 37'04	-1°43'55
direct	-12133 Mar 26 j 09:06	2° \mathfrak{Z} 45'31		minimum elong	-12127 Jan 30 j 04:02	14° \mathfrak{M} 37'03	1°44'24
	-12133 Jul 02 j 18:11	15° \mathfrak{Z}		max. Earth dist.	-12127 Jan 30 j 23:25	14° \mathfrak{M} 48'14	6.10833 AU
evening set	-12133 Jul 28 j 22:12	20° \mathfrak{Z} 44'44			-12127 Jan 31 j 19:50	15° \mathfrak{M}	
				morning rise	-12127 Feb 12 j 21:18	17° \mathfrak{M} 46'23	
conjunction	-12133 Aug 10 j 06:10	23° \mathfrak{Z} 32'57	1°45'53		-12127 Apr 12 j 04:28	0° \mathfrak{Z}	
minimum elong	-12133 Aug 10 j 06:11	23° \mathfrak{Z} 32'58	1°46'27	retrograde	-12127 Jun 19 j 23:29	6° \mathfrak{Z} 54'04	
max. Earth dist.	-12133 Aug 09 j 14:57	23° \mathfrak{Z} 24'17	6.27480 AU	opposition	-12127 Aug 17 j 20:30	1° \mathfrak{Z} 52'11	-2°32'56
morning rise	-12133 Aug 22 j 14:38	26° \mathfrak{Z} 21'32		min. Earth dist.	-12127 Aug 17 j 12:40	1° \mathfrak{Z} 54'52	4.14298 AU
	-12133 Sep 07 j 22:13	0° \mathfrak{I}			-12127 Aug 31 j 21:27	30° \mathfrak{R} \mathfrak{M}	
retrograde	-12133 Dec 26 j 17:29	14° \mathfrak{I} 40'05		direct	-12127 Oct 16 j 05:38	26° \mathfrak{M} 49'03	
opposition	-12132 Feb 26 j 10:15	9° \mathfrak{I} 44'24	2°27'59		-12127 Nov 30 j 20:41	0° \mathfrak{Z}	
min. Earth dist.	-12132 Feb 26 j 15:34	9° \mathfrak{I} 42'42	4.23990 AU	evening set	-12126 Feb 22 j 00:22	15° \mathfrak{Z} 56'06	
direct	-12132 Apr 27 j 07:56	4° \mathfrak{I} 50'48					
evening set	-12132 Aug 28 j 14:13	22° \mathfrak{I} 58'47		conjunction	-12126 Mar 07 j 15:33	19° \mathfrak{Z} 01'36	-1°32'50
				minimum elong	-12126 Mar 07 j 15:38	19° \mathfrak{Z} 01'39	1°33'32
conjunction	-12132 Sep 10 j 03:11	25° \mathfrak{I} 52'12	1°26'54	max. Earth dist.	-12126 Mar 07 j 20:54	19° \mathfrak{Z} 04'38	6.18035 AU
minimum elong	-12132 Sep 10 j 03:16	25° \mathfrak{I} 52'14	1°27'37	morning rise	-12126 Mar 21 j 04:41	22° \mathfrak{Z} 05'59	
max. Earth dist.	-12132 Sep 10 j 02:56	25° \mathfrak{I} 52'03	6.19972 AU		-12126 Apr 26 j 17:10	0° \mathfrak{Z}	
morning rise	-12132 Sep 22 j 18:17	28° \mathfrak{I} 46'53		retrograde	-12126 Jul 23 j 01:37	10° \mathfrak{Z} 26'20	
	-12132 Sep 28 j 02:18	0° \mathfrak{E}		opposition	-12126 Sep 20 j 01:31	5° \mathfrak{Z} 28'13	-1°51'24
retrograde	-12131 Jan 29 j 19:53	17° \mathfrak{E} 48'28		min. Earth dist.	-12126 Sep 20 j 03:29	5° \mathfrak{Z} 27'33	4.22081 AU
opposition	-12131 Apr 01 j 05:58	12° \mathfrak{E} 49'10	1°37'19	direct	-12126 Nov 19 j 15:57	0° \mathfrak{Z} 23'58	
min. Earth dist.	-12131 Apr 01 j 01:25	12° \mathfrak{E} 50'39	4.16065 AU	evening set	-12125 Mar 28 j 23:30	19° \mathfrak{Z} 10'39	
direct	-12131 May 30 j 23:00	7° \mathfrak{E} 56'13					
evening set	-12131 Sep 30 j 15:23	26° \mathfrak{E} 20'47		conjunction	-12125 Apr 11 j 09:37	22° \mathfrak{Z} 11'04	-0°51'13
				minimum elong	-12125 Apr 11 j 09:42	22° \mathfrak{Z} 11'07	0°51'52
conjunction	-12131 Oct 13 j 14:28	29° \mathfrak{E} 22'00	0°39'10	max. Earth dist.	-12125 Apr 10 j 21:17	22° \mathfrak{Z} 04'09	6.25849 AU
minimum elong	-12131 Oct 13 j 14:33	29° \mathfrak{E} 22'03	0°39'48	morning rise	-12125 Apr 24 j 16:45	25° \mathfrak{Z} 09'50	
max. Earth dist.	-12131 Oct 14 j 04:19	29° \mathfrak{E} 30'05	6.12419 AU		-12125 May 16 j 20:17	0° \approx	
	-12131 Oct 16 j 07:35	0° \mathfrak{O}		retrograde	-12125 Aug 24 j 04:20	12° \approx 49'52	
morning rise	-12131 Oct 26 j 17:14	2° \mathfrak{O} 25'13		opposition	-12125 Oct 22 j 15:53	7° \approx 55'17	-0°36'01
	-12131 Dec 25 j 09:27	15° \mathfrak{O}		min. Earth dist.	-12125 Oct 23 j 04:10	7° \approx 51'15	4.29171 AU
retrograde	-12130 Mar 06 j 17:25	22° \mathfrak{O} 03'16		direct	-12125 Dec 23 j 10:41	2° \approx 51'41	
opposition	-12130 May 06 j 13:38	17° \mathfrak{O} 00'30	0°11'44		-12124 Mar 31 j 23:24	15° \approx	
min. Earth dist.	-12130 May 05 j 22:41	17° \mathfrak{O} 05'28	4.09455 AU	asc. node	-12124 Apr 06 j 10:59	16° \approx 07'58	
	-12130 May 22 j 03:49	15° \mathfrak{R} \mathfrak{O}		evening set	-12124 Apr 30 j 04:47	21° \approx 15'43	
desc. node	-12130 Jun 24 j 15:18	12° \mathfrak{O} 15'43		max. Earth dist.	-12124 May 12 j 09:02	23° \approx 58'17	6.31753 AU
direct	-12130 Jul 04 j 04:38	12° \mathfrak{O} 06'21					
	-12130 Aug 15 j 15:12	15° \mathfrak{O}		conjunction	-12124 May 13 j 07:06	24° \approx 10'36	0°05'26

Attention, astronomical year style is used: The year -12124 in astronomical counting style is the year 12125 BCE in historical counting style.

minimum elong	-12124 May 13 j 07:05	24°≈10'35	0°04'59	min. Earth dist.	-12118 May 10 j 21:30	22°Ω04'52	4.08979 AU
behind sun begin	-12124 May 12 j 23:14	24°≈06'13		direct	-12118 Jul 09 j 02:54	17°Ω05'17	
behind sun end	-12124 May 13 j 14:56	24°≈14'57			-12118 Oct 14 j 14:37	0°൬	
morning rise	-12124 May 26 j 05:46	27°≈03'39		evening set	-12118 Nov 09 j 14:08	5°൬53'44	
	-12124 Jun 08 j 15:31	0°✕					
retrograde	-12124 Sep 23 j 19:53	14°✕22'54		conjunction	-12118 Nov 23 j 00:54	9°൬02'21	-0°31'50
opposition	-12124 Nov 23 j 01:41	9°✕30'36	0°48'17	minimum elong	-12118 Nov 23 j 00:50	9°൬02'19	0°31'33
min. Earth dist.	-12124 Nov 23 j 19:07	9°✕25'00	4.33446 AU	max. Earth dist.	-12118 Nov 24 j 04:44	9°൬18'38	6.07332 AU
direct	-12123 Jan 24 j 11:33	4°✕29'14		morning rise	-12118 Dec 06 j 15:03	12°൬12'45	
evening set	-12123 Jun 01 j 01:36	22°✕36'07			-12117 Mar 11 j 02:10	0°Ω	
				retrograde	-12117 Apr 16 j 22:32	2°Ω06'36	
conjunction	-12123 Jun 13 j 18:23	25°✕26'01	0°59'32		-12117 May 23 j 09:37	30°൬	
minimum elong	-12123 Jun 13 j 18:18	25°✕25'58	0°59'28	opposition	-12117 Jun 15 j 19:17	27°൬01'45	-1°30'54
max. Earth dist.	-12123 Jun 12 j 15:02	25°✕10'44	6.34026 AU	min. Earth dist.	-12117 Jun 15 j 00:04	27°൬08'17	4.06912 AU
morning rise	-12123 Jun 26 j 08:35	28°✕14'35		direct	-12117 Aug 12 j 23:05	22°൬04'20	
	-12123 Jul 04 j 07:31	0°Υ			-12117 Oct 25 j 09:56	0°Ω	
retrograde	-12123 Oct 25 j 19:37	15°Υ36'41		evening set	-12117 Dec 16 j 07:37	11°Ω11'13	
opposition	-12123 Dec 25 j 18:03	10°Υ44'52	1°57'50				
min. Earth dist.	-12123 Dec 26 j 13:15	10°Υ38'46	4.33659 AU	conjunction	-12117 Dec 29 j 23:45	14°Ω21'51	-1°23'29
direct	-12122 Feb 26 j 05:28	5°Υ46'26		minimum elong	-12117 Dec 29 j 23:38	14°Ω21'47	1°23'37
evening set	-12122 Jul 02 j 04:41	23°Υ45'26		max. Earth dist.	-12117 Dec 31 j 03:11	14°Ω37'50	6.07520 AU
				morning rise	-12116 Jan 12 j 17:52	17°Ω33'24	
conjunction	-12122 Jul 14 j 14:23	26°Υ32'47	1°36'21		-12116 Mar 11 j 13:01	0°൬	
minimum elong	-12122 Jul 14 j 14:19	26°Υ32'45	1°36'39	retrograde	-12116 May 21 j 07:38	7°൬12'01	
max. Earth dist.	-12122 Jul 13 j 15:14	26°Υ19'44	6.32039 AU	opposition	-12116 Jul 19 j 12:21	2°൬07'48	-2°27'02
morning rise	-12122 Jul 26 j 22:47	29°Υ19'35		min. Earth dist.	-12116 Jul 18 j 21:19	2°൬12'58	4.09442 AU
	-12122 Jul 29 j 23:03	0°✕			-12116 Aug 04 j 14:03	30°൬Ω	
	-12122 Oct 21 j 01:15	15°✕		direct	-12116 Sep 16 j 01:51	27°Ω06'57	
retrograde	-12122 Nov 27 j 13:25	17°✕05'50			-12116 Oct 28 j 17:43	0°൬	
	-12121 Jan 04 j 13:09	15°൬Ω			-12115 Jan 15 j 14:55	15°൬	
opposition	-12121 Jan 28 j 01:53	12°✕12'39	2°33'37	evening set	-12115 Jan 21 j 12:05	16°൬20'22	
min. Earth dist.	-12121 Jan 28 j 15:12	12°✕08'26	4.29729 AU				
direct	-12121 Mar 30 j 21:13	7°✕17'14		conjunction	-12115 Feb 04 j 05:04	19°൬29'07	-1°44'32
	-12121 Jun 14 j 05:46	15°✕		minimum elong	-12115 Feb 04 j 05:03	19°൬29'06	1°45'04
evening set	-12121 Aug 02 j 07:12	25°✕17'46		max. Earth dist.	-12115 Feb 04 j 23:42	19°൬39'50	6.12049 AU
				morning rise	-12115 Feb 17 j 21:38	22°൬37'36	
conjunction	-12121 Aug 14 j 15:26	28°✕06'32	1°45'11		-12115 Mar 23 j 09:23	0°✕	
minimum elong	-12121 Aug 14 j 15:27	28°✕06'32	1°45'46	retrograde	-12115 Jun 24 j 12:38	11°✕37'51	
max. Earth dist.	-12121 Aug 14 j 02:23	27°✕59'04	6.26396 AU	opposition	-12115 Aug 22 j 09:42	6°✕36'29	-2°30'00
	-12121 Aug 22 j 22:13	0°Π		min. Earth dist.	-12115 Aug 22 j 03:12	6°✕38'42	4.15580 AU
morning rise	-12121 Aug 27 j 00:20	0°Π55'46		direct	-12115 Oct 20 j 22:34	1°✕33'07	
retrograde	-12121 Dec 31 j 15:05	19°Π20'48		evening set	-12114 Feb 26 j 20:13	20°✕37'00	
opposition	-12120 Mar 02 j 06:14	14°Π24'43	2°23'38				
min. Earth dist.	-12120 Mar 02 j 11:02	14°Π23'11	4.22777 AU	conjunction	-12114 Mar 12 j 10:42	23°✕41'45	-1°28'41
direct	-12120 May 02 j 00:31	9°Π31'22		minimum elong	-12114 Mar 12 j 10:47	23°✕41'48	1°29'24
evening set	-12120 Sep 02 j 03:12	27°Π41'49		max. Earth dist.	-12114 Mar 12 j 11:32	23°✕42'13	6.19260 AU
	-12120 Sep 12 j 02:38	0°Ω		morning rise	-12114 Mar 25 j 23:16	26°✕45'22	
					-12114 Apr 09 j 13:02	0°Ω	
conjunction	-12120 Sep 14 j 17:19	0°Ω36'17	1°21'44	retrograde	-12114 Jul 27 j 10:47	14°Ω59'16	
minimum elong	-12120 Sep 14 j 17:25	0°Ω36'20	1°22'27	opposition	-12114 Sep 24 j 11:44	10°Ω01'39	-1°42'40
max. Earth dist.	-12120 Sep 14 j 18:38	0°Ω37'02	6.18762 AU	min. Earth dist.	-12114 Sep 24 j 16:05	10°Ω00'12	4.23129 AU
morning rise	-12120 Sep 27 j 10:00	3°Ω32'12		direct	-12114 Nov 24 j 07:07	4°Ω57'19	
retrograde	-12119 Feb 03 j 18:55	22°Ω39'58		evening set	-12113 Apr 02 j 13:22	23°Ω41'09	
opposition	-12119 Apr 06 j 04:36	17°Ω40'11	1°26'55				
min. Earth dist.	-12119 Apr 05 j 21:10	17°Ω42'37	4.14981 AU	conjunction	-12113 Apr 15 j 22:46	26°Ω40'56	-0°44'04
direct	-12119 Jun 04 j 16:27	12°Ω47'19		minimum elong	-12113 Apr 15 j 22:50	26°Ω40'59	0°44'43
	-12119 Sep 30 j 01:03	0°Ω		max. Earth dist.	-12113 Apr 15 j 09:11	26°Ω33'19	6.26656 AU
evening set	-12119 Oct 05 j 10:20	1°Ω14'44		morning rise	-12113 Apr 29 j 04:46	29°Ω38'59	
					-12113 Apr 30 j 18:33	0°≈	
conjunction	-12119 Oct 18 j 11:03	4°Ω17'03	0°30'52		-12113 Jul 21 j 12:42	15°≈	
minimum elong	-12119 Oct 18 j 11:06	4°Ω17'05	0°31'27	retrograde	-12113 Aug 28 j 11:45	17°≈15'39	
max. Earth dist.	-12119 Oct 19 j 04:18	4°Ω27'07	6.11594 AU		-12113 Oct 05 j 17:10	15°൬≈	
morning rise	-12119 Oct 31 j 15:18	7°Ω21'19		opposition	-12113 Oct 27 j 01:18	12°≈21'30	-0°24'36
	-12119 Dec 04 j 22:20	15°Ω		min. Earth dist.	-12113 Oct 27 j 14:31	12°≈17'11	4.29668 AU
retrograde	-12118 Mar 11 j 20:10	27°Ω02'49		direct	-12113 Dec 27 j 21:57	7°≈18'08	
desc. node	-12118 May 05 j 05:57	22°Ω49'50		asc. node	-12112 Feb 17 j 04:53	11°≈00'53	
opposition	-12118 May 11 j 13:01	21°Ω59'42	-0°01'30		-12112 Mar 13 j 10:13	15°≈	

Attention, astronomical year style is used: The year -12112 in astronomical counting style is the year 12113 BCE in historical counting style.

evening set	-12112 May 04 j 14:32	25° \approx 40'36			-12107 Nov 17 j 07:57	15° Ω	
					-12106 Feb 08 j 09:08	0° \mathbb{M}	
conjunction	-12112 May 17 j 15:31	28° \approx 34'54	0°13'14	desc. node	-12106 Mar 15 j 07:47	2° \mathbb{M} 01'34	
minimum elong	-12112 May 17 j 15:30	28° \approx 34'53	0°12'51	retrograde	-12106 Mar 16 j 21:06	2° \mathbb{M} 01'48	
behind sun begin	-12112 May 17 j 10:30	28° \approx 32'07			-12106 Apr 22 j 03:06	30° $\mathbb{R}\Omega$	
behind sun end	-12112 May 17 j 20:30	28° \approx 37'40		opposition	-12106 May 16 j 11:51	26° Ω 58'19	-0°14'46
max. Earth dist.	-12112 May 16 j 14:31	28° \approx 20'57	6.31896 AU	min. Earth dist.	-12106 May 15 j 18:54	27° Ω 03'59	4.08721 AU
	-12112 May 23 j 23:59	0° \mathbb{X}		direct	-12106 Jul 13 j 22:55	22° Ω 03'34	
morning rise	-12112 May 30 j 13:15	1° \mathbb{X} 27'29			-12106 Sep 25 j 08:21	0° \mathbb{M}	
retrograde	-12112 Sep 28 j 06:02	18° \mathbb{X} 47'14		evening set	-12106 Nov 14 j 15:09	10° \mathbb{M} 53'45	
opposition	-12112 Nov 27 j 12:45	13° \mathbb{X} 55'06	0°59'07				
min. Earth dist.	-12112 Nov 28 j 07:32	13° \mathbb{X} 49'04	4.33244 AU	conjunction	-12106 Nov 28 j 02:51	14° \mathbb{M} 02'45	-0°40'13
direct	-12111 Jan 28 j 23:37	8° \mathbb{X} 54'03		minimum elong	-12106 Nov 28 j 02:46	14° \mathbb{M} 02'42	0°40'00
evening set	-12111 Jun 05 j 09:31	27° \mathbb{X} 01'03		max. Earth dist.	-12106 Nov 29 j 06:31	14° \mathbb{M} 18'56	6.07370 AU
max. Earth dist.	-12111 Jun 16 j 23:12	29° \mathbb{X} 36'02	6.33492 AU	morning rise	-12106 Dec 11 j 17:53	17° \mathbb{M} 13'28	
					-12105 Feb 10 j 02:55	0° Ω	
conjunction	-12111 Jun 18 j 01:22	29° \mathbb{X} 50'41	1°05'53	retrograde	-12105 Apr 21 j 20:58	7° Ω 05'51	
minimum elong	-12111 Jun 18 j 01:16	29° \mathbb{X} 50'38	1°05'50	opposition	-12105 Jun 20 j 15:59	2° Ω 00'55	-1°41'20
	-12111 Jun 18 j 18:00	0° \mathbb{Y}		min. Earth dist.	-12105 Jun 19 j 21:15	2° Ω 07'18	4.07246 AU
morning rise	-12111 Jun 30 j 14:27	2° \mathbb{Y} 39'02			-12105 Jul 05 j 22:08	30° $\mathbb{R}\mathbb{M}$	
retrograde	-12111 Oct 30 j 07:20	20° \mathbb{Y} 04'54		direct	-12105 Aug 17 j 20:53	27° \mathbb{M} 03'00	
opposition	-12111 Dec 30 j 08:12	15° \mathbb{Y} 13'00	2°05'07		-12105 Sep 29 j 15:36	0° Ω	
min. Earth dist.	-12111 Dec 31 j 02:02	15° \mathbb{Y} 07'21	4.32863 AU	evening set	-12105 Dec 21 j 11:02	16° Ω 10'45	
direct	-12110 Mar 02 j 16:37	10° \mathbb{Y} 15'03					
evening set	-12110 Jul 06 j 13:11	28° \mathbb{Y} 15'20		conjunction	-12104 Jan 04 j 03:36	19° Ω 21'14	-1°28'31
	-12110 Jul 14 j 07:07	0° \mathbb{Z}		minimum elong	-12104 Jan 04 j 03:30	19° Ω 21'11	1°28'44
				max. Earth dist.	-12104 Jan 05 j 07:18	19° Ω 37'20	6.08118 AU
conjunction	-12110 Jul 18 j 22:13	1° \mathbb{Z} 02'48	1°39'22	morning rise	-12104 Jan 17 j 21:34	22° Ω 32'26	
minimum elong	-12110 Jul 18 j 22:09	1° \mathbb{Z} 02'45	1°39'43		-12104 Feb 20 j 10:37	0° \mathbb{M}	
max. Earth dist.	-12110 Jul 17 j 23:48	0° \mathbb{Z} 50'07	6.31029 AU	retrograde	-12104 May 26 j 03:03	12° \mathbb{M} 06'11	
morning rise	-12110 Jul 31 j 06:25	3° \mathbb{Z} 49'52		opposition	-12104 Jul 24 j 05:49	7° \mathbb{M} 02'19	-2°30'45
	-12110 Sep 23 j 15:05	15° \mathbb{Z}		min. Earth dist.	-12104 Jul 23 j 15:55	7° \mathbb{M} 07'05	4.10270 AU
retrograde	-12110 Dec 02 j 08:25	21° \mathbb{Z} 42'04		direct	-12104 Sep 20 j 21:27	2° \mathbb{M} 01'06	
opposition	-12109 Feb 01 j 20:22	16° \mathbb{Z} 48'32	2°35'05		-12104 Dec 29 j 12:55	15° \mathbb{M}	
min. Earth dist.	-12109 Feb 02 j 08:59	16° \mathbb{Z} 44'32	4.28582 AU	evening set	-12103 Jan 26 j 14:05	21° \mathbb{M} 13'41	
	-12109 Feb 16 j 11:22	15° $\mathbb{R}\mathbb{Z}$					
direct	-12109 Apr 04 j 13:06	11° \mathbb{Z} 53'28		conjunction	-12103 Feb 09 j 06:43	24° \mathbb{M} 21'54	-1°44'29
	-12109 May 20 j 12:55	15° \mathbb{Z}		minimum elong	-12103 Feb 09 j 06:43	24° \mathbb{M} 21'54	1°45'03
evening set	-12109 Aug 06 j 17:48	29° \mathbb{Z} 55'44		max. Earth dist.	-12103 Feb 09 j 21:28	24° \mathbb{M} 30'22	6.13018 AU
	-12109 Aug 07 j 01:18	0° \mathbb{I}		morning rise	-12103 Feb 22 j 23:01	27° \mathbb{M} 29'47	
					-12103 Mar 06 j 00:56	0° \mathbb{Z}	
conjunction	-12109 Aug 19 j 02:33	2° \mathbb{I} 45'10	1°43'46	retrograde	-12103 Jun 29 j 02:42	16° \mathbb{Z} 23'38	
minimum elong	-12109 Aug 19 j 02:35	2° \mathbb{I} 45'11	1°44'22	opposition	-12103 Aug 27 j 00:07	11° \mathbb{Z} 22'46	-2°26'08
max. Earth dist.	-12109 Aug 18 j 16:14	2° \mathbb{I} 39'15	6.25210 AU	min. Earth dist.	-12103 Aug 26 j 19:11	11° \mathbb{Z} 24'27	4.16603 AU
morning rise	-12109 Aug 31 j 12:11	5° \mathbb{I} 35'11		direct	-12103 Oct 25 j 17:17	6° \mathbb{Z} 19'08	
retrograde	-12108 Jan 05 j 11:50	24° \mathbb{I} 06'32		evening set	-12102 Mar 03 j 17:15	25° \mathbb{Z} 20'49	
opposition	-12108 Mar 07 j 03:59	19° \mathbb{I} 09'54	2°18'13				
min. Earth dist.	-12108 Mar 07 j 05:45	19° \mathbb{I} 09'20	4.21642 AU	conjunction	-12102 Mar 17 j 07:22	28° \mathbb{Z} 24'59	-1°23'56
direct	-12108 May 06 j 17:05	14° \mathbb{I} 16'46		minimum elong	-12102 Mar 17 j 07:27	28° \mathbb{Z} 25'03	1°24'38
	-12108 Aug 26 j 20:45	0° \mathbb{E}		max. Earth dist.	-12102 Mar 17 j 06:36	28° \mathbb{Z} 24'34	6.20280 AU
evening set	-12108 Sep 06 j 18:02	2° \mathbb{E} 28'59			-12102 Mar 24 j 07:11	0° \mathbb{Z}	
				morning rise	-12102 Mar 30 j 19:05	1° \mathbb{Z} 27'53	
conjunction	-12108 Sep 19 j 09:24	5° \mathbb{E} 24'26	1°15'56	retrograde	-12102 Jul 31 j 22:46	19° \mathbb{Z} 36'11	
minimum elong	-12108 Sep 19 j 09:30	5° \mathbb{E} 24'29	1°16'38	opposition	-12102 Sep 29 j 00:10	14° \mathbb{Z} 39'10	-1°33'11
max. Earth dist.	-12108 Sep 19 j 13:51	5° \mathbb{E} 27'00	6.17770 AU	min. Earth dist.	-12102 Sep 29 j 06:06	14° \mathbb{Z} 37'11	4.24042 AU
morning rise	-12108 Oct 02 j 03:30	8° \mathbb{E} 21'24		direct	-12102 Nov 28 j 23:08	9° \mathbb{Z} 34'54	
retrograde	-12107 Feb 08 j 20:22	27° \mathbb{E} 34'02		evening set	-12101 Apr 07 j 05:09	28° \mathbb{Z} 16'10	
opposition	-12107 Apr 11 j 03:58	22° \mathbb{E} 33'40	1°15'45		-12101 Apr 14 j 23:10	0° \approx	
min. Earth dist.	-12107 Apr 10 j 19:27	22° \mathbb{E} 36'27	4.14171 AU				
direct	-12107 Jun 09 j 13:30	17° \mathbb{E} 40'38		conjunction	-12101 Apr 20 j 13:32	1° \approx 15'17	-0°36'31
	-12107 Sep 12 j 22:34	0° Ω		minimum elong	-12101 Apr 20 j 13:36	1° \approx 15'19	0°37'08
evening set	-12107 Oct 10 j 06:22	6° Ω 09'55		max. Earth dist.	-12101 Apr 19 j 20:53	1° \approx 05'58	6.27395 AU
				morning rise	-12101 May 03 j 18:39	4° \approx 12'40	
conjunction	-12107 Oct 23 j 08:36	9° Ω 13'08	0°22'17		-12101 Jun 25 j 08:04	15° \approx	
minimum elong	-12107 Oct 23 j 08:38	9° Ω 13'10	0°22'51	retrograde	-12101 Sep 01 j 21:57	21° \approx 46'21	
max. Earth dist.	-12107 Oct 24 j 04:04	9° Ω 24'31	6.11038 AU	opposition	-12101 Oct 31 j 13:13	16° \approx 52'36	-0°12'47
morning rise	-12107 Nov 05 j 14:27	12° Ω 18'22		min. Earth dist.	-12101 Nov 01 j 03:36	16° \approx 47'53	4.30189 AU

Attention, astronomical year style is used: The year -12101 in astronomical counting style is the year 12102 BCE in historical counting style.

	-12101 Nov 15 j 06:47	15° \approx		behind sun begin	-12095 Oct 27 j 23:37	14° Ω 00'31	
asc. node	-12101 Dec 29 j 03:35	11° \approx 50'31		behind sun end	-12095 Oct 28 j 07:17	14° Ω 04'59	
direct	-12100 Jan 01 j 12:13	11° \approx 49'28		max. Earth dist.	-12095 Oct 28 j 23:29	14° Ω 14'27	6.10561 AU
	-12100 Feb 17 j 17:49	15° \approx			-12095 Nov 01 j 05:26	15° Ω	
	-12100 May 08 j 07:44	0° \mathbb{X}		morning rise	-12095 Nov 10 j 10:46	17° Ω 08'48	
evening set	-12100 May 09 j 02:06	0° \mathbb{X} 10'10			-12094 Jan 10 j 12:12	0° \mathbb{M}	
max. Earth dist.	-12100 May 21 j 01:24	2° \mathbb{X} 50'08	6.32177 AU	desc. node	-12094 Jan 24 j 03:34	2° \mathbb{M} 14'28	
				retrograde	-12094 Mar 21 j 18:59	6° \mathbb{M} 54'11	
conjunction	-12100 May 22 j 01:57	3° \mathbb{X} 03'51	0°21'11	opposition	-12094 May 21 j 07:26	1° \mathbb{M} 50'19	-0°27'37
minimum elong	-12100 May 22 j 01:55	3° \mathbb{X} 03'50	0°20'51	min. Earth dist.	-12094 May 20 j 14:10	1° \mathbb{M} 56'07	4.08415 AU
morning rise	-12100 Jun 03 j 22:20	5° \mathbb{X} 55'49			-12094 Jun 04 j 09:05	30° \mathbb{R} Ω	
retrograde	-12100 Oct 02 j 16:37	23° \mathbb{X} 15'42		direct	-12094 Jul 18 j 17:09	26° Ω 55'08	
opposition	-12100 Dec 02 j 01:45	18° \mathbb{X} 23'48	1°09'50		-12094 Aug 31 j 11:06	0° \mathbb{M}	
min. Earth dist.	-12100 Dec 02 j 20:21	18° \mathbb{X} 17'50	4.33288 AU	evening set	-12094 Nov 19 j 13:42	15° \mathbb{M} 47'37	
direct	-12099 Feb 02 j 12:22	13° \mathbb{X} 23'15					
	-12099 Jun 03 j 01:02	0° \mathbb{Y}		conjunction	-12094 Dec 03 j 02:29	18° \mathbb{M} 57'03	-0°48'07
evening set	-12099 Jun 09 j 18:36	1° \mathbb{Y} 29'21		minimum elong	-12094 Dec 03 j 02:23	18° \mathbb{M} 57'00	0°47'57
max. Earth dist.	-12099 Jun 21 j 06:11	4° \mathbb{Y} 03'24	6.33286 AU	max. Earth dist.	-12094 Dec 04 j 07:28	19° \mathbb{M} 14'00	6.07264 AU
				morning rise	-12094 Dec 16 j 18:09	22° \mathbb{M} 08'03	
conjunction	-12099 Jun 22 j 09:10	4° \mathbb{Y} 18'32	1°11'58		-12093 Jan 21 j 00:47	0° $\underline{\Omega}$	
minimum elong	-12099 Jun 22 j 09:04	4° \mathbb{Y} 18'29	1°12'00	retrograde	-12093 Apr 26 j 18:04	11° $\underline{\Omega}$ 59'26	
morning rise	-12099 Jul 04 j 21:29	7° \mathbb{Y} 06'35		opposition	-12093 Jun 25 j 09:54	6° $\underline{\Omega}$ 54'32	-1°50'49
retrograde	-12099 Nov 03 j 21:54	24° \mathbb{Y} 35'24		min. Earth dist.	-12093 Jun 24 j 16:04	7° $\underline{\Omega}$ 00'37	4.07370 AU
opposition	-12098 Jan 03 j 23:41	19° \mathbb{Y} 43'23	2°11'47	direct	-12093 Aug 22 j 14:53	1° $\underline{\Omega}$ 56'10	
min. Earth dist.	-12098 Jan 04 j 17:09	19° \mathbb{Y} 37'51	4.32455 AU	evening set	-12093 Dec 26 j 12:38	21° $\underline{\Omega}$ 05'45	
direct	-12098 Mar 07 j 06:54	14° \mathbb{Y} 45'53					
	-12098 Jun 28 j 10:36	0° \mathbb{Z}		conjunction	-12092 Jan 09 j 05:19	24° $\underline{\Omega}$ 16'08	-1°32'49
evening set	-12098 Jul 10 j 21:25	2° \mathbb{Z} 45'58		minimum elong	-12092 Jan 09 j 05:13	24° $\underline{\Omega}$ 16'05	1°33'06
max. Earth dist.	-12098 Jul 22 j 10:40	5° \mathbb{Z} 22'25	6.30455 AU	max. Earth dist.	-12092 Jan 10 j 05:59	24° $\underline{\Omega}$ 30'27	6.08427 AU
				morning rise	-12092 Jan 22 j 23:29	27° $\underline{\Omega}$ 27'10	
conjunction	-12098 Jul 23 j 06:08	5° \mathbb{Z} 33'26	1°41'51		-12092 Feb 03 j 03:10	0° \mathbb{M}	
minimum elong	-12098 Jul 23 j 06:05	5° \mathbb{Z} 33'25	1°42'15		-12092 Apr 25 j 21:52	15° \mathbb{M}	
morning rise	-12098 Aug 04 j 13:57	8° \mathbb{Z} 20'36		retrograde	-12092 May 30 j 19:55	16° \mathbb{M} 57'15	
	-12098 Sep 04 j 05:48	15° \mathbb{Z}			-12092 Jul 04 j 10:33	15° \mathbb{R} \mathbb{M}	
retrograde	-12098 Dec 06 j 23:59	26° \mathbb{Z} 17'20		opposition	-12092 Jul 28 j 21:46	11° \mathbb{M} 53'40	-2°33'23
opposition	-12097 Feb 06 j 14:10	21° \mathbb{Z} 23'27	2°35'36	min. Earth dist.	-12092 Jul 28 j 08:41	11° \mathbb{M} 58'09	4.10753 AU
min. Earth dist.	-12097 Feb 07 j 00:42	21° \mathbb{Z} 20'06	4.27902 AU	direct	-12092 Sep 25 j 16:08	6° \mathbb{M} 52'00	
direct	-12097 Apr 09 j 03:13	16° \mathbb{Z} 28'48			-12092 Dec 10 j 09:57	15° \mathbb{M}	
	-12097 Jul 21 j 20:38	0° \mathbb{I}		evening set	-12091 Jan 31 j 14:40	26° \mathbb{M} 04'54	
evening set	-12097 Aug 11 j 03:28	4° \mathbb{I} 31'19					
				conjunction	-12091 Feb 14 j 07:16	29° \mathbb{M} 12'49	-1°43'41
conjunction	-12097 Aug 23 j 12:34	7° \mathbb{I} 21'13	1°41'45	minimum elong	-12091 Feb 14 j 07:17	29° \mathbb{M} 12'50	1°44'18
minimum elong	-12097 Aug 23 j 12:36	7° \mathbb{I} 21'15	1°42'24	max. Earth dist.	-12091 Feb 14 j 20:36	29° \mathbb{M} 20'28	6.13646 AU
max. Earth dist.	-12097 Aug 23 j 03:52	7° \mathbb{I} 16'14	6.24470 AU		-12091 Feb 17 j 17:34	0° \mathbb{Z}	
morning rise	-12097 Sep 04 j 23:00	10° \mathbb{I} 11'54		morning rise	-12091 Feb 27 j 23:02	2° \mathbb{Z} 20'13	
retrograde	-12096 Jan 10 j 08:06	28° \mathbb{I} 48'07		retrograde	-12091 Jul 03 j 18:22	21° \mathbb{Z} 08'57	
opposition	-12096 Mar 11 j 23:38	23° \mathbb{I} 50'57	2°12'00	opposition	-12091 Aug 31 j 14:23	16° \mathbb{Z} 08'36	-2°21'19
min. Earth dist.	-12096 Mar 12 j 00:14	23° \mathbb{I} 50'45	4.20873 AU	min. Earth dist.	-12091 Aug 31 j 11:23	16° \mathbb{Z} 09'37	4.17312 AU
direct	-12096 May 11 j 10:09	18° \mathbb{I} 57'53		direct	-12091 Oct 30 j 11:28	11° \mathbb{Z} 04'47	
	-12096 Aug 09 j 20:49	0° \mathbb{E}		evening set	-12090 Mar 08 j 14:16	0° \mathbb{Z} 05'06	
evening set	-12096 Sep 11 j 06:37	7° \mathbb{E} 10'59			-12090 Mar 08 j 05:11	0° \mathbb{Z}	
conjunction	-12096 Sep 23 j 23:23	10° \mathbb{E} 07'20	1°09'45	conjunction	-12090 Mar 22 j 03:50	3° \mathbb{Z} 08'47	-1°18'35
minimum elong	-12096 Sep 23 j 23:29	10° \mathbb{E} 07'23	1°10'27	minimum elong	-12090 Mar 22 j 03:56	3° \mathbb{Z} 08'50	1°19'17
max. Earth dist.	-12096 Sep 24 j 06:36	10° \mathbb{E} 11'31	6.17052 AU	max. Earth dist.	-12090 Mar 22 j 00:34	3° \mathbb{Z} 06'56	6.21024 AU
morning rise	-12096 Oct 06 j 18:57	13° \mathbb{E} 05'18		morning rise	-12090 Apr 04 j 14:56	6° \mathbb{Z} 11'06	
	-12095 Jan 04 j 21:12	0° Ω		retrograde	-12090 Aug 05 j 09:54	24° \mathbb{Z} 14'39	
retrograde	-12095 Feb 13 j 18:01	2° Ω 21'47		opposition	-12090 Oct 03 j 13:11	19° \mathbb{Z} 18'04	-1°23'03
	-12095 Mar 25 j 15:12	30° \mathbb{R} \mathbb{E}		min. Earth dist.	-12090 Oct 03 j 19:46	19° \mathbb{Z} 15'53	4.24761 AU
opposition	-12095 Apr 16 j 00:17	27° \mathbb{E} 20'57	1°04'20	direct	-12090 Dec 03 j 14:58	14° \mathbb{Z} 13'50	
min. Earth dist.	-12095 Apr 15 j 14:14	27° \mathbb{E} 24'15	4.13551 AU		-12089 Mar 29 j 18:51	0° \approx	
direct	-12095 Jun 14 j 06:03	22° \mathbb{E} 27'47		evening set	-12089 Apr 11 j 21:25	2° \approx 52'54	
	-12095 Aug 24 j 23:23	0° Ω		max. Earth dist.	-12089 Apr 24 j 11:25	5° \approx 41'37	6.28068 AU
evening set	-12095 Oct 14 j 23:52	10° Ω 58'42					
				conjunction	-12089 Apr 25 j 04:49	5° \approx 51'21	-0°28'39
conjunction	-12095 Oct 28 j 03:25	14° Ω 02'44	0°13'46	minimum elong	-12089 Apr 25 j 04:52	5° \approx 51'23	0°29'14
minimum elong	-12095 Oct 28 j 03:27	14° Ω 02'45	0°14'18	morning rise	-12089 May 08 j 08:49	8° \approx 48'02	

Attention, astronomical year style is used: The year -12089 in astronomical counting style is the year 12090 BCE in historical counting style.

	-12089 Jun 06 j 02:31	15°♊		direct	-12083 Jun 18 j 22:58	27°♊15'51	
retrograde	-12089 Sep 06 j 09:09	26°♊18'49			-12083 Jul 30 j 08:45	0°♊	
opposition	-12089 Nov 05 j 02:12	21°♊25'24	-0°00'47		-12083 Oct 16 j 04:36	15°♊	
min. Earth dist.	-12089 Nov 05 j 17:28	21°♊20'26	4.30748 AU	evening set	-12083 Oct 19 j 19:06	15°♊50'08	
asc. node	-12089 Nov 08 j 15:51	20°♊57'33					
direct	-12088 Jan 06 j 03:53	16°♊22'35		conjunction	-12083 Nov 02 j 00:18	18°♊55'14	0°05'06
	-12088 Apr 21 j 23:42	0°♋		minimum elong	-12083 Nov 02 j 00:19	18°♊55'14	0°05'35
evening set	-12088 May 13 j 13:52	4°♋40'50		behind sun begin	-12083 Nov 01 j 16:25	18°♊50'38	
max. Earth dist.	-12088 May 25 j 10:49	7°♋19'31	6.32568 AU	behind sun end	-12083 Nov 02 j 08:13	18°♊59'50	
				max. Earth dist.	-12083 Nov 02 j 22:49	19°♊08'23	6.09725 AU
conjunction	-12088 May 26 j 12:23	7°♋33'48	0°29'04	morning rise	-12083 Nov 15 j 09:00	22°♊02'18	
minimum elong	-12088 May 26 j 12:20	7°♋33'46	0°28'46	desc. node	-12083 Dec 04 j 04:30	26°♊19'49	
morning rise	-12088 Jun 08 j 07:39	10°♋25'07			-12083 Dec 21 j 03:00	0°♌	
retrograde	-12088 Oct 07 j 03:27	27°♋44'42		retrograde	-12082 Mar 26 j 19:50	11°♌50'44	
opposition	-12088 Dec 06 j 15:25	22°♋52'48	1°20'12	min. Earth dist.	-12082 May 25 j 11:29	6°♌52'24	4.07799 AU
min. Earth dist.	-12088 Dec 07 j 09:45	22°♋46'56	4.33492 AU	opposition	-12082 May 26 j 04:34	6°♌46'39	-0°40'28
direct	-12087 Feb 07 j 02:25	17°♋52'36		direct	-12082 Jul 23 j 12:19	1°♌51'06	
	-12087 May 17 j 13:17	0°♍		evening set	-12082 Nov 24 j 15:23	20°♌47'20	
evening set	-12087 Jun 14 j 03:22	5°♍56'53					
				conjunction	-12082 Dec 08 j 04:54	23°♌57'17	-0°55'50
conjunction	-12087 Jun 26 j 16:53	8°♍45'34	1°17'39	minimum elong	-12082 Dec 08 j 04:48	23°♌57'13	0°55'43
minimum elong	-12087 Jun 26 j 16:48	8°♍45'31	1°17'44	max. Earth dist.	-12082 Dec 09 j 08:29	24°♌13'24	6.06895 AU
max. Earth dist.	-12087 Jun 25 j 15:53	8°♍31'32	6.33267 AU	morning rise	-12082 Dec 21 j 21:29	27°♌08'46	
morning rise	-12087 Jul 09 j 04:06	11°♍33'10			-12081 Jan 03 j 07:42	0°♎	
retrograde	-12087 Nov 08 j 10:05	29°♍04'09		retrograde	-12081 May 01 j 16:21	16°♎59'56	
opposition	-12086 Jan 08 j 14:37	24°♍11'59	2°17'40	opposition	-12081 Jun 30 j 06:23	11°♎55'05	-1°59'45
min. Earth dist.	-12086 Jan 09 j 07:29	24°♍06'38	4.32207 AU	min. Earth dist.	-12081 Jun 29 j 12:19	12°♎01'15	4.07298 AU
direct	-12086 Mar 11 j 20:41	19°♍14'55		direct	-12081 Aug 27 j 11:38	6°♎56'14	
	-12086 Jun 11 j 15:16	0°♏		evening set	-12081 Dec 31 j 17:42	26°♎08'28	
evening set	-12086 Jul 15 j 05:08	7°♏14'12					
				conjunction	-12080 Jan 14 j 10:45	29°♏18'52	-1°36'35
conjunction	-12086 Jul 27 j 13:18	10°♏01'38	1°43'45	minimum elong	-12080 Jan 14 j 10:40	29°♏18'49	1°36'54
minimum elong	-12086 Jul 27 j 13:15	10°♏01'36	1°44'11	max. Earth dist.	-12080 Jan 15 j 11:14	29°♏33'04	6.08653 AU
max. Earth dist.	-12086 Jul 26 j 17:43	9°♏50'32	6.29961 AU		-12080 Jan 17 j 09:42	0°♐	
morning rise	-12086 Aug 08 j 21:09	12°♏48'58		morning rise	-12080 Jan 28 j 04:43	2°♐29'40	
	-12086 Aug 18 j 15:38	15°♏			-12080 Mar 27 j 14:36	15°♐	
	-12086 Nov 18 j 05:55	0°♑		retrograde	-12080 Jun 04 j 18:01	21°♐56'07	
retrograde	-12086 Dec 11 j 16:06	0°♑50'00		opposition	-12080 Aug 02 j 16:48	16°♐52'57	-2°35'01
	-12085 Jan 04 j 03:35	30°♑♏		min. Earth dist.	-12080 Aug 02 j 05:30	16°♐56'49	4.11260 AU
opposition	-12085 Feb 11 j 07:08	25°♑55'41	2°35'12		-12080 Aug 16 j 18:57	15°♑♐	
min. Earth dist.	-12085 Feb 11 j 16:40	25°♑52'40	4.27183 AU	direct	-12080 Sep 30 j 14:31	11°♑50'57	
direct	-12085 Apr 13 j 17:27	21°♑01'17			-12080 Nov 14 j 14:11	15°♑	
	-12085 Jul 04 j 05:37	0°♒			-12079 Feb 01 j 01:52	0°♒♑	
evening set	-12085 Aug 15 j 12:13	9°♒04'21		evening set	-12079 Feb 05 j 18:46	1°♒04'00	
conjunction	-12085 Aug 27 j 22:08	11°♒54'55	1°39'10	conjunction	-12079 Feb 19 j 11:10	4°♒11'32	-1°42'10
minimum elong	-12085 Aug 27 j 22:11	11°♒54'57	1°39'50	minimum elong	-12079 Feb 19 j 11:12	4°♒11'33	1°42'48
max. Earth dist.	-12085 Aug 27 j 16:17	11°♒51'34	6.23590 AU	max. Earth dist.	-12079 Feb 19 j 22:44	4°♒18'09	6.14400 AU
morning rise	-12085 Sep 09 j 09:21	14°♒46'21		morning rise	-12079 Mar 05 j 02:30	7°♒18'25	
	-12085 Nov 27 j 04:24	0°♓		retrograde	-12079 Jul 08 j 10:15	26°♒01'16	
retrograde	-12084 Jan 15 j 03:32	3°♓27'57		opposition	-12079 Sep 05 j 07:19	21°♒01'27	-2°15'27
	-12084 Mar 04 j 23:04	30°♓♒		min. Earth dist.	-12079 Sep 05 j 04:29	21°♒02'25	4.18263 AU
opposition	-12084 Mar 16 j 18:42	28°♒30'20	2°05'01	direct	-12079 Nov 04 j 07:09	15°♒57'32	
min. Earth dist.	-12084 Mar 16 j 18:06	28°♒30'32	4.19881 AU		-12078 Feb 19 j 03:28	0°♔	
direct	-12084 May 16 j 01:14	23°♒37'23		evening set	-12078 Mar 13 j 13:32	4°♔55'25	
	-12084 Jul 21 j 05:16	0°♕					
evening set	-12084 Sep 15 j 19:44	11°♕52'28		conjunction	-12078 Mar 27 j 02:23	7°♔58'24	-1°12'40
				minimum elong	-12078 Mar 27 j 02:29	7°♔58'27	1°13'22
conjunction	-12084 Sep 28 j 13:45	14°♕49'51	1°03'09	max. Earth dist.	-12078 Mar 26 j 21:18	7°♔55'32	6.22139 AU
minimum elong	-12084 Sep 28 j 13:50	14°♕49'54	1°03'50	morning rise	-12078 Apr 09 j 12:40	10°♔59'56	
max. Earth dist.	-12084 Sep 28 j 21:29	14°♕54'20	6.16038 AU	retrograde	-12078 Aug 10 j 00:03	28°♔57'29	
morning rise	-12084 Oct 11 j 10:59	17°♕48'59		opposition	-12078 Oct 08 j 04:18	24°♔01'25	-1°12'17
	-12084 Dec 08 j 08:51	0°♌		min. Earth dist.	-12078 Oct 08 j 12:29	23°♔58'42	4.25930 AU
retrograde	-12083 Feb 18 j 16:30	7°♌10'34		direct	-12078 Dec 08 j 10:56	18°♔57'20	
opposition	-12083 Apr 20 j 20:43	2°♌09'14	0°52'27		-12077 Mar 12 j 04:12	0°♍	
min. Earth dist.	-12083 Apr 20 j 09:30	2°♌12'55	4.12573 AU	evening set	-12077 Apr 16 j 14:12	7°♍32'16	
	-12083 May 07 j 20:38	30°♌♍					

Attention, astronomical year style is used: The year -12077 in astronomical counting style is the year 12078 BCE in historical counting style.

conjunction	-12077 Apr 29 j 20:30	10° \approx 29'49	-0°20'37	conjunction	-12072 Oct 03 j 02:50	19° \approx 28'33	0°56'16
minimum elong	-12077 Apr 29 j 20:33	10° \approx 29'50	0°21'09	minimum elong	-12072 Oct 03 j 02:56	19° \approx 28'36	0°56'57
max. Earth dist.	-12077 Apr 29 j 02:34	10° \approx 19'47	6.29216 AU	max. Earth dist.	-12072 Oct 03 j 13:12	19° \approx 34'34	6.14774 AU
morning rise	-12077 May 12 j 23:15	13° \approx 25'32		morning rise	-12072 Oct 16 j 01:34	22° \approx 28'57	
	-12077 May 20 j 02:10	15° \approx			-12072 Nov 18 j 21:40	0° Ω	
	-12077 Aug 18 j 12:13	0° \mathcal{H}		retrograde	-12071 Feb 23 j 15:23	11° Ω 56'33	
retrograde	-12077 Sep 10 j 18:16	0° \mathcal{H} 52'03		opposition	-12071 Apr 25 j 15:55	6° Ω 54'49	0°40'25
asc. node	-12077 Sep 18 j 21:44	0° \mathcal{H} 45'33		min. Earth dist.	-12071 Apr 25 j 04:36	6° Ω 58'32	4.11337 AU
	-12077 Oct 04 j 02:03	30° $\mathcal{R}\approx$		direct	-12071 Jun 23 j 14:45	2° Ω 01'15	
opposition	-12077 Nov 09 j 15:25	25° \approx 58'53	0°11'10		-12071 Sep 29 j 15:12	15° Ω	
min. Earth dist.	-12077 Nov 10 j 06:26	25° \approx 54'01	4.31794 AU	desc. node	-12071 Oct 15 j 02:24	18° Ω 28'31	
direct	-12076 Jan 10 j 19:06	20° \approx 56'22		evening set	-12071 Oct 24 j 14:07	20° Ω 40'04	
	-12076 Apr 03 j 22:44	0° \mathcal{H}					
evening set	-12076 May 18 j 00:53	9° \mathcal{H} 10'30		conjunction	-12071 Nov 06 j 20:35	23° Ω 46'15	-0°03'39
				minimum elong	-12071 Nov 06 j 20:36	23° Ω 46'16	0°03'13
conjunction	-12076 May 30 j 21:56	12° \mathcal{H} 02'30	0°36'41	behind sun begin	-12071 Nov 06 j 12:24	23° Ω 41'28	
minimum elong	-12076 May 30 j 21:52	12° \mathcal{H} 02'28	0°36'26	behind sun end	-12071 Nov 07 j 04:49	23° Ω 51'03	
max. Earth dist.	-12076 May 29 j 20:24	11° \mathcal{H} 48'15	6.33431 AU	max. Earth dist.	-12071 Nov 07 j 18:51	23° Ω 59'17	6.08637 AU
morning rise	-12076 Jun 12 j 15:51	14° \mathcal{H} 52'54		morning rise	-12071 Nov 20 j 06:57	26° Ω 54'29	
	-12076 Sep 03 j 16:51	0° \mathcal{Y}			-12071 Dec 03 j 17:46	0° \mathcal{M}	
retrograde	-12076 Oct 11 j 13:06	2° \mathcal{Y} 10'53		retrograde	-12070 Mar 31 j 18:34	16° \mathcal{M} 46'50	
	-12076 Nov 18 j 19:55	30° $\mathcal{R}\mathcal{H}$		min. Earth dist.	-12070 May 30 j 06:47	11° \mathcal{M} 48'41	4.06983 AU
opposition	-12076 Dec 11 j 03:49	27° \mathcal{H} 19'04	1°29'53	opposition	-12070 May 31 j 01:10	11° \mathcal{M} 42'29	-0°52'57
min. Earth dist.	-12076 Dec 11 j 22:56	27° \mathcal{H} 12'58	4.34107 AU	direct	-12070 Jul 28 j 06:26	6° \mathcal{M} 46'32	
direct	-12075 Feb 11 j 16:55	22° \mathcal{H} 19'16		evening set	-12070 Nov 29 j 17:32	25° \mathcal{M} 47'20	
	-12075 Apr 29 j 03:03	0° \mathcal{Y}					
evening set	-12075 Jun 18 j 09:58	10° \mathcal{Y} 20'25		conjunction	-12070 Dec 13 j 08:03	28° \mathcal{M} 57'51	-1°03'06
				minimum elong	-12070 Dec 13 j 07:57	28° \mathcal{M} 57'48	1°03'03
conjunction	-12075 Jun 30 j 22:21	13° \mathcal{Y} 08'28	1°22'46	max. Earth dist.	-12070 Dec 14 j 13:15	29° \mathcal{M} 14'56	6.06433 AU
minimum elong	-12075 Jun 30 j 22:16	13° \mathcal{Y} 08'25	1°22'55		-12070 Dec 17 j 18:21	0° \mathcal{L}	
max. Earth dist.	-12075 Jun 29 j 20:37	12° \mathcal{Y} 54'03	6.33553 AU	morning rise	-12070 Dec 27 j 01:07	2° \mathcal{L} 09'44	
morning rise	-12075 Jul 13 j 08:48	15° \mathcal{Y} 55'35		retrograde	-12069 May 06 j 17:08	22° \mathcal{L} 00'40	
	-12075 Sep 25 j 04:05	0° \mathcal{B}		min. Earth dist.	-12069 Jul 04 j 09:57	17° \mathcal{L} 01'43	4.07255 AU
retrograde	-12075 Nov 12 j 19:51	3° \mathcal{B} 28'03		opposition	-12069 Jul 05 j 02:58	16° \mathcal{L} 55'53	-2°07'46
	-12074 Jan 01 j 20:40	30° $\mathcal{R}\mathcal{Y}$		direct	-12069 Sep 01 j 10:00	11° \mathcal{L} 56'34	
opposition	-12074 Jan 13 j 03:23	28° \mathcal{Y} 35'37	2°22'35		-12069 Dec 31 j 19:19	0° \mathcal{M}	
min. Earth dist.	-12074 Jan 13 j 19:31	28° \mathcal{Y} 30'31	4.32157 AU	evening set	-12068 Jan 05 j 23:05	1° \mathcal{M} 11'00	
direct	-12074 Mar 16 j 07:45	23° \mathcal{Y} 38'52					
	-12074 May 23 j 11:03	0° \mathcal{B}		conjunction	-12068 Jan 19 j 16:16	4° \mathcal{M} 21'17	-1°39'36
evening set	-12074 Jul 19 j 09:59	11° \mathcal{B} 36'49		minimum elong	-12068 Jan 19 j 16:11	4° \mathcal{M} 21'14	1°39'58
				max. Earth dist.	-12068 Jan 20 j 16:09	4° \mathcal{M} 35'07	6.09013 AU
conjunction	-12074 Jul 31 j 18:00	14° \mathcal{B} 24'16	1°45'00	morning rise	-12068 Feb 02 j 10:10	7° \mathcal{M} 31'50	
minimum elong	-12074 Jul 31 j 17:58	14° \mathcal{B} 24'15	1°45'29		-12068 Mar 07 j 02:43	15° \mathcal{M}	
max. Earth dist.	-12074 Jul 31 j 00:25	14° \mathcal{B} 14'18	6.29567 AU	retrograde	-12068 Jun 09 j 12:45	26° \mathcal{M} 53'33	
	-12074 Aug 03 j 08:58	15° \mathcal{B}		opposition	-12068 Aug 07 j 11:24	21° \mathcal{M} 50'43	-2°35'28
morning rise	-12074 Aug 13 j 01:39	17° \mathcal{B} 11'42		min. Earth dist.	-12068 Aug 06 j 23:52	21° \mathcal{M} 54'40	4.11996 AU
	-12074 Oct 15 j 22:03	0° \mathcal{I}		direct	-12068 Oct 05 j 11:12	16° \mathcal{M} 48'20	
retrograde	-12074 Dec 16 j 05:39	5° \mathcal{I} 16'50			-12067 Jan 14 j 18:16	0° \mathcal{J}	
opposition	-12073 Feb 15 j 21:26	0° \mathcal{I} 22'11	2°33'54	evening set	-12067 Feb 10 j 21:38	6° \mathcal{J} 00'09	
min. Earth dist.	-12073 Feb 16 j 06:50	0° \mathcal{I} 19'12	4.26467 AU				
	-12073 Feb 18 j 19:25	30° $\mathcal{R}\mathcal{B}$		conjunction	-12067 Feb 24 j 13:37	9° \mathcal{J} 07'06	-1°39'56
direct	-12073 Apr 18 j 05:14	25° \mathcal{B} 28'02		minimum elong	-12067 Feb 24 j 13:40	9° \mathcal{J} 07'07	1°40'34
	-12073 Jun 13 j 00:45	0° \mathcal{I}		max. Earth dist.	-12067 Feb 24 j 22:53	9° \mathcal{J} 12'23	6.15430 AU
evening set	-12073 Aug 19 j 18:52	13° \mathcal{I} 31'53		morning rise	-12067 Mar 10 j 04:26	12° \mathcal{J} 13'16	
					-12067 Jun 20 j 18:53	0° \mathcal{Z}	
conjunction	-12073 Sep 01 j 05:22	16° \mathcal{I} 23'09	1°36'03	retrograde	-12067 Jul 13 j 02:09	0° \mathcal{Z} 49'15	
minimum elong	-12073 Sep 01 j 05:26	16° \mathcal{I} 23'11	1°36'43		-12067 Aug 04 j 04:41	30° $\mathcal{R}\mathcal{J}$	
max. Earth dist.	-12073 Aug 31 j 23:04	16° \mathcal{I} 19'31	6.22607 AU	opposition	-12067 Sep 09 j 23:11	25° \mathcal{J} 49'53	-2°08'43
morning rise	-12073 Sep 13 j 17:45	19° \mathcal{I} 15'28		min. Earth dist.	-12067 Sep 09 j 22:30	25° \mathcal{J} 50'07	4.19437 AU
	-12073 Nov 03 j 11:47	0° \mathcal{D}		direct	-12067 Nov 09 j 04:31	20° \mathcal{J} 45'47	
retrograde	-12072 Jan 19 j 20:51	8° \mathcal{D} 02'55			-12066 Jan 31 j 13:45	0° \mathcal{Z}	
opposition	-12072 Mar 21 j 11:11	3° \mathcal{D} 04'47	1°57'25	evening set	-12066 Mar 18 j 10:22	9° \mathcal{Z} 40'05	
min. Earth dist.	-12072 Mar 21 j 09:16	3° \mathcal{D} 05'24	4.18691 AU				
	-12072 Apr 16 j 09:00	30° $\mathcal{R}\mathcal{I}$		conjunction	-12066 Mar 31 j 22:37	12° \mathcal{Z} 42'19	-1°06'20
direct	-12072 May 20 j 13:15	28° \mathcal{I} 11'49		minimum elong	-12066 Mar 31 j 22:43	12° \mathcal{Z} 42'22	1°07'02
	-12072 Jun 23 j 08:30	0° \mathcal{D}		max. Earth dist.	-12066 Mar 31 j 16:40	12° \mathcal{Z} 38'58	6.23352 AU
evening set	-12072 Sep 20 j 07:10	16° \mathcal{D} 29'56		morning rise	-12066 Apr 14 j 07:52	15° \mathcal{Z} 42'58	

Attention, astronomical year style is used: The year -12066 in astronomical counting style is the year 12067 BCE in historical counting style.

	-12066 Jun 27 j 06:23	0°♊		morning rise	-12061 Sep 18 j 06:59	23°♊56'54	
retrograde	-12066 Aug 14 j 09:52	3°♊34'29			-12061 Oct 15 j 12:13	0°♊	
	-12066 Oct 02 j 09:02	30°♊♊		retrograde	-12060 Jan 24 j 21:11	12°♊50'59	
opposition	-12066 Oct 12 j 17:24	28°♊38'52	-1°01'15	opposition	-12060 Mar 26 j 09:03	7°♊52'26	1°48'42
min. Earth dist.	-12066 Oct 13 j 01:55	28°♊36'03	4.27048 AU	min. Earth dist.	-12060 Mar 26 j 06:15	7°♊53'20	4.17478 AU
direct	-12066 Dec 13 j 02:48	23°♊34'54		direct	-12060 May 25 j 07:12	2°♊59'36	
	-12065 Feb 19 j 23:27	0°♊		evening set	-12060 Sep 25 j 00:06	21°♊20'41	
evening set	-12065 Apr 21 j 04:54	12°♊06'08					
				conjunction	-12060 Oct 07 j 21:10	24°♊20'26	0°48'43
conjunction	-12065 May 04 j 09:53	15°♊02'48	-0°12'33	minimum elong	-12060 Oct 07 j 21:15	24°♊20'29	0°49'22
minimum elong	-12065 May 04 j 09:54	15°♊02'49	0°13'04	max. Earth dist.	-12060 Oct 08 j 08:41	24°♊27'08	6.13720 AU
behind sun begin	-12065 May 04 j 05:04	15°♊00'07		morning rise	-12060 Oct 20 j 21:45	27°♊22'06	
behind sun end	-12065 May 04 j 14:44	15°♊05'30			-12060 Nov 01 j 09:16	0°♊	
max. Earth dist.	-12065 May 03 j 13:29	14°♊51'24	6.30150 AU		-12059 Jan 24 j 04:16	15°♊	
	-12065 May 04 j 04:51	15°♊		retrograde	-12059 Feb 28 j 15:23	16°♊54'25	
morning rise	-12065 May 17 j 11:32	17°♊57'41			-12059 Apr 05 j 00:04	15°♊♊	
	-12065 Jul 16 j 18:05	0°♊		opposition	-12059 Apr 30 j 15:06	11°♊52'15	0°27'34
asc. node	-12065 Jul 29 j 19:52	1°♊56'54		min. Earth dist.	-12059 Apr 30 j 01:11	11°♊56'51	4.10566 AU
retrograde	-12065 Sep 15 j 04:58	5°♊21'11		direct	-12059 Jun 28 j 09:57	6°♊58'32	
opposition	-12065 Nov 14 j 03:46	0°♊28'21	0°22'56	desc. node	-12059 Aug 25 j 01:06	12°♊05'15	
min. Earth dist.	-12065 Nov 14 j 20:40	0°♊22'53	4.32457 AU		-12059 Sep 10 j 09:56	15°♊	
	-12065 Nov 17 j 19:28	30°♊♊		evening set	-12059 Oct 29 j 13:22	25°♊40'09	
direct	-12064 Jan 15 j 11:06	25°♊26'09					
	-12064 Mar 12 j 22:46	0°♊		conjunction	-12059 Nov 11 j 21:20	28°♊47'09	-0°12'30
evening set	-12064 May 22 j 10:37	13°♊37'39		minimum elong	-12059 Nov 11 j 21:19	28°♊47'08	0°12'06
max. Earth dist.	-12064 Jun 03 j 04:38	16°♊14'34	6.33757 AU	behind sun begin	-12059 Nov 11 j 15:45	28°♊43'53	
				behind sun end	-12059 Nov 12 j 02:53	28°♊50'23	
conjunction	-12064 Jun 04 j 06:28	16°♊28'59	0°44'05	max. Earth dist.	-12059 Nov 12 j 22:43	29°♊02'01	6.08250 AU
minimum elong	-12064 Jun 04 j 06:24	16°♊28'56	0°43'53		-12059 Nov 17 j 01:46	0°♊	
morning rise	-12064 Jun 16 j 23:08	19°♊18'45		morning rise	-12059 Nov 25 j 08:47	1°♊56'03	
	-12064 Aug 08 j 09:39	0°♊		retrograde	-12058 Apr 05 j 20:39	21°♊48'57	
retrograde	-12064 Oct 15 j 22:27	6°♊37'23		opposition	-12058 Jun 04 j 23:38	16°♊44'24	-1°05'14
opposition	-12064 Dec 15 j 16:51	1°♊45'36	1°39'10	min. Earth dist.	-12058 Jun 04 j 05:25	16°♊50'34	4.07038 AU
min. Earth dist.	-12064 Dec 16 j 11:16	1°♊39'44	4.34096 AU	direct	-12058 Aug 02 j 05:29	11°♊48'03	
	-12064 Dec 29 j 20:10	30°♊♊			-12058 Dec 01 j 06:29	0°♊	
direct	-12063 Feb 16 j 04:48	26°♊46'14		evening set	-12058 Dec 04 j 20:53	0°♊50'01	
	-12063 Apr 04 j 23:22	0°♊					
evening set	-12063 Jun 22 j 17:39	14°♊46'32		conjunction	-12058 Dec 18 j 11:55	4°♊00'32	-1°09'56
max. Earth dist.	-12063 Jul 04 j 04:05	17°♊20'14	6.33194 AU	minimum elong	-12058 Dec 18 j 11:49	4°♊00'28	1°09'58
				max. Earth dist.	-12058 Dec 19 j 17:15	4°♊17'38	6.06904 AU
conjunction	-12063 Jul 05 j 05:03	17°♊34'16	1°27'30	morning rise	-12057 Jan 01 j 05:26	7°♊12'17	
minimum elong	-12063 Jul 05 j 04:57	17°♊34'13	1°27'41	retrograde	-12057 May 11 j 13:03	26°♊58'55	
morning rise	-12063 Jul 17 j 14:42	20°♊21'11		opposition	-12057 Jul 09 j 22:02	21°♊54'14	-2°14'40
	-12063 Sep 01 j 21:08	0°♊		min. Earth dist.	-12057 Jul 09 j 04:33	22°♊00'13	4.08123 AU
retrograde	-12063 Nov 17 j 10:24	7°♊57'27		direct	-12057 Sep 06 j 06:00	16°♊54'27	
opposition	-12062 Jan 17 j 18:48	3°♊04'55	2°26'53		-12057 Dec 14 j 16:36	0°♊	
min. Earth dist.	-12062 Jan 18 j 11:13	2°♊59'43	4.31481 AU	evening set	-12056 Jan 11 j 01:48	6°♊07'39	
	-12062 Feb 13 j 03:48	30°♊♊					
direct	-12062 Mar 20 j 21:55	28°♊08'36		conjunction	-12056 Jan 24 j 18:49	9°♊17'19	-1°41'50
	-12062 Apr 25 j 07:33	0°♊		minimum elong	-12056 Jan 24 j 18:45	9°♊17'17	1°42'16
	-12062 Jul 18 j 18:16	15°♊		max. Earth dist.	-12056 Jan 25 j 16:19	9°♊29'44	6.10166 AU
evening set	-12062 Jul 23 j 18:04	16°♊07'19		morning rise	-12056 Feb 07 j 12:23	12°♊27'08	
max. Earth dist.	-12062 Aug 04 j 08:27	18°♊45'09	6.28615 AU		-12056 Feb 18 j 17:25	15°♊	
					-12056 May 12 j 19:39	0°♊	
conjunction	-12062 Aug 05 j 01:57	18°♊55'05	1°45'42	retrograde	-12056 Jun 14 j 04:01	1°♊41'30	
minimum elong	-12062 Aug 05 j 01:56	18°♊55'05	1°46'13		-12056 Jul 16 j 04:41	30°♊♊	
morning rise	-12062 Aug 17 j 09:58	21°♊43'02		opposition	-12056 Aug 12 j 02:07	26°♊39'01	-2°34'47
	-12062 Sep 24 j 23:09	0°♊		min. Earth dist.	-12056 Aug 11 j 16:55	26°♊42'10	4.13309 AU
retrograde	-12062 Dec 20 j 23:33	9°♊54'12		direct	-12056 Oct 10 j 06:50	21°♊36'15	
opposition	-12061 Feb 20 j 16:00	4°♊59'10	2°31'41		-12056 Dec 26 j 23:36	0°♊	
min. Earth dist.	-12061 Feb 20 j 23:14	4°♊56'52	4.25317 AU	evening set	-12055 Feb 15 j 19:21	10°♊44'51	
direct	-12061 Apr 22 j 18:47	0°♊05'18					
evening set	-12061 Aug 24 j 05:58	18°♊11'19		conjunction	-12055 Mar 01 j 11:04	13°♊51'04	-1°37'06
				minimum elong	-12055 Mar 01 j 11:08	13°♊51'07	1°37'46
conjunction	-12061 Sep 05 j 17:34	21°♊03'33	1°32'12	max. Earth dist.	-12055 Mar 01 j 18:50	13°♊55'30	6.16787 AU
minimum elong	-12061 Sep 05 j 17:38	21°♊03'35	1°32'53	morning rise	-12055 Mar 15 j 01:05	16°♊56'21	
max. Earth dist.	-12061 Sep 05 j 14:40	21°♊01'52	6.21378 AU		-12055 May 18 j 08:59	0°♊	

Attention, astronomical year style is used: The year -12055 in astronomical counting style is the year 12056 BCE in historical counting style.

retrograde	-12055 Jul 17 j 11:10	5° Z 24'49	opposition	-12049 Feb 25 j 12:46	9° II 40'31	2°28'24
opposition	-12055 Sep 14 j 09:57	0° Z 25'59 -2°01'28	min. Earth dist.	-12049 Feb 25 j 18:58	9° II 38'32	4.24029 AU
min. Earth dist.	-12055 Sep 14 j 10:24	0° Z 25'50 4.20705 AU	direct	-12049 Apr 27 j 12:13	4° II 46'54	
	-12055 Sep 17 j 15:09	30° R Z	evening set	-12049 Aug 28 j 19:16	22° II 55'09	
direct	-12055 Nov 13 j 18:47	25° Z 21'46				
	-12054 Jan 09 j 14:32	0° Z	conjunction	-12049 Sep 10 j 07:52	25° II 48'21	1°27'39
evening set	-12054 Mar 23 j 01:49	14° Z 12'32	minimum elong	-12049 Sep 10 j 07:57	25° II 48'24	1°28'21
			max. Earth dist.	-12049 Sep 10 j 07:02	25° II 47'52	6.20175 AU
conjunction	-12054 Apr 05 j 13:09	17° Z 14'00 -0°59'54	morning rise	-12049 Sep 22 j 22:46	28° II 42'51	
minimum elong	-12054 Apr 05 j 13:14	17° Z 14'03 1°00'34		-12049 Sep 28 j 13:51	0° Z	
max. Earth dist.	-12054 Apr 05 j 02:49	17° Z 08'11 6.24425 AU	retrograde	-12048 Jan 29 j 20:22	17° Z 42'50	
morning rise	-12054 Apr 18 j 21:41	20° Z 13'53	opposition	-12048 Mar 31 j 08:13	12° Z 43'41	1°39'02
	-12054 Jun 04 j 13:26	0° Z	min. Earth dist.	-12048 Mar 31 j 02:17	12° Z 45'36	4.16447 AU
retrograde	-12054 Aug 18 j 18:05	8° Z 00'36	direct	-12048 May 30 j 01:15	7° Z 50'51	
opposition	-12054 Oct 17 j 02:33	3° Z 05'26 -0°50'20	evening set	-12048 Sep 29 j 18:36	26° Z 14'05	
min. Earth dist.	-12054 Oct 17 j 13:45	3° Z 01'44 4.27828 AU				
	-12054 Nov 11 j 09:37	30° R Z	conjunction	-12048 Oct 12 j 17:18	29° Z 14'53	0°40'42
direct	-12054 Dec 17 j 16:39	28° Z 01'32	minimum elong	-12048 Oct 12 j 17:22	29° Z 14'56	0°41'20
	-12053 Jan 23 j 06:54	0° Z	max. Earth dist.	-12048 Oct 13 j 08:28	29° Z 23'44	6.12944 AU
	-12053 Apr 18 j 19:03	15° Z		-12048 Oct 15 j 22:37	0° Z	
evening set	-12053 Apr 25 j 15:02	16° Z 30'23	morning rise	-12048 Oct 25 j 19:23	2° Z 17'36	
				-12048 Dec 25 j 06:53	15° Z	
conjunction	-12053 May 08 j 19:05	19° Z 26'27 -0°04'45	retrograde	-12047 Mar 05 j 18:20	21° Z 53'17	
minimum elong	-12053 May 08 j 19:06	19° Z 26'28 0°05'14	opposition	-12047 May 05 j 14:57	16° Z 50'38	0°14'25
behind sun begin	-12053 May 08 j 11:15	19° Z 22'06	min. Earth dist.	-12047 May 05 j 00:36	16° Z 55'24	4.10076 AU
behind sun end	-12053 May 09 j 02:56	19° Z 30'49		-12047 May 19 j 20:59	15° R Z	
max. Earth dist.	-12053 May 07 j 21:58	19° Z 14'40 6.30580 AU	direct	-12047 Jul 03 j 08:22	11° Z 56'37	
morning rise	-12053 May 21 j 19:29	22° Z 20'42	desc. node	-12047 Jul 05 j 04:11	11° Z 56'58	
asc. node	-12053 Jun 10 j 03:33	26° Z 33'38		-12047 Aug 16 j 00:14	15° Z	
	-12053 Jun 26 j 20:58	0° Z		-12047 Oct 31 j 16:07	0° Z	
retrograde	-12053 Sep 19 j 11:20	9° Z 43'15	evening set	-12047 Nov 03 j 13:19	0° Z 40'10	
opposition	-12053 Nov 18 j 13:15	4° Z 50'40 0°34'11				
min. Earth dist.	-12053 Nov 19 j 06:14	4° Z 45'11 4.32525 AU	conjunction	-12047 Nov 16 j 22:26	3° Z 47'45	-0°21'19
	-12052 Jan 08 j 18:39	30° R Z	minimum elong	-12047 Nov 16 j 22:24	3° Z 47'44	0°20'58
direct	-12052 Jan 19 j 20:45	29° Z 48'47	max. Earth dist.	-12047 Nov 18 j 00:51	4° Z 03'12	6.08068 AU
	-12052 Jan 31 j 00:11	0° Z	morning rise	-12047 Nov 30 j 11:08	6° Z 57'14	
evening set	-12052 May 26 j 18:20	17° Z 59'48	retrograde	-12046 Apr 10 j 20:38	26° Z 49'48	
max. Earth dist.	-12052 Jun 07 j 09:26	20° Z 35'22 6.33449 AU	opposition	-12046 Jun 09 j 21:34	21° Z 45'07	-1°17'04
			min. Earth dist.	-12046 Jun 09 j 02:21	21° Z 51'38	4.07198 AU
conjunction	-12052 Jun 08 j 12:51	20° Z 50'42 0°51'02	direct	-12046 Aug 07 j 02:00	16° Z 48'21	
minimum elong	-12052 Jun 08 j 12:46	20° Z 50'39 0°50'54		-12046 Nov 14 j 02:37	0° Z	
morning rise	-12052 Jun 21 j 04:35	23° Z 40'09	evening set	-12046 Dec 10 j 00:28	5° Z 51'33	
	-12052 Jul 20 j 15:47	0° Z				
retrograde	-12052 Oct 20 j 10:26	11° Z 01'38	conjunction	-12046 Dec 23 j 15:56	9° Z 02'01	-1°16'18
opposition	-12052 Dec 20 j 05:14	6° Z 09'52 1°47'45	minimum elong	-12046 Dec 23 j 15:50	9° Z 01'57	1°16'22
min. Earth dist.	-12052 Dec 21 j 00:40	6° Z 03'41 4.33454 AU	max. Earth dist.	-12046 Dec 24 j 20:06	9° Z 18'26	6.07363 AU
direct	-12051 Feb 20 j 17:11	1° Z 10'52	morning rise	-12045 Jan 06 j 09:42	12° Z 13'36	
evening set	-12051 Jun 27 j 00:53	19° Z 12'16		-12045 Apr 11 j 11:35	0° Z	
max. Earth dist.	-12051 Jul 08 j 11:36	21° Z 46'30 6.32250 AU	retrograde	-12045 May 16 j 09:42	1° Z 56'19	
				-12045 Jun 19 j 22:45	30° R Z	
conjunction	-12051 Jul 09 j 11:39	22° Z 00'02 1°31'40	opposition	-12045 Jul 14 j 16:55	26° Z 51'50	-2°20'43
minimum elong	-12051 Jul 09 j 11:34	21° Z 59'59 1°31'54	min. Earth dist.	-12045 Jul 14 j 00:57	26° Z 57'18	4.08844 AU
morning rise	-12051 Jul 21 j 20:47	24° Z 47'05	direct	-12045 Sep 11 j 03:48	21° Z 51'35	
	-12051 Aug 14 j 17:58	0° Z		-12045 Nov 25 j 09:16	0° Z	
retrograde	-12051 Nov 22 j 00:57	12° Z 29'04	evening set	-12044 Jan 16 j 04:48	11° Z 04'27	
opposition	-12050 Jan 22 j 11:15	7° Z 36'13 2°30'17				
min. Earth dist.	-12050 Jan 23 j 01:27	7° Z 31'44 4.30335 AU	conjunction	-12044 Jan 29 j 21:55	14° Z 13'42	-1°43'25
direct	-12050 Mar 25 j 09:47	2° Z 40'20	minimum elong	-12044 Jan 29 j 21:53	14° Z 13'40	1°43'53
	-12050 Jul 02 j 06:35	15° Z	max. Earth dist.	-12044 Jan 30 j 18:44	14° Z 25'41	6.11087 AU
evening set	-12050 Jul 28 j 03:20	20° Z 41'03		-12044 Feb 02 j 06:16	15° Z	
			morning rise	-12044 Feb 12 j 15:01	17° Z 22'53	
conjunction	-12050 Aug 09 j 11:21	23° Z 29'21 1°45'42		-12044 Apr 13 j 04:14	0° Z	
minimum elong	-12050 Aug 09 j 11:21	23° Z 29'21 1°46'15	retrograde	-12044 Jun 18 j 19:56	6° Z 30'57	
max. Earth dist.	-12050 Aug 08 j 20:44	23° Z 21'01 6.27355 AU	opposition	-12044 Aug 16 j 17:38	1° Z 29'00	-2°33'09
morning rise	-12050 Aug 21 j 19:41	26° Z 17'57	min. Earth dist.	-12044 Aug 16 j 09:26	1° Z 31'48	4.14354 AU
	-12050 Sep 07 j 09:43	0° Z		-12044 Aug 27 j 18:24	30° R Z	
retrograde	-12050 Dec 25 j 21:39	14° Z 36'01	direct	-12044 Oct 15 j 01:10	26° Z 26'00	

Attention, astronomical year style is used: The year -12044 in astronomical counting style is the year 12045 BCE in historical counting style.

	-12044 Dec 02 j 13:24	0°♌		max. Earth dist.	-12038 Aug 13 j 08:17	27°♏56'41	6.26601 AU
evening set	-12043 Feb 20 j 18:14	15°♌32'31			-12038 Aug 22 j 08:28	0°♐	
				morning rise	-12038 Aug 26 j 05:28	0°♐52'51	
conjunction	-12043 Mar 06 j 09:23	18°♌38'07	-1°33'39	retrograde	-12038 Dec 30 j 15:14	19°♐15'49	
minimum elong	-12043 Mar 06 j 09:27	18°♌38'09	1°34'20	opposition	-12037 Mar 02 j 07:57	14°♐19'48	2°24'12
max. Earth dist.	-12043 Mar 06 j 12:59	18°♌40'10	6.17867 AU	min. Earth dist.	-12037 Mar 02 j 11:28	14°♐18'41	4.23238 AU
morning rise	-12043 Mar 19 j 22:57	21°♌42'43		direct	-12037 May 02 j 02:35	9°♐26'26	
	-12043 Apr 27 j 09:13	0°♑		evening set	-12037 Sep 02 j 06:54	27°♐35'20	
retrograde	-12043 Jul 21 j 23:28	10°♑05'01			-12037 Sep 12 j 17:53	0°♑	
opposition	-12043 Sep 18 j 22:56	5°♑06'44	-1°53'24				
min. Earth dist.	-12043 Sep 19 j 01:33	5°♑05'51	4.21715 AU	conjunction	-12037 Sep 14 j 20:37	0°♑29'20	1°22'38
direct	-12043 Nov 18 j 12:45	0°♑02'26		minimum elong	-12037 Sep 14 j 20:42	0°♑29'23	1°23'21
evening set	-12042 Mar 27 j 19:09	18°♑50'32		max. Earth dist.	-12037 Sep 14 j 22:29	0°♑30'25	6.19416 AU
				morning rise	-12037 Sep 27 j 12:44	3°♑24'43	
conjunction	-12042 Apr 10 j 05:50	21°♑51'21	-0°52'57	retrograde	-12036 Feb 03 j 18:33	22°♑29'05	
minimum elong	-12042 Apr 10 j 05:55	21°♑51'24	0°53'36	opposition	-12036 Apr 05 j 04:42	17°♑29'22	1°28'55
max. Earth dist.	-12042 Apr 09 j 18:40	21°♑45'05	6.25318 AU	min. Earth dist.	-12036 Apr 04 j 22:06	17°♑31'31	4.15743 AU
morning rise	-12042 Apr 23 j 13:15	24°♑50'30		direct	-12036 Jun 03 j 19:38	12°♑36'25	
	-12042 May 17 j 04:50	0°♒			-12036 Sep 30 j 01:05	0°♒	
retrograde	-12042 Aug 23 j 03:36	12°♒33'06		evening set	-12036 Oct 04 j 10:40	1°♒01'01	
opposition	-12042 Oct 21 j 14:11	7°♒38'27	-0°38'53				
min. Earth dist.	-12042 Oct 22 j 02:02	7°♒34'33	4.28525 AU	conjunction	-12036 Oct 17 j 10:48	4°♒02'43	0°32'38
direct	-12042 Dec 22 j 06:38	2°♒34'48		minimum elong	-12036 Oct 17 j 10:52	4°♒02'45	0°33'13
	-12041 Apr 02 j 03:09	15°♒		max. Earth dist.	-12036 Oct 18 j 03:31	4°♒12'27	6.12370 AU
asc. node	-12041 Apr 20 j 02:04	18°♒48'40		morning rise	-12036 Oct 30 j 14:30	7°♒06'23	
evening set	-12041 Apr 30 j 03:46	21°♒01'28			-12036 Dec 05 j 03:28	15°♒	
max. Earth dist.	-12041 May 12 j 06:37	23°♒43'31	6.31034 AU	retrograde	-12035 Mar 10 j 15:58	26°♒44'27	
				opposition	-12035 May 10 j 10:50	21°♒41'26	0°01'31
conjunction	-12041 May 13 j 06:29	23°♒56'51	0°03'26	min. Earth dist.	-12035 May 09 j 19:08	21°♒46'39	4.09681 AU
minimum elong	-12041 May 13 j 06:28	23°♒56'50	0°03'00	desc. node	-12035 May 16 j 19:34	20°♒50'53	
behind sun begin	-12041 May 12 j 22:25	23°♒52'21		direct	-12035 Jul 08 j 01:14	16°♒47'05	
behind sun end	-12041 May 13 j 14:32	24°♒01'19			-12035 Oct 15 j 00:55	0°♓	
morning rise	-12041 May 26 j 05:53	26°♒50'27		evening set	-12035 Nov 08 j 10:41	5°♓32'42	
	-12041 Jun 09 j 15:31	0°♈					
retrograde	-12041 Sep 23 j 22:41	14°♈12'07		conjunction	-12035 Nov 21 j 20:53	8°♓40'49	-0°29'45
opposition	-12041 Nov 23 j 01:44	9°♈19'48	0°45'33	minimum elong	-12035 Nov 21 j 20:49	8°♓40'47	0°29'28
min. Earth dist.	-12041 Nov 23 j 19:59	9°♈13'55	4.32720 AU	max. Earth dist.	-12035 Nov 22 j 23:11	8°♓56'12	6.07873 AU
direct	-12040 Jan 24 j 11:00	4°♈18'16		morning rise	-12035 Dec 05 j 10:33	11°♓50'46	
evening set	-12040 May 31 j 03:43	22°♈28'06			-12034 Mar 13 j 14:34	0°♈	
				retrograde	-12034 Apr 15 j 17:37	1°♈43'08	
conjunction	-12040 Jun 12 j 21:11	25°♈18'31	0°57'54		-12034 May 18 j 12:07	30°♈	
minimum elong	-12040 Jun 12 j 21:06	25°♈18'28	0°57'49	opposition	-12034 Jun 14 j 16:04	26°♈38'17	-1°28'04
max. Earth dist.	-12040 Jun 11 j 19:05	25°♈03'54	6.33375 AU	min. Earth dist.	-12034 Jun 13 j 21:36	26°♈44'34	4.07217 AU
morning rise	-12040 Jun 25 j 11:41	28°♈07'31		direct	-12034 Aug 11 j 21:06	21°♈40'59	
	-12040 Jul 03 j 23:20	0°♉			-12034 Oct 26 j 07:50	0°♉	
retrograde	-12040 Oct 24 j 21:50	15°♉31'09		evening set	-12034 Dec 15 j 01:22	10°♉46'11	
opposition	-12040 Dec 24 j 19:39	10°♉39'22	1°55'55				
min. Earth dist.	-12040 Dec 25 j 13:40	10°♉33'39	4.33155 AU	conjunction	-12034 Dec 28 j 17:26	13°♉56'44	-1°21'58
direct	-12039 Feb 25 j 05:13	5°♉40'55		minimum elong	-12034 Dec 28 j 17:20	13°♉56'40	1°22'06
evening set	-12039 Jul 01 j 09:23	23°♉41'59		max. Earth dist.	-12034 Dec 29 j 21:41	14°♉13'10	6.07584 AU
				morning rise	-12033 Jan 11 j 11:18	17°♉08'12	
conjunction	-12039 Jul 13 j 19:15	26°♉29'34	1°35'24		-12033 Mar 13 j 14:45	0°♊	
minimum elong	-12039 Jul 13 j 19:10	26°♉29'32	1°35'41	retrograde	-12033 May 21 j 04:32	6°♊47'48	
max. Earth dist.	-12039 Jul 12 j 19:50	26°♉16'22	6.31746 AU	opposition	-12033 Jul 19 j 09:24	1°♊43'34	-2°25'40
morning rise	-12039 Jul 26 j 03:56	29°♉16'35		min. Earth dist.	-12033 Jul 18 j 18:24	1°♊48'43	4.09269 AU
	-12039 Jul 29 j 09:34	0°♋			-12033 Aug 01 j 06:08	30°♊	
retrograde	-12039 Oct 20 j 16:35	15°♋		direct	-12033 Sep 15 j 21:19	26°♊42'55	
	-12039 Nov 26 j 18:04	17°♋02'46			-12033 Oct 31 j 14:49	0°♋	
	-12038 Jan 03 j 03:57	15°♋			-12032 Jan 17 j 03:04	15°♋	
opposition	-12038 Jan 27 j 04:22	12°♋09'39	2°32'51	evening set	-12032 Jan 21 j 06:10	15°♋56'31	
min. Earth dist.	-12038 Jan 27 j 18:09	12°♋05'17	4.29677 AU				
direct	-12038 Mar 30 j 01:08	7°♋14'08		conjunction	-12032 Feb 03 j 23:03	19°♋05'27	-1°44'14
	-12038 Jun 13 j 16:22	15°♋		minimum elong	-12032 Feb 03 j 23:02	19°♋05'26	1°44'44
evening set	-12038 Aug 01 j 12:24	25°♋15'05		max. Earth dist.	-12032 Feb 04 j 16:02	19°♋15'13	6.11654 AU
				morning rise	-12032 Feb 17 j 16:01	22°♋14'15	
conjunction	-12038 Aug 13 j 20:41	28°♋03'46	1°45'07		-12032 Mar 23 j 23:49	0°♌	
minimum elong	-12038 Aug 13 j 20:42	28°♋03'46	1°45'41	retrograde	-12032 Jun 23 j 10:42	11°♌17'22	

Attention, astronomical year style is used: The year -12032 in astronomical counting style is the year 12033 BCE in historical counting style.

opposition	-12032 Aug 21 j 08:06	6°♌15'51	-2°30'32	evening set	-12026 Aug 05 j 20:40	29°♌46'45	
min. Earth dist.	-12032 Aug 21 j 01:28	6°♌18'07	4.15017 AU		-12026 Aug 06 j 20:01	0°♐	
direct	-12032 Oct 19 j 19:41	1°♌12'32					
evening set	-12031 Feb 25 j 16:31	20°♌18'17		conjunction	-12026 Aug 18 j 05:07	2°♐35'50	1°43'55
				minimum elong	-12026 Aug 18 j 05:08	2°♐35'50	1°44'31
conjunction	-12031 Mar 11 j 07:26	23°♌23'28	-1°29'33	max. Earth dist.	-12026 Aug 17 j 17:45	2°♐29'20	6.25859 AU
minimum elong	-12031 Mar 11 j 07:31	23°♌23'31	1°30'16	morning rise	-12026 Aug 30 j 14:32	5°♐25'30	
max. Earth dist.	-12031 Mar 11 j 09:52	23°♌24'51	6.18603 AU	retrograde	-12025 Jan 04 j 10:32	23°♐53'37	
morning rise	-12031 Mar 24 j 20:13	26°♌27'29		opposition	-12025 Mar 07 j 02:28	18°♐57'08	2°19'11
	-12031 Apr 09 j 18:13	0°♌		min. Earth dist.	-12025 Mar 07 j 05:22	18°♐56'12	4.22335 AU
retrograde	-12031 Jul 26 j 12:30	14°♌44'42		direct	-12025 May 06 j 18:29	14°♐03'53	
opposition	-12031 Sep 23 j 12:02	9°♌46'59	-1°44'36		-12025 Aug 27 j 22:54	0°♐	
min. Earth dist.	-12031 Sep 23 j 15:54	9°♌45'42	4.22448 AU	evening set	-12025 Sep 06 j 18:15	2°♐14'13	
direct	-12031 Nov 23 j 05:19	4°♌42'43					
evening set	-12030 Apr 01 j 12:52	23°♌28'52		conjunction	-12025 Sep 19 j 09:15	5°♐09'12	1°17'09
				minimum elong	-12025 Sep 19 j 09:20	5°♐09'15	1°17'51
conjunction	-12030 Apr 14 j 22:38	26°♌29'07	-0°45'38	max. Earth dist.	-12025 Sep 19 j 13:16	5°♐11'31	6.18448 AU
minimum elong	-12030 Apr 14 j 22:42	26°♌29'09	0°46'17	morning rise	-12025 Oct 02 j 02:47	8°♐05'39	
max. Earth dist.	-12030 Apr 14 j 08:41	26°♌21'17	6.26002 AU	retrograde	-12024 Feb 08 j 15:42	27°♐15'08	
morning rise	-12030 Apr 28 j 05:15	29°♌27'39		opposition	-12024 Apr 10 j 00:38	22°♐14'59	1°18'15
	-12030 Apr 30 j 15:21	0°♌		min. Earth dist.	-12024 Apr 09 j 16:33	22°♐17'37	4.14778 AU
	-12030 Jul 21 j 23:53	15°♌		direct	-12024 Jun 08 j 11:15	17°♐21'58	
retrograde	-12030 Aug 27 j 14:54	17°♌06'51			-12024 Sep 13 j 09:15	0°♑	
	-12030 Oct 03 j 10:26	15°♌		evening set	-12024 Oct 09 j 03:40	5°♑49'22	
opposition	-12030 Oct 26 j 03:04	12°♌12'34	-0°27'06				
min. Earth dist.	-12030 Oct 26 j 15:54	12°♌08'21	4.29111 AU	conjunction	-12024 Oct 22 j 05:15	8°♑52'07	0°24'19
direct	-12030 Dec 26 j 22:20	7°♌09'05		minimum elong	-12024 Oct 22 j 05:18	8°♑52'09	0°24'54
asc. node	-12029 Feb 27 j 22:57	12°♌35'28		max. Earth dist.	-12024 Oct 22 j 22:49	9°♑02'22	6.11494 AU
	-12029 Mar 14 j 05:32	15°♌		morning rise	-12024 Nov 04 j 10:34	11°♑56'53	
evening set	-12029 May 04 j 16:50	25°♌33'35			-12024 Nov 17 j 18:10	15°♑	
					-12023 Feb 10 j 21:59	0°♒	
conjunction	-12029 May 17 j 18:25	28°♌28'16	0°11'32	retrograde	-12023 Mar 15 j 16:01	1°♒38'46	
minimum elong	-12029 May 17 j 18:24	28°♌28'16	0°11'09	desc. node	-12023 Mar 27 j 21:21	1°♒24'19	
behind sun begin	-12029 May 17 j 12:24	28°♌24'56			-12023 Apr 17 j 03:40	30°♒♑	
behind sun end	-12029 May 18 j 00:23	28°♌31'36		opposition	-12023 May 15 j 07:42	26°♑35'21	-0°11'30
max. Earth dist.	-12029 May 16 j 19:23	28°♌15'24	6.31495 AU	min. Earth dist.	-12023 May 14 j 15:41	26°♑40'42	4.08952 AU
	-12029 May 24 j 14:36	0°♒		direct	-12023 Jul 12 j 20:09	21°♑40'38	
morning rise	-12029 May 30 j 16:26	1°♒21'11			-12023 Sep 26 j 04:57	0°♒	
retrograde	-12029 Sep 28 j 09:08	18°♒41'51		evening set	-12023 Nov 13 j 09:55	10°♒29'50	
opposition	-12029 Nov 27 j 15:02	13°♒49'43	0°56'45				
min. Earth dist.	-12029 Nov 28 j 08:57	13°♒43'58	4.33024 AU	conjunction	-12023 Nov 26 j 21:23	13°♒38'41	-0°38'05
direct	-12028 Jan 29 j 00:45	8°♒48'38		minimum elong	-12023 Nov 26 j 21:18	13°♒38'39	0°37'52
evening set	-12028 Jun 04 j 13:33	26°♒56'35		max. Earth dist.	-12023 Nov 28 j 01:22	13°♒55'04	6.07361 AU
max. Earth dist.	-12028 Jun 16 j 02:32	29°♒31'13	6.33471 AU	morning rise	-12023 Dec 10 j 11:58	16°♒49'15	
					-12022 Feb 11 j 03:07	0°♑	
conjunction	-12028 Jun 17 j 05:35	29°♒46'22	1°04'28	retrograde	-12022 Apr 20 j 17:31	6°♑42'27	
minimum elong	-12028 Jun 17 j 05:30	29°♒46'19	1°04'25	opposition	-12022 Jun 19 j 12:37	1°♑37'34	-1°38'39
	-12028 Jun 18 j 05:57	0°♑		min. Earth dist.	-12022 Jun 18 j 18:29	1°♑43'44	4.06986 AU
morning rise	-12028 Jun 29 j 19:10	2°♑34'53			-12022 Jul 01 j 16:48	30°♒♒	
retrograde	-12028 Oct 29 j 11:07	20°♑00'02		direct	-12022 Aug 16 j 16:40	26°♒39'50	
opposition	-12028 Dec 29 j 10:16	15°♑08'09	2°03'25		-12022 Oct 01 j 08:51	0°♑	
min. Earth dist.	-12028 Dec 30 j 04:21	15°♑02'24	4.33040 AU	evening set	-12022 Dec 20 j 05:28	15°♑48'03	
direct	-12027 Mar 01 j 19:29	10°♑10'03					
evening set	-12027 Jul 05 j 17:08	28°♑10'05		conjunction	-12021 Jan 02 j 21:47	18°♑58'42	-1°27'10
	-12027 Jul 13 j 20:39	0°♒		minimum elong	-12021 Jan 02 j 21:40	18°♑58'38	1°27'22
max. Earth dist.	-12027 Jul 17 j 05:27	0°♒45'37	6.31400 AU	max. Earth dist.	-12021 Jan 03 j 23:40	19°♑13'45	6.07620 AU
				morning rise	-12021 Jan 16 j 15:59	22°♑10'12	
conjunction	-12027 Jul 18 j 02:30	0°♒57'30	1°38'35		-12021 Feb 20 j 22:10	0°♒	
minimum elong	-12027 Jul 18 j 02:27	0°♒57'28	1°38'56	retrograde	-12021 May 26 j 00:52	11°♒47'07	
morning rise	-12027 Jul 30 j 10:39	3°♒44'27		opposition	-12021 Jul 24 j 04:28	6°♒43'08	-2°29'43
	-12027 Sep 23 j 09:28	15°♒		min. Earth dist.	-12021 Jul 23 j 14:04	6°♒48'05	4.09579 AU
retrograde	-12027 Dec 01 j 07:58	21°♒34'20		direct	-12021 Sep 20 j 18:55	1°♒42'01	
opposition	-12026 Jan 31 j 20:46	16°♒40'54	2°34'30		-12021 Dec 30 j 18:20	15°♒	
min. Earth dist.	-12026 Feb 01 j 08:55	16°♒37'03	4.29122 AU	evening set	-12020 Jan 26 j 10:29	20°♒56'40	
	-12026 Feb 14 j 10:18	15°♒					
direct	-12026 Apr 03 j 14:04	11°♒45'47		conjunction	-12020 Feb 09 j 03:27	24°♒05'22	-1°44'21
	-12026 May 20 j 15:47	15°♒		minimum elong	-12020 Feb 09 j 03:27	24°♒05'22	1°44'53

Attention, astronomical year style is used: The year -12020 in astronomical counting style is the year 12021 BCE in historical counting style.

max. Earth dist.	-12020 Feb 09 j 19:49	24° \mathbb{M} 14'47	6.12224 AU		-12014 Jul 22 j 05:18	0° \mathbb{I}	
morning rise	-12020 Feb 22 j 19:55	27° \mathbb{M} 13'43		evening set	-12014 Aug 10 j 02:47	4° \mathbb{I} 12'52	
	-12020 Mar 06 j 02:10	0° \mathbb{X}					
retrograde	-12020 Jun 28 j 05:53	16° \mathbb{X} 11'38		conjunction	-12014 Aug 22 j 11:49	7° \mathbb{I} 02'27	1°42'07
opposition	-12020 Aug 26 j 01:34	11° \mathbb{X} 10'39	-2°26'49	minimum elong	-12014 Aug 22 j 11:52	7° \mathbb{I} 02'29	1°42'45
min. Earth dist.	-12020 Aug 25 j 20:26	11° \mathbb{X} 12'24	4.15789 AU	max. Earth dist.	-12014 Aug 22 j 02:32	6° \mathbb{I} 57'08	6.25114 AU
direct	-12020 Oct 24 j 16:58	6° \mathbb{X} 07'09		morning rise	-12014 Sep 03 j 21:48	9° \mathbb{I} 52'42	
evening set	-12019 Mar 02 j 17:10	25° \mathbb{X} 11'18		retrograde	-12013 Jan 09 j 02:26	28° \mathbb{I} 25'55	
				opposition	-12013 Mar 11 j 18:39	23° \mathbb{I} 29'01	2°13'24
conjunction	-12019 Mar 16 j 07:33	28° \mathbb{X} 15'56	-1°24'48	min. Earth dist.	-12013 Mar 11 j 20:36	23° \mathbb{I} 28'23	4.21359 AU
minimum elong	-12019 Mar 16 j 07:39	28° \mathbb{X} 15'59	1°25'29	direct	-12013 May 11 j 06:43	18° \mathbb{I} 35'54	
max. Earth dist.	-12019 Mar 16 j 07:45	28° \mathbb{X} 16'03	6.19534 AU		-12013 Aug 11 j 13:19	0° \mathbb{I}	
	-12019 Mar 23 j 23:14	0° \mathbb{Z}		evening set	-12013 Sep 11 j 04:05	6° \mathbb{I} 48'12	
morning rise	-12019 Mar 29 j 19:45	1° \mathbb{Z} 19'19					
retrograde	-12019 Jul 31 j 02:14	19° \mathbb{Z} 30'44		conjunction	-12013 Sep 23 j 20:14	9° \mathbb{I} 44'12	1°11'17
opposition	-12019 Sep 28 j 03:42	14° \mathbb{Z} 33'29	-1°34'59	minimum elong	-12013 Sep 23 j 20:20	9° \mathbb{I} 44'15	1°11'58
min. Earth dist.	-12019 Sep 28 j 08:00	14° \mathbb{Z} 32'03	4.23467 AU	max. Earth dist.	-12013 Sep 24 j 00:27	9° \mathbb{I} 46'38	6.17329 AU
direct	-12019 Nov 28 j 00:18	9° \mathbb{Z} 29'14		morning rise	-12013 Oct 06 j 15:22	12° \mathbb{I} 41'49	
evening set	-12018 Apr 06 j 07:53	28° \mathbb{Z} 12'02			-12012 Jan 08 j 09:57	0° \mathbb{I}	
	-12018 Apr 14 j 09:16	0° \mathbb{Z}		retrograde	-12012 Feb 13 j 12:20	1° \mathbb{I} 57'14	
					-12012 Mar 20 j 13:36	30° \mathbb{R} \mathbb{I}	
conjunction	-12018 Apr 19 j 16:39	1° \mathbb{Z} 11'26	-0°37'57	opposition	-12012 Apr 14 j 19:04	26° \mathbb{I} 56'35	1°07'15
minimum elong	-12018 Apr 19 j 16:43	1° \mathbb{Z} 11'28	0°38'35	min. Earth dist.	-12012 Apr 14 j 10:05	26° \mathbb{I} 59'31	4.13584 AU
max. Earth dist.	-12018 Apr 19 j 02:15	1° \mathbb{Z} 03'22	6.27075 AU	direct	-12012 Jun 13 j 02:04	22° \mathbb{I} 03'24	
morning rise	-12018 May 02 j 22:05	4° \mathbb{Z} 09'05			-12012 Aug 25 j 22:58	0° \mathbb{I}	
	-12018 Jun 24 j 19:02	15° \mathbb{Z}		evening set	-12012 Oct 13 j 19:55	10° \mathbb{I} 34'43	
retrograde	-12018 Sep 01 j 02:50	21° \mathbb{Z} 43'36					
opposition	-12018 Oct 30 j 17:11	16° \mathbb{Z} 49'41	-0°15'06	conjunction	-12012 Oct 26 j 23:11	13° \mathbb{I} 38'41	0°15'58
min. Earth dist.	-12018 Oct 31 j 06:47	16° \mathbb{Z} 45'15	4.30138 AU	minimum elong	-12012 Oct 26 j 23:13	13° \mathbb{I} 38'42	0°16'30
	-12018 Nov 14 j 00:47	15° \mathbb{R} \mathbb{Z}		max. Earth dist.	-12012 Oct 27 j 19:03	13° \mathbb{I} 50'17	6.10365 AU
direct	-12018 Dec 31 j 15:53	11° \mathbb{Z} 46'31			-12012 Nov 01 j 18:17	15° \mathbb{I}	
asc. node	-12017 Jan 08 j 03:44	11° \mathbb{Z} 51'39		morning rise	-12012 Nov 09 j 05:58	16° \mathbb{I} 44'38	
	-12017 Feb 17 j 06:29	15° \mathbb{Z}			-12011 Jan 11 j 13:17	0° \mathbb{I}	
	-12017 May 08 j 17:25	0° \mathbb{X}		desc. node	-12011 Feb 06 j 04:58	3° \mathbb{I} 48'22	
evening set	-12017 May 09 j 06:01	0° \mathbb{X} 06'58		retrograde	-12011 Mar 20 j 15:57	6° \mathbb{I} 31'08	
max. Earth dist.	-12017 May 21 j 05:54	2° \mathbb{X} 47'10	6.32393 AU	min. Earth dist.	-12011 May 19 j 11:35	1° \mathbb{I} 32'54	4.08008 AU
				opposition	-12011 May 20 j 03:46	1° \mathbb{I} 27'28	-0°24'19
conjunction	-12017 May 22 j 06:10	3° \mathbb{X} 00'42	0°19'33		-12011 May 31 j 04:55	30° \mathbb{R} \mathbb{I}	
minimum elong	-12017 May 22 j 06:08	3° \mathbb{X} 00'41	0°19'13	direct	-12011 Jul 17 j 13:22	26° \mathbb{I} 32'27	
morning rise	-12017 Jun 04 j 02:58	5° \mathbb{X} 52'43			-12011 Sep 02 j 01:35	0° \mathbb{I}	
retrograde	-12017 Oct 02 j 19:10	23° \mathbb{X} 11'08		evening set	-12011 Nov 18 j 09:56	15° \mathbb{I} 26'22	
opposition	-12017 Dec 02 j 04:21	18° \mathbb{X} 19'04	1°07'29				
min. Earth dist.	-12017 Dec 02 j 22:16	18° \mathbb{X} 13'19	4.33738 AU	conjunction	-12011 Dec 01 j 22:17	18° \mathbb{I} 35'57	-0°46'05
direct	-12016 Feb 02 j 15:19	13° \mathbb{X} 18'18		minimum elong	-12011 Dec 01 j 22:12	18° \mathbb{I} 35'54	0°45'55
	-12016 Jun 02 j 15:52	0° \mathbb{Y}		max. Earth dist.	-12011 Dec 03 j 01:22	18° \mathbb{I} 51'48	6.06680 AU
evening set	-12016 Jun 08 j 21:50	1° \mathbb{Y} 22'49		morning rise	-12011 Dec 15 j 13:58	21° \mathbb{I} 47'13	
max. Earth dist.	-12016 Jun 20 j 11:19	3° \mathbb{Y} 57'38	6.33934 AU		-12010 Jan 21 j 10:48	0° \mathbb{I}	
				retrograde	-12010 Apr 25 j 16:00	11° \mathbb{I} 41'39	
conjunction	-12016 Jun 21 j 12:44	4° \mathbb{Y} 11'52	1°10'33	opposition	-12010 Jun 24 j 08:58	6° \mathbb{I} 36'44	-1°48'27
minimum elong	-12016 Jun 21 j 12:38	4° \mathbb{Y} 11'48	1°10'34	min. Earth dist.	-12010 Jun 23 j 14:18	6° \mathbb{I} 43'07	4.06664 AU
morning rise	-12016 Jul 04 j 01:03	6° \mathbb{Y} 59'41		direct	-12010 Aug 21 j 12:39	1° \mathbb{I} 48'33	
retrograde	-12016 Nov 02 j 21:10	24° \mathbb{Y} 25'24		evening set	-12010 Dec 25 j 10:03	20° \mathbb{I} 50'08	
opposition	-12015 Jan 02 j 23:39	19° \mathbb{Y} 33'23	2°10'02				
min. Earth dist.	-12015 Jan 03 j 17:20	19° \mathbb{Y} 27'47	4.33220 AU	conjunction	-12009 Jan 08 j 02:54	24° \mathbb{I} 00'56	-1°31'41
direct	-12015 Mar 06 j 08:28	14° \mathbb{Y} 35'43		minimum elong	-12009 Jan 08 j 02:49	24° \mathbb{I} 00'53	1°31'57
	-12015 Jun 28 j 10:06	0° \mathbb{Z}		max. Earth dist.	-12009 Jan 09 j 05:41	24° \mathbb{I} 16'30	6.07687 AU
evening set	-12015 Jul 09 j 23:04	2° \mathbb{Z} 33'38		morning rise	-12009 Jan 21 j 21:02	27° \mathbb{I} 12'21	
max. Earth dist.	-12015 Jul 21 j 09:56	5° \mathbb{Z} 08'30	6.31253 AU		-12009 Feb 03 j 02:32	0° \mathbb{I}	
					-12009 Apr 27 j 18:37	15° \mathbb{I}	
conjunction	-12015 Jul 22 j 07:40	5° \mathbb{Z} 20'47	1°41'08	retrograde	-12009 May 30 j 23:31	16° \mathbb{I} 46'11	
minimum elong	-12015 Jul 22 j 07:37	5° \mathbb{Z} 20'45	1°41'30		-12009 Jul 02 j 18:29	15° \mathbb{R} \mathbb{I}	
morning rise	-12015 Aug 03 j 15:36	8° \mathbb{Z} 07'39		opposition	-12009 Jul 28 j 23:51	11° \mathbb{I} 42'30	-2°32'38
	-12015 Sep 04 j 10:17	15° \mathbb{Z}		min. Earth dist.	-12009 Jul 28 j 10:44	11° \mathbb{I} 47'00	4.10036 AU
retrograde	-12015 Dec 05 j 21:04	26° \mathbb{Z} 00'44		direct	-12009 Sep 25 j 17:16	6° \mathbb{I} 41'00	
opposition	-12014 Feb 05 j 11:08	21° \mathbb{Z} 06'56	2°35'11		-12009 Dec 11 j 07:34	15° \mathbb{I}	
min. Earth dist.	-12014 Feb 05 j 22:52	21° \mathbb{Z} 03'13	4.28653 AU	evening set	-12008 Jan 31 j 14:39	25° \mathbb{I} 55'46	
direct	-12014 Apr 08 j 02:24	16° \mathbb{Z} 12'03					

Attention, astronomical year style is used: The year -12008 in astronomical counting style is the year 12009 BCE in historical counting style.

conjunction	-12008 Feb 14 j 07:24	29° ℓ 04'03	-1°43'41	min. Earth dist.	-12002 Feb 10 j 15:44	25° ♄ 37'43	4.27642 AU
minimum elong	-12008 Feb 14 j 07:25	29° ℓ 04'03	1°44'16	direct	-12002 Apr 12 j 17:00	20° ♄ 46'42	
max. Earth dist.	-12008 Feb 14 j 22:10	29° ℓ 12'31	6.13009 AU		-12002 Jul 04 j 12:16	0° ♄	
	-12008 Feb 18 j 08:56	0° ♄		evening set	-12002 Aug 14 j 12:36	8° ♄ 49'09	
morning rise	-12008 Feb 27 j 23:30	2° ♄ 11'52					
retrograde	-12008 Jul 02 j 21:29	21° ♄ 03'30		conjunction	-12002 Aug 26 j 22:07	11° ♄ 39'28	1°39'40
opposition	-12008 Aug 30 j 18:16	16° ♄ 02'57	-2°22'05	minimum elong	-12002 Aug 26 j 22:10	11° ♄ 39'29	1°40'19
min. Earth dist.	-12008 Aug 30 j 13:22	16° ♄ 04'37	4.16816 AU	max. Earth dist.	-12002 Aug 26 j 13:14	11° ♄ 34'22	6.23930 AU
direct	-12008 Oct 29 j 12:53	10° ♄ 59'13		morning rise	-12002 Sep 08 j 09:11	14° ♄ 30'39	
evening set	-12007 Mar 07 j 16:29	0° ♄ 00'40			-12002 Nov 28 j 06:24	0° ♄	
	-12007 Mar 07 j 15:18	0° ♄		retrograde	-12001 Jan 14 j 00:01	3° ♄ 10'31	
					-12001 Mar 02 j 10:38	30° ♄	
conjunction	-12007 Mar 21 j 06:13	3° ♄ 04'34	-1°19'30	opposition	-12001 Mar 16 j 15:24	28° ♄ 13'06	2°06'35
minimum elong	-12007 Mar 21 j 06:19	3° ♄ 04'37	1°20'12	min. Earth dist.	-12001 Mar 16 j 15:25	28° ♄ 13'06	4.20089 AU
max. Earth dist.	-12007 Mar 21 j 04:21	3° ♄ 03'31	6.20713 AU	direct	-12001 May 15 j 22:50	23° ♄ 20'06	
morning rise	-12007 Apr 03 j 17:36	6° ♄ 07'08			-12001 Jul 22 j 19:15	0° ♄	
retrograde	-12007 Aug 04 j 15:45	24° ♄ 12'02		evening set	-12001 Sep 15 j 18:51	11° ♄ 35'16	
opposition	-12007 Oct 02 j 17:49	19° ♄ 15'17	-1°24'52				
min. Earth dist.	-12007 Oct 03 j 00:12	19° ♄ 13'09	4.24640 AU	conjunction	-12001 Sep 28 j 12:37	14° ♄ 32'28	1°04'42
direct	-12007 Dec 02 j 19:24	14° ♄ 11'04		minimum elong	-12001 Sep 28 j 12:43	14° ♄ 32'31	1°05'22
	-12006 Mar 29 j 03:16	0° ♄		max. Earth dist.	-12001 Sep 28 j 20:32	14° ♄ 37'04	6.16126 AU
evening set	-12006 Apr 11 j 00:36	2° ♄ 50'02		morning rise	-12001 Oct 11 j 09:14	17° ♄ 31'20	
					-12001 Dec 09 j 22:52	0° ♄	
conjunction	-12006 Apr 24 j 08:23	5° ♄ 48'36	-0°30'09	retrograde	-12000 Feb 18 j 14:38	6° ♄ 52'27	
minimum elong	-12006 Apr 24 j 08:26	5° ♄ 48'38	0°30'44	opposition	-12000 Apr 19 j 18:12	1° ♄ 51'24	0°55'17
max. Earth dist.	-12006 Apr 23 j 16:28	5° ♄ 39'42	6.28131 AU	min. Earth dist.	-12000 Apr 19 j 08:09	1° ♄ 54'41	4.12569 AU
morning rise	-12006 May 07 j 12:41	8° ♄ 45'23			-12000 May 04 j 06:26	30° ♄	
	-12006 Jun 05 j 11:55	15° ♄		direct	-12000 Jun 17 j 21:24	26° ♄ 58'09	
retrograde	-12006 Sep 05 j 11:51	26° ♄ 15'49			-12000 Jul 31 j 14:20	0° ♄	
opposition	-12006 Nov 04 j 05:44	21° ♄ 22'13	-0°03'11		-12000 Oct 16 j 09:15	15° ♄	
min. Earth dist.	-12006 Nov 04 j 19:43	21° ♄ 17'40	4.30986 AU	evening set	-12000 Oct 18 j 17:32	15° ♄ 32'40	
asc. node	-12006 Nov 18 j 21:02	19° ♄ 30'35					
direct	-12005 Jan 05 j 06:14	16° ♄ 19'18		conjunction	-12000 Oct 31 j 22:08	18° ♄ 37'35	0°07'11
	-12005 Apr 22 j 10:30	0° ♄		minimum elong	-12000 Oct 31 j 22:09	18° ♄ 37'36	0°07'40
evening set	-12005 May 13 j 17:19	4° ♄ 36'40		behind sun begin	-12000 Oct 31 j 14:43	18° ♄ 33'16	
				behind sun end	-12000 Nov 01 j 05:35	18° ♄ 41'55	
conjunction	-12005 May 26 j 16:06	7° ♄ 29'36	0°27'23	max. Earth dist.	-12000 Nov 01 j 18:53	18° ♄ 49'43	6.09659 AU
minimum elong	-12005 May 26 j 16:03	7° ♄ 29'35	0°27'05	morning rise	-12000 Nov 14 j 06:37	21° ♄ 44'33	
max. Earth dist.	-12005 May 25 j 15:16	7° ♄ 15'45	6.32962 AU	desc. node	-12000 Dec 16 j 12:00	28° ♄ 57'53	
morning rise	-12005 Jun 08 j 11:37	10° ♄ 20'52			-12000 Dec 21 j 10:10	0° ♄	
retrograde	-12005 Oct 07 j 05:45	27° ♄ 38'39		retrograde	-11999 Mar 25 j 16:28	11° ♄ 33'22	
opposition	-12005 Dec 06 j 17:05	22° ♄ 46'45	1°17'50	min. Earth dist.	-11999 May 24 j 09:00	6° ♄ 35'27	4.07714 AU
min. Earth dist.	-12005 Dec 07 j 12:05	22° ♄ 40'41	4.33987 AU	opposition	-11999 May 25 j 03:06	6° ♄ 29'22	-0°37'22
direct	-12004 Feb 07 j 05:51	17° ♄ 46'25		direct	-11999 Jul 22 j 10:36	1° ♄ 33'59	
	-12004 May 17 j 05:36	0° ♄		evening set	-11999 Nov 23 j 12:43	20° ♄ 29'56	
evening set	-12004 Jun 13 j 06:02	5° ♄ 49'21					
				conjunction	-11999 Dec 07 j 02:06	23° ♄ 39'49	-0°53'55
conjunction	-12004 Jun 25 j 19:45	8° ♄ 37'55	1°16'17	minimum elong	-11999 Dec 07 j 02:00	23° ♄ 39'46	0°53'48
minimum elong	-12004 Jun 25 j 19:39	8° ♄ 37'52	1°16'22	max. Earth dist.	-11999 Dec 08 j 07:43	23° ♄ 57'08	6.06837 AU
max. Earth dist.	-12004 Jun 24 j 17:20	8° ♄ 23'08	6.33815 AU	morning rise	-11999 Dec 20 j 18:16	26° ♄ 51'12	
morning rise	-12004 Jul 08 j 07:15	11° ♄ 25'24			-11998 Jan 03 j 11:28	0° ♄	
retrograde	-12004 Nov 07 j 09:07	28° ♄ 53'52		retrograde	-11998 Apr 30 j 16:18	16° ♄ 43'00	
opposition	-12003 Jan 07 j 14:02	24° ♄ 01'42	2°16'04	opposition	-11998 Jun 29 j 06:02	11° ♄ 38'05	-1°57'27
min. Earth dist.	-12003 Jan 08 j 07:06	23° ♄ 56'18	4.32767 AU	min. Earth dist.	-11998 Jun 28 j 12:11	11° ♄ 44'11	4.07277 AU
direct	-12003 Mar 10 j 20:53	19° ♄ 04'25		direct	-11998 Aug 26 j 12:00	6° ♄ 39'25	
	-12003 Jun 11 j 14:38	0° ♄		evening set	-11998 Dec 30 j 14:08	25° ♄ 50'31	
evening set	-12003 Jul 14 j 06:34	7° ♄ 02'31					
				conjunction	-11997 Jan 13 j 07:00	29° ♄ 00'51	-1°35'31
conjunction	-12003 Jul 26 j 14:56	9° ♄ 49'48	1°43'10	minimum elong	-11997 Jan 13 j 06:55	29° ♄ 00'48	1°35'49
minimum elong	-12003 Jul 26 j 14:53	9° ♄ 49'47	1°43'35	max. Earth dist.	-11997 Jan 14 j 08:33	29° ♄ 15'40	6.08668 AU
max. Earth dist.	-12003 Jul 25 j 19:29	9° ♄ 38'48	6.30493 AU		-11997 Jan 17 j 13:04	0° ♄	
morning rise	-12003 Aug 07 j 22:35	12° ♄ 36'53		morning rise	-11997 Jan 27 j 01:04	2° ♄ 11'41	
	-12003 Aug 18 j 15:19	15° ♄			-11997 Mar 29 j 03:45	15° ♄	
	-12003 Nov 20 j 22:04	0° ♄		retrograde	-11997 Jun 04 j 15:31	21° ♄ 38'37	
retrograde	-12003 Dec 10 j 13:50	0° ♄ 35'19		opposition	-11997 Aug 02 j 16:18	16° ♄ 35'14	-2°34'18
	-12003 Dec 30 j 06:02	30° ♄		min. Earth dist.	-11997 Aug 02 j 03:23	16° ♄ 39'40	4.11303 AU
opposition	-12002 Feb 10 j 04:40	25° ♄ 41'14	2°35'03		-11997 Aug 14 j 11:26	15° ♄	

Attention, astronomical year style is used: The year -11997 in astronomical counting style is the year 11998 BCE in historical counting style.

direct	-11997 Sep 30 j 12:27	11° \mathbb{M} 33'18		conjunction	-11991 Jul 30 j 22:41	14° \mathbb{B} 19'52	1°44'31
	-11997 Nov 16 j 17:30	15° \mathbb{M}		minimum elong	-11991 Jul 30 j 22:39	14° \mathbb{B} 19'50	1°44'58
	-11996 Feb 02 j 07:07	0° \mathbb{A}		max. Earth dist.	-11991 Jul 30 j 03:42	14° \mathbb{B} 09'05	6.29214 AU
evening set	-11996 Feb 05 j 14:45	0° \mathbb{A} 45'09			-11991 Aug 02 j 21:24	15° \mathbb{B}	
				morning rise	-11991 Aug 12 j 06:35	17° \mathbb{B} 07'31	
conjunction	-11996 Feb 19 j 07:08	3° \mathbb{A} 52'39	-1°42'19		-11991 Oct 15 j 12:00	0° \mathbb{I}	
minimum elong	-11996 Feb 19 j 07:10	3° \mathbb{A} 52'40	1°42'56	retrograde	-11991 Dec 15 j 08:05	5° \mathbb{I} 12'59	
max. Earth dist.	-11996 Feb 19 j 18:56	3° \mathbb{A} 59'24	6.14438 AU	opposition	-11990 Feb 14 j 23:37	0° \mathbb{I} 18'28	2°33'53
morning rise	-11996 Mar 03 j 22:39	6° \mathbb{A} 59'34		min. Earth dist.	-11990 Feb 15 j 08:08	0° \mathbb{I} 15'46	4.26252 AU
retrograde	-11996 Jul 07 j 09:59	25° \mathbb{A} 43'07			-11990 Feb 17 j 09:49	30° \mathbb{R} \mathbb{B}	
opposition	-11996 Sep 04 j 06:33	20° \mathbb{A} 43'03	-2°16'33	direct	-11990 Apr 17 j 06:52	25° \mathbb{B} 24'16	
min. Earth dist.	-11996 Sep 04 j 04:25	20° \mathbb{A} 43'46	4.18243 AU		-11990 Jun 12 j 13:42	0° \mathbb{I}	
direct	-11996 Nov 03 j 06:39	15° \mathbb{A} 39'05		evening set	-11990 Aug 19 j 00:14	13° \mathbb{I} 29'25	
	-11995 Feb 19 j 11:05	0° \mathbb{B}					
evening set	-11995 Mar 12 j 09:45	4° \mathbb{B} 36'27		conjunction	-11990 Aug 31 j 10:44	16° \mathbb{I} 20'41	1°36'28
				minimum elong	-11990 Aug 31 j 10:48	16° \mathbb{I} 20'44	1°37'08
conjunction	-11995 Mar 25 j 22:59	7° \mathbb{B} 39'35	-1°13'57	max. Earth dist.	-11990 Aug 31 j 05:55	16° \mathbb{I} 17'55	6.22558 AU
minimum elong	-11995 Mar 25 j 23:04	7° \mathbb{B} 39'39	1°14'39	morning rise	-11990 Sep 12 j 22:43	19° \mathbb{I} 12'54	
max. Earth dist.	-11995 Mar 25 j 19:04	7° \mathbb{B} 37'23	6.22023 AU		-11990 Nov 02 j 22:03	0° \mathbb{B}	
morning rise	-11995 Apr 08 j 09:27	10° \mathbb{B} 41'16		retrograde	-11989 Jan 19 j 00:49	7° \mathbb{B} 59'41	
retrograde	-11995 Aug 08 j 22:00	28° \mathbb{B} 39'57		opposition	-11989 Mar 21 j 14:08	3° \mathbb{B} 01'46	1°58'42
opposition	-11995 Oct 07 j 03:02	23° \mathbb{B} 43'41	-1°14'44	min. Earth dist.	-11989 Mar 21 j 12:44	3° \mathbb{B} 02'13	4.18825 AU
min. Earth dist.	-11995 Oct 07 j 10:22	23° \mathbb{B} 41'14	4.25713 AU		-11989 Apr 16 j 00:23	30° \mathbb{R} \mathbb{I}	
direct	-11995 Dec 07 j 07:23	18° \mathbb{B} 39'30		direct	-11989 May 20 j 17:36	28° \mathbb{I} 08'53	
	-11994 Mar 12 j 12:13	0° \approx			-11989 Jun 24 j 00:13	0° \mathbb{B}	
evening set	-11994 Apr 15 j 12:04	7° \approx 15'17		evening set	-11989 Sep 20 j 11:51	16° \mathbb{B} 26'41	
conjunction	-11994 Apr 28 j 18:40	10° \approx 13'06	-0°22'32	conjunction	-11989 Oct 03 j 06:57	19° \mathbb{B} 24'59	0°57'32
minimum elong	-11994 Apr 28 j 18:43	10° \approx 13'08	0°23'04	minimum elong	-11989 Oct 03 j 07:03	19° \mathbb{B} 25'02	0°58'12
max. Earth dist.	-11994 Apr 27 j 23:27	10° \approx 02'21	6.28891 AU	max. Earth dist.	-11989 Oct 03 j 16:27	19° \mathbb{B} 30'30	6.15076 AU
morning rise	-11994 May 11 j 21:59	13° \approx 09'10		morning rise	-11989 Oct 16 j 05:25	22° \mathbb{B} 25'06	
	-11994 May 20 j 06:40	15° \approx			-11989 Nov 19 j 09:16	0° \mathbb{Q}	
	-11994 Aug 21 j 04:49	0° \mathbb{H}		retrograde	-11988 Feb 23 j 15:23	11° \mathbb{Q} 50'56	
retrograde	-11994 Sep 09 j 19:33	0° \mathbb{H} 37'05		opposition	-11988 Apr 24 j 18:21	6° \mathbb{Q} 49'18	0°42'44
	-11994 Sep 29 j 08:50	30° \mathbb{R} \approx		min. Earth dist.	-11988 Apr 24 j 05:35	6° \mathbb{Q} 53'30	4.11801 AU
asc. node	-11994 Oct 01 j 08:24	29° \approx 52'16		direct	-11988 Jun 22 j 17:26	1° \mathbb{Q} 55'52	
opposition	-11994 Nov 08 j 14:29	25° \approx 43'52	0°08'15		-11988 Sep 29 j 06:14	15° \mathbb{Q}	
min. Earth dist.	-11994 Nov 09 j 06:51	25° \approx 38'33	4.31371 AU	evening set	-11988 Oct 23 j 16:18	20° \mathbb{Q} 32'42	
direct	-11993 Jan 09 j 18:32	20° \approx 41'11		desc. node	-11988 Oct 25 j 08:26	20° \mathbb{Q} 56'03	
	-11993 Apr 05 j 03:53	0° \mathbb{H}					
evening set	-11993 May 18 j 00:56	8° \mathbb{H} 57'15		conjunction	-11988 Nov 05 j 22:25	23° \mathbb{Q} 38'27	-0°01'51
				minimum elong	-11988 Nov 05 j 22:26	23° \mathbb{Q} 38'28	0°01'26
conjunction	-11993 May 30 j 22:38	11° \mathbb{H} 49'42	0°34'47	behind sun begin	-11988 Nov 05 j 14:11	23° \mathbb{Q} 33'39	
minimum elong	-11993 May 30 j 22:34	11° \mathbb{H} 49'40	0°34'32	behind sun end	-11988 Nov 06 j 06:42	23° \mathbb{Q} 43'16	
max. Earth dist.	-11993 May 29 j 20:45	11° \mathbb{H} 35'15	6.32933 AU	max. Earth dist.	-11988 Nov 06 j 22:25	23° \mathbb{Q} 52'29	6.09223 AU
morning rise	-11993 Jun 12 j 16:59	14° \mathbb{H} 40'30		morning rise	-11988 Nov 19 j 08:06	26° \mathbb{Q} 46'10	
	-11993 Sep 05 j 11:32	0° \mathbb{Y}			-11988 Dec 03 j 10:04	0° \mathbb{P}	
retrograde	-11993 Oct 11 j 13:19	1° \mathbb{Y} 59'55		retrograde	-11987 Mar 30 j 19:15	16° \mathbb{P} 36'04	
	-11993 Nov 17 j 02:04	30° \mathbb{R} \mathbb{H}		min. Earth dist.	-11987 May 29 j 08:35	11° \mathbb{P} 37'48	4.07634 AU
opposition	-11993 Dec 11 j 03:40	27° \mathbb{H} 08'05	1°27'28	opposition	-11987 May 30 j 02:23	11° \mathbb{P} 31'48	-0°50'12
min. Earth dist.	-11993 Dec 11 j 22:16	27° \mathbb{H} 02'09	4.33579 AU	direct	-11987 Jul 27 j 09:49	6° \mathbb{P} 36'02	
direct	-11992 Feb 11 j 15:01	22° \mathbb{H} 08'09		evening set	-11987 Nov 28 j 16:14	25° \mathbb{P} 33'38	
	-11992 Apr 29 j 02:27	0° \mathbb{Y}					
evening set	-11992 Jun 17 j 12:33	10° \mathbb{Y} 11'45		conjunction	-11987 Dec 12 j 06:13	28° \mathbb{P} 43'40	-1°01'24
max. Earth dist.	-11992 Jun 28 j 23:34	12° \mathbb{Y} 45'43	6.33049 AU	minimum elong	-11987 Dec 12 j 06:07	28° \mathbb{P} 43'37	1°01'21
				max. Earth dist.	-11987 Dec 13 j 11:19	29° \mathbb{P} 00'40	6.07084 AU
conjunction	-11992 Jun 30 j 01:19	13° \mathbb{Y} 00'11	1°21'26		-11987 Dec 17 j 17:02	0° \mathbb{Q}	
minimum elong	-11992 Jun 30 j 01:14	13° \mathbb{Y} 00'08	1°21'34	morning rise	-11987 Dec 25 j 23:02	1° \mathbb{Q} 55'07	
morning rise	-11992 Jul 12 j 12:03	15° \mathbb{Y} 47'39		retrograde	-11986 May 05 j 14:04	21° \mathbb{Q} 43'56	
	-11992 Sep 25 j 04:13	0° \mathbb{B}		min. Earth dist.	-11986 Jul 03 j 08:06	16° \mathbb{Q} 45'21	4.07854 AU
retrograde	-11992 Nov 11 j 23:13	3° \mathbb{B} 21'10		opposition	-11986 Jul 04 j 02:19	16° \mathbb{Q} 39'07	-2°05'40
	-11992 Dec 30 j 23:31	30° \mathbb{R} \mathbb{Y}		direct	-11986 Aug 31 j 08:41	11° \mathbb{Q} 39'59	
opposition	-11991 Jan 12 j 04:40	28° \mathbb{Y} 28'54	2°21'15		-11985 Jan 01 j 00:59	0° \mathbb{M}	
min. Earth dist.	-11991 Jan 12 j 21:50	28° \mathbb{Y} 23'28	4.31709 AU	evening set	-11985 Jan 04 j 18:28	0° \mathbb{M} 51'18	
direct	-11991 Mar 15 j 09:58	23° \mathbb{Y} 32'04					
	-11991 May 23 j 04:06	0° \mathbb{B}		conjunction	-11985 Jan 18 j 11:23	4° \mathbb{M} 01'15	-1°38'43
evening set	-11991 Jul 18 j 14:33	11° \mathbb{B} 32'10		minimum elong	-11985 Jan 18 j 11:18	4° \mathbb{M} 01'13	1°39'05

Attention, astronomical year style is used: The year -11985 in astronomical counting style is the year 11986 BCE in historical counting style.

max. Earth dist.	-11985 Jan 19 j 10:50	4° \mathbb{M} 14'50	6.09499 AU	conjunction	-11980 Jul 04 j 09:08	17° \mathbb{Y} 28'47	1°26'18
morning rise	-11985 Feb 01 j 05:13	7° \mathbb{M} 11'33		minimum elong	-11980 Jul 04 j 09:03	17° \mathbb{Y} 28'44	1°26'28
	-11985 Mar 08 j 13:34	15° \mathbb{M}		morning rise	-11980 Jul 16 j 19:06	20° \mathbb{Y} 16'03	
retrograde	-11985 Jun 09 j 10:08	26° \mathbb{M} 32'37			-11980 Sep 01 j 11:20	0° \mathbb{B}	
opposition	-11985 Aug 07 j 09:25	21° \mathbb{M} 29'37	-2°35'02	retrograde	-11980 Nov 16 j 12:48	7° \mathbb{S} 53'18	
min. Earth dist.	-11985 Aug 06 j 22:47	21° \mathbb{M} 33'16	4.12309 AU	opposition	-11979 Jan 16 j 20:52	3° \mathbb{S} 00'48	2°25'44
direct	-11985 Oct 05 j 09:45	16° \mathbb{M} 27'19		min. Earth dist.	-11979 Jan 17 j 11:56	2° \mathbb{S} 56'01	4.31113 AU
	-11984 Jan 16 j 06:34	0° \mathbb{X}			-11979 Feb 11 j 12:51	30° \mathbb{R} \mathbb{Y}	
evening set	-11984 Feb 10 j 15:39	5° \mathbb{X} 37'25		direct	-11979 Mar 19 j 22:33	28° \mathbb{Y} 04'24	
					-11979 Apr 25 j 02:02	0° \mathbb{B}	
conjunction	-11984 Feb 24 j 07:51	8° \mathbb{X} 44'21	-1°40'19		-11979 Jul 18 j 04:16	15° \mathbb{B}	
minimum elong	-11984 Feb 24 j 07:54	8° \mathbb{X} 44'23	1°40'57	evening set	-11979 Jul 22 j 23:27	16° \mathbb{B} 04'43	
max. Earth dist.	-11984 Feb 24 j 18:16	8° \mathbb{X} 50'18	6.15540 AU				
morning rise	-11984 Mar 08 j 22:41	11° \mathbb{X} 50'31		conjunction	-11979 Aug 04 j 07:28	18° \mathbb{S} 52'37	1°45'20
	-11984 Jun 25 j 10:09	0° \mathbb{B}		minimum elong	-11979 Aug 04 j 07:27	18° \mathbb{S} 52'36	1°45'50
retrograde	-11984 Jul 11 j 22:22	0° \mathbb{B} 27'19		max. Earth dist.	-11979 Aug 03 j 15:08	18° \mathbb{S} 43'20	6.28490 AU
	-11984 Jul 28 j 09:07	30° \mathbb{R} \mathbb{X}		morning rise	-11979 Aug 16 j 15:25	21° \mathbb{S} 40'35	
opposition	-11984 Sep 08 j 20:22	25° \mathbb{X} 27'49	-2°10'11		-11979 Sep 24 j 09:28	0° \mathbb{I}	
min. Earth dist.	-11984 Sep 08 j 19:04	25° \mathbb{X} 28'15	4.19346 AU	retrograde	-11979 Dec 20 j 03:47	9° \mathbb{I} 51'01	
direct	-11984 Nov 07 j 23:40	20° \mathbb{X} 23'45		opposition	-11978 Feb 19 j 18:41	4° \mathbb{I} 56'05	2°31'48
	-11983 Feb 01 j 06:31	0° \mathbb{B}		min. Earth dist.	-11978 Feb 20 j 02:30	4° \mathbb{I} 53'36	4.25447 AU
evening set	-11983 Mar 17 j 05:27	9° \mathbb{B} 18'20		direct	-11978 Apr 21 j 23:25	0° \mathbb{I} 02'09	
				evening set	-11978 Aug 23 j 11:07	18° \mathbb{I} 07'52	
conjunction	-11983 Mar 30 j 17:48	12° \mathbb{B} 20'46	-1°07'51				
minimum elong	-11983 Mar 30 j 17:54	12° \mathbb{B} 20'49	1°08'32	conjunction	-11978 Sep 04 j 22:22	20° \mathbb{I} 59'49	1°32'45
max. Earth dist.	-11983 Mar 30 j 09:58	12° \mathbb{B} 16'21	6.23051 AU	minimum elong	-11978 Sep 04 j 22:27	20° \mathbb{I} 59'51	1°33'25
morning rise	-11983 Apr 13 j 03:35	15° \mathbb{B} 21'43		max. Earth dist.	-11978 Sep 04 j 19:04	20° \mathbb{I} 57'55	6.21745 AU
	-11983 Jun 28 j 13:55	0° \mathbb{B}		morning rise	-11978 Sep 17 j 11:36	23° \mathbb{I} 52'54	
retrograde	-11983 Aug 13 j 09:21	3° \mathbb{B} 15'14			-11978 Oct 15 j 00:56	0° \mathbb{B}	
	-11983 Sep 28 j 17:11	30° \mathbb{R} \mathbb{B}		retrograde	-11977 Jan 23 j 20:44	12° \mathbb{B} 44'25	
opposition	-11983 Oct 11 j 15:10	28° \mathbb{B} 19'28	-1°03'57	opposition	-11977 Mar 26 j 10:38	7° \mathbb{B} 45'54	1°50'10
min. Earth dist.	-11983 Oct 12 j 00:57	28° \mathbb{B} 16'13	4.26572 AU	min. Earth dist.	-11977 Mar 26 j 06:30	7° \mathbb{B} 47'14	4.18056 AU
direct	-11983 Dec 12 j 00:31	23° \mathbb{B} 15'22		direct	-11977 May 25 j 09:18	2° \mathbb{B} 53'03	
	-11982 Feb 20 j 16:24	0° \mathbb{B}		evening set	-11977 Sep 25 j 02:43	21° \mathbb{B} 12'00	
evening set	-11982 Apr 20 j 02:12	11° \mathbb{B} 48'33					
conjunction	-11982 May 03 j 07:55	14° \mathbb{B} 45'43	-0°14'33	conjunction	-11977 Oct 07 j 23:21	24° \mathbb{B} 11'14	0°50'09
minimum elong	-11982 May 03 j 07:56	14° \mathbb{B} 45'44	0°15'04	minimum elong	-11977 Oct 07 j 23:26	24° \mathbb{B} 11'17	0°50'48
behind sun begin	-11982 May 03 j 05:08	14° \mathbb{B} 44'10		max. Earth dist.	-11977 Oct 08 j 12:04	24° \mathbb{B} 18'38	6.14429 AU
behind sun end	-11982 May 03 j 10:44	14° \mathbb{B} 47'18		morning rise	-11977 Oct 20 j 23:12	27° \mathbb{B} 12'17	
max. Earth dist.	-11982 May 02 j 12:15	14° \mathbb{B} 34'44	6.29530 AU		-11977 Nov 02 j 04:35	0° \mathbb{Q}	
	-11982 May 04 j 09:27	15° \mathbb{B}		retrograde	-11976 Jan 26 j 06:06	15° \mathbb{Q}	
morning rise	-11982 May 16 j 09:57	17° \mathbb{B} 41'03			-11976 Feb 28 j 14:50	16° \mathbb{Q} 41'18	
	-11982 Jul 17 j 07:22	0° \mathbb{X}			-11976 Apr 01 j 18:47	15° \mathbb{R} \mathbb{Q}	
asc. node	-11982 Aug 11 j 15:51	3° \mathbb{X} 20'56		opposition	-11976 Apr 29 j 15:00	11° \mathbb{Q} 39'12	0°30'13
retrograde	-11982 Sep 14 j 04:11	5° \mathbb{X} 06'52		min. Earth dist.	-11976 Apr 29 j 02:12	11° \mathbb{Q} 43'26	4.11303 AU
opposition	-11982 Nov 13 j 02:31	0° \mathbb{X} 13'57	0°20'01	direct	-11976 Jun 27 j 12:37	6° \mathbb{Q} 45'29	
min. Earth dist.	-11982 Nov 13 j 18:44	0° \mathbb{X} 08'41	4.31757 AU	desc. node	-11976 Sep 05 j 02:08	13° \mathbb{Q} 56'47	
	-11982 Nov 14 j 21:34	30° \mathbb{R} \mathbb{B}		evening set	-11976 Sep 10 j 16:05	15° \mathbb{Q}	
direct	-11981 Jan 14 j 07:24	25° \mathbb{B} 11'37			-11976 Oct 28 j 12:20	25° \mathbb{Q} 24'09	
	-11981 Mar 14 j 10:22	0° \mathbb{X}		conjunction	-11976 Nov 10 j 19:40	28° \mathbb{Q} 30'35	-0°10'32
evening set	-11981 May 22 j 11:25	13° \mathbb{X} 26'04		minimum elong	-11976 Nov 10 j 19:39	28° \mathbb{Q} 30'34	0°10'09
max. Earth dist.	-11981 Jun 03 j 04:33	16° \mathbb{X} 02'43	6.33037 AU	behind sun begin	-11976 Nov 10 j 13:04	28° \mathbb{Q} 26'44	
				behind sun end	-11976 Nov 11 j 02:14	28° \mathbb{Q} 34'24	
conjunction	-11981 Jun 04 j 07:40	16° \mathbb{X} 17'53	0°42'15	max. Earth dist.	-11976 Nov 11 j 19:59	28° \mathbb{Q} 44'48	6.08916 AU
minimum elong	-11981 Jun 04 j 07:36	16° \mathbb{X} 17'50	0°42'03		-11976 Nov 17 j 04:42	0° \mathbb{R}	
morning rise	-11981 Jun 17 j 00:58	19° \mathbb{X} 08'10		morning rise	-11976 Nov 24 j 06:43	1° \mathbb{R} 38'59	
	-11981 Aug 09 j 09:36	0° \mathbb{Y}		retrograde	-11975 Apr 04 j 16:27	21° \mathbb{R} 29'25	
retrograde	-11981 Oct 16 j 02:08	6° \mathbb{Y} 28'47		opposition	-11975 Jun 03 j 21:42	16° \mathbb{R} 24'57	-1°02'18
opposition	-11981 Dec 15 j 17:31	1° \mathbb{Y} 37'02	1°36'54	min. Earth dist.	-11975 Jun 03 j 02:58	16° \mathbb{R} 31'16	4.07557 AU
min. Earth dist.	-11981 Dec 16 j 13:02	1° \mathbb{Y} 30'49	4.33417 AU	direct	-11975 Aug 01 j 03:20	11° \mathbb{R} 28'44	
	-11981 Dec 28 j 15:31	30° \mathbb{R} \mathbb{X}			-11975 Dec 01 j 15:31	0° \mathbb{Q}	
direct	-11980 Feb 16 j 05:48	26° \mathbb{X} 37'31		evening set	-11975 Dec 03 j 16:27	0° \mathbb{Q} 28'19	
	-11980 Apr 05 j 01:32	0° \mathbb{Y}					
evening set	-11980 Jun 21 j 21:14	14° \mathbb{Y} 40'37		conjunction	-11975 Dec 17 j 07:06	3° \mathbb{Q} 38'32	-1°08'13
max. Earth dist.	-11980 Jul 03 j 08:22	17° \mathbb{Y} 14'51	6.32632 AU	minimum elong	-11975 Dec 17 j 06:59	3° \mathbb{Q} 38'28	1°08'14
				max. Earth dist.	-11975 Dec 18 j 11:17	3° \mathbb{Q} 54'59	6.07220 AU

Attention, astronomical year style is used: The year -11974 in astronomical counting style is the year 11975 BCE in historical counting style.

morning rise	-11975 Dec 31 j 00:19	6°♂50'02		max. Earth dist.	-11969 Jun 07 j 15:40	20°♂33'14	6.33220 AU
retrograde	-11974 May 10 j 09:54	26°♂36'36		morning rise	-11969 Jun 21 j 09:18	23°♂37'17	
opposition	-11974 Jul 08 j 19:44	21°♂31'53	-2°12'47		-11969 Jul 21 j 01:58	0°♀	
min. Earth dist.	-11974 Jul 08 j 03:10	21°♂37'34	4.08190 AU	retrograde	-11969 Oct 20 j 13:06	10°♀58'48	
direct	-11974 Sep 05 j 04:23	16°♂32'16		opposition	-11969 Dec 20 j 07:58	6°♀07'03	1°45'50
	-11974 Dec 15 j 05:30	0°♂		min. Earth dist.	-11969 Dec 21 j 02:04	6°♀01'17	4.33422 AU
evening set	-11973 Jan 09 j 20:00	5°♂44'42		direct	-11968 Feb 20 j 18:33	1°♀08'00	
				evening set	-11968 Jun 26 j 05:48	19°♀09'46	
conjunction	-11973 Jan 23 j 13:08	8°♂54'28	-1°41'08				
minimum elong	-11973 Jan 23 j 13:05	8°♂54'26	1°41'33	conjunction	-11968 Jul 08 j 16:39	21°♀57'33	1°30'41
max. Earth dist.	-11973 Jan 24 j 11:41	9°♂07'30	6.10001 AU	minimum elong	-11968 Jul 08 j 16:34	21°♀57'30	1°30'54
morning rise	-11973 Feb 06 j 06:41	12°♂04'25		max. Earth dist.	-11968 Jul 07 j 16:14	21°♀43'48	6.32423 AU
	-11973 Feb 19 j 04:05	15°♂		morning rise	-11968 Jul 21 j 02:01	24°♀44'37	
	-11973 May 16 j 08:07	0°♂			-11968 Aug 14 j 04:11	0°♂	
retrograde	-11973 Jun 14 j 02:04	1°♂20'49		retrograde	-11968 Nov 21 j 04:50	12°♂25'02	
	-11973 Jul 12 j 13:09	30°♂		opposition	-11967 Jan 21 j 13:19	7°♂32'17	2°29'20
opposition	-11973 Aug 12 j 00:26	26°♂18'18	-2°34'43	min. Earth dist.	-11967 Jan 22 j 04:22	7°♂27'31	4.30689 AU
min. Earth dist.	-11973 Aug 11 j 14:37	26°♂21'39	4.12944 AU	direct	-11967 Mar 24 j 13:44	2°♂36'14	
direct	-11973 Oct 10 j 02:42	21°♂15'43			-11967 Jul 01 j 19:22	15°♂	
	-11973 Dec 28 j 14:06	0°♂		evening set	-11967 Jul 27 j 07:32	20°♂36'08	
evening set	-11972 Feb 15 j 15:11	10°♂25'26					
conjunction	-11972 Feb 29 j 06:57	13°♂31'58	-1°37'38	conjunction	-11967 Aug 08 j 15:34	23°♂24'14	1°45'32
minimum elong	-11972 Feb 29 j 07:01	13°♂32'00	1°38'17	minimum elong	-11967 Aug 08 j 15:34	23°♂24'14	1°46'04
max. Earth dist.	-11972 Feb 29 j 13:20	13°♂35'36	6.16254 AU	max. Earth dist.	-11967 Aug 08 j 00:51	23°♂15'51	6.27863 AU
morning rise	-11972 Mar 13 j 21:28	16°♂37'39		morning rise	-11967 Aug 20 j 23:46	26°♂12'34	
	-11972 May 19 j 00:29	0°♂			-11967 Sep 07 j 00:08	0°♂	
retrograde	-11972 Jul 16 j 11:56	5°♂09'19		retrograde	-11967 Dec 24 j 20:07	14°♂27'43	
opposition	-11972 Sep 13 j 09:57	0°♂10'21	-2°03'01	opposition	-11966 Feb 24 j 12:48	9°♂32'20	2°28'49
min. Earth dist.	-11972 Sep 13 j 10:40	0°♂10'06	4.20067 AU	min. Earth dist.	-11966 Feb 24 j 18:20	9°♂30'34	4.24659 AU
	-11972 Sep 14 j 16:35	30°♂		direct	-11966 Apr 26 j 12:38	4°♂38'39	
direct	-11972 Nov 12 j 17:49	25°♂06'10		evening set	-11966 Aug 27 j 21:32	22°♂45'12	
	-11971 Jan 10 j 04:13	0°♂					
evening set	-11971 Mar 22 j 00:23	13°♂59'09		conjunction	-11966 Sep 09 j 09:46	25°♂37'56	1°28'29
conjunction	-11971 Apr 04 j 12:16	17°♂01'06	-1°01'17	minimum elong	-11966 Sep 09 j 09:50	25°♂37'58	1°29'10
minimum elong	-11971 Apr 04 j 12:21	17°♂01'09	1°01'57	max. Earth dist.	-11966 Sep 09 j 08:43	25°♂37'20	6.20862 AU
max. Earth dist.	-11971 Apr 04 j 04:00	16°♂56'26	6.23758 AU	morning rise	-11966 Sep 22 j 00:05	28°♂31'54	
morning rise	-11971 Apr 17 j 21:02	20°♂01'26			-11966 Sep 28 j 10:43	0°♂	
	-11971 Jun 04 j 13:46	0°♂		retrograde	-11965 Jan 28 j 18:37	17°♂28'37	
retrograde	-11971 Aug 17 j 20:16	7°♂51'03		opposition	-11965 Mar 31 j 06:33	12°♂29'35	1°40'59
opposition	-11971 Oct 16 j 04:05	2°♂55'47	-0°52'43	min. Earth dist.	-11965 Mar 31 j 02:06	12°♂31'02	4.17116 AU
min. Earth dist.	-11971 Oct 16 j 14:06	2°♂52'29	4.27199 AU	direct	-11965 May 30 j 02:46	7°♂36'41	
	-11971 Nov 08 j 21:34	30°♂		evening set	-11965 Sep 29 j 17:46	25°♂57'47	
direct	-11971 Dec 16 j 15:47	27°♂51'56					
	-11970 Jan 23 j 18:32	0°♂		conjunction	-11965 Oct 12 j 15:52	28°♂58'05	0°42'28
	-11970 Apr 18 j 10:23	15°♂		minimum elong	-11965 Oct 12 j 15:56	28°♂58'07	0°43'05
evening set	-11970 Apr 24 j 16:50	16°♂23'02		max. Earth dist.	-11965 Oct 13 j 05:45	29°♂06'10	6.13529 AU
conjunction	-11970 May 07 j 21:12	19°♂19'30	-0°06'26		-11965 Oct 17 j 02:12	0°♂	
minimum elong	-11970 May 07 j 21:13	19°♂19'31	0°06'55	morning rise	-11965 Oct 25 j 17:26	2°♂00'17	
behind sun begin	-11970 May 07 j 13:42	19°♂15'20			-11965 Dec 26 j 22:55	15°♂	
behind sun end	-11970 May 08 j 04:45	19°♂23'42		retrograde	-11964 Mar 04 j 13:21	21°♂33'25	
max. Earth dist.	-11970 May 06 j 23:15	19°♂07'14	6.30040 AU	opposition	-11964 May 04 j 11:46	16°♂30'54	0°17'28
morning rise	-11970 May 20 j 22:16	22°♂14'12		min. Earth dist.	-11964 May 03 j 21:24	16°♂35'40	4.10520 AU
asc. node	-11970 Jun 20 j 23:10	28°♂53'35			-11964 May 16 j 02:53	15°♂	
	-11970 Jun 26 j 11:57	0°♂		direct	-11964 Jul 02 j 05:34	11°♂36'56	
retrograde	-11970 Sep 18 j 16:15	9°♂38'27		desc. node	-11964 Jul 17 j 04:32	11°♂59'29	
opposition	-11970 Nov 17 j 15:55	4°♂45'48	0°31'46		-11964 Aug 17 j 09:29	15°♂	
min. Earth dist.	-11970 Nov 18 j 09:11	4°♂40'13	4.32119 AU		-11964 Nov 01 j 01:18	0°♂	
	-11969 Jan 05 j 15:14	30°♂		evening set	-11964 Nov 02 j 09:40	0°♂18'47	
direct	-11969 Jan 18 j 23:15	29°♂43'48					
	-11969 Feb 01 j 07:40	0°♂		conjunction	-11964 Nov 15 j 18:16	3°♂26'01	-0°19'11
evening set	-11969 May 26 j 22:14	17°♂56'24		minimum elong	-11964 Nov 15 j 18:14	3°♂26'00	0°18'50
conjunction	-11969 Jun 08 j 17:21	20°♂47'36	0°49'31	max. Earth dist.	-11964 Nov 16 j 19:14	3°♂40'37	6.08311 AU
minimum elong	-11969 Jun 08 j 17:16	20°♂47'33	0°49'23	morning rise	-11964 Nov 29 j 06:28	6°♂35'10	
				retrograde	-11963 Apr 09 j 16:30	26°♂27'21	
				opposition	-11963 Jun 08 j 18:19	21°♂22'39	-1°14'07
				min. Earth dist.	-11963 Jun 08 j 00:11	21°♂28'48	4.07183 AU
				direct	-11963 Aug 05 j 23:52	16°♂25'55	

Attention, astronomical year style is used: The year -11963 in astronomical counting style is the year 11964 BCE in historical counting style.

	-11963 Nov 14 j 15:22	0°♏	evening set	-11957 May 31 j 08:39	22°♎25'49	
evening set	-11963 Dec 08 j 19:08	5°♏28'43	max. Earth dist.	-11957 Jun 11 j 23:26	25°♎01'10	6.33783 AU
conjunction	-11963 Dec 22 j 10:32	8°♏39'15 -1°14'40	conjunction	-11957 Jun 13 j 02:14	25°♎16'09	0°56'27
minimum elong	-11963 Dec 22 j 10:25	8°♏39'11 1°14'44	minimum elong	-11957 Jun 13 j 02:09	25°♎16'07	0°56'21
max. Earth dist.	-11963 Dec 23 j 15:13	8°♏55'59 6.07099 AU	morning rise	-11957 Jun 25 j 17:08	28°♎05'07	
morning rise	-11962 Jan 05 j 04:04	11°♏50'53		-11957 Jul 04 j 09:21	0°♎	
	-11962 Apr 13 j 18:13	0°♏	retrograde	-11957 Oct 25 j 01:11	15°♎26'30	
retrograde	-11962 May 15 j 07:46	1°♏35'40	opposition	-11957 Dec 24 j 22:01	10°♎34'40	1°54'00
	-11962 Jun 15 j 12:09	30°♏	min. Earth dist.	-11957 Dec 25 j 16:31	10°♎28'48	4.33748 AU
opposition	-11962 Jul 13 j 15:03	26°♏31'08 -2°19'07	direct	-11956 Feb 25 j 09:09	5°♎36'00	
min. Earth dist.	-11962 Jul 12 j 22:58	26°♏36'38 4.08355 AU	evening set	-11956 Jun 30 j 12:55	23°♎35'18	
direct	-11962 Sep 09 j 23:56	21°♏31'02				
	-11962 Nov 25 j 23:45	0°♏	conjunction	-11956 Jul 12 j 23:04	26°♎22'42	1°34'27
evening set	-11961 Jan 15 j 00:33	10°♏45'10	minimum elong	-11956 Jul 12 j 22:59	26°♎22'39	1°34'44
conjunction	-11961 Jan 28 j 17:36	13°♏54'44 -1°42'53	max. Earth dist.	-11956 Jul 12 j 00:35	26°♎10'02	6.32469 AU
minimum elong	-11961 Jan 28 j 17:33	13°♏54'43 1°43'21	morning rise	-11956 Jul 25 j 07:40	29°♎09'26	
max. Earth dist.	-11961 Jan 29 j 12:55	14°♏05'54 6.10405 AU		-11956 Jul 29 j 02:16	0°♎	
	-11961 Feb 02 j 10:43	15°♏		-11956 Oct 21 j 07:58	15°♎	
morning rise	-11961 Feb 11 j 11:06	17°♏04'23	retrograde	-11956 Nov 25 j 16:22	16°♎52'12	
	-11961 Apr 14 j 15:47	0°♎		-11956 Dec 31 j 09:26	15°♎	
retrograde	-11961 Jun 18 j 20:26	6°♎16'15	opposition	-11955 Jan 26 j 03:51	11°♎59'11	2°31'58
opposition	-11961 Aug 16 j 18:12	1°♎14'07 -2°33'21	min. Earth dist.	-11955 Jan 26 j 17:37	11°♎54'50	4.30457 AU
min. Earth dist.	-11961 Aug 16 j 09:46	1°♎17'00 4.13550 AU	direct	-11955 Mar 29 j 01:27	7°♎03'32	
	-11961 Aug 25 j 21:18	30°♎		-11955 Jun 13 j 18:56	15°♎	
direct	-11961 Oct 15 j 00:32	26°♏11'10	evening set	-11955 Jul 31 j 14:04	25°♎02'32	
	-11961 Dec 04 j 05:05	0°♎				
evening set	-11960 Feb 20 j 17:03	15°♎20'15	conjunction	-11955 Aug 12 j 22:05	27°♎50'51	1°45'05
conjunction	-11960 Mar 05 j 08:39	18°♎26'22 -1°34'14	minimum elong	-11955 Aug 12 j 22:05	27°♎50'51	1°45'39
minimum elong	-11960 Mar 05 j 08:43	18°♎26'25 1°34'55	max. Earth dist.	-11955 Aug 12 j 07:51	27°♎42'44	6.27355 AU
max. Earth dist.	-11960 Mar 05 j 14:29	18°♎29'42 6.17039 AU		-11955 Aug 22 j 08:56	0°♏	
morning rise	-11960 Mar 18 j 22:24	21°♎31'28	morning rise	-11955 Aug 25 j 06:42	0°♏39'33	
	-11960 Apr 27 j 05:30	0°♏	retrograde	-11955 Dec 29 j 13:00	18°♏59'10	
retrograde	-11960 Jul 21 j 03:51	9°♏57'28	opposition	-11954 Mar 01 j 05:03	14°♏03'20	2°24'57
opposition	-11960 Sep 18 j 02:01	4°♏59'04 -1°54'54	min. Earth dist.	-11954 Mar 01 j 10:30	14°♏01'36	4.23884 AU
min. Earth dist.	-11960 Sep 18 j 03:38	4°♏58'31 4.20958 AU	direct	-11954 May 01 j 02:34	9°♏09'49	
	-11960 Nov 10 j 06:26	30°♎	evening set	-11954 Sep 01 j 06:09	27°♏17'24	
direct	-11960 Nov 17 j 13:36	29°♎54'53	conjunction	-11954 Sep 13 j 19:32	0°♏11'02	1°23'45
	-11960 Nov 24 j 21:10	0°♏	minimum elong	-11954 Sep 13 j 19:37	0°♏11'05	1°24'27
evening set	-11959 Mar 26 j 21:31	18°♏45'17		-11954 Sep 13 j 00:25	0°♏	
conjunction	-11959 Apr 09 j 08:27	21°♏46'31 -0°54'15	max. Earth dist.	-11954 Sep 13 j 19:58	0°♏11'17	6.19904 AU
minimum elong	-11959 Apr 09 j 08:32	21°♏46'34 0°54'53	morning rise	-11954 Sep 26 j 11:11	3°♏06'01	
max. Earth dist.	-11959 Apr 08 j 21:37	21°♏40'25 6.24711 AU	retrograde	-11953 Feb 02 j 13:19	22°♏08'14	
morning rise	-11959 Apr 22 j 16:25	24°♏46'06	opposition	-11953 Apr 05 j 00:35	17°♏08'47	1°31'19
	-11959 May 16 j 15:45	0°♏	min. Earth dist.	-11953 Apr 04 j 18:44	17°♏10'41	4.16040 AU
retrograde	-11959 Aug 22 j 09:10	12°♏30'52	direct	-11953 Jun 03 j 16:07	12°♏15'53	
opposition	-11959 Oct 20 j 18:48	7°♏36'00 -0°41'02	evening set	-11953 Oct 04 j 08:06	0°♏40'06	
min. Earth dist.	-11959 Oct 21 j 05:47	7°♏32'23 4.28143 AU				
direct	-11959 Dec 21 j 10:10	2°♏32'16	conjunction	-11953 Oct 17 j 07:42	3°♏41'32	0°34'37
	-11958 Apr 01 j 10:37	15°♏	minimum elong	-11953 Oct 17 j 07:45	3°♏41'34	0°35'12
evening set	-11958 Apr 29 j 08:11	20°♏59'55	max. Earth dist.	-11953 Oct 17 j 22:25	3°♏50'07	6.12446 AU
asc. node	-11958 Apr 29 j 22:10	21°♏07'40	morning rise	-11953 Oct 30 j 10:53	6°♏44'57	
conjunction	-11958 May 12 j 11:24	23°♏55'31 0°01'52		-11953 Dec 06 j 16:56	15°♏	
minimum elong	-11958 May 12 j 11:24	23°♏55'31 0°01'26	retrograde	-11952 Mar 09 j 12:33	26°♏23'07	
behind sun begin	-11958 May 12 j 03:18	23°♏51'00	opposition	-11952 May 09 j 07:24	21°♏20'15	0°04'44
behind sun end	-11958 May 12 j 19:30	24°♏00'01	min. Earth dist.	-11952 May 08 j 16:52	21°♏25'05	4.09510 AU
max. Earth dist.	-11958 May 11 j 14:18	23°♏43'43 6.30931 AU	desc. node	-11952 May 29 j 05:15	18°♏49'13	
morning rise	-11958 May 25 j 11:01	26°♏49'17	direct	-11952 Jul 06 j 22:57	16°♏25'58	
	-11958 Jun 08 j 23:00	0°♎	evening set	-11952 Oct 15 j 11:02	0°♎	
retrograde	-11958 Sep 23 j 02:54	14°♎10'43		-11952 Nov 07 j 07:12	5°♎12'20	
opposition	-11958 Nov 22 j 05:53	9°♎18'17 0°43'16	conjunction	-11952 Nov 20 j 17:13	8°♎20'32	-0°27'37
min. Earth dist.	-11958 Nov 22 j 22:53	9°♎12'49 4.32886 AU	minimum elong	-11952 Nov 20 j 17:10	8°♎20'30	0°27'21
direct	-11957 Jan 23 j 14:31	4°♎16'41	max. Earth dist.	-11952 Nov 21 j 19:50	8°♎36'07	6.07493 AU
			morning rise	-11952 Dec 04 j 06:34	11°♎30'33	

Attention, astronomical year style is used: The year -11951 in astronomical counting style is the year 11952 BCE in historical counting style.

	-11951 Mar 15 j 16:27	0°♎		retrograde	-11946 Sep 27 j 13:00	18°♋40'16	
retrograde	-11951 Apr 14 j 16:35	1°♎25'06		opposition	-11946 Nov 26 j 18:43	13°♋47'58	0°54'27
	-11951 May 14 j 08:08	30°♋♏		min. Earth dist.	-11946 Nov 27 j 12:21	13°♋42'18	4.33351 AU
opposition	-11951 Jun 13 j 14:46	26°♏20'22	-1°25'21	direct	-11945 Jan 28 j 04:28	8°♋46'41	
min. Earth dist.	-11951 Jun 12 j 20:28	26°♏26'34	4.06664 AU	evening set	-11945 Jun 04 j 17:50	26°♋53'37	
direct	-11951 Aug 10 j 18:25	21°♏23'17		max. Earth dist.	-11945 Jun 16 j 08:29	29°♋28'56	6.33916 AU
	-11951 Oct 26 j 16:46	0°♎					
evening set	-11951 Dec 13 j 22:41	10°♎30'04		conjunction	-11945 Jun 17 j 10:16	29°♋43'22	1°03'02
				minimum elong	-11945 Jun 17 j 10:11	29°♋43'19	1°02'59
conjunction	-11951 Dec 27 j 14:32	13°♎40'53	-1°20'31		-11945 Jun 18 j 16:01	0°♏	
minimum elong	-11951 Dec 27 j 14:25	13°♎40'49	1°20'39	morning rise	-11945 Jun 29 j 23:55	2°♏31'46	
max. Earth dist.	-11951 Dec 28 j 17:37	13°♎56'41	6.06909 AU	retrograde	-11945 Oct 29 j 12:31	19°♏54'43	
morning rise	-11950 Jan 10 j 08:36	16°♎52'45		opposition	-11945 Dec 29 j 12:01	15°♏02'51	2°01'36
	-11950 Mar 13 j 19:56	0°♏		min. Earth dist.	-11945 Dec 30 j 06:17	14°♏57'03	4.33550 AU
retrograde	-11950 May 20 j 05:06	6°♏35'55		direct	-11944 Feb 29 j 22:23	10°♏04'37	
opposition	-11950 Jul 18 j 10:50	1°♏31'34	-2°24'23	evening set	-11944 Jul 04 j 20:35	28°♏03'20	
min. Earth dist.	-11950 Jul 17 j 19:01	1°♏37'00	4.08533 AU		-11944 Jul 13 j 12:13	0°♋	
	-11950 Jul 29 j 18:24	30°♋♎		max. Earth dist.	-11944 Jul 16 j 06:42	0°♋37'29	6.31926 AU
direct	-11950 Sep 14 j 21:43	26°♎31'03					
	-11950 Nov 01 j 00:08	0°♏		conjunction	-11944 Jul 17 j 05:55	0°♋50'35	1°37'44
	-11949 Jan 16 j 19:50	15°♏		minimum elong	-11944 Jul 17 j 05:51	0°♋50'32	1°38'05
evening set	-11949 Jan 20 j 05:24	15°♏46'36		morning rise	-11944 Jul 29 j 14:16	3°♋37'22	
					-11944 Sep 23 j 07:45	15°♋	
conjunction	-11949 Feb 02 j 22:38	18°♏55'59	-1°43'52	retrograde	-11944 Nov 30 j 08:13	21°♋24'43	
minimum elong	-11949 Feb 02 j 22:36	18°♏55'58	1°44'21	opposition	-11943 Jan 30 j 20:37	16°♋31'20	2°33'51
max. Earth dist.	-11949 Feb 03 j 18:10	19°♏07'15	6.10945 AU	min. Earth dist.	-11943 Jan 31 j 09:51	16°♋27'09	4.29612 AU
morning rise	-11949 Feb 16 j 15:41	22°♏05'12			-11943 Feb 12 j 02:03	15°♋♋	
	-11949 Mar 24 j 15:38	0°♋		direct	-11943 Apr 02 j 15:46	11°♋35'59	
retrograde	-11949 Jun 23 j 15:59	11°♋11'45			-11943 May 20 j 23:34	15°♋	
opposition	-11949 Aug 21 j 11:58	6°♋10'05	-2°30'49	evening set	-11943 Aug 04 j 22:49	29°♋36'02	
min. Earth dist.	-11949 Aug 21 j 04:44	6°♋12'33	4.14386 AU		-11943 Aug 06 j 17:04	0°♏	
direct	-11949 Oct 19 j 22:04	1°♋06'53					
evening set	-11948 Feb 25 j 18:28	20°♋14'10		conjunction	-11943 Aug 17 j 07:19	2°♏24'56	1°44'02
				minimum elong	-11943 Aug 17 j 07:20	2°♏24'57	1°44'37
conjunction	-11948 Mar 10 j 09:34	23°♋19'40	-1°30'11	max. Earth dist.	-11943 Aug 16 j 19:37	2°♏18'15	6.26280 AU
minimum elong	-11948 Mar 10 j 09:39	23°♋19'43	1°30'52	morning rise	-11943 Aug 29 j 16:24	5°♏14'19	
max. Earth dist.	-11948 Mar 10 j 12:52	23°♋21'32	6.18089 AU	retrograde	-11942 Jan 03 j 08:18	23°♏40'13	
morning rise	-11948 Mar 23 j 22:48	26°♋24'04		opposition	-11942 Mar 06 j 00:54	18°♏43'57	2°20'07
	-11948 Apr 09 j 02:39	0°♋		min. Earth dist.	-11942 Mar 06 j 04:42	18°♏42'44	4.22662 AU
retrograde	-11948 Jul 25 j 17:21	14°♋43'29		direct	-11942 May 05 j 18:04	13°♏50'40	
opposition	-11948 Sep 22 j 17:11	9°♋45'31	-1°46'05		-11942 Aug 27 j 23:45	0°♋	
min. Earth dist.	-11948 Sep 22 j 19:38	9°♋44'42	4.22095 AU	evening set	-11942 Sep 05 j 19:20	2°♋00'42	
direct	-11948 Nov 22 j 08:36	4°♋41'13					
evening set	-11947 Mar 31 j 16:35	23°♋28'02		conjunction	-11942 Sep 18 j 09:49	4°♋55'24	1°18'19
				minimum elong	-11942 Sep 18 j 09:55	4°♋55'27	1°19'00
conjunction	-11947 Apr 14 j 02:39	26°♋28'26	-0°46'55	max. Earth dist.	-11942 Sep 18 j 11:29	4°♋56'21	6.18650 AU
minimum elong	-11947 Apr 14 j 02:44	26°♋28'29	0°47'33	morning rise	-11942 Oct 01 j 03:00	7°♋51'35	
max. Earth dist.	-11947 Apr 13 j 14:44	26°♋21'45	6.25844 AU	retrograde	-11941 Feb 07 j 14:07	27°♋00'09	
morning rise	-11947 Apr 27 j 09:31	29°♋27'08		opposition	-11941 Apr 09 j 23:12	22°♋00'10	1°20'37
	-11947 Apr 29 j 20:34	0°♋		min. Earth dist.	-11941 Apr 09 j 15:51	22°♋02'34	4.14850 AU
	-11947 Jul 21 j 05:12	15°♋		direct	-11941 Jun 08 j 11:04	17°♋07'12	
retrograde	-11947 Aug 26 j 20:46	17°♋06'51			-11941 Sep 14 j 12:04	0°♏	
	-11947 Oct 02 j 15:34	15°♋		evening set	-11941 Oct 09 j 03:31	5°♏34'47	
opposition	-11947 Oct 25 j 08:10	12°♋12'24	-0°29'15				
min. Earth dist.	-11947 Oct 25 j 20:25	12°♋08'23	4.29136 AU	conjunction	-11941 Oct 22 j 04:49	8°♏37'24	0°26'12
direct	-11947 Dec 26 j 02:57	7°♋08'53		minimum elong	-11941 Oct 22 j 04:52	8°♏37'25	0°26'45
asc. node	-11946 Mar 09 j 16:27	14°♋20'10		max. Earth dist.	-11941 Oct 22 j 22:52	8°♏47'56	6.11473 AU
	-11946 Mar 13 j 10:34	15°♋		morning rise	-11941 Nov 04 j 09:36	11°♏41'59	
evening set	-11946 May 03 j 21:22	25°♋32'57			-11941 Nov 18 j 19:30	15°♏	
					-11940 Feb 13 j 11:49	0°♏	
conjunction	-11946 May 16 j 23:14	28°♋27'41	0°09'58	retrograde	-11940 Mar 14 j 15:49	1°♏24'03	
minimum elong	-11946 May 16 j 23:13	28°♋27'40	0°09'35	desc. node	-11940 Apr 08 j 07:55	0°♏26'03	
behind sun begin	-11946 May 16 j 16:32	28°♋23'58			-11940 Apr 13 j 12:37	30°♋♏	
behind sun end	-11946 May 17 j 05:54	28°♋31'23		opposition	-11940 May 14 j 07:22	26°♏20'51	-0°08'32
max. Earth dist.	-11946 May 16 j 00:00	28°♋14'43	6.31683 AU	min. Earth dist.	-11940 May 13 j 15:39	26°♏26'05	4.08887 AU
	-11946 May 23 j 20:41	0°♋		direct	-11940 Jul 11 j 19:50	21°♏26'21	
morning rise	-11946 May 29 j 21:41	1°♋20'40			-11940 Sep 26 j 10:09	0°♏	

Attention, astronomical year style is used: The year -11940 in astronomical counting style is the year 11941 BCE in historical counting style.

evening set	-11940 Nov 12 j 09:14	10° \mathbb{M} 15'34		minimum elong	-11934 May 21 j 06:27	2° \mathbb{H} 48'03	0°17'17
				morning rise	-11934 Jun 03 j 03:44	5° \mathbb{H} 40'26	
conjunction	-11940 Nov 25 j 20:10	13° \mathbb{M} 24'17	-0°36'08	retrograde	-11934 Oct 01 j 21:03	23° \mathbb{H} 00'07	
minimum elong	-11940 Nov 25 j 20:06	13° \mathbb{M} 24'15	0°35'56	opposition	-11934 Dec 01 j 04:10	18° \mathbb{H} 08'05	1°04'53
max. Earth dist.	-11940 Nov 26 j 23:06	13° \mathbb{M} 40'03	6.07283 AU	min. Earth dist.	-11934 Dec 01 j 23:18	18° \mathbb{H} 01'56	4.33262 AU
morning rise	-11940 Dec 09 j 10:37	16° \mathbb{M} 34'48		direct	-11933 Feb 01 j 15:22	13° \mathbb{H} 07'12	
	-11939 Feb 11 j 10:18	0° \mathbb{L}			-11933 Jun 03 j 10:11	0° \mathbb{Y}	
retrograde	-11939 Apr 19 j 16:18	6° \mathbb{L} 28'39		evening set	-11933 Jun 08 j 24:00	1° \mathbb{Y} 14'02	
opposition	-11939 Jun 18 j 13:13	1° \mathbb{L} 23'45	-1°36'07				
min. Earth dist.	-11939 Jun 17 j 18:01	1° \mathbb{L} 30'18	4.06932 AU	conjunction	-11933 Jun 21 j 15:19	4° \mathbb{Y} 03'29	1°09'02
	-11939 Jun 28 j 23:01	30° \mathbb{R} \mathbb{M}		minimum elong	-11933 Jun 21 j 15:13	4° \mathbb{Y} 03'26	1°09'02
direct	-11939 Aug 15 j 17:03	26° \mathbb{M} 26'12		max. Earth dist.	-11933 Jun 20 j 12:04	3° \mathbb{Y} 48'13	6.33392 AU
	-11939 Oct 02 j 00:15	0° \mathbb{L}		morning rise	-11933 Jul 04 j 04:10	6° \mathbb{Y} 51'44	
evening set	-11939 Dec 19 j 03:40	15° \mathbb{L} 33'44		retrograde	-11933 Nov 02 j 23:21	24° \mathbb{Y} 18'46	
				opposition	-11932 Jan 03 j 00:39	19° \mathbb{Y} 26'48	2°08'20
conjunction	-11938 Jan 01 j 19:59	18° \mathbb{L} 44'21	-1°25'50	min. Earth dist.	-11932 Jan 03 j 18:30	19° \mathbb{Y} 21'08	4.32662 AU
minimum elong	-11938 Jan 01 j 19:53	18° \mathbb{L} 44'17	1°26'02	direct	-11932 Mar 05 j 08:42	14° \mathbb{Y} 28'59	
max. Earth dist.	-11938 Jan 03 j 00:30	19° \mathbb{L} 00'56	6.07626 AU		-11932 Jun 27 j 22:18	0° \mathbb{B}	
morning rise	-11938 Jan 15 j 13:54	21° \mathbb{L} 55'47		evening set	-11932 Jul 09 j 03:27	2° \mathbb{B} 29'32	
	-11938 Feb 20 j 23:46	0° \mathbb{M}					
retrograde	-11938 May 25 j 02:21	11° \mathbb{M} 33'15		conjunction	-11932 Jul 21 j 12:28	5° \mathbb{B} 17'03	1°40'22
opposition	-11938 Jul 23 j 05:35	6° \mathbb{M} 29'09	-2°28'29	minimum elong	-11932 Jul 21 j 12:25	5° \mathbb{B} 17'01	1°40'44
min. Earth dist.	-11938 Jul 22 j 15:06	6° \mathbb{M} 34'07	4.09641 AU	max. Earth dist.	-11932 Jul 20 j 15:36	5° \mathbb{B} 05'15	6.30738 AU
direct	-11938 Sep 19 j 20:01	1° \mathbb{M} 28'12		morning rise	-11932 Aug 02 j 20:27	8° \mathbb{B} 04'11	
	-11938 Dec 30 j 19:50	15° \mathbb{M}			-11932 Sep 03 j 21:03	15° \mathbb{B}	
evening set	-11937 Jan 25 j 08:00	20° \mathbb{M} 41'30		retrograde	-11932 Dec 05 j 00:49	25° \mathbb{B} 58'14	
				opposition	-11931 Feb 04 j 13:43	21° \mathbb{B} 04'37	2°34'45
conjunction	-11937 Feb 08 j 00:54	23° \mathbb{M} 50'09	-1°44'05	min. Earth dist.	-11931 Feb 05 j 01:57	21° \mathbb{B} 00'45	4.28223 AU
minimum elong	-11937 Feb 08 j 00:53	23° \mathbb{M} 50'08	1°44'37	direct	-11931 Apr 07 j 05:40	16° \mathbb{B} 09'42	
max. Earth dist.	-11937 Feb 08 j 17:56	23° \mathbb{M} 59'56	6.12312 AU		-11931 Jul 21 j 12:14	0° \mathbb{I}	
morning rise	-11937 Feb 21 j 17:34	26° \mathbb{M} 58'31		evening set	-11931 Aug 09 j 08:59	4° \mathbb{I} 12'37	
	-11937 Mar 07 j 03:06	0° \mathbb{J}					
retrograde	-11937 Jun 28 j 04:36	15° \mathbb{J} 56'49		conjunction	-11931 Aug 21 j 17:52	7° \mathbb{I} 02'19	1°42'14
opposition	-11937 Aug 26 j 02:00	10° \mathbb{J} 55'35	-2°27'17	minimum elong	-11931 Aug 21 j 17:54	7° \mathbb{I} 02'20	1°42'51
min. Earth dist.	-11937 Aug 25 j 19:39	10° \mathbb{J} 57'45	4.15879 AU	max. Earth dist.	-11931 Aug 21 j 07:06	6° \mathbb{I} 56'09	6.24798 AU
direct	-11937 Oct 24 j 16:04	5° \mathbb{J} 52'05		morning rise	-11931 Sep 03 j 03:56	9° \mathbb{I} 52'42	
evening set	-11936 Mar 01 j 14:36	24° \mathbb{J} 55'17		retrograde	-11930 Jan 08 j 06:43	28° \mathbb{I} 26'10	
				opposition	-11930 Mar 10 j 22:28	23° \mathbb{I} 29'23	2°14'13
conjunction	-11936 Mar 15 j 05:05	27° \mathbb{J} 59'55	-1°25'42	min. Earth dist.	-11930 Mar 10 j 23:55	23° \mathbb{I} 28'55	4.21193 AU
minimum elong	-11936 Mar 15 j 05:11	27° \mathbb{J} 59'58	1°26'23	direct	-11930 May 10 j 10:56	18° \mathbb{I} 36'15	
max. Earth dist.	-11936 Mar 15 j 05:36	28° \mathbb{J} 00'12	6.19586 AU		-11930 Aug 10 j 17:33	0° \mathbb{O}	
	-11936 Mar 24 j 01:08	0° \mathbb{Z}		evening set	-11930 Sep 10 j 10:26	6° \mathbb{O} 49'25	
morning rise	-11936 Mar 28 j 17:29	1° \mathbb{Z} 03'21					
retrograde	-11936 Jul 30 j 03:14	19° \mathbb{Z} 15'20		conjunction	-11930 Sep 23 j 02:28	9° \mathbb{O} 45'20	1°12'12
opposition	-11936 Sep 27 j 03:30	14° \mathbb{Z} 17'55	-1°36'59	minimum elong	-11930 Sep 23 j 02:34	9° \mathbb{O} 45'23	1°12'52
min. Earth dist.	-11936 Sep 27 j 08:38	14° \mathbb{Z} 16'12	4.23434 AU	max. Earth dist.	-11930 Sep 23 j 08:28	9° \mathbb{O} 48'48	6.17340 AU
direct	-11936 Nov 27 j 00:01	9° \mathbb{Z} 13'37		morning rise	-11930 Oct 05 j 21:07	12° \mathbb{O} 42'46	
evening set	-11935 Apr 05 j 05:55	27° \mathbb{Z} 56'26			-11929 Jan 07 j 13:17	0° \mathbb{Q}	
	-11935 Apr 14 j 11:06	0° \mathbb{A}		retrograde	-11929 Feb 12 j 17:10	1° \mathbb{Q} 57'20	
					-11929 Mar 20 j 18:41	30° \mathbb{R} \mathbb{O}	
conjunction	-11935 Apr 18 j 15:06	0° \mathbb{A} 56'03	-0°39'40	opposition	-11929 Apr 14 j 23:35	26° \mathbb{O} 56'51	1°09'05
minimum elong	-11935 Apr 18 j 15:10	0° \mathbb{A} 56'05	0°40'17	min. Earth dist.	-11929 Apr 14 j 14:38	26° \mathbb{O} 59'47	4.13791 AU
max. Earth dist.	-11935 Apr 18 j 00:26	0° \mathbb{A} 47'50	6.26915 AU	direct	-11929 Jun 13 j 07:24	22° \mathbb{O} 03'49	
morning rise	-11935 May 01 j 20:55	3° \mathbb{A} 53'55			-11929 Aug 26 j 04:33	0° \mathbb{Q}	
	-11935 Jun 25 j 04:10	15° \mathbb{A}		evening set	-11929 Oct 14 j 01:08	10° \mathbb{Q} 34'09	
retrograde	-11935 Aug 31 j 02:07	21° \mathbb{A} 29'28					
opposition	-11935 Oct 29 j 16:32	16° \mathbb{A} 35'25	-0°17'53	conjunction	-11929 Oct 27 j 03:48	13° \mathbb{Q} 37'44	0°17'27
min. Earth dist.	-11935 Oct 30 j 05:56	16° \mathbb{A} 31'01	4.29861 AU	minimum elong	-11929 Oct 27 j 03:50	13° \mathbb{Q} 37'45	0°17'58
	-11935 Nov 11 j 01:23	15° \mathbb{R} \mathbb{A}		max. Earth dist.	-11929 Oct 27 j 22:58	13° \mathbb{Q} 48'56	6.10740 AU
direct	-11935 Dec 30 j 13:15	11° \mathbb{A} 32'05			-11929 Nov 02 j 00:37	15° \mathbb{Q}	
asc. node	-11934 Jan 20 j 02:58	12° \mathbb{A} 10'12		morning rise	-11929 Nov 09 j 10:18	16° \mathbb{Q} 43'21	
	-11934 Feb 18 j 00:50	15° \mathbb{A}			-11928 Jan 11 j 22:16	0° \mathbb{M}	
evening set	-11934 May 08 j 05:50	29° \mathbb{A} 53'59		desc. node	-11928 Feb 16 j 09:28	4° \mathbb{M} 51'16	
	-11934 May 08 j 16:43	0° \mathbb{H}		retrograde	-11928 Mar 19 j 16:58	6° \mathbb{M} 27'56	
max. Earth dist.	-11934 May 20 j 05:47	2° \mathbb{H} 34'17	6.32010 AU	opposition	-11928 May 19 j 07:33	1° \mathbb{M} 24'17	-0°21'53
				min. Earth dist.	-11928 May 18 j 14:04	1° \mathbb{M} 30'08	4.08523 AU
conjunction	-11934 May 21 j 06:29	2° \mathbb{H} 48'05	0°17'38		-11928 May 29 j 23:13	30° \mathbb{R} \mathbb{Q}	

Attention, astronomical year style is used: The year -11928 in astronomical counting style is the year 11929 BCE in historical counting style.

direct	-11928 Jul 16 j 17:48	26°♏29'23		max. Earth dist.	-11922 May 24 j 15:32	7°♐03'11	6.32296 AU
	-11928 Sep 01 j 15:56	0°♐		morning rise	-11922 Jun 07 j 12:52	10°♐09'04	
evening set	-11928 Nov 17 j 12:08	15°♐20'42		retrograde	-11922 Oct 06 j 06:47	27°♐28'57	
				opposition	-11922 Dec 05 j 17:30	22°♐37'00	1°15'22
conjunction	-11928 Dec 01 j 00:14	18°♐29'51	-0°44'28	min. Earth dist.	-11922 Dec 06 j 12:01	22°♐31'05	4.33271 AU
minimum elong	-11928 Dec 01 j 00:09	18°♐29'48	0°44'17	direct	-11921 Feb 06 j 04:12	17°♐36'32	
max. Earth dist.	-11928 Dec 02 j 05:27	18°♐46'56	6.07295 AU		-11921 May 17 j 22:59	0°♐	
morning rise	-11928 Dec 14 j 15:20	21°♐40'37		evening set	-11921 Jun 13 j 09:21	5°♐42'34	
	-11927 Jan 21 j 02:13	0°♐					
retrograde	-11927 Apr 24 j 17:57	11°♐32'43		conjunction	-11921 Jun 25 j 23:31	8°♐31'37	1°14'53
opposition	-11927 Jun 23 j 11:24	6°♐27'48	-1°46'14	minimum elong	-11921 Jun 25 j 23:26	8°♐31'33	1°14'57
min. Earth dist.	-11927 Jun 22 j 17:09	6°♐34'01	4.07313 AU	max. Earth dist.	-11921 Jun 24 j 21:10	8°♐16'49	6.33126 AU
direct	-11927 Aug 20 j 16:48	1°♐29'46		morning rise	-11921 Jul 08 j 11:23	11°♐19'32	
evening set	-11927 Dec 24 j 08:50	20°♐37'53		retrograde	-11921 Nov 07 j 13:52	28°♐49'41	
				opposition	-11920 Jan 07 j 16:32	23°♐57'39	2°14'35
conjunction	-11926 Jan 07 j 01:18	23°♐48'14	-1°30'34	min. Earth dist.	-11920 Jan 08 j 10:19	23°♐52'01	4.32167 AU
minimum elong	-11926 Jan 07 j 01:12	23°♐48'11	1°30'49	direct	-11920 Mar 09 j 23:58	19°♐00'18	
max. Earth dist.	-11926 Jan 08 j 04:00	24°♐03'44	6.08302 AU		-11920 Jun 11 j 00:25	0°♐	
morning rise	-11926 Jan 20 j 19:21	26°♐59'19		evening set	-11920 Jul 13 j 12:19	7°♐00'56	
	-11926 Feb 03 j 00:17	0°♐					
	-11926 Apr 29 j 03:59	15°♐		conjunction	-11920 Jul 25 j 20:50	9°♐48'30	1°42'32
retrograde	-11926 May 29 j 21:18	16°♐31'28		minimum elong	-11920 Jul 25 j 20:48	9°♐48'29	1°42'56
	-11926 Jun 29 j 06:59	15°♐		max. Earth dist.	-11920 Jul 25 j 00:30	9°♐36'59	6.30048 AU
min. Earth dist.	-11926 Jul 27 j 10:01	11°♐32'32	4.10565 AU	morning rise	-11920 Aug 07 j 04:48	12°♐35'52	
opposition	-11926 Jul 28 j 00:15	11°♐27'39	-2°31'38		-11920 Aug 17 j 23:01	15°♐	
direct	-11926 Sep 24 j 16:53	6°♐26'15			-11920 Nov 20 j 06:31	0°♐	
	-11926 Dec 11 j 15:23	15°♐		retrograde	-11920 Dec 09 j 17:54	0°♐34'53	
evening set	-11925 Jan 30 j 11:01	25°♐38'16			-11920 Dec 29 j 07:23	30°♐	
				opposition	-11919 Feb 09 j 08:27	25°♐40'52	2°34'45
conjunction	-11925 Feb 13 j 03:41	28°♐46'19	-1°43'38	min. Earth dist.	-11919 Feb 09 j 18:19	25°♐37'44	4.27414 AU
minimum elong	-11925 Feb 13 j 03:42	28°♐46'19	1°44'13	direct	-11919 Apr 11 j 20:12	20°♐46'17	
max. Earth dist.	-11925 Feb 13 j 18:09	28°♐54'37	6.13403 AU		-11919 Jul 03 j 17:56	0°♐	
	-11925 Feb 18 j 12:12	0°♐		evening set	-11919 Aug 13 j 19:21	8°♐49'49	
morning rise	-11925 Feb 26 j 19:50	1°♐53'58					
retrograde	-11925 Jul 02 j 20:54	20°♐45'20		conjunction	-11919 Aug 26 j 04:55	11°♐40'07	1°39'52
opposition	-11925 Aug 30 j 17:21	15°♐44'37	-2°22'52	minimum elong	-11919 Aug 26 j 04:58	11°♐40'09	1°40'31
min. Earth dist.	-11925 Aug 30 j 13:35	15°♐45'54	4.17024 AU	max. Earth dist.	-11919 Aug 25 j 21:59	11°♐36'08	6.23950 AU
direct	-11925 Oct 29 j 12:20	10°♐40'53		morning rise	-11919 Sep 07 j 15:38	14°♐31'11	
evening set	-11924 Mar 06 j 12:24	29°♐41'17			-11919 Nov 27 j 12:10	0°♐	
	-11924 Mar 07 j 21:42	0°♐		retrograde	-11918 Jan 13 j 04:41	3°♐09'50	
					-11918 Mar 01 j 12:24	30°♐	
conjunction	-11924 Mar 20 j 02:27	2°♐45'16	-1°20'38	opposition	-11918 Mar 15 j 19:24	28°♐12'35	2°07'30
minimum elong	-11924 Mar 20 j 02:33	2°♐45'20	1°21'19	min. Earth dist.	-11918 Mar 15 j 19:41	28°♐12'29	4.20360 AU
max. Earth dist.	-11924 Mar 20 j 00:59	2°♐44'27	6.20707 AU	direct	-11918 May 15 j 04:33	23°♐19'36	
morning rise	-11924 Apr 02 j 14:02	5°♐47'56			-11918 Jul 22 j 02:55	0°♐	
retrograde	-11924 Aug 03 j 13:21	23°♐53'51		evening set	-11918 Sep 15 j 00:32	11°♐33'48	
opposition	-11924 Oct 01 j 16:19	18°♐56'57	-1°27'10				
min. Earth dist.	-11924 Oct 01 j 22:09	18°♐55'00	4.24437 AU	conjunction	-11918 Sep 27 j 17:43	14°♐30'35	1°05'44
direct	-11924 Dec 01 j 15:43	13°♐52'39		minimum elong	-11918 Sep 27 j 17:48	14°♐30'38	1°06'24
	-11923 Mar 29 j 08:56	0°♐		max. Earth dist.	-11918 Sep 28 j 00:43	14°♐34'39	6.16596 AU
evening set	-11923 Apr 09 j 22:04	2°♐32'33		morning rise	-11918 Oct 10 j 14:01	17°♐29'04	
					-11918 Dec 09 j 10:50	0°♐	
conjunction	-11923 Apr 23 j 06:08	5°♐31'25	-0°32'00	retrograde	-11917 Feb 17 j 14:56	6°♐47'34	
minimum elong	-11923 Apr 23 j 06:11	5°♐31'27	0°32'34	opposition	-11917 Apr 19 j 20:54	1°♐46'31	0°57'21
max. Earth dist.	-11923 Apr 22 j 12:45	5°♐21'41	6.27741 AU	min. Earth dist.	-11917 Apr 19 j 09:41	1°♐50'12	4.13185 AU
morning rise	-11923 May 06 j 10:59	8°♐28'33			-11917 May 03 j 17:50	30°♐	
	-11923 Jun 05 j 18:36	15°♐		direct	-11917 Jun 18 j 00:48	26°♐53'19	
retrograde	-11923 Sep 04 j 13:19	26°♐00'52			-11917 Aug 01 j 10:11	0°♐	
opposition	-11923 Nov 03 j 04:56	21°♐07'11	-0°06'02		-11917 Oct 17 j 00:19	15°♐	
min. Earth dist.	-11923 Nov 03 j 20:21	21°♐02'10	4.30440 AU	evening set	-11917 Oct 18 j 19:57	15°♐25'18	
asc. node	-11923 Dec 01 j 00:27	17°♐48'25					
direct	-11922 Jan 04 j 05:34	16°♐04'07		conjunction	-11917 Nov 01 j 00:10	18°♐29'43	0°08'51
	-11922 Apr 22 j 11:24	0°♐		minimum elong	-11917 Nov 01 j 00:11	18°♐29'44	0°09'19
evening set	-11922 May 12 j 17:24	4°♐23'52		behind sun begin	-11917 Oct 31 j 17:18	18°♐25'43	
				behind sun end	-11917 Nov 01 j 07:05	18°♐33'44	
conjunction	-11922 May 25 j 16:51	7°♐17'19	0°25'30	max. Earth dist.	-11917 Nov 01 j 22:14	18°♐42'36	6.10329 AU
minimum elong	-11922 May 25 j 16:49	7°♐17'18	0°25'12	morning rise	-11917 Nov 14 j 07:55	21°♐36'06	

Attention, astronomical year style is used: The year -11917 in astronomical counting style is the year 11918 BCE in historical counting style.

	-11917 Dec 22 j 05:12	0°♎	direct	-11910 Jan 08 j 19:56	20°♊38'30	
desc. node	-11917 Dec 27 j 13:17	1°♎05'15		-11910 Apr 04 j 11:07	0°♋	
retrograde	-11916 Mar 24 j 17:04	11°♎22'12	evening set	-11910 May 17 j 05:46	8°♋56'27	
min. Earth dist.	-11916 May 23 j 11:13	6°♎23'58 4.08335 AU	max. Earth dist.	-11910 May 29 j 01:31	11°♋34'34	6.32558 AU
opposition	-11916 May 24 j 04:13	6°♎18'16 -0°34'41				
direct	-11916 Jul 21 j 13:43	1°♎23'00	conjunction	-11910 May 30 j 03:45	11°♋49'13	0°33'17
evening set	-11916 Nov 22 j 11:44	20°♎16'11	minimum elong	-11910 May 30 j 03:42	11°♋49'11	0°33'02
			morning rise	-11910 Jun 11 j 22:38	14°♋40'22	
conjunction	-11916 Dec 06 j 00:33	23°♎25'38 -0°52'12		-11910 Sep 04 j 15:23	0°♐	
minimum elong	-11916 Dec 06 j 00:27	23°♎25'35 0°52'05	retrograde	-11910 Oct 10 j 19:56	2°♐00'29	
max. Earth dist.	-11916 Dec 07 j 04:47	23°♎42'08 6.07321 AU		-11910 Nov 16 j 09:09	30°♐♋	
morning rise	-11916 Dec 19 j 16:29	26°♎36'40	opposition	-11910 Dec 10 j 08:04	27°♐08'39	1°25'29
	-11915 Jan 03 j 11:35	0°♏	min. Earth dist.	-11910 Dec 11 j 03:19	27°♐02'30	4.33359 AU
retrograde	-11915 Apr 29 j 13:59	16°♏27'13	direct	-11909 Feb 10 j 20:21	22°♐08'35	
min. Earth dist.	-11915 Jun 27 j 11:12	11°♏28'41 4.07574 AU		-11909 Apr 29 j 05:39	0°♐	
opposition	-11915 Jun 28 j 05:46	11°♏22'21 -1°55'18	evening set	-11909 Jun 17 j 18:44	10°♐13'07	
direct	-11915 Aug 25 j 10:58	6°♏23'51	max. Earth dist.	-11909 Jun 29 j 06:37	12°♐47'31	6.33008 AU
evening set	-11915 Dec 29 j 10:46	25°♏33'21				
			conjunction	-11909 Jun 30 j 07:54	13°♐01'43	1°20'20
conjunction	-11914 Jan 12 j 03:28	28°♏43'35 -1°34'31	minimum elong	-11909 Jun 30 j 07:49	13°♐01'40	1°20'27
minimum elong	-11914 Jan 12 j 03:23	28°♏43'32 1°34'49	morning rise	-11909 Jul 12 j 18:51	15°♐49'17	
max. Earth dist.	-11914 Jan 13 j 04:22	28°♏58'01 6.08753 AU		-11909 Sep 25 j 06:52	0°♑	
	-11914 Jan 17 j 15:18	0°♑	retrograde	-11909 Nov 12 j 02:48	3°♑22'00	
morning rise	-11914 Jan 25 j 21:25	1°♑54'21		-11909 Dec 31 j 06:39	30°♑♐	
	-11914 Mar 29 j 15:49	15°♑	opposition	-11908 Jan 12 j 08:41	28°♑29'44	2°20'03
retrograde	-11914 Jun 03 j 15:40	21°♑22'23	min. Earth dist.	-11908 Jan 13 j 00:34	28°♑24'42	4.31862 AU
opposition	-11914 Aug 01 j 16:17	16°♑18'56 -2°33'40	direct	-11908 Mar 14 j 13:10	23°♑32'47	
min. Earth dist.	-11914 Aug 01 j 04:23	16°♑23'00 4.11162 AU		-11908 May 22 j 08:10	0°♑	
	-11914 Aug 11 j 09:17	15°♑♑	evening set	-11908 Jul 17 j 20:54	11°♑32'39	
direct	-11914 Sep 29 j 12:27	11°♑17'09	max. Earth dist.	-11908 Jul 29 j 10:57	14°♑09'56	6.29556 AU
	-11914 Nov 17 j 14:12	15°♑				
	-11913 Feb 02 j 08:14	0°♒	conjunction	-11908 Jul 30 j 05:06	14°♒20'13	1°44'05
evening set	-11913 Feb 04 j 11:31	0°♒29'08	minimum elong	-11908 Jul 30 j 05:03	14°♒20'12	1°44'32
				-11908 Aug 02 j 03:10	15°♒	
conjunction	-11913 Feb 18 j 04:10	3°♒36'53 -1°42'28	morning rise	-11908 Aug 11 j 12:53	17°♒07'42	
minimum elong	-11913 Feb 18 j 04:12	3°♒36'54 1°43'05		-11908 Oct 14 j 20:00	0°♓	
max. Earth dist.	-11913 Feb 18 j 17:06	3°♒44'18 6.14097 AU	retrograde	-11908 Dec 14 j 12:16	5°♓10'56	
morning rise	-11913 Mar 03 j 19:49	6°♒44'03	opposition	-11907 Feb 14 j 02:34	0°♓16'31	2°33'49
retrograde	-11913 Jul 07 j 10:10	25°♒30'08	min. Earth dist.	-11907 Feb 14 j 12:09	0°♓13'29	4.26743 AU
opposition	-11913 Sep 04 j 07:21	20°♒29'58 -2°17'35		-11907 Feb 16 j 06:38	30°♓♒	
min. Earth dist.	-11913 Sep 04 j 04:15	20°♒31'02 4.17758 AU	direct	-11907 Apr 16 j 12:10	25°♓22'12	
direct	-11913 Nov 03 j 04:43	15°♒26'08		-11907 Jun 12 j 00:48	0°♓	
	-11912 Feb 20 j 07:52	0°♓	evening set	-11907 Aug 18 j 05:15	13°♓26'00	
evening set	-11912 Mar 11 j 09:02	4°♓25'12				
			conjunction	-11907 Aug 30 j 15:25	16°♓16'54	1°36'55
conjunction	-11912 Mar 24 j 22:24	7°♓28'41 -1°15'03	minimum elong	-11907 Aug 30 j 15:28	16°♓16'56	1°37'34
minimum elong	-11912 Mar 24 j 22:30	7°♓28'44 1°15'45	max. Earth dist.	-11907 Aug 30 j 09:17	16°♓13'23	6.23151 AU
max. Earth dist.	-11912 Mar 24 j 17:27	7°♓25'53 6.21437 AU	morning rise	-11907 Sep 12 j 03:13	19°♓08'45	
morning rise	-11912 Apr 07 j 09:25	10°♓30'48		-11907 Nov 02 j 13:36	0°♔	
retrograde	-11912 Aug 08 j 02:11	28°♓32'22	retrograde	-11906 Jan 17 j 23:53	7°♔52'23	
opposition	-11912 Oct 06 j 05:33	23°♓35'58 -1°16'49	opposition	-11906 Mar 20 j 15:08	2°♔54'33	2°00'01
min. Earth dist.	-11912 Oct 06 j 13:32	23°♓33'19 4.25090 AU	min. Earth dist.	-11906 Mar 20 j 13:05	2°♔55'12	4.19476 AU
direct	-11912 Dec 06 j 09:33	18°♓31'47		-11906 Apr 13 j 21:33	30°♓♑	
	-11911 Mar 12 j 02:17	0°♔	direct	-11906 May 19 j 19:13	28°♓01'37	
evening set	-11911 Apr 14 j 14:06	7°♔09'46		-11906 Jun 24 j 07:20	0°♔	
			evening set	-11906 Sep 19 j 14:08	16°♔17'22	
conjunction	-11911 Apr 27 j 21:21	10°♔08'04 -0°24'05				
minimum elong	-11911 Apr 27 j 21:23	10°♔08'05 0°24'37	conjunction	-11906 Oct 02 j 08:52	19°♔15'10	0°58'53
max. Earth dist.	-11911 Apr 27 j 03:56	9°♔58'19 6.28294 AU	minimum elong	-11906 Oct 02 j 08:57	19°♔15'13	0°59'33
morning rise	-11911 May 11 j 00:59	13°♔04'31	max. Earth dist.	-11906 Oct 02 j 18:50	19°♔20'58	6.15721 AU
	-11911 May 19 j 17:56	15°♔	morning rise	-11906 Oct 15 j 06:35	22°♔14'42	
	-11911 Aug 21 j 02:45	0°♔		-11906 Nov 19 j 07:34	0°♕	
retrograde	-11911 Sep 08 j 23:06	0°♔34'33	retrograde	-11905 Feb 22 j 14:47	11°♕37'40	
	-11911 Sep 27 j 21:05	30°♔♔	opposition	-11905 Apr 24 j 17:55	6°♕36'09	0°45'17
asc. node	-11911 Oct 11 j 06:57	28°♔56'30	min. Earth dist.	-11905 Apr 24 j 06:43	6°♕39'50	4.12363 AU
opposition	-11911 Nov 07 j 18:05	25°♔41'14 0°05'56	direct	-11905 Jun 22 j 19:42	1°♕42'43	
min. Earth dist.	-11911 Nov 08 j 09:03	25°♔36'22 4.30861 AU		-11905 Sep 30 j 08:45	15°♕	

Attention, astronomical year style is used: The year -11905 in astronomical counting style is the year 11906 BCE in historical counting style.

evening set	-11905 Oct 23 j 15:35	20°Ω17'27		minimum elong	-11899 May 02 j 13:36	14°≈47'32	0°16'27
				max. Earth dist.	-11899 May 01 j 17:56	14°≈36'32	6.29140 AU
conjunction	-11905 Nov 05 j 21:05	23°Ω22'45	0°00'08		-11899 May 03 j 11:53	15°≈	
minimum elong	-11905 Nov 05 j 21:07	23°Ω22'45	0°00'34	morning rise	-11899 May 15 j 16:12	17°≈43'12	
behind sun begin	-11905 Nov 05 j 12:53	23°Ω17'58			-11899 Jul 16 j 06:57	0°℥	
behind sun end	-11905 Nov 06 j 05:20	23°Ω27'33		asc. node	-11899 Aug 20 j 15:26	4°℥15'32	
desc. node	-11905 Nov 06 j 15:35	23°Ω33'33		retrograde	-11899 Sep 13 j 12:13	5°℥10'06	
max. Earth dist.	-11905 Nov 06 j 19:22	23°Ω35'45	6.09642 AU	opposition	-11899 Nov 12 j 08:53	0°℥17'04	0°17'56
morning rise	-11905 Nov 19 j 06:25	26°Ω30'05		min. Earth dist.	-11899 Nov 13 j 00:56	0°℥11'52	4.31615 AU
	-11905 Dec 04 j 13:02	0°♄			-11899 Nov 14 j 13:30	30°℞≈	
retrograde	-11904 Mar 29 j 15:50	16°♄18'29					
min. Earth dist.	-11904 May 28 j 06:47	11°♄20'24	4.07858 AU				
opposition	-11904 May 29 j 00:58	11°♄14'17	-0°47'18				
direct	-11904 Jul 26 j 08:04	6°♄18'34					
evening set	-11904 Nov 27 j 13:12	25°♄15'00					
conjunction	-11904 Dec 11 j 02:55	28°♄24'54	-0°59'38				
minimum elong	-11904 Dec 11 j 02:48	28°♄24'50	0°59'36				
max. Earth dist.	-11904 Dec 12 j 07:03	28°♄41'20	6.07082 AU				
	-11904 Dec 17 j 21:48	0°♅					
morning rise	-11904 Dec 24 j 19:26	1°♅36'15					
retrograde	-11903 May 04 j 13:03	21°♅26'02					
min. Earth dist.	-11903 Jul 02 j 08:30	16°♅27'02	4.07595 AU				
opposition	-11903 Jul 03 j 01:39	16°♅21'10	-2°03'40				
direct	-11903 Aug 30 j 08:32	11°♅22'07					
	-11902 Jan 01 j 04:12	0°♆					
evening set	-11902 Jan 03 j 15:01	0°♆33'49					
conjunction	-11902 Jan 17 j 08:04	3°♆44'01	-1°37'52				
minimum elong	-11902 Jan 17 j 07:59	3°♆43'58	1°38'12				
max. Earth dist.	-11902 Jan 18 j 08:22	3°♆58'05	6.09016 AU				
morning rise	-11902 Jan 31 j 01:56	6°♆54'36					
	-11902 Mar 08 j 17:49	15°♆					
retrograde	-11902 Jun 08 j 11:02	26°♆18'43					
opposition	-11902 Aug 06 j 10:28	21°♆15'38	-2°34'41				
min. Earth dist.	-11902 Aug 05 j 23:00	21°♆19'34	4.11653 AU				
direct	-11902 Oct 04 j 08:01	16°♆13'29					
	-11901 Jan 16 j 04:39	0°♇					
evening set	-11901 Feb 09 j 14:42	5°♇25'37					
conjunction	-11901 Feb 23 j 06:58	8°♇32'58	-1°40'34				
minimum elong	-11901 Feb 23 j 07:01	8°♇33'00	1°41'11				
max. Earth dist.	-11901 Feb 23 j 16:19	8°♇38'19	6.14764 AU				
morning rise	-11901 Mar 08 j 22:20	11°♇39'40					
	-11901 Jun 27 j 21:52	0°♈					
retrograde	-11901 Jul 12 j 02:52	0°♈20'23					
	-11901 Jul 26 j 06:26	30°℞♈					
opposition	-11901 Sep 08 j 23:54	25°♈20'43	-2°11'17				
min. Earth dist.	-11901 Sep 08 j 22:41	25°♈21'08	4.18533 AU				
direct	-11901 Nov 08 j 02:07	20°♈16'42					
	-11900 Feb 01 j 20:00	0°♉					
evening set	-11900 Mar 16 j 07:51	9°♉14'00					
conjunction	-11900 Mar 29 j 20:46	12°♉16'57	-1°08'53				
minimum elong	-11900 Mar 29 j 20:52	12°♉17'00	1°09'34				
max. Earth dist.	-11900 Mar 29 j 15:35	12°♉14'01	6.22299 AU				
morning rise	-11900 Apr 12 j 06:47	15°♉18'22					
	-11900 Jun 27 j 22:06	0°♊					
retrograde	-11900 Aug 12 j 15:20	3°♊14'54					
	-11900 Sep 27 j 21:57	30°℞♊					
opposition	-11900 Oct 10 j 20:44	28°♊19'02	-1°05'49				
min. Earth dist.	-11900 Oct 11 j 04:48	28°♊16'22	4.25968 AU				
direct	-11900 Dec 11 j 03:37	23°♊15'01					
	-11899 Feb 19 j 20:00	0°♋					
evening set	-11899 Apr 19 j 07:39	11°♋50'03					
conjunction	-11899 May 02 j 13:35	14°≈47'31	-0°15'57				