

Planetary Phenomena of Neptune from -3900 through -3398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -3900 in astronomical counting style is the year 3901 BCE in historical counting style.

evening set	-3900 Jan 25 j 23:00	21° $\overline{3}$ 12'06		conjunction	-3894 Feb 24 j 04:12	5° \approx 17'42	-1°52'00
				minimum elong	-3894 Feb 24 j 04:12	5° \approx 17'42	1°52'08
conjunction	-3900 Feb 10 j 19:10	21° $\overline{3}$ 47'35	-1°32'25	max. Earth dist.	-3894 Feb 25 j 02:15	5° \approx 19'47	30.84047 AU
minimum elong	-3900 Feb 10 j 19:10	21° $\overline{3}$ 47'35	1°32'34	morning rise	-3894 Mar 12 j 06:15	5° \approx 53'40	
max. Earth dist.	-3900 Feb 11 j 20:08	21° $\overline{3}$ 49'56	30.85871 AU	retrograde	-3894 Jun 11 j 22:57	7° \approx 52'40	
morning rise	-3900 Feb 26 j 19:18	22° $\overline{3}$ 23'26		opposition	-3894 Aug 30 j 14:59	6° \approx 27'18	-2°01'15
retrograde	-3900 May 28 j 11:02	24° $\overline{3}$ 22'29		min. Earth dist.	-3894 Aug 29 j 18:38	6° \approx 28'45	28.83919 AU
opposition	-3900 Aug 16 j 17:01	22° $\overline{3}$ 57'01	-1°40'50	direct	-3894 Nov 15 j 22:05	5° \approx 03'46	
min. Earth dist.	-3900 Aug 15 j 17:57	22° $\overline{3}$ 58'38	28.85871 AU	evening set	-3893 Feb 10 j 18:56	6° \approx 57'14	
direct	-3900 Nov 01 j 23:08	21° $\overline{3}$ 33'42					
evening set	-3899 Jan 27 j 11:34	23° $\overline{3}$ 26'39		conjunction	-3893 Feb 26 j 17:52	7° \approx 32'53	-1°54'41
				minimum elong	-3893 Feb 26 j 17:52	7° \approx 32'53	1°54'50
conjunction	-3899 Feb 12 j 08:19	24° $\overline{3}$ 02'09	-1°36'04	max. Earth dist.	-3893 Feb 27 j 15:26	7° \approx 34'55	30.83511 AU
minimum elong	-3899 Feb 12 j 08:18	24° $\overline{3}$ 02'09	1°36'14	morning rise	-3893 Mar 14 j 20:12	8° \approx 08'51	
max. Earth dist.	-3899 Feb 13 j 10:08	24° $\overline{3}$ 04'35	30.85662 AU	retrograde	-3893 Jun 14 j 11:22	10° \approx 07'47	
morning rise	-3899 Feb 28 j 08:40	24° $\overline{3}$ 38'01		min. Earth dist.	-3893 Sep 01 j 07:39	8° \approx 43'44	28.83397 AU
retrograde	-3899 May 31 j 00:12	26° $\overline{3}$ 37'07		opposition	-3893 Sep 02 j 02:31	8° \approx 42'24	-2°04'03
min. Earth dist.	-3899 Aug 18 j 05:16	25° $\overline{3}$ 13'20	28.85679 AU	direct	-3893 Nov 18 j 09:17	7° \approx 18'46	
opposition	-3899 Aug 19 j 04:41	25° $\overline{3}$ 11'41	-1°44'39	evening set	-3892 Feb 13 j 08:17	9° \approx 12'17	
direct	-3899 Nov 04 j 10:28	23° $\overline{3}$ 48'22					
evening set	-3898 Jan 30 j 00:39	25° $\overline{3}$ 41'26		conjunction	-3892 Feb 29 j 07:41	9° \approx 47'58	-1°57'13
				minimum elong	-3892 Feb 29 j 07:41	9° \approx 47'57	1°57'20
conjunction	-3898 Feb 14 j 21:37	26° $\overline{3}$ 16'58	-1°39'34	max. Earth dist.	-3892 Mar 01 j 05:05	9° \approx 49'58	30.83013 AU
minimum elong	-3898 Feb 14 j 21:36	26° $\overline{3}$ 16'58	1°39'42	morning rise	-3892 Mar 16 j 10:14	10° \approx 23'56	
max. Earth dist.	-3898 Feb 15 j 21:57	26° $\overline{3}$ 19'15	30.85472 AU	retrograde	-3892 Jun 15 j 23:55	12° \approx 22'47	
morning rise	-3898 Mar 02 j 22:27	26° $\overline{3}$ 52'51		opposition	-3892 Sep 03 j 13:46	10° \approx 57'23	-2°06'38
retrograde	-3898 Jun 02 j 14:28	28° $\overline{3}$ 51'58		min. Earth dist.	-3892 Sep 02 j 18:20	10° \approx 58'46	28.82932 AU
opposition	-3898 Aug 21 j 16:21	27° $\overline{3}$ 26'35	-1°48'19	direct	-3892 Nov 19 j 21:45	9° \approx 33'40	
min. Earth dist.	-3898 Aug 20 j 17:58	27° $\overline{3}$ 28'10	28.85491 AU	evening set	-3891 Feb 14 j 21:47	11° \approx 27'15	
direct	-3898 Nov 06 j 20:16	26° $\overline{3}$ 03'16					
evening set	-3897 Feb 01 j 13:42	27° $\overline{3}$ 56'26		conjunction	-3891 Mar 02 j 21:26	12° \approx 02'56	-1°59'33
				minimum elong	-3891 Mar 02 j 21:26	12° \approx 02'56	1°59'41
conjunction	-3897 Feb 17 j 11:11	28° $\overline{3}$ 32'00	-1°42'55	max. Earth dist.	-3891 Mar 03 j 17:44	12° \approx 04'50	30.82580 AU
minimum elong	-3897 Feb 17 j 11:11	28° $\overline{3}$ 32'00	1°43'04	morning rise	-3891 Mar 19 j 00:24	12° \approx 38'55	
max. Earth dist.	-3897 Feb 18 j 12:02	28° $\overline{3}$ 34'20	30.85246 AU	retrograde	-3891 Jun 18 j 12:09	14° \approx 37'42	
morning rise	-3897 Mar 05 j 12:10	29° $\overline{3}$ 07'54		min. Earth dist.	-3891 Sep 05 j 07:00	13° \approx 13'34	28.82560 AU
	-3897 Mar 30 j 21:33	0° \approx		opposition	-3891 Sep 06 j 01:10	13° \approx 12'17	-2°09'03
retrograde	-3897 Jun 05 j 04:08	1° \approx 07'01		direct	-3891 Nov 22 j 07:44	11° \approx 48'29	
	-3897 Aug 13 j 05:26	30° \overline{R} $\overline{3}$		evening set	-3890 Feb 17 j 11:15	13° \approx 42'08	
min. Earth dist.	-3897 Aug 23 j 06:12	29° $\overline{3}$ 43'13	28.85231 AU				
opposition	-3897 Aug 24 j 04:05	29° $\overline{3}$ 41'41	-1°51'48	conjunction	-3890 Mar 05 j 11:26	14° \approx 17'50	-2°01'43
direct	-3897 Nov 09 j 09:23	28° $\overline{3}$ 18'20		minimum elong	-3890 Mar 05 j 11:25	14° \approx 17'50	2°01'49
	-3896 Jan 29 j 18:40	0° \approx		max. Earth dist.	-3890 Mar 06 j 08:15	14° \approx 19'48	30.82262 AU
evening set	-3896 Feb 04 j 02:51	0° \approx 11'36		morning rise	-3890 Mar 21 j 14:30	14° \approx 53'50	
					-3890 Mar 24 j 10:26	15° \approx	
conjunction	-3896 Feb 20 j 00:36	0° \approx 47'11	-1°46'06	retrograde	-3890 Jun 21 j 00:32	16° \approx 52'32	
minimum elong	-3896 Feb 20 j 00:36	0° \approx 47'11	1°46'14	opposition	-3890 Sep 08 j 12:14	15° \approx 27'08	-2°11'15
max. Earth dist.	-3896 Feb 20 j 23:46	0° \approx 49'22	30.84943 AU	min. Earth dist.	-3890 Sep 07 j 17:44	15° \approx 28'27	28.82305 AU
morning rise	-3896 Mar 07 j 02:03	1° \approx 23'07			-3890 Sep 24 j 18:05	15° \overline{R} \approx	
retrograde	-3896 Jun 06 j 19:00	3° \approx 22'14		direct	-3890 Nov 24 j 19:08	14° \approx 03'16	
opposition	-3896 Aug 25 j 15:52	1° \approx 56'54	-1°55'08		-3889 Jan 22 j 18:10	15° \approx	
min. Earth dist.	-3896 Aug 24 j 18:21	1° \approx 58'24	28.84884 AU	evening set	-3889 Feb 20 j 00:53	15° \approx 57'00	
direct	-3896 Nov 10 j 21:10	0° \approx 33'30					
evening set	-3895 Feb 05 j 16:10	2° \approx 26'51		conjunction	-3889 Mar 08 j 01:15	16° \approx 32'42	-2°03'41
				minimum elong	-3889 Mar 08 j 01:15	16° \approx 32'42	2°03'48
conjunction	-3895 Feb 21 j 14:24	3° \approx 02'27	-1°49'08	max. Earth dist.	-3889 Mar 08 j 20:39	16° \approx 34'31	30.82075 AU
minimum elong	-3895 Feb 21 j 14:24	3° \approx 02'27	1°49'17	morning rise	-3889 Mar 24 j 04:44	17° \approx 08'43	
max. Earth dist.	-3895 Feb 22 j 13:33	3° \approx 04'38	30.84531 AU	retrograde	-3889 Jun 23 j 13:03	19° \approx 07'21	
morning rise	-3895 Mar 09 j 16:05	3° \approx 38'24		opposition	-3889 Sep 10 j 23:31	17° \approx 41'58	-2°13'15
retrograde	-3895 Jun 09 j 07:43	5° \approx 37'28		min. Earth dist.	-3889 Sep 10 j 05:49	17° \approx 43'13	28.82199 AU
min. Earth dist.	-3895 Aug 27 j 07:15	4° \approx 13'33	28.84429 AU	direct	-3889 Nov 27 j 05:22	16° \approx 18'03	
opposition	-3895 Aug 28 j 03:28	4° \approx 12'08	-1°58'17	evening set	-3888 Feb 22 j 14:17	18° \approx 11'52	
direct	-3895 Nov 13 j 09:13	2° \approx 48'40					
evening set	-3894 Feb 08 j 05:35	4° \approx 42'05		conjunction	-3888 Mar 09 j 15:11	18° \approx 47'36	-2°05'28
				minimum elong	-3888 Mar 09 j 15:11	18° \approx 47'36	2°05'34

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Attention, astronomical year style is used: The year -3888 in astronomical counting style is the year 3889 BCE in historical counting style.

max. Earth dist.	-3888 Mar 10 j 11:21	18° 49 '29	30.82031 AU	retrograde	-3882 Jul 09 j 10:16	4° 53 '00	
morning rise	-3888 Mar 25 j 18:47	19° 23 '36		opposition	-3882 Sep 26 j 05:12	3° 27 '57	-2°21'27
retrograde	-3888 Jun 25 j 01:00	21° 22 '11		min. Earth dist.	-3882 Sep 25 j 17:18	3° 28 '47	28.82633 AU
opposition	-3888 Sep 12 j 10:43	19° 56 '50	-2°15'04	direct	-3882 Dec 12 j 16:40	2° 03 '44	
min. Earth dist.	-3888 Sep 11 j 17:20	19° 58 '04	28.82213 AU	evening set	-3881 Mar 10 j 16:40	3° 58 '13	
direct	-3888 Nov 28 j 17:45	18° 32 '53					
evening set	-3887 Feb 24 j 04:06	20° 26 '48		conjunction	-3881 Mar 26 j 19:58	4° 34 '06	-2°12'26
				minimum elong	-3881 Mar 26 j 19:58	4° 34 '06	2°12'31
conjunction	-3887 Mar 12 j 05:14	21° 02 '33	-2°07'03	max. Earth dist.	-3881 Mar 27 j 09:36	4° 35 '23	30.82414 AU
minimum elong	-3887 Mar 12 j 05:14	21° 02 '33	2°07'10	morning rise	-3881 Apr 12 j 01:05	5° 10 '10	
max. Earth dist.	-3887 Mar 12 j 23:48	21° 04 '18	30.82107 AU	retrograde	-3881 Jul 11 j 22:33	7° 08 '08	
morning rise	-3887 Mar 28 j 09:15	21° 38 '34		opposition	-3881 Sep 28 j 16:03	5° 43 '06	-2°21'46
retrograde	-3887 Jun 27 j 15:21	23° 37 '06		min. Earth dist.	-3881 Sep 28 j 04:16	5° 43 '56	28.82524 AU
opposition	-3887 Sep 14 j 21:45	22° 11 '48	-2°16'39	direct	-3881 Dec 15 j 04:41	4° 18 '49	
min. Earth dist.	-3887 Sep 14 j 04:43	22° 13 '01	28.82337 AU	evening set	-3880 Mar 12 j 06:48	6° 13 '21	
direct	-3887 Dec 01 j 04:43	20° 47 '49					
evening set	-3886 Feb 26 j 18:00	22° 41 '51		conjunction	-3880 Mar 28 j 10:16	6° 49 '14	-2°12'38
				minimum elong	-3880 Mar 28 j 10:17	6° 49 '14	2°12'42
conjunction	-3886 Mar 14 j 19:34	23° 17 '38	-2°08'27	max. Earth dist.	-3880 Mar 28 j 22:05	6° 50 '21	30.82316 AU
minimum elong	-3886 Mar 14 j 19:34	23° 17 '38	2°08'33	morning rise	-3880 Apr 13 j 15:47	7° 25 '19	
max. Earth dist.	-3886 Mar 15 j 14:15	23° 19 '23	30.82249 AU	retrograde	-3880 Jul 13 j 10:09	9° 23 '10	
morning rise	-3886 Mar 30 j 23:41	23° 53 '40		opposition	-3880 Sep 30 j 02:56	7° 58 '08	-2°21'52
retrograde	-3886 Jun 30 j 04:01	25° 52 '07		min. Earth dist.	-3880 Sep 29 j 16:25	7° 58 '53	28.82450 AU
opposition	-3886 Sep 17 j 08:56	24° 26 '54	-2°18'02	direct	-3880 Dec 16 j 15:28	6° 33 '46	
min. Earth dist.	-3886 Sep 16 j 17:12	24° 28 '01	28.82495 AU	evening set	-3879 Mar 14 j 20:56	8° 28 '23	
direct	-3886 Dec 03 j 16:36	23° 02 '54					
evening set	-3885 Mar 01 j 07:55	24° 57 '03		conjunction	-3879 Mar 31 j 00:55	9° 04 '17	-2°12'38
				minimum elong	-3879 Mar 31 j 00:55	9° 04 '17	2°12'42
conjunction	-3885 Mar 17 j 09:46	25° 32 '50	-2°09'39	max. Earth dist.	-3879 Mar 31 j 13:03	9° 05 '25	30.82268 AU
minimum elong	-3885 Mar 17 j 09:46	25° 32 '50	2°09'45	morning rise	-3879 Apr 16 j 06:26	9° 40 '21	
max. Earth dist.	-3885 Mar 18 j 03:05	25° 34 '28	30.82411 AU	retrograde	-3879 Jul 15 j 21:02	11° 38 '04	
morning rise	-3885 Apr 02 j 14:09	26° 08 '52		opposition	-3879 Oct 02 j 13:34	10° 13 '03	-2°21'45
retrograde	-3885 Jul 02 j 19:16	28° 07 '16		min. Earth dist.	-3879 Oct 02 j 03:41	10° 13 '46	28.82439 AU
opposition	-3885 Sep 19 j 20:00	26° 42 '06	-2°19'12	direct	-3879 Dec 19 j 03:47	8° 48 '36	
min. Earth dist.	-3885 Sep 19 j 04:21	26° 43 '13	28.82644 AU	evening set	-3878 Mar 17 j 11:13	10° 43 '18	
direct	-3885 Dec 06 j 05:33	25° 18 '05					
evening set	-3884 Mar 02 j 22:04	27° 12 '20		conjunction	-3878 Apr 02 j 15:21	11° 19 '13	-2°12'26
				minimum elong	-3878 Apr 02 j 15:21	11° 19 '13	2°12'29
conjunction	-3884 Mar 19 j 00:14	27° 48 '09	-2°10'39	max. Earth dist.	-3878 Apr 03 j 01:37	11° 20 '10	30.82318 AU
minimum elong	-3884 Mar 19 j 00:13	27° 48 '09	2°10'44	morning rise	-3878 Apr 18 j 21:11	11° 55 '17	
max. Earth dist.	-3884 Mar 19 j 16:44	27° 49 '42	30.82521 AU	retrograde	-3878 Jul 18 j 10:23	13° 52 '52	
morning rise	-3884 Apr 04 j 04:49	28° 24 '12		opposition	-3878 Oct 05 j 00:17	12° 27 '54	-2°21'26
	-3884 May 28 j 03:22	0° 00 '		min. Earth dist.	-3878 Oct 04 j 14:42	12° 28 '35	28.82557 AU
retrograde	-3884 Jul 04 j 07:43	0° 22 '31		direct	-3878 Dec 21 j 14:30	11° 03 '22	
	-3884 Aug 10 j 21:19	30° 00 '		evening set	-3877 Mar 20 j 01:11	12° 58 '09	
opposition	-3884 Sep 21 j 07:10	28° 57 '24	-2°20'10				
min. Earth dist.	-3884 Sep 20 j 17:28	28° 58 '22	28.82723 AU	conjunction	-3877 Apr 05 j 05:43	13° 34 '04	-2°12'02
direct	-3884 Dec 07 j 17:06	27° 33 '19		minimum elong	-3877 Apr 05 j 05:43	13° 34 '04	2°12'05
evening set	-3883 Mar 05 j 12:14	29° 27 '40		max. Earth dist.	-3877 Apr 05 j 16:18	13° 35 '03	30.82497 AU
	-3883 Mar 20 j 01:24	0° 00 '		morning rise	-3877 Apr 21 j 11:33	14° 10 '09	
				retrograde	-3877 Jul 20 j 21:39	16° 07 '37	
conjunction	-3883 Mar 21 j 14:50	0° 03 '30	-2°11'26	opposition	-3877 Oct 07 j 11:01	14° 42 '41	-2°20'53
minimum elong	-3883 Mar 21 j 14:50	0° 03 '30	2°11'32	min. Earth dist.	-3877 Oct 07 j 02:29	14° 43 '17	28.82810 AU
max. Earth dist.	-3883 Mar 22 j 06:21	0° 04 '57	30.82564 AU	direct	-3877 Dec 24 j 02:37	13° 18 '07	
morning rise	-3883 Apr 06 j 19:38	0° 39 '34		evening set	-3876 Mar 21 j 15:22	15° 12 '58	
retrograde	-3883 Jul 06 j 21:33	2° 37 '46					
opposition	-3883 Sep 23 j 18:11	1° 12 '42	-2°20'55	conjunction	-3876 Apr 06 j 20:08	15° 48 '55	-2°11'25
min. Earth dist.	-3883 Sep 23 j 04:28	1° 13 '40	28.82713 AU	minimum elong	-3876 Apr 06 j 20:08	15° 48 '55	2°11'28
	-3883 Nov 14 j 04:32	30° 00 '		max. Earth dist.	-3876 Apr 07 j 05:22	15° 49 '46	30.82842 AU
direct	-3883 Dec 10 j 06:05	29° 48 '34		morning rise	-3876 Apr 23 j 02:15	16° 24 '59	
	-3882 Jan 04 j 23:08	0° 00 '		retrograde	-3876 Jul 22 j 11:52	18° 22 '20	
evening set	-3882 Mar 08 j 02:33	1° 42 '59		opposition	-3876 Oct 08 j 21:31	16° 57 '28	-2°20'08
				min. Earth dist.	-3876 Oct 08 j 12:48	16° 58 '05	28.83229 AU
conjunction	-3882 Mar 24 j 05:21	2° 18 '50	-2°12'02	direct	-3876 Dec 25 j 15:53	15° 32 '51	
minimum elong	-3882 Mar 24 j 05:21	2° 18 '50	2°12'07	evening set	-3875 Mar 24 j 05:37	17° 27 '49	
max. Earth dist.	-3882 Mar 24 j 19:09	2° 20 '08	30.82508 AU				
morning rise	-3882 Apr 09 j 10:25	2° 54 '54		conjunction	-3875 Apr 09 j 10:43	18° 03 '47	-2°10'37

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Attention, astronomical year style is used: The year -3875 in astronomical counting style is the year 3876 BCE in historical counting style.

minimum elong	-3875 Apr 09 j 10:43	18° H 03'47	2°10'40	opposition	-3869 Oct 24 j 23:53	2° Y 42'14	-2°08'54
max. Earth dist.	-3875 Apr 09 j 19:36	18° H 04'36	30.83328 AU	min. Earth dist.	-3869 Oct 24 j 22:09	2° Y 42'21	28.87173 AU
morning rise	-3875 Apr 25 j 16:55	18° H 39'51		direct	-3868 Jan 11 j 02:28	1° Y 17'23	
retrograde	-3875 Jul 24 j 23:37	20° H 37'05		evening set	-3868 Apr 09 j 10:24	3° Y 12'52	
opposition	-3875 Oct 11 j 08:14	19° H 12'18	-2°19'09				
min. Earth dist.	-3875 Oct 11 j 01:11	19° H 12'48	28.83777 AU	conjunction	-3868 Apr 25 j 17:18	3° Y 48'54	-1°59'28
direct	-3875 Dec 28 j 03:36	17° H 47'41		minimum elong	-3868 Apr 25 j 17:18	3° Y 48'54	1°59'28
evening set	-3874 Mar 26 j 19:52	19° H 42'45		max. Earth dist.	-3868 Apr 25 j 18:35	3° Y 49'02	30.87236 AU
				morning rise	-3868 May 12 j 00:04	4° Y 24'59	
conjunction	-3874 Apr 12 j 01:16	20° H 18'43	-2°09'36	retrograde	-3868 Aug 09 j 12:40	6° Y 21'11	
minimum elong	-3874 Apr 12 j 01:16	20° H 18'43	2°09'38	opposition	-3868 Oct 26 j 10:18	4° Y 56'53	-2°06'31
max. Earth dist.	-3874 Apr 12 j 09:20	20° H 19'28	30.83938 AU	min. Earth dist.	-3868 Oct 26 j 10:09	4° Y 56'53	28.87560 AU
morning rise	-3874 Apr 28 j 07:35	20° H 54'48		direct	-3867 Jan 12 j 14:58	3° Y 31'58	
retrograde	-3874 Jul 27 j 13:45	22° H 51'55		evening set	-3867 Apr 12 j 00:51	5° Y 27'28	
opposition	-3874 Oct 13 j 18:43	21° H 27'14	-2°17'58				
min. Earth dist.	-3874 Oct 13 j 11:29	21° H 27'45	28.84417 AU	conjunction	-3867 Apr 28 j 07:51	6° Y 03'31	-1°57'08
direct	-3874 Dec 30 j 16:30	20° H 02'36		minimum elong	-3867 Apr 28 j 07:52	6° Y 03'31	1°57'07
evening set	-3873 Mar 29 j 10:16	21° H 57'46		max. Earth dist.	-3867 Apr 28 j 07:14	6° Y 03'28	30.87645 AU
				morning rise	-3867 May 14 j 14:48	6° Y 39'35	
conjunction	-3873 Apr 14 j 15:50	22° H 33'46	-2°08'23	retrograde	-3867 Aug 12 j 01:24	8° Y 35'37	
minimum elong	-3873 Apr 14 j 15:51	22° H 33'46	2°08'25	opposition	-3867 Oct 28 j 20:40	7° Y 11'19	-2°03'55
max. Earth dist.	-3873 Apr 14 j 22:32	22° H 34'23	30.84602 AU	min. Earth dist.	-3867 Oct 28 j 20:35	7° Y 11'20	28.87980 AU
morning rise	-3873 Apr 30 j 22:18	23° H 09'51		direct	-3866 Jan 15 j 04:11	5° Y 46'20	
retrograde	-3873 Jul 30 j 03:11	25° H 06'51		evening set	-3866 Apr 14 j 15:07	7° Y 41'53	
opposition	-3873 Oct 16 j 05:24	23° H 42'15	-2°16'33				
min. Earth dist.	-3873 Oct 15 j 23:58	23° H 42'38	28.85094 AU	conjunction	-3866 Apr 30 j 22:19	8° Y 17'57	-1°54'37
direct	-3872 Jan 02 j 03:34	22° H 17'37		minimum elong	-3866 Apr 30 j 22:20	8° Y 17'57	1°54'37
evening set	-3872 Mar 31 j 00:33	24° H 12'52		max. Earth dist.	-3866 Apr 30 j 21:22	8° Y 17'51	30.88089 AU
				morning rise	-3866 May 17 j 05:09	8° Y 54'00	
conjunction	-3872 Apr 16 j 06:32	24° H 48'53	-2°06'59	retrograde	-3866 Aug 14 j 12:02	10° Y 49'51	
minimum elong	-3872 Apr 16 j 06:32	24° H 48'53	2°07'00	opposition	-3866 Oct 31 j 07:07	9° Y 25'36	-2°01'09
max. Earth dist.	-3872 Apr 16 j 12:45	24° H 49'28	30.85274 AU	min. Earth dist.	-3866 Oct 31 j 08:46	9° Y 25'29	28.88467 AU
morning rise	-3872 May 02 j 13:02	25° H 24'58		direct	-3865 Jan 17 j 15:59	8° Y 00'33	
retrograde	-3872 Jul 31 j 15:31	27° H 21'50		evening set	-3865 Apr 17 j 05:19	9° Y 56'09	
opposition	-3872 Oct 17 j 16:00	25° H 57'20	-2°14'57				
min. Earth dist.	-3872 Oct 17 j 10:58	25° H 57'42	28.85727 AU	conjunction	-3865 May 03 j 12:40	10° Y 32'13	-1°51'57
direct	-3871 Jan 03 j 16:23	24° H 32'41		minimum elong	-3865 May 03 j 12:41	10° Y 32'13	1°51'55
evening set	-3871 Apr 02 j 15:13	26° H 28'00		max. Earth dist.	-3865 May 03 j 10:48	10° Y 32'02	30.88642 AU
				morning rise	-3865 May 19 j 19:34	11° Y 08'15	
conjunction	-3871 Apr 18 j 21:16	27° H 04'02	-2°05'23	retrograde	-3865 Aug 17 j 01:10	13° Y 03'56	
minimum elong	-3871 Apr 18 j 21:17	27° H 04'02	2°05'23	opposition	-3865 Nov 02 j 17:22	11° Y 39'45	-1°58'12
max. Earth dist.	-3871 Apr 19 j 01:14	27° H 04'24	30.85873 AU	min. Earth dist.	-3865 Nov 02 j 18:40	11° Y 39'39	28.89073 AU
morning rise	-3871 May 05 j 03:59	27° H 40'07		direct	-3864 Jan 20 j 05:31	10° Y 14'39	
retrograde	-3871 Aug 03 j 03:22	29° H 36'51		evening set	-3864 Apr 18 j 19:29	12° Y 10'18	
opposition	-3871 Oct 20 j 02:39	28° H 12'24	-2°13'08				
min. Earth dist.	-3871 Oct 19 j 23:11	28° H 12'39	28.86289 AU	conjunction	-3864 May 05 j 02:58	12° Y 46'22	-1°49'06
direct	-3870 Jan 06 j 03:20	26° H 47'42		minimum elong	-3864 May 05 j 02:58	12° Y 46'22	1°49'04
evening set	-3870 Apr 05 j 05:40	28° H 43'06		max. Earth dist.	-3864 May 05 j 00:04	12° Y 46'06	30.89313 AU
				morning rise	-3864 May 21 j 09:52	13° Y 22'24	
conjunction	-3870 Apr 21 j 12:08	29° H 19'08	-2°03'36	retrograde	-3864 Aug 18 j 13:33	15° Y 17'57	
minimum elong	-3870 Apr 21 j 12:09	29° H 19'08	2°03'36	opposition	-3864 Nov 04 j 03:49	13° Y 53'49	-1°55'04
max. Earth dist.	-3870 Apr 21 j 15:54	29° H 19'29	30.86392 AU	min. Earth dist.	-3864 Nov 04 j 06:34	13° Y 53'37	28.89814 AU
morning rise	-3870 May 07 j 18:45	29° H 55'13		direct	-3863 Jan 21 j 17:19	12° Y 28'42	
	-3870 May 09 j 23:45	0° Y		evening set	-3863 Apr 21 j 09:40	14° Y 24'25	
retrograde	-3870 Aug 05 j 14:25	1° Y 51'46					
opposition	-3870 Oct 22 j 13:18	0° Y 27'24	-2°11'07	conjunction	-3863 May 07 j 17:22	15° Y 00'30	-1°46'05
min. Earth dist.	-3870 Oct 22 j 10:52	0° Y 27'34	28.86756 AU	minimum elong	-3863 May 07 j 17:23	15° Y 00'30	1°46'03
	-3870 Nov 07 j 20:45	30° R H		max. Earth dist.	-3863 May 07 j 14:14	15° Y 00'12	30.90131 AU
direct	-3869 Jan 08 j 15:32	29° H 02'38		morning rise	-3863 May 24 j 00:10	15° Y 36'31	
	-3869 Mar 09 j 18:52	0° Y		retrograde	-3863 Aug 21 j 01:21	17° Y 31'55	
evening set	-3869 Apr 07 j 20:03	0° Y 58'04		opposition	-3863 Nov 06 j 14:04	16° Y 07'53	-1°51'45
				min. Earth dist.	-3863 Nov 06 j 16:49	16° Y 07'41	28.90681 AU
conjunction	-3869 Apr 24 j 02:35	1° Y 34'06	-2°01'37	direct	-3862 Jan 24 j 06:33	14° Y 42'46	
minimum elong	-3869 Apr 24 j 02:35	1° Y 34'06	2°01'37	evening set	-3862 Apr 23 j 23:58	16° Y 38'35	
max. Earth dist.	-3869 Apr 24 j 04:01	1° Y 34'14	30.86836 AU				
morning rise	-3869 May 10 j 09:27	2° Y 10'11		conjunction	-3862 May 10 j 07:37	17° Y 14'39	-1°42'55
retrograde	-3869 Aug 08 j 02:51	4° Y 06'35		minimum elong	-3862 May 10 j 07:38	17° Y 14'39	1°42'53

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Attention, astronomical year style is used: The year -3862 in astronomical counting style is the year 3863 BCE in historical counting style.

max. Earth dist.	-3862 May 10 j 02:50	17° Υ 14'13	30.91066 AU	min. Earth dist.	-3856 Nov 22 j 00:32	1° 8 47'02	28.96777 AU
morning rise	-3862 May 26 j 14:29	17° Υ 50'41		direct	-3855 Feb 08 j 18:11	0° 8 22'29	
retrograde	-3862 Aug 23 j 13:23	19° Υ 45'56		evening set	-3855 May 10 j 03:21	2° 8 18'42	
opposition	-3862 Nov 09 j 00:30	18° Υ 22'02	-1°48'16				
min. Earth dist.	-3862 Nov 09 j 04:22	18° Υ 21'45	28.91665 AU	conjunction	-3855 May 26 j 11:12	2° 8 54'46	-1°16'39
direct	-3861 Jan 26 j 17:16	16° Υ 56'56		minimum elong	-3855 May 26 j 11:13	2° 8 54'46	1°16'33
evening set	-3861 Apr 26 j 13:56	18° Υ 52'49		max. Earth dist.	-3855 May 25 j 22:47	2° 8 53'37	30.97014 AU
				morning rise	-3855 Jun 11 j 17:04	3° 8 30'42	
conjunction	-3861 May 12 j 21:51	19° Υ 28'55	-1°39'35	retrograde	-3855 Sep 07 j 20:16	5° 8 24'56	
minimum elong	-3861 May 12 j 21:52	19° Υ 28'55	1°39'31	opposition	-3855 Nov 24 j 01:22	4° 8 01'34	-1°19'42
max. Earth dist.	-3861 May 12 j 17:19	19° Υ 28'29	30.92087 AU	min. Earth dist.	-3855 Nov 24 j 12:38	4° 8 00'46	28.97374 AU
morning rise	-3861 May 29 j 04:30	20° Υ 04'55		direct	-3854 Feb 11 j 06:55	2° 8 36'17	
retrograde	-3861 Aug 26 j 00:37	22° Υ 00'04		evening set	-3854 May 12 j 17:14	4° 8 32'31	
opposition	-3861 Nov 11 j 10:53	20° Υ 36'17	-1°44'37				
min. Earth dist.	-3861 Nov 11 j 15:40	20° Υ 35'56	28.92687 AU	conjunction	-3854 May 29 j 01:05	5° 8 08'34	-1°12'24
direct	-3860 Jan 29 j 05:11	19° Υ 11'12		minimum elong	-3854 May 29 j 01:06	5° 8 08'34	1°12'19
evening set	-3860 Apr 28 j 04:19	21° Υ 07'10		max. Earth dist.	-3854 May 28 j 12:14	5° 8 07'23	30.97621 AU
				morning rise	-3854 Jun 14 j 06:43	5° 8 44'28	
conjunction	-3860 May 14 j 12:08	21° Υ 43'16	-1°36'05	retrograde	-3854 Sep 10 j 07:24	7° 8 38'31	
minimum elong	-3860 May 14 j 12:08	21° Υ 43'16	1°36'03	opposition	-3854 Nov 26 j 11:41	6° 8 15'11	-1°15'06
max. Earth dist.	-3860 May 14 j 05:22	21° Υ 42'38	30.93116 AU	min. Earth dist.	-3854 Nov 26 j 23:01	6° 8 14'23	28.97982 AU
morning rise	-3860 May 30 j 18:52	22° Υ 19'17		direct	-3853 Feb 13 j 21:01	4° 8 49'51	
retrograde	-3860 Aug 27 j 12:49	24° Υ 14'17		evening set	-3853 May 15 j 06:57	6° 8 46'05	
opposition	-3860 Nov 12 j 21:11	22° Υ 50'38	-1°40'49				
min. Earth dist.	-3860 Nov 13 j 02:42	22° Υ 50'14	28.93697 AU	conjunction	-3853 May 31 j 14:35	7° 8 22'07	-1°08'04
direct	-3859 Jan 30 j 15:36	21° Υ 25'33		minimum elong	-3853 May 31 j 14:35	7° 8 22'07	1°07'57
evening set	-3859 Apr 30 j 18:38	23° Υ 21'36		max. Earth dist.	-3853 May 31 j 00:15	7° 8 20'48	30.98259 AU
				morning rise	-3853 Jun 16 j 20:05	7° 8 58'00	
conjunction	-3859 May 17 j 02:38	23° Υ 57'42	-1°32'28	retrograde	-3853 Sep 12 j 19:08	9° 8 51'53	
minimum elong	-3859 May 17 j 02:38	23° Υ 57'42	1°32'24	opposition	-3853 Nov 28 j 22:01	8° 8 28'35	-1°10'25
max. Earth dist.	-3859 May 16 j 19:38	23° Υ 57'03	30.94087 AU	min. Earth dist.	-3853 Nov 29 j 10:19	8° 8 27'42	28.98662 AU
morning rise	-3859 Jun 02 j 09:04	24° Υ 33'42		direct	-3852 Feb 16 j 08:41	7° 8 03'11	
retrograde	-3859 Aug 29 j 22:18	26° Υ 28'35		evening set	-3852 May 16 j 20:36	8° 8 59'25	
opposition	-3859 Nov 15 j 07:45	25° Υ 05'01	-1°36'51				
min. Earth dist.	-3859 Nov 15 j 14:58	25° Υ 04'30	28.94616 AU	conjunction	-3852 Jun 02 j 04:16	9° 8 35'27	-1°03'37
direct	-3858 Feb 02 j 03:55	23° Υ 39'56		minimum elong	-3852 Jun 02 j 04:16	9° 8 35'27	1°03'32
evening set	-3858 May 03 j 08:55	25° Υ 36'03		max. Earth dist.	-3852 Jun 01 j 14:20	9° 8 34'10	30.98986 AU
				morning rise	-3852 Jun 18 j 09:22	10° 8 11'18	
conjunction	-3858 May 19 j 16:47	26° Υ 12'09	-1°28'41	retrograde	-3852 Sep 14 j 05:46	12° 8 05'01	
minimum elong	-3858 May 19 j 16:47	26° Υ 12'09	1°28'38	opposition	-3852 Nov 30 j 08:16	10° 8 41'46	-1°05'37
max. Earth dist.	-3858 May 19 j 07:35	26° Υ 11'17	30.94963 AU	min. Earth dist.	-3852 Nov 30 j 21:09	10° 8 40'51	28.99432 AU
morning rise	-3858 Jun 04 j 23:13	26° Υ 48'08		direct	-3851 Feb 17 j 22:03	9° 8 16'20	
retrograde	-3858 Sep 01 j 10:32	28° Υ 42'52		evening set	-3851 May 19 j 10:24	11° 8 12'35	
opposition	-3858 Nov 17 j 18:10	27° Υ 19'23	-1°32'46				
min. Earth dist.	-3858 Nov 18 j 01:38	27° Υ 18'51	28.95432 AU	conjunction	-3851 Jun 04 j 17:44	11° 8 48'36	-0°59'05
direct	-3857 Feb 04 j 16:29	25° Υ 54'16		minimum elong	-3851 Jun 04 j 17:44	11° 8 48'36	0°58'59
evening set	-3857 May 05 j 23:06	27° Υ 50'25		max. Earth dist.	-3851 Jun 04 j 02:09	11° 8 47'10	30.99828 AU
				morning rise	-3851 Jun 20 j 22:42	12° 8 24'26	
conjunction	-3857 May 22 j 07:04	28° Υ 26'31	-1°24'48	retrograde	-3851 Sep 16 j 16:50	14° 8 18'00	
minimum elong	-3857 May 22 j 07:04	28° Υ 26'31	1°24'43	opposition	-3851 Dec 02 j 18:36	12° 8 54'49	-1°00'43
max. Earth dist.	-3857 May 21 j 21:16	28° Υ 25'36	30.95725 AU	min. Earth dist.	-3851 Dec 03 j 07:32	12° 8 53'54	29.00342 AU
morning rise	-3857 Jun 07 j 13:13	29° Υ 02'29		direct	-3850 Feb 20 j 09:24	11° 8 29'22	
	-3857 Jul 06 j 07:05	0° 8		evening set	-3850 May 21 j 23:48	13° 8 25'39	
retrograde	-3857 Sep 03 j 20:39	0° 8 57'04					
	-3857 Nov 04 j 09:39	30° R Υ		conjunction	-3850 Jun 07 j 07:06	14° 8 01'39	-0°54'28
opposition	-3857 Nov 20 j 04:38	29° Υ 33'38	-1°28'32	minimum elong	-3850 Jun 07 j 07:07	14° 8 01'39	0°54'22
min. Earth dist.	-3857 Nov 20 j 14:10	29° Υ 32'58	28.96145 AU	max. Earth dist.	-3850 Jun 06 j 16:07	14° 8 00'16	31.00799 AU
direct	-3856 Feb 07 j 03:40	28° Υ 08'28		morning rise	-3850 Jun 23 j 11:35	14° 8 37'27	
	-3856 May 05 j 09:20	0° 8			-3850 Jul 04 j 02:47	15° 8	
evening set	-3856 May 07 j 13:14	0° 8 04'40		retrograde	-3850 Sep 19 j 01:39	16° 8 30'53	
				opposition	-3850 Dec 05 j 05:01	15° 8 07'48	-0°55'44
conjunction	-3856 May 23 j 21:11	0° 8 40'45	-1°20'47	min. Earth dist.	-3850 Dec 05 j 19:03	15° 8 06'48	29.01362 AU
minimum elong	-3856 May 23 j 21:11	0° 8 40'45	1°20'42		-3850 Dec 09 j 19:33	15° R 8	
max. Earth dist.	-3856 May 23 j 09:56	0° 8 39'42	30.96408 AU	direct	-3849 Feb 22 j 21:17	13° 8 42'22	
morning rise	-3856 Jun 09 j 03:17	1° 8 16'42			-3849 May 05 j 20:28	15° 8	
retrograde	-3856 Sep 05 j 08:56	3° 8 11'06		evening set	-3849 May 24 j 13:26	15° 8 38'41	
opposition	-3856 Nov 21 j 14:58	1° 8 47'43	-1°24'10				

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Attention, astronomical year style is used: The year -3849 in astronomical counting style is the year 3850 BCE in historical counting style.

conjunction	-3849 Jun 09 j 20:23	16° 8 14'41	-0°49'46	min. Earth dist.	-3843 Dec 21 j 01:34	0° II 37'05	29.07981 AU
minimum elong	-3849 Jun 09 j 20:23	16° 8 14'41	0°49'39		-3842 Jan 12 j 23:48	30° R 8	
max. Earth dist.	-3849 Jun 09 j 03:49	16° 8 13'08	31.01881 AU	direct	-3842 Mar 10 j 12:55	29° 8 13'00	
morning rise	-3849 Jun 26 j 00:43	16° 8 50'27			-3842 May 04 j 12:25	0° II	
retrograde	-3849 Sep 21 j 13:22	18° 8 43'46		evening set	-3842 Jun 09 j 11:23	1° II 09'34	
opposition	-3849 Dec 07 j 15:11	17° 8 20'47	-0°50'40				
min. Earth dist.	-3849 Dec 08 j 05:01	17° 8 19'48	29.02473 AU	conjunction	-3842 Jun 25 j 16:05	1° II 45'23	-0°15'16
direct	-3848 Feb 25 j 08:37	15° 8 55'21		minimum elong	-3842 Jun 25 j 16:05	1° II 45'23	0°15'08
evening set	-3848 May 26 j 02:58	17° 8 51'45		behind sun begin	-3842 Jun 25 j 14:05	1° II 45'13	
				behind sun end	-3842 Jun 25 j 18:06	1° II 45'34	
conjunction	-3848 Jun 11 j 09:48	18° 8 27'43	-0°44'59	max. Earth dist.	-3842 Jun 24 j 17:42	1° II 43'19	31.08296 AU
minimum elong	-3848 Jun 11 j 09:49	18° 8 27'43	0°44'53	morning rise	-3842 Jul 11 j 17:30	2° II 20'56	
max. Earth dist.	-3848 Jun 10 j 17:13	18° 8 26'11	31.03004 AU	retrograde	-3842 Oct 06 j 17:36	4° II 13'30	
morning rise	-3848 Jun 27 j 13:39	19° 8 03'28		opposition	-3842 Dec 22 j 16:49	2° II 50'58	-0°13'37
retrograde	-3848 Sep 22 j 22:57	20° 8 56'42		min. Earth dist.	-3842 Dec 23 j 12:08	2° II 49'36	29.08654 AU
opposition	-3848 Dec 09 j 01:41	19° 8 33'48	-0°45'32	direct	-3841 Mar 13 j 00:55	1° II 25'29	
min. Earth dist.	-3848 Dec 09 j 17:19	19° 8 32'42	29.03594 AU	evening set	-3841 Jun 12 j 00:17	3° II 22'04	
direct	-3847 Feb 26 j 19:09	18° 8 08'24		max. Earth dist.	-3841 Jun 27 j 07:01	3° II 55'50	31.08966 AU
evening set	-3847 May 28 j 16:35	20° 8 04'51					
				conjunction	-3841 Jun 28 j 04:46	3° II 57'51	-0°10'13
conjunction	-3847 Jun 13 j 23:04	20° 8 40'48	-0°40'08	minimum elong	-3841 Jun 28 j 04:46	3° II 57'51	0°10'04
minimum elong	-3847 Jun 13 j 23:04	20° 8 40'48	0°40'00	behind sun begin	-3841 Jun 27 j 23:31	3° II 57'23	
max. Earth dist.	-3847 Jun 13 j 05:17	20° 8 39'09	31.04113 AU	behind sun end	-3841 Jun 28 j 10:00	3° II 58'19	
morning rise	-3847 Jun 30 j 02:37	21° 8 16'31		morning rise	-3841 Jul 14 j 05:32	4° II 33'21	
retrograde	-3847 Sep 25 j 10:27	23° 8 09'39		retrograde	-3841 Oct 09 j 01:53	6° II 25'48	
opposition	-3847 Dec 11 j 12:06	21° 8 46'51	-0°40'19	opposition	-3841 Dec 25 j 03:15	5° II 03'18	-0°08'13
min. Earth dist.	-3847 Dec 12 j 03:35	21° 8 45'45	29.04663 AU	min. Earth dist.	-3841 Dec 25 j 23:43	5° II 01'52	29.09339 AU
direct	-3846 Mar 01 j 09:00	20° 8 21'28		direct	-3840 Mar 14 j 13:16	3° II 37'47	
evening set	-3846 May 31 j 06:09	22° 8 17'57		evening set	-3840 Jun 13 j 13:16	5° II 34'22	
conjunction	-3846 Jun 16 j 12:20	22° 8 53'53	-0°35'14	conjunction	-3840 Jun 29 j 17:08	6° II 10'07	-0°05'11
minimum elong	-3846 Jun 16 j 12:21	22° 8 53'53	0°35'07	minimum elong	-3840 Jun 29 j 17:08	6° II 10'07	0°05'03
max. Earth dist.	-3846 Jun 15 j 17:38	22° 8 52'09	31.05137 AU	behind sun begin	-3840 Jun 29 j 10:46	6° II 09'33	
morning rise	-3846 Jul 02 j 15:26	23° 8 29'34		behind sun end	-3840 Jun 29 j 23:30	6° II 10'41	
retrograde	-3846 Sep 27 j 21:30	25° 8 22'37		max. Earth dist.	-3840 Jun 28 j 18:02	6° II 07'58	31.09687 AU
opposition	-3846 Dec 13 j 22:43	23° 8 59'53	-0°35'03	morning rise	-3840 Jul 15 j 17:34	6° II 45'34	
min. Earth dist.	-3846 Dec 14 j 15:49	23° 8 58'41	29.05650 AU	retrograde	-3840 Oct 10 j 13:02	8° II 37'55	
direct	-3845 Mar 03 j 20:50	22° 8 34'30		opposition	-3840 Dec 26 j 13:43	7° II 15'27	-0°02'48
evening set	-3845 Jun 02 j 19:28	24° 8 31'02		min. Earth dist.	-3840 Dec 27 j 09:33	7° II 14'04	29.10100 AU
max. Earth dist.	-3845 Jun 18 j 06:09	25° 8 05'09	31.06073 AU	direct	-3839 Mar 17 j 00:42	5° II 49'55	
				evening set	-3839 Jun 16 j 01:58	7° II 46'30	
conjunction	-3845 Jun 19 j 01:25	25° 8 06'56	-0°30'18	max. Earth dist.	-3839 Jul 01 j 06:56	8° II 20'08	31.10490 AU
minimum elong	-3845 Jun 19 j 01:25	25° 8 06'56	0°30'09				
morning rise	-3845 Jul 05 j 04:07	25° 8 42'36		conjunction	-3839 Jul 02 j 05:29	8° II 22'13	-0°00'02
retrograde	-3845 Sep 30 j 08:30	27° 8 35'31		minimum elong	-3839 Jul 02 j 05:28	8° II 22'13	0°00'07
opposition	-3845 Dec 16 j 09:14	26° 8 12'52	-0°29'45	behind sun begin	-3839 Jul 01 j 23:06	8° II 21'39	
min. Earth dist.	-3845 Dec 17 j 02:34	26° 8 11'39	29.06517 AU	behind sun end	-3839 Jul 02 j 11:50	8° II 22'47	
direct	-3844 Mar 05 j 10:45	24° 8 47'28		asc. node	-3839 Jul 05 j 06:51	8° II 29'03	
evening set	-3844 Jun 04 j 09:00	26° 8 44'02		morning rise	-3839 Jul 18 j 05:11	8° II 57'38	
				retrograde	-3839 Oct 12 j 21:26	10° II 49'54	
conjunction	-3844 Jun 20 j 14:29	27° 8 19'54	-0°25'19	opposition	-3839 Dec 29 j 00:23	9° II 27'29	0°02'37
minimum elong	-3844 Jun 20 j 14:30	27° 8 19'54	0°25'11	min. Earth dist.	-3839 Dec 29 j 21:22	9° II 26'01	29.10970 AU
max. Earth dist.	-3844 Jun 19 j 17:31	27° 8 17'58	31.06888 AU	direct	-3838 Mar 19 j 11:06	8° II 01'57	
morning rise	-3844 Jul 06 j 16:48	27° 8 55'31		evening set	-3838 Jun 18 j 14:39	9° II 58'32	
retrograde	-3844 Oct 01 j 20:19	29° 8 48'20					
opposition	-3844 Dec 17 j 19:43	28° 8 25'43	-0°24'24	conjunction	-3838 Jul 04 j 17:35	10° II 34'13	0°05'06
min. Earth dist.	-3844 Dec 18 j 14:11	28° 8 24'26	29.07291 AU	minimum elong	-3838 Jul 04 j 17:35	10° II 34'13	0°05'14
direct	-3843 Mar 07 j 22:48	27° 8 00'18		behind sun begin	-3838 Jul 04 j 11:15	10° II 33'39	
evening set	-3843 Jun 06 j 22:16	28° 8 56'53		behind sun end	-3838 Jul 04 j 23:56	10° II 34'47	
max. Earth dist.	-3843 Jun 22 j 06:48	29° 8 30'49	31.07620 AU	max. Earth dist.	-3838 Jul 03 j 18:35	10° II 32'05	31.11430 AU
				morning rise	-3838 Jul 20 j 16:52	11° II 09'36	
conjunction	-3843 Jun 23 j 03:32	29° 8 32'44	-0°20'18	retrograde	-3838 Oct 15 j 07:38	13° II 01'47	
minimum elong	-3843 Jun 23 j 03:32	29° 8 32'44	0°20'09	opposition	-3838 Dec 31 j 10:52	11° II 39'26	0°08'02
	-3843 Jul 05 j 09:57	0° II		min. Earth dist.	-3837 Jan 01 j 07:00	11° II 38'02	29.11968 AU
morning rise	-3843 Jul 09 j 05:16	0° II 08'19		direct	-3837 Mar 22 j 00:18	10° II 13'55	
retrograde	-3843 Oct 04 j 06:52	2° II 01'00		evening set	-3837 Jun 21 j 03:09	12° II 10'32	
opposition	-3843 Dec 20 j 06:20	0° II 38'26	-0°19'01	max. Earth dist.	-3837 Jul 06 j 06:32	12° II 44'03	31.12481 AU

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Attention, astronomical year style is used: The year -3837 in astronomical counting style is the year 3838 BCE in historical counting style.

conjunction	-3837 Jul 07 j 05:38	12°II46'11	0°10'08	retrograde	-3831 Oct 30 j 10:51	28°II25'10	
minimum elong	-3837 Jul 07 j 05:38	12°II46'11	0°10'17	opposition	-3830 Jan 15 j 14:49	27°II03'14	0°45'07
behind sun begin	-3837 Jul 07 j 00:28	12°II45'44		min. Earth dist.	-3830 Jan 16 j 13:40	27°II01'39	29.18831 AU
behind sun end	-3837 Jul 07 j 10:48	12°II46'39		direct	-3830 Apr 06 j 15:18	25°II37'54	
morning rise	-3837 Jul 23 j 04:20	13°II21'32		evening set	-3830 Jul 06 j 18:10	27°II34'37	
retrograde	-3837 Oct 17 j 17:59	15°II13'40					
opposition	-3836 Jan 02 j 21:34	13°II51'23	0°13'26	conjunction	-3830 Jul 22 j 16:33	28°II09'57	0°44'40
min. Earth dist.	-3836 Jan 03 j 18:40	13°II49'55	29.13070 AU	minimum elong	-3830 Jul 22 j 16:33	28°II09'57	0°44'49
direct	-3836 Mar 23 j 10:46	12°II25'55		max. Earth dist.	-3830 Jul 21 j 15:07	28°II07'35	31.19092 AU
evening set	-3836 Jun 22 j 15:43	14°II22'34		morning rise	-3830 Aug 07 j 10:50	28°II44'58	
					-3830 Sep 15 j 22:35	0°00'	
conjunction	-3836 Jul 08 j 17:42	14°II58'11	0°15'10	retrograde	-3830 Nov 01 j 19:06	0°00'36'48	
minimum elong	-3836 Jul 08 j 17:42	14°II58'11	0°15'18		-3830 Dec 20 j 06:10	30°R00'II	
behind sun begin	-3836 Jul 08 j 15:51	14°II58'01		opposition	-3829 Jan 18 j 01:52	29°II14'51	0°50'12
behind sun end	-3836 Jul 08 j 19:32	14°II58'21		min. Earth dist.	-3829 Jan 19 j 02:05	29°II13'11	29.19442 AU
max. Earth dist.	-3836 Jul 07 j 18:42	14°II56'03	31.13614 AU	direct	-3829 Apr 09 j 02:34	27°II49'31	
morning rise	-3836 Jul 24 j 15:49	15°II33'29		evening set	-3829 Jul 09 j 06:11	29°II46'11	
retrograde	-3836 Oct 19 j 04:34	17°II25'35			-3829 Jul 15 j 13:01	0°00'	
opposition	-3835 Jan 04 j 08:10	16°II03'23	0°18'48	max. Earth dist.	-3829 Jul 24 j 01:56	0°00'19'04	31.19677 AU
min. Earth dist.	-3835 Jan 05 j 05:04	16°II01'56	29.14207 AU				
direct	-3835 Mar 25 j 23:43	14°II37'58		conjunction	-3829 Jul 25 j 03:52	0°00'21'29	0°49'23
evening set	-3835 Jun 25 j 04:21	16°II34'40		minimum elong	-3829 Jul 25 j 03:52	0°00'21'29	0°49'33
max. Earth dist.	-3835 Jul 10 j 05:37	17°II07'59	31.14749 AU	morning rise	-3829 Aug 09 j 21:40	0°00'56'26	
				retrograde	-3829 Nov 04 j 04:42	2°00'48'13	
conjunction	-3835 Jul 11 j 05:41	17°II10'13	0°20'11	opposition	-3828 Jan 20 j 12:49	1°00'26'17	0°55'12
minimum elong	-3835 Jul 11 j 05:40	17°II10'13	0°20'21	min. Earth dist.	-3828 Jan 21 j 12:16	1°00'24'40	29.20003 AU
morning rise	-3835 Jul 27 j 03:14	17°II45'29		direct	-3828 Apr 10 j 15:33	0°00'00'55	
retrograde	-3835 Oct 21 j 16:43	19°II37'33		evening set	-3828 Jul 10 j 18:06	1°00'57'34	
opposition	-3834 Jan 06 j 19:02	18°II15'25	0°24'10				
min. Earth dist.	-3834 Jan 07 j 16:35	18°II13'56	29.15339 AU	conjunction	-3828 Jul 26 j 15:08	2°00'32'49	0°54'02
direct	-3834 Mar 28 j 11:41	16°II50'03		minimum elong	-3828 Jul 26 j 15:08	2°00'32'49	0°54'11
evening set	-3834 Jun 27 j 16:40	18°II46'46		max. Earth dist.	-3828 Jul 25 j 13:13	2°00'30'24	31.20224 AU
				morning rise	-3828 Aug 11 j 08:12	3°00'07'43	
conjunction	-3834 Jul 13 j 17:33	19°II22'18	0°25'10	retrograde	-3828 Nov 05 j 14:24	4°00'59'28	
minimum elong	-3834 Jul 13 j 17:32	19°II22'18	0°25'19	opposition	-3827 Jan 21 j 23:55	3°00'37'32	1°00'07
max. Earth dist.	-3834 Jul 12 j 18:06	19°II20'07	31.15842 AU	min. Earth dist.	-3827 Jan 23 j 00:06	3°00'35'52	29.20577 AU
morning rise	-3834 Jul 29 j 14:23	19°II57'30		direct	-3827 Apr 13 j 01:48	2°00'12'10	
retrograde	-3834 Oct 24 j 03:14	21°II49'32		evening set	-3827 Jul 13 j 05:52	4°00'08'48	
opposition	-3833 Jan 09 j 05:58	20°II27'29	0°29'29	max. Earth dist.	-3827 Jul 28 j 00:54	4°00'41'37	31.20820 AU
min. Earth dist.	-3833 Jan 10 j 04:09	20°II25'56	29.16384 AU				
direct	-3833 Mar 31 j 01:53	19°II02'09		conjunction	-3827 Jul 29 j 02:15	4°00'43'59	0°58'35
evening set	-3833 Jun 30 j 05:15	20°II58'53		minimum elong	-3827 Jul 29 j 02:15	4°00'43'59	0°58'45
max. Earth dist.	-3833 Jul 15 j 04:23	21°II32'02	31.16834 AU	morning rise	-3827 Aug 13 j 18:39	5°00'18'50	
				retrograde	-3827 Nov 08 j 00:17	7°00'10'34	
conjunction	-3833 Jul 16 j 05:22	21°II34'22	0°30'07	opposition	-3826 Jan 24 j 11:05	5°00'48'38	1°04'57
minimum elong	-3833 Jul 16 j 05:22	21°II34'21	0°30'17	min. Earth dist.	-3826 Jan 25 j 10:31	5°00'47'02	29.21207 AU
morning rise	-3833 Aug 01 j 01:44	22°II09'31		direct	-3826 Apr 15 j 14:47	4°00'23'17	
retrograde	-3833 Oct 26 j 14:22	24°II01'31		evening set	-3826 Jul 15 j 17:26	6°00'19'54	
opposition	-3832 Jan 11 j 16:44	22°II39'30	0°34'45	max. Earth dist.	-3826 Jul 30 j 11:15	6°00'52'38	31.21490 AU
min. Earth dist.	-3832 Jan 12 j 14:57	22°II37'58	29.17327 AU				
direct	-3832 Apr 01 j 13:40	21°II14'11		conjunction	-3826 Jul 31 j 13:04	6°00'55'03	1°03'04
evening set	-3832 Jul 01 j 17:40	23°II10'55		minimum elong	-3826 Jul 31 j 13:03	6°00'55'03	1°03'13
				morning rise	-3826 Aug 16 j 04:52	7°00'29'51	
conjunction	-3832 Jul 17 j 17:20	23°II46'21	0°35'01	retrograde	-3826 Nov 10 j 11:55	9°00'21'35	
minimum elong	-3832 Jul 17 j 17:20	23°II46'21	0°35'10	opposition	-3825 Jan 26 j 22:14	7°00'59'41	1°09'41
max. Earth dist.	-3832 Jul 16 j 16:53	23°II44'05	31.17704 AU	min. Earth dist.	-3825 Jan 27 j 21:36	7°00'58'05	29.21940 AU
morning rise	-3832 Aug 02 j 12:54	24°II21'28		direct	-3825 Apr 18 j 02:14	6°00'34'22	
retrograde	-3832 Oct 27 j 23:32	26°II13'24		evening set	-3825 Jul 18 j 04:57	8°00'31'00	
opposition	-3831 Jan 13 j 03:50	24°II51'26	0°39'58	max. Earth dist.	-3825 Aug 01 j 23:29	9°00'03'48	31.22264 AU
min. Earth dist.	-3831 Jan 14 j 03:16	24°II49'49	29.18134 AU				
direct	-3831 Apr 04 j 02:53	23°II26'07		conjunction	-3825 Aug 03 j 00:02	9°00'06'05	1°07'27
evening set	-3831 Jul 04 j 06:02	25°II22'51		minimum elong	-3825 Aug 03 j 00:02	9°00'06'05	1°07'36
max. Earth dist.	-3831 Jul 19 j 03:04	25°II55'50	31.18452 AU	morning rise	-3825 Aug 18 j 15:04	9°00'40'51	
				retrograde	-3825 Nov 12 j 22:04	11°00'32'36	
conjunction	-3831 Jul 20 j 04:54	25°II58'14	0°39'53	opposition	-3824 Jan 29 j 09:20	10°00'10'45	1°14'19
minimum elong	-3831 Jul 20 j 04:54	25°II58'14	0°40'02	min. Earth dist.	-3824 Jan 30 j 08:45	10°00'09'08	29.22749 AU
morning rise	-3831 Aug 04 j 23:59	26°II33'17		direct	-3824 Apr 19 j 15:42	8°00'45'30	

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Attention, astronomical year style is used: The year -3824 in astronomical counting style is the year 3825 BCE in historical counting style.

evening set	-3824 Jul 19 j 16:35	10° $\overline{42}$ '09		opposition	-3817 Feb 13 j 18:02	25° $\overline{30}$ '02	1°43'22
max. Earth dist.	-3824 Aug 03 j 09:29	11° $\overline{44}$ '49	31.23108 AU	min. Earth dist.	-3817 Feb 14 j 17:04	25° $\overline{28}$ '28	29.27178 AU
				direct	-3817 May 06 j 03:18	24° $\overline{05}$ '07	
conjunction	-3824 Aug 04 j 10:50	11° $\overline{17}$ '11	1°11'44	evening set	-3817 Aug 04 j 23:22	26° $\overline{01}$ '40	
minimum elong	-3824 Aug 04 j 10:50	11° $\overline{17}$ '11	1°11'53	max. Earth dist.	-3817 Aug 19 j 11:54	26° $\overline{34}$ '02	31.27159 AU
morning rise	-3824 Aug 20 j 01:21	11° $\overline{51}$ '54					
retrograde	-3824 Nov 14 j 09:34	13° $\overline{43}$ '41		conjunction	-3817 Aug 20 j 12:49	26° $\overline{36}$ '22	1°38'29
opposition	-3823 Jan 30 j 20:34	12° $\overline{21}$ '54	1°18'50	minimum elong	-3817 Aug 20 j 12:48	26° $\overline{36}$ '22	1°38'38
min. Earth dist.	-3823 Jan 31 j 19:18	12° $\overline{20}$ '20	29.23622 AU	morning rise	-3817 Sep 04 j 22:49	27° $\overline{10}$ '46	
direct	-3823 Apr 22 j 02:50	10° $\overline{56}$ '43		retrograde	-3817 Nov 30 j 08:05	29° $\overline{02}$ '49	
evening set	-3823 Jul 22 j 03:53	12° $\overline{53}$ '24		opposition	-3816 Feb 16 j 05:37	27° $\overline{41}$ '07	1°46'57
				min. Earth dist.	-3816 Feb 17 j 04:43	27° $\overline{39}$ '32	29.27357 AU
conjunction	-3823 Aug 06 j 21:35	13° $\overline{28}$ '23	1°15'55	direct	-3816 May 07 j 14:25	26° $\overline{16}$ '10	
minimum elong	-3823 Aug 06 j 21:35	13° $\overline{28}$ '23	1°16'05	evening set	-3816 Aug 06 j 10:09	28° $\overline{12}$ '40	
max. Earth dist.	-3823 Aug 05 j 21:31	13° $\overline{26}$ '08	31.23974 AU				
morning rise	-3823 Aug 22 j 11:15	14° $\overline{03}$ '03		conjunction	-3816 Aug 21 j 23:05	28° $\overline{47}$ '19	1°41'46
retrograde	-3823 Nov 16 j 19:09	15° $\overline{54}$ '54		minimum elong	-3816 Aug 21 j 23:04	28° $\overline{47}$ '19	1°41'54
opposition	-3822 Feb 02 j 08:03	14° $\overline{33}$ '10	1°23'15	max. Earth dist.	-3816 Aug 20 j 23:32	28° $\overline{45}$ '07	31.27303 AU
min. Earth dist.	-3822 Feb 03 j 07:31	14° $\overline{31}$ '33	29.24480 AU	morning rise	-3816 Sep 06 j 08:21	29° $\overline{21}$ '41	
direct	-3822 Apr 24 j 16:03	13° $\overline{08}$ '04			-3816 Sep 24 j 15:59	0° Ω	
evening set	-3822 Jul 24 j 15:22	15° $\overline{04}$ '45		retrograde	-3816 Dec 01 j 17:40	1° Ω 13'44	
max. Earth dist.	-3822 Aug 08 j 07:18	15° $\overline{37}$ '22	31.24808 AU		-3815 Feb 12 j 19:44	30° \overline{R} $\overline{45}$	
				opposition	-3815 Feb 17 j 17:27	29° $\overline{51}$ '59	1°50'23
conjunction	-3822 Aug 09 j 08:14	15° $\overline{39}$ '42	1°19'59	min. Earth dist.	-3815 Feb 18 j 16:26	29° $\overline{50}$ '25	29.27485 AU
minimum elong	-3822 Aug 09 j 08:13	15° $\overline{39}$ '42	1°20'08	direct	-3815 May 10 j 03:30	28° $\overline{27}$ '02	
morning rise	-3822 Aug 24 j 21:25	16° $\overline{14}$ '20			-3815 Jul 28 j 21:09	0° Ω	
retrograde	-3822 Nov 19 j 07:12	18° $\overline{06}$ '12		evening set	-3815 Aug 08 j 20:49	0° Ω 23'28	
opposition	-3821 Feb 04 j 19:21	16° $\overline{44}$ '32	1°27'32	max. Earth dist.	-3815 Aug 23 j 08:55	0° Ω 55'49	31.27435 AU
min. Earth dist.	-3821 Feb 05 j 17:54	16° $\overline{42}$ '59	29.25283 AU				
direct	-3821 Apr 27 j 04:20	15° $\overline{19}$ '30		conjunction	-3815 Aug 24 j 08:54	0° Ω 58'04	1°44'55
evening set	-3821 Jul 27 j 02:40	17° $\overline{16}$ '11		minimum elong	-3815 Aug 24 j 08:54	0° Ω 58'04	1°45'03
				morning rise	-3815 Sep 08 j 17:44	1° Ω 32'23	
conjunction	-3821 Aug 11 j 18:58	17° $\overline{51}$ '06	1°23'57	retrograde	-3815 Dec 04 j 05:00	3° Ω 24'28	
minimum elong	-3821 Aug 11 j 18:58	17° $\overline{51}$ '06	1°24'06	opposition	-3814 Feb 20 j 05:13	2° Ω 02'40	1°53'40
max. Earth dist.	-3821 Aug 10 j 18:38	17° $\overline{48}$ '49	31.25544 AU	min. Earth dist.	-3814 Feb 21 j 03:04	2° Ω 01'11	29.27649 AU
morning rise	-3821 Aug 27 j 07:22	18° $\overline{25}$ '41		direct	-3814 May 12 j 14:50	0° Ω 37'43	
retrograde	-3821 Nov 21 j 15:45	20° $\overline{17}$ '36		evening set	-3814 Aug 11 j 07:18	2° Ω 34'05	
opposition	-3820 Feb 07 j 06:59	18° $\overline{55}$ '58	1°31'42				
min. Earth dist.	-3820 Feb 08 j 06:43	18° $\overline{54}$ '20	29.25967 AU	conjunction	-3814 Aug 26 j 18:54	3° Ω 08'38	1°47'54
direct	-3820 Apr 28 j 15:44	17° $\overline{30}$ '59		minimum elong	-3814 Aug 26 j 18:54	3° Ω 08'38	1°48'01
evening set	-3820 Jul 28 j 14:02	19° $\overline{27}$ '40		max. Earth dist.	-3814 Aug 25 j 20:37	3° Ω 06'33	31.27617 AU
max. Earth dist.	-3820 Aug 12 j 04:53	20° $\overline{00}$ '13	31.26158 AU	morning rise	-3814 Sep 11 j 03:00	3° Ω 42'54	
				retrograde	-3814 Dec 06 j 14:42	5° Ω 35'02	
conjunction	-3820 Aug 13 j 05:32	20° $\overline{02}$ '31	1°27'47	opposition	-3813 Feb 22 j 16:58	4° Ω 13'12	1°56'46
minimum elong	-3820 Aug 13 j 05:32	20° $\overline{02}$ '31	1°27'55	min. Earth dist.	-3813 Feb 23 j 14:59	4° Ω 11'42	29.27879 AU
morning rise	-3820 Aug 28 j 17:22	20° $\overline{37}$ '04		direct	-3813 May 15 j 04:29	2° Ω 48'16	
retrograde	-3820 Nov 23 j 01:15	22° $\overline{29}$ '01		evening set	-3813 Aug 13 j 17:50	4° Ω 44'35	
opposition	-3819 Feb 08 j 18:34	21° $\overline{07}$ '24	1°35'44	max. Earth dist.	-3813 Aug 28 j 06:11	5° Ω 16'59	31.27896 AU
min. Earth dist.	-3819 Feb 09 j 17:25	21° $\overline{05}$ '50	29.26507 AU				
direct	-3819 May 01 j 04:20	19° $\overline{42}$ '27		conjunction	-3813 Aug 29 j 04:40	5° Ω 19'06	1°50'44
evening set	-3819 Jul 31 j 01:19	21° $\overline{39}$ '06		minimum elong	-3813 Aug 29 j 04:40	5° Ω 19'06	1°50'52
				morning rise	-3813 Sep 13 j 12:23	5° Ω 53'19	
conjunction	-3819 Aug 15 j 16:09	22° $\overline{13}$ '55	1°31'29	retrograde	-3813 Dec 09 j 02:28	7° Ω 45'30	
minimum elong	-3819 Aug 15 j 16:08	22° $\overline{13}$ '55	1°31'38	opposition	-3812 Feb 25 j 04:43	6° Ω 23'39	1°59'43
max. Earth dist.	-3819 Aug 14 j 15:24	22° $\overline{11}$ '36	31.26617 AU	min. Earth dist.	-3812 Feb 26 j 01:03	6° Ω 22'16	29.28204 AU
morning rise	-3819 Aug 31 j 03:17	22° $\overline{48}$ '25		direct	-3812 May 16 j 17:04	4° Ω 58'47	
retrograde	-3819 Nov 25 j 11:15	24° $\overline{40}$ '25		evening set	-3812 Aug 15 j 04:09	6° Ω 55'04	
opposition	-3818 Feb 11 j 06:21	23° $\overline{18}$ '47	1°39'37				
min. Earth dist.	-3818 Feb 12 j 05:56	23° $\overline{17}$ '10	29.26914 AU	conjunction	-3812 Aug 30 j 14:27	7° Ω 29'32	1°53'24
direct	-3818 May 03 j 13:59	21° $\overline{53}$ '51		minimum elong	-3812 Aug 30 j 14:27	7° Ω 29'31	1°53'32
evening set	-3818 Aug 02 j 12:17	23° $\overline{50}$ '28		max. Earth dist.	-3812 Aug 29 j 17:14	7° Ω 27'32	31.28253 AU
max. Earth dist.	-3818 Aug 17 j 02:17	24° $\overline{22}$ '57	31.26951 AU	morning rise	-3812 Sep 14 j 21:29	8° Ω 03'43	
				retrograde	-3812 Dec 10 j 11:18	9° Ω 55'59	
conjunction	-3818 Aug 18 j 02:31	24° $\overline{25}$ '13	1°35'03	opposition	-3811 Feb 26 j 16:44	8° Ω 34'08	2°02'29
minimum elong	-3818 Aug 18 j 02:30	24° $\overline{25}$ '13	1°35'11	min. Earth dist.	-3811 Feb 27 j 13:29	8° Ω 32'44	29.28604 AU
morning rise	-3818 Sep 02 j 13:02	24° $\overline{59}$ '40		direct	-3811 May 19 j 04:31	7° Ω 09'20	
retrograde	-3818 Nov 27 j 20:50	26° $\overline{51}$ '41		evening set	-3811 Aug 17 j 14:30	9° Ω 05'35	

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Attention, astronomical year style is used: The year -3811 in astronomical counting style is the year 3812 BCE in historical counting style.

max. Earth dist.	-3811 Sep 01 j 03:29	9°Ω38'04	31.28683 AU	morning rise	-3805 Sep 30 j 13:45	23°Ω18'30	
				retrograde	-3805 Dec 26 j 13:40	25°Ω11'27	
conjunction	-3811 Sep 02 j 00:09	9°Ω40'00	1°55'55	opposition	-3804 Mar 14 j 06:05	23°Ω49'31	2°16'46
minimum elong	-3811 Sep 02 j 00:09	9°Ω40'00	1°56'03	min. Earth dist.	-3804 Mar 14 j 23:49	23°Ω48'19	29.29920 AU
morning rise	-3811 Sep 17 j 06:45	10°Ω14'10		direct	-3804 Jun 03 j 13:55	22°Ω25'07	
retrograde	-3811 Dec 12 j 21:11	12°Ω06'31		evening set	-3804 Sep 01 j 13:15	24°Ω21'02	
opposition	-3810 Mar 01 j 04:40	10°Ω44'42	2°05'05				
min. Earth dist.	-3810 Mar 01 j 23:54	10°Ω43'23	29.29041 AU	conjunction	-3804 Sep 16 j 19:09	24°Ω55'13	2°08'40
direct	-3810 May 21 j 16:51	9°Ω19'58		minimum elong	-3804 Sep 16 j 19:09	24°Ω55'13	2°08'45
evening set	-3810 Aug 20 j 00:41	11°Ω16'11		max. Earth dist.	-3804 Sep 16 j 01:27	24°Ω53'33	31.29649 AU
				morning rise	-3804 Oct 01 j 22:47	25°Ω29'12	
conjunction	-3810 Sep 04 j 09:45	11°Ω50'34	1°58'15	retrograde	-3804 Dec 28 j 01:52	27°Ω22'13	
minimum elong	-3810 Sep 04 j 09:45	11°Ω50'34	1°58'23	opposition	-3803 Mar 16 j 18:25	26°Ω00'13	2°18'03
max. Earth dist.	-3810 Sep 03 j 13:29	11°Ω48'40	31.29108 AU	min. Earth dist.	-3803 Mar 17 j 10:28	25°Ω59'08	29.29691 AU
morning rise	-3810 Sep 19 j 15:52	12°Ω24'42		direct	-3803 Jun 06 j 02:38	24°Ω35'50	
retrograde	-3810 Dec 15 j 07:37	14°Ω17'10		evening set	-3803 Sep 03 j 22:55	26°Ω31'40	
opposition	-3809 Mar 03 j 16:46	12°Ω55'21	2°07'30	max. Earth dist.	-3803 Sep 18 j 12:00	27°Ω04'16	31.29402 AU
min. Earth dist.	-3809 Mar 04 j 12:18	12°Ω54'02	29.29461 AU				
direct	-3809 May 24 j 02:34	11°Ω30'42		conjunction	-3803 Sep 19 j 04:28	27°Ω05'49	2°09'46
evening set	-3809 Aug 22 j 10:55	13°Ω26'54		minimum elong	-3803 Sep 19 j 04:28	27°Ω05'49	2°09'52
				morning rise	-3803 Oct 04 j 07:42	27°Ω39'46	
conjunction	-3809 Sep 06 j 19:28	14°Ω01'15	2°00'26	retrograde	-3803 Dec 30 j 10:50	29°Ω32'53	
minimum elong	-3809 Sep 06 j 19:28	14°Ω01'15	2°00'33	opposition	-3802 Mar 19 j 06:54	28°Ω10'49	2°19'08
max. Earth dist.	-3809 Sep 06 j 00:11	13°Ω59'26	31.29491 AU	min. Earth dist.	-3802 Mar 19 j 23:12	28°Ω09'42	29.29460 AU
morning rise	-3809 Sep 22 j 01:02	14°Ω35'21		direct	-3802 Jun 08 j 14:24	26°Ω46'27	
	-3809 Oct 03 j 13:16	15°Ω		evening set	-3802 Sep 06 j 08:27	28°Ω42'11	
retrograde	-3809 Dec 17 j 17:20	16°Ω27'55					
opposition	-3808 Mar 05 j 04:48	15°Ω06'07	2°09'44	conjunction	-3802 Sep 21 j 13:34	29°Ω16'18	2°10'41
min. Earth dist.	-3808 Mar 05 j 23:30	15°Ω04'51	29.29794 AU	minimum elong	-3802 Sep 21 j 13:34	29°Ω16'18	2°10'46
	-3808 Mar 08 j 22:55	15°κΩ		max. Earth dist.	-3802 Sep 20 j 22:04	29°Ω14'50	31.29194 AU
direct	-3808 May 25 j 15:15	13°Ω41'32		morning rise	-3802 Oct 06 j 16:33	29°Ω50'14	
	-3808 Aug 05 j 22:07	15°Ω			-3802 Oct 11 j 03:52	0°൬	
evening set	-3808 Aug 23 j 21:14	15°Ω37'42		retrograde	-3801 Jan 01 j 20:31	1°൬43'25	
max. Earth dist.	-3808 Sep 07 j 09:21	16°Ω10'09	31.29771 AU	opposition	-3801 Mar 21 j 19:13	0°൬21'18	2°20'01
				min. Earth dist.	-3801 Mar 22 j 09:36	0°൬20'19	29.29276 AU
conjunction	-3808 Sep 08 j 05:06	16°Ω12'01	2°02'26		-3801 Apr 04 j 01:32	30°κΩ	
minimum elong	-3808 Sep 08 j 05:06	16°Ω12'01	2°02'32	direct	-3801 Jun 11 j 03:35	28°Ω56'58	
morning rise	-3808 Sep 23 j 10:17	16°Ω46'06			-3801 Aug 14 j 00:37	0°൬	
retrograde	-3808 Dec 19 j 05:09	18°Ω38'46		evening set	-3801 Sep 08 j 18:00	0°൬52'37	
opposition	-3807 Mar 07 j 17:07	17°Ω16'57	2°11'46				
min. Earth dist.	-3807 Mar 08 j 11:33	17°Ω15'42	29.30030 AU	conjunction	-3801 Sep 23 j 22:40	1°൬26'42	2°11'25
direct	-3807 May 28 j 01:17	15°Ω52'27		minimum elong	-3801 Sep 23 j 22:40	1°൬26'42	2°11'30
evening set	-3807 Aug 26 j 07:15	17°Ω48'34		max. Earth dist.	-3801 Sep 23 j 07:49	1°൬25'18	31.29046 AU
				morning rise	-3801 Oct 09 j 01:23	2°൬00'38	
conjunction	-3807 Sep 10 j 14:44	18°Ω22'51	2°04'15	retrograde	-3800 Jan 04 j 06:57	3°൬53'55	
minimum elong	-3807 Sep 10 j 14:44	18°Ω22'51	2°04'22	opposition	-3800 Mar 23 j 07:39	2°൬31'45	2°20'42
max. Earth dist.	-3807 Sep 09 j 20:26	18°Ω21'07	31.29933 AU	min. Earth dist.	-3800 Mar 23 j 21:44	2°൬30'48	29.29188 AU
morning rise	-3807 Sep 25 j 19:21	18°Ω56'53		direct	-3800 Jun 12 j 13:58	1°൬07'28	
retrograde	-3807 Dec 21 j 15:11	20°Ω49'40		evening set	-3800 Sep 10 j 03:25	3°൬03'02	
opposition	-3806 Mar 10 j 05:30	19°Ω27'50	2°13'38				
min. Earth dist.	-3806 Mar 10 j 23:51	19°Ω26'36	29.30119 AU	conjunction	-3800 Sep 25 j 07:50	3°൬37'07	2°11'58
direct	-3806 May 30 j 13:24	18°Ω03'23		minimum elong	-3800 Sep 25 j 07:50	3°൬37'07	2°12'02
evening set	-3806 Aug 28 j 17:27	19°Ω59'27		max. Earth dist.	-3800 Sep 24 j 18:41	3°൬35'52	31.29011 AU
max. Earth dist.	-3806 Sep 12 j 05:19	20°Ω31'54	31.29956 AU	morning rise	-3800 Oct 10 j 10:12	4°൬11'02	
				retrograde	-3799 Jan 05 j 16:17	6°൬04'25	
conjunction	-3806 Sep 13 j 00:15	20°Ω33'41	2°05'54	opposition	-3799 Mar 25 j 20:10	4°൬42'14	2°21'12
minimum elong	-3806 Sep 13 j 00:15	20°Ω33'41	2°06'00	min. Earth dist.	-3799 Mar 26 j 08:40	4°൬41'23	29.29189 AU
morning rise	-3806 Sep 28 j 04:38	21°Ω07'43		direct	-3799 Jun 15 j 02:30	3°൬18'01	
retrograde	-3806 Dec 24 j 03:11	23°Ω00'35		evening set	-3799 Sep 12 j 12:47	5°൬13'31	
opposition	-3805 Mar 12 j 17:37	21°Ω38'43	2°15'18				
min. Earth dist.	-3805 Mar 13 j 11:01	21°Ω37'32	29.30083 AU	conjunction	-3799 Sep 27 j 16:44	5°൬47'34	2°12'20
direct	-3805 Jun 02 j 00:14	20°Ω14'17		minimum elong	-3799 Sep 27 j 16:44	5°൬47'34	2°12'24
evening set	-3805 Aug 31 j 03:23	22°Ω10'17		max. Earth dist.	-3799 Sep 27 j 03:42	5°൬46'20	31.29056 AU
				morning rise	-3799 Oct 12 j 19:03	6°൬21'29	
conjunction	-3805 Sep 15 j 09:54	22°Ω44'30	2°07'22	retrograde	-3798 Jan 08 j 03:40	8°൬15'01	
minimum elong	-3805 Sep 15 j 09:54	22°Ω44'30	2°07'29	opposition	-3798 Mar 28 j 08:44	6°൬52'48	2°21'28
max. Earth dist.	-3805 Sep 14 j 16:20	22°Ω42'51	31.29849 AU	min. Earth dist.	-3798 Mar 28 j 20:24	6°൬52'00	29.29268 AU

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Attention, astronomical year style is used: The year -3798 in astronomical counting style is the year 3799 BCE in historical counting style.

direct	-3798 Jun 17 j 11:48	5° $\mathring{\text{N}}$ 28'40		retrograde	-3791 Jan 23 j 11:04	23° $\mathring{\text{N}}$ 31'37	
evening set	-3798 Sep 14 j 22:06	7° $\mathring{\text{N}}$ 24'06		opposition	-3791 Apr 13 j 02:27	22° $\mathring{\text{N}}$ 09'05	2°17'45
				min. Earth dist.	-3791 Apr 13 j 09:40	22° $\mathring{\text{N}}$ 08'36	29.27880 AU
conjunction	-3798 Sep 30 j 01:54	7° $\mathring{\text{N}}$ 58'09	2°12'29	direct	-3791 Jul 02 j 21:47	20° $\mathring{\text{N}}$ 45'22	
minimum elong	-3798 Sep 30 j 01:54	7° $\mathring{\text{N}}$ 58'09	2°12'33	evening set	-3791 Sep 29 j 15:22	22° $\mathring{\text{N}}$ 40'10	
max. Earth dist.	-3798 Sep 29 j 14:52	7° $\mathring{\text{N}}$ 57'06	31.29147 AU				
morning rise	-3798 Oct 15 j 03:54	8° $\mathring{\text{N}}$ 32'03		conjunction	-3791 Oct 14 j 17:47	23° $\mathring{\text{N}}$ 14'09	2°08'21
retrograde	-3797 Jan 10 j 13:37	10° $\mathring{\text{N}}$ 25'42		minimum elong	-3791 Oct 14 j 17:48	23° $\mathring{\text{N}}$ 14'09	2°08'23
opposition	-3797 Mar 30 j 21:14	9° $\mathring{\text{N}}$ 03'29	2°21'33	max. Earth dist.	-3791 Oct 14 j 11:35	23° $\mathring{\text{N}}$ 13'33	31.27417 AU
min. Earth dist.	-3797 Mar 31 j 08:25	9° $\mathring{\text{N}}$ 02'43	29.29351 AU	morning rise	-3791 Oct 29 j 19:20	23° $\mathring{\text{N}}$ 48'04	
direct	-3797 Jun 19 j 22:49	7° $\mathring{\text{N}}$ 39'26		retrograde	-3790 Jan 25 j 20:20	25° $\mathring{\text{N}}$ 42'31	
evening set	-3797 Sep 17 j 07:36	9° $\mathring{\text{N}}$ 34'49		opposition	-3790 Apr 15 j 15:20	24° $\mathring{\text{N}}$ 19'53	2°16'26
				min. Earth dist.	-3790 Apr 15 j 21:09	24° $\mathring{\text{N}}$ 19'30	29.27242 AU
conjunction	-3797 Oct 02 j 10:57	10° $\mathring{\text{N}}$ 08'50	2°12'28	direct	-3790 Jul 05 j 10:45	22° $\mathring{\text{N}}$ 56'11	
minimum elong	-3797 Oct 02 j 10:57	10° $\mathring{\text{N}}$ 08'50	2°12'32	evening set	-3790 Oct 02 j 00:34	24° $\mathring{\text{N}}$ 50'52	
max. Earth dist.	-3797 Oct 01 j 23:43	10° $\mathring{\text{N}}$ 07'46	31.29225 AU				
morning rise	-3797 Oct 17 j 12:57	10° $\mathring{\text{N}}$ 42'45		conjunction	-3790 Oct 17 j 02:44	25° $\mathring{\text{N}}$ 24'50	2°07'01
retrograde	-3796 Jan 13 j 02:18	12° $\mathring{\text{N}}$ 36'32		minimum elong	-3790 Oct 17 j 02:44	25° $\mathring{\text{N}}$ 24'50	2°07'01
opposition	-3796 Apr 01 j 09:55	11° $\mathring{\text{N}}$ 14'17	2°21'25	max. Earth dist.	-3790 Oct 16 j 20:29	25° $\mathring{\text{N}}$ 24'15	31.26779 AU
min. Earth dist.	-3796 Apr 01 j 19:46	11° $\mathring{\text{N}}$ 13'37	29.29407 AU	morning rise	-3790 Nov 01 j 04:29	25° $\mathring{\text{N}}$ 58'47	
direct	-3796 Jun 21 j 09:17	9° $\mathring{\text{N}}$ 50'20		retrograde	-3789 Jan 28 j 07:29	27° $\mathring{\text{N}}$ 53'20	
evening set	-3796 Sep 18 j 16:52	11° $\mathring{\text{N}}$ 45'38		opposition	-3789 Apr 18 j 04:04	26° $\mathring{\text{N}}$ 30'36	2°14'55
				min. Earth dist.	-3789 Apr 18 j 09:01	26° $\mathring{\text{N}}$ 30'16	29.26620 AU
conjunction	-3796 Oct 03 j 20:05	12° $\mathring{\text{N}}$ 19'39	2°12'15	direct	-3789 Jul 07 j 20:37	25° $\mathring{\text{N}}$ 06'55	
minimum elong	-3796 Oct 03 j 20:05	12° $\mathring{\text{N}}$ 19'39	2°12'18	evening set	-3789 Oct 04 j 09:31	27° $\mathring{\text{N}}$ 01'30	
max. Earth dist.	-3796 Oct 03 j 10:29	12° $\mathring{\text{N}}$ 18'45	31.29235 AU				
morning rise	-3796 Oct 18 j 21:46	12° $\mathring{\text{N}}$ 53'33		conjunction	-3789 Oct 19 j 11:47	27° $\mathring{\text{N}}$ 35'28	2°05'30
retrograde	-3795 Jan 14 j 13:36	14° $\mathring{\text{N}}$ 47'29		minimum elong	-3789 Oct 19 j 11:48	27° $\mathring{\text{N}}$ 35'28	2°05'31
opposition	-3795 Apr 03 j 22:53	13° $\mathring{\text{N}}$ 25'12	2°21'05	max. Earth dist.	-3789 Oct 19 j 07:43	27° $\mathring{\text{N}}$ 35'05	31.26177 AU
min. Earth dist.	-3795 Apr 04 j 08:50	13° $\mathring{\text{N}}$ 24'32	29.29368 AU	morning rise	-3789 Nov 03 j 13:26	28° $\mathring{\text{N}}$ 09'25	
direct	-3795 Jun 23 j 21:36	12° $\mathring{\text{N}}$ 01'20			-3788 Jan 15 j 02:55	0° $\mathring{\text{A}}$	
evening set	-3795 Sep 21 j 02:21	13° $\mathring{\text{N}}$ 56'33		retrograde	-3788 Jan 30 j 17:18	0° $\mathring{\text{A}}$ 04'05	
					-3788 Feb 15 j 16:09	30° $\mathring{\text{R}}$ $\mathring{\text{N}}$	
conjunction	-3795 Oct 06 j 05:14	14° $\mathring{\text{N}}$ 30'33	2°11'50	opposition	-3788 Apr 19 j 17:02	28° $\mathring{\text{N}}$ 41'17	2°13'12
minimum elong	-3795 Oct 06 j 05:14	14° $\mathring{\text{N}}$ 30'33	2°11'54	min. Earth dist.	-3788 Apr 19 j 21:04	28° $\mathring{\text{N}}$ 41'01	29.26045 AU
max. Earth dist.	-3795 Oct 05 j 19:38	14° $\mathring{\text{N}}$ 29'39	31.29148 AU	direct	-3788 Jul 09 j 07:56	27° $\mathring{\text{N}}$ 17'39	
morning rise	-3795 Oct 21 j 06:56	15° $\mathring{\text{N}}$ 04'27		evening set	-3788 Oct 05 j 18:29	29° $\mathring{\text{N}}$ 12'08	
retrograde	-3794 Jan 17 j 02:24	16° $\mathring{\text{N}}$ 58'30					
opposition	-3794 Apr 06 j 11:37	15° $\mathring{\text{N}}$ 36'11	2°20'33	conjunction	-3788 Oct 20 j 20:34	29° $\mathring{\text{N}}$ 46'06	2°03'49
min. Earth dist.	-3794 Apr 06 j 19:56	15° $\mathring{\text{N}}$ 35'37	29.29214 AU	minimum elong	-3788 Oct 20 j 20:34	29° $\mathring{\text{N}}$ 46'06	2°03'49
direct	-3794 Jun 26 j 09:12	14° $\mathring{\text{N}}$ 12'22		max. Earth dist.	-3788 Oct 20 j 16:46	29° $\mathring{\text{N}}$ 45'44	31.25657 AU
evening set	-3794 Sep 23 j 11:42	16° $\mathring{\text{N}}$ 07'31			-3788 Oct 26 j 23:29	0° $\mathring{\text{A}}$	
				morning rise	-3788 Nov 04 j 22:29	0° $\mathring{\text{A}}$ 20'04	
conjunction	-3794 Oct 08 j 14:27	16° $\mathring{\text{N}}$ 41'30	2°11'15	retrograde	-3787 Feb 01 j 05:58	2° $\mathring{\text{A}}$ 14'53	
minimum elong	-3794 Oct 08 j 14:27	16° $\mathring{\text{N}}$ 41'30	2°11'17	opposition	-3787 Apr 22 j 06:00	0° $\mathring{\text{A}}$ 52'01	2°11'18
max. Earth dist.	-3794 Oct 08 j 05:40	16° $\mathring{\text{N}}$ 40'41	31.28914 AU	min. Earth dist.	-3787 Apr 22 j 08:12	0° $\mathring{\text{A}}$ 51'52	29.25568 AU
morning rise	-3794 Oct 23 j 16:03	17° $\mathring{\text{N}}$ 15'25			-3787 May 26 j 21:23	30° $\mathring{\text{R}}$ $\mathring{\text{N}}$	
retrograde	-3793 Jan 19 j 12:50	19° $\mathring{\text{N}}$ 09'35		direct	-3787 Jul 11 j 18:09	29° $\mathring{\text{N}}$ 28'26	
opposition	-3793 Apr 09 j 00:35	17° $\mathring{\text{N}}$ 47'12	2°19'49		-3787 Aug 24 j 21:25	0° $\mathring{\text{A}}$	
min. Earth dist.	-3793 Apr 09 j 09:24	17° $\mathring{\text{N}}$ 46'36	29.28907 AU	evening set	-3787 Oct 08 j 03:24	1° $\mathring{\text{A}}$ 22'50	
direct	-3793 Jun 28 j 21:01	16° $\mathring{\text{N}}$ 23'26					
evening set	-3793 Sep 25 j 21:03	18° $\mathring{\text{N}}$ 18'29		conjunction	-3787 Oct 23 j 05:37	1° $\mathring{\text{A}}$ 56'49	2°01'56
				minimum elong	-3787 Oct 23 j 05:38	1° $\mathring{\text{A}}$ 56'49	2°01'57
conjunction	-3793 Oct 10 j 23:38	18° $\mathring{\text{N}}$ 52'27	2°10'28	max. Earth dist.	-3787 Oct 23 j 03:44	1° $\mathring{\text{A}}$ 56'38	31.25217 AU
minimum elong	-3793 Oct 10 j 23:38	18° $\mathring{\text{N}}$ 52'27	2°10'30	morning rise	-3787 Nov 07 j 07:34	2° $\mathring{\text{A}}$ 30'49	
max. Earth dist.	-3793 Oct 10 j 15:35	18° $\mathring{\text{N}}$ 51'42	31.28538 AU	retrograde	-3786 Feb 03 j 17:32	4° $\mathring{\text{A}}$ 25'45	
morning rise	-3793 Oct 26 j 01:10	19° $\mathring{\text{N}}$ 26'22		opposition	-3786 Apr 24 j 18:55	3° $\mathring{\text{A}}$ 02'51	2°09'12
retrograde	-3792 Jan 21 j 23:46	21° $\mathring{\text{N}}$ 20'37		min. Earth dist.	-3786 Apr 24 j 20:49	3° $\mathring{\text{A}}$ 02'43	29.25160 AU
opposition	-3792 Apr 10 j 13:25	19° $\mathring{\text{N}}$ 58'10	2°18'53	direct	-3786 Jul 14 j 05:20	1° $\mathring{\text{A}}$ 39'21	
min. Earth dist.	-3792 Apr 10 j 20:39	19° $\mathring{\text{N}}$ 57'41	29.28446 AU	evening set	-3786 Oct 10 j 12:22	3° $\mathring{\text{A}}$ 33'41	
direct	-3792 Jun 30 j 10:37	18° $\mathring{\text{N}}$ 34'26					
evening set	-3792 Sep 27 j 06:23	20° $\mathring{\text{N}}$ 29'22		conjunction	-3786 Oct 25 j 14:33	4° $\mathring{\text{A}}$ 07'41	1°59'53
				minimum elong	-3786 Oct 25 j 14:34	4° $\mathring{\text{A}}$ 07'41	1°59'53
conjunction	-3792 Oct 12 j 08:46	21° $\mathring{\text{N}}$ 03'21	2°09'30	max. Earth dist.	-3786 Oct 25 j 13:12	4° $\mathring{\text{A}}$ 07'33	31.24850 AU
minimum elong	-3792 Oct 12 j 08:46	21° $\mathring{\text{N}}$ 03'21	2°09'32	morning rise	-3786 Nov 09 j 16:46	4° $\mathring{\text{A}}$ 41'42	
max. Earth dist.	-3792 Oct 12 j 00:55	21° $\mathring{\text{N}}$ 02'36	31.28017 AU	retrograde	-3785 Feb 06 j 06:42	6° $\mathring{\text{A}}$ 36'47	
morning rise	-3792 Oct 27 j 10:22	21° $\mathring{\text{N}}$ 37'16		opposition	-3785 Apr 27 j 07:49	5° $\mathring{\text{A}}$ 13'51	2°06'55

Attention, astronomical year style is used: The year -3785 in astronomical counting style is the year 3786 BCE in historical counting style.

min. Earth dist.	-3785 Apr 27 j 07:38	5° <u>♂</u> 13'52	29.24797 AU	morning rise	-3779 Nov 24 j 11:08	20° <u>♂</u> 01'51	
direct	-3785 Jul 16 j 15:51	3° <u>♂</u> 50'26		retrograde	-3778 Feb 21 j 15:10	21° <u>♂</u> 57'48	
evening set	-3785 Oct 12 j 21:17	5° <u>♂</u> 44'43		opposition	-3778 May 13 j 03:49	20° <u>♂</u> 34'25	1°45'56
				min. Earth dist.	-3778 May 12 j 22:35	20° <u>♂</u> 34'46	29.20102 AU
conjunction	-3785 Oct 27 j 23:31	6° <u>♂</u> 18'43	1°57'39	direct	-3778 Aug 01 j 01:32	19° <u>♂</u> 11'18	
minimum elong	-3785 Oct 27 j 23:32	6° <u>♂</u> 18'43	1°57'39	evening set	-3778 Oct 27 j 13:00	21° <u>♂</u> 04'52	
max. Earth dist.	-3785 Oct 27 j 23:18	6° <u>♂</u> 18'42	31.24487 AU				
morning rise	-3785 Nov 12 j 01:53	6° <u>♂</u> 52'46		conjunction	-3778 Nov 11 j 16:21	21° <u>♂</u> 39'01	1°37'29
retrograde	-3784 Feb 08 j 18:03	8° <u>♂</u> 48'01		minimum elong	-3778 Nov 11 j 16:22	21° <u>♂</u> 39'01	1°37'26
opposition	-3784 Apr 28 j 20:58	7° <u>♂</u> 25'03	2°04'26	max. Earth dist.	-3778 Nov 11 j 21:44	21° <u>♂</u> 39'31	31.19487 AU
min. Earth dist.	-3784 Apr 28 j 20:56	7° <u>♂</u> 25'03	29.24427 AU	morning rise	-3778 Nov 26 j 20:44	22° <u>♂</u> 13'17	
direct	-3784 Jul 18 j 03:08	6° <u>♂</u> 01'44		retrograde	-3777 Feb 24 j 01:57	24° <u>♂</u> 09'20	
evening set	-3784 Oct 14 j 06:18	7° <u>♂</u> 55'55		opposition	-3777 May 15 j 16:58	22° <u>♂</u> 45'49	1°42'18
				min. Earth dist.	-3777 May 15 j 11:34	22° <u>♂</u> 46'10	29.19051 AU
conjunction	-3784 Oct 29 j 08:39	8° <u>♂</u> 29'57	1°55'15	direct	-3777 Aug 03 j 12:31	21° <u>♂</u> 22'41	
minimum elong	-3784 Oct 29 j 08:40	8° <u>♂</u> 29'57	1°55'14	evening set	-3777 Oct 29 j 21:57	23° <u>♂</u> 16'08	
max. Earth dist.	-3784 Oct 29 j 09:39	8° <u>♂</u> 30'03	31.24111 AU				
morning rise	-3784 Nov 13 j 11:11	9° <u>♂</u> 04'01		conjunction	-3777 Nov 14 j 01:29	23° <u>♂</u> 50'17	1°34'00
retrograde	-3783 Feb 10 j 06:34	10° <u>♂</u> 59'24		minimum elong	-3777 Nov 14 j 01:30	23° <u>♂</u> 50'17	1°33'57
opposition	-3783 May 01 j 10:02	9° <u>♂</u> 36'25	2°01'47	max. Earth dist.	-3777 Nov 14 j 07:36	23° <u>♂</u> 50'52	31.18462 AU
min. Earth dist.	-3783 May 01 j 08:13	9° <u>♂</u> 36'32	29.24009 AU	morning rise	-3777 Nov 29 j 06:15	24° <u>♂</u> 24'35	
direct	-3783 Jul 20 j 16:21	8° <u>♂</u> 13'11		retrograde	-3776 Feb 26 j 14:30	26° <u>♂</u> 20'44	
evening set	-3783 Oct 16 j 15:23	10° <u>♂</u> 07'18		opposition	-3776 May 17 j 05:58	24° <u>♂</u> 57'06	1°38'31
				min. Earth dist.	-3776 May 16 j 22:23	24° <u>♂</u> 57'37	29.18049 AU
conjunction	-3783 Oct 31 j 17:45	10° <u>♂</u> 41'21	1°52'41	direct	-3776 Aug 04 j 22:59	23° <u>♂</u> 33'58	
minimum elong	-3783 Oct 31 j 17:45	10° <u>♂</u> 41'21	1°52'40	evening set	-3776 Oct 31 j 07:00	25° <u>♂</u> 27'19	
max. Earth dist.	-3783 Oct 31 j 18:55	10° <u>♂</u> 41'28	31.23652 AU				
morning rise	-3783 Nov 15 j 20:38	11° <u>♂</u> 15'27		conjunction	-3776 Nov 15 j 10:45	26° <u>♂</u> 01'29	1°30'24
retrograde	-3782 Feb 12 j 19:11	13° <u>♂</u> 10'59		minimum elong	-3776 Nov 15 j 10:46	26° <u>♂</u> 01'29	1°30'20
opposition	-3782 May 03 j 23:16	11° <u>♂</u> 47'57	1°58'56	max. Earth dist.	-3776 Nov 15 j 17:58	26° <u>♂</u> 02'10	31.17499 AU
min. Earth dist.	-3782 May 03 j 21:31	11° <u>♂</u> 48'04	29.23500 AU	morning rise	-3776 Nov 30 j 15:55	26° <u>♂</u> 35'49	
direct	-3782 Jul 23 j 03:23	10° <u>♂</u> 24'46		retrograde	-3775 Feb 28 j 02:25	28° <u>♂</u> 32'04	
evening set	-3782 Oct 19 j 00:31	12° <u>♂</u> 18'49		opposition	-3775 May 19 j 19:05	27° <u>♂</u> 08'20	1°34'35
				min. Earth dist.	-3775 May 19 j 11:24	27° <u>♂</u> 08'52	29.17139 AU
conjunction	-3782 Nov 03 j 03:08	12° <u>♂</u> 52'53	1°49'57	direct	-3775 Aug 07 j 10:07	25° <u>♂</u> 45'14	
minimum elong	-3782 Nov 03 j 03:08	12° <u>♂</u> 52'53	1°49'54	evening set	-3775 Nov 02 j 15:57	27° <u>♂</u> 38'28	
max. Earth dist.	-3782 Nov 03 j 05:45	12° <u>♂</u> 53'08	31.23081 AU				
morning rise	-3782 Nov 18 j 06:07	13° <u>♂</u> 27'01		conjunction	-3775 Nov 17 j 20:05	28° <u>♂</u> 12'41	1°26'39
retrograde	-3781 Feb 15 j 04:57	15° <u>♂</u> 22'40		minimum elong	-3775 Nov 17 j 20:06	28° <u>♂</u> 12'41	1°26'35
opposition	-3781 May 06 j 12:17	13° <u>♂</u> 59'35	1°55'56	max. Earth dist.	-3775 Nov 18 j 04:53	28° <u>♂</u> 13'31	31.16651 AU
min. Earth dist.	-3781 May 06 j 09:22	13° <u>♂</u> 59'47	29.22846 AU	morning rise	-3775 Dec 03 j 01:37	28° <u>♂</u> 47'03	
direct	-3781 Jul 25 j 16:06	12° <u>♂</u> 36'27			-3774 Jan 09 j 08:49	0° <u>♂</u>	
evening set	-3781 Oct 21 j 09:48	14° <u>♂</u> 30'24		retrograde	-3774 Mar 02 j 15:20	0° <u>♂</u> 43'24	
					-3774 Apr 26 j 09:15	30° <u>♂</u>	
conjunction	-3781 Nov 05 j 12:24	15° <u>♂</u> 04'29	1°47'03	opposition	-3774 May 22 j 07:58	29° <u>♂</u> 19'36	1°30'31
minimum elong	-3781 Nov 05 j 12:25	15° <u>♂</u> 04'29	1°47'02	min. Earth dist.	-3774 May 21 j 22:12	29° <u>♂</u> 20'16	29.16328 AU
max. Earth dist.	-3781 Nov 05 j 14:36	15° <u>♂</u> 04'42	31.22363 AU	direct	-3774 Aug 09 j 22:40	27° <u>♂</u> 56'31	
morning rise	-3781 Nov 20 j 15:50	15° <u>♂</u> 38'39		evening set	-3774 Nov 05 j 01:04	29° <u>♂</u> 49'42	
retrograde	-3780 Feb 17 j 16:39	17° <u>♂</u> 34'26			-3774 Nov 09 j 15:57	0° <u>♂</u>	
opposition	-3780 May 08 j 01:34	16° <u>♂</u> 11'15	1°52'46				
min. Earth dist.	-3780 May 07 j 22:06	16° <u>♂</u> 11'29	29.22055 AU	conjunction	-3774 Nov 20 j 05:22	0° <u>♂</u> 23'56	1°22'47
direct	-3780 Jul 27 j 02:48	14° <u>♂</u> 48'09		minimum elong	-3774 Nov 20 j 05:22	0° <u>♂</u> 23'56	1°22'42
evening set	-3780 Oct 22 j 18:48	16° <u>♂</u> 41'59		max. Earth dist.	-3774 Nov 20 j 14:30	0° <u>♂</u> 24'48	31.15889 AU
				morning rise	-3774 Dec 05 j 11:25	0° <u>♂</u> 58'21	
conjunction	-3780 Nov 06 j 21:45	17° <u>♂</u> 16'05	1°44'01	retrograde	-3773 Mar 05 j 04:07	2° <u>♂</u> 54'50	
minimum elong	-3780 Nov 06 j 21:46	17° <u>♂</u> 16'05	1°43'58	opposition	-3773 May 24 j 20:56	1° <u>♂</u> 30'58	1°26'18
max. Earth dist.	-3780 Nov 07 j 01:42	17° <u>♂</u> 16'28	31.21502 AU	min. Earth dist.	-3773 May 24 j 10:55	1° <u>♂</u> 31'39	29.15609 AU
morning rise	-3780 Nov 22 j 01:21	17° <u>♂</u> 50'17		direct	-3773 Aug 12 j 09:02	0° <u>♂</u> 07'57	
retrograde	-3779 Feb 19 j 03:00	19° <u>♂</u> 46'10		evening set	-3773 Nov 07 j 10:07	2° <u>♂</u> 01'03	
opposition	-3779 May 10 j 14:51	18° <u>♂</u> 22'53	1°49'26				
min. Earth dist.	-3779 May 10 j 10:55	18° <u>♂</u> 23'09	29.21117 AU	conjunction	-3773 Nov 22 j 14:53	2° <u>♂</u> 35'19	1°18'47
direct	-3779 Jul 29 j 14:58	16° <u>♂</u> 59'48		minimum elong	-3773 Nov 22 j 14:53	2° <u>♂</u> 35'20	1°18'43
evening set	-3779 Oct 25 j 04:00	18° <u>♂</u> 53'29		max. Earth dist.	-3773 Nov 23 j 01:59	2° <u>♂</u> 36'23	31.15212 AU
				morning rise	-3773 Dec 07 j 21:13	3° <u>♂</u> 09'47	
conjunction	-3779 Nov 09 j 07:02	19° <u>♂</u> 27'36	1°40'49	retrograde	-3772 Mar 06 j 15:01	5° <u>♂</u> 06'23	
minimum elong	-3779 Nov 09 j 07:02	19° <u>♂</u> 27'36	1°40'47	opposition	-3772 May 26 j 09:58	3° <u>♂</u> 42'30	1°21'58
max. Earth dist.	-3779 Nov 09 j 10:52	19° <u>♂</u> 27'58	31.20529 AU	min. Earth dist.	-3772 May 25 j 22:23	3° <u>♂</u> 43'17	29.14944 AU

Attention, astronomical year style is used: The year -3772 in astronomical counting style is the year 3773 BCE in historical counting style.

direct	-3772 Aug 13 j 21:29	2°M.19'32		minimum elong	-3766 Dec 07 j 11:38	17°M.59'44	0°47'43
evening set	-3772 Nov 08 j 19:18	4°M.12'35		max. Earth dist.	-3766 Dec 08 j 03:18	18°M.01'12	31.09327 AU
				morning rise	-3766 Dec 22 j 21:25	18°M.34'30	
conjunction	-3772 Nov 24 j 00:13	4°M.46'53	1°14'40	retrograde	-3765 Mar 23 j 06:31	20°M.31'56	
minimum elong	-3772 Nov 24 j 00:14	4°M.46'53	1°14'34	opposition	-3765 Jun 12 j 05:22	19°M.07'37	0°48'32
max. Earth dist.	-3772 Nov 24 j 11:15	4°M.47'56	31.14571 AU	min. Earth dist.	-3765 Jun 11 j 13:09	19°M.08'43	29.08786 AU
morning rise	-3772 Dec 09 j 07:13	5°M.21'24		direct	-3765 Aug 30 j 02:11	17°M.44'50	
retrograde	-3771 Mar 09 j 03:54	7°M.18'09		evening set	-3765 Nov 24 j 14:01	19°M.37'27	
opposition	-3771 May 28 j 23:06	5°M.54'13	1°17'30				
min. Earth dist.	-3771 May 28 j 10:51	5°M.55'03	29.14307 AU	conjunction	-3765 Dec 09 j 21:36	20°M.12'00	0°43'05
direct	-3771 Aug 16 j 07:58	4°M.31'20		minimum elong	-3765 Dec 09 j 21:36	20°M.12'00	0°42'58
evening set	-3771 Nov 11 j 04:35	6°M.24'19		max. Earth dist.	-3765 Dec 10 j 13:18	20°M.13'29	31.08199 AU
				morning rise	-3765 Dec 25 j 08:02	20°M.46'49	
conjunction	-3771 Nov 26 j 10:00	6°M.58'40	1°10'26	retrograde	-3764 Mar 24 j 19:35	22°M.44'20	
minimum elong	-3771 Nov 26 j 10:01	6°M.58'40	1°10'21	opposition	-3764 Jun 13 j 18:24	21°M.19'55	0°43'25
max. Earth dist.	-3771 Nov 26 j 22:51	6°M.59'53	31.13921 AU	min. Earth dist.	-3764 Jun 13 j 02:11	21°M.21'01	29.07688 AU
morning rise	-3771 Dec 11 j 17:18	7°M.33'13		direct	-3764 Aug 31 j 12:29	19°M.57'06	
retrograde	-3770 Mar 11 j 15:05	9°M.30'06		evening set	-3764 Nov 25 j 23:32	21°M.49'39	
opposition	-3770 May 31 j 12:03	8°M.06'09	1°12'55				
min. Earth dist.	-3770 May 30 j 23:24	8°M.07'00	29.13626 AU	conjunction	-3764 Dec 11 j 07:42	22°M.24'14	0°38'16
direct	-3770 Aug 18 j 19:40	6°M.43'19		minimum elong	-3764 Dec 11 j 07:42	22°M.24'14	0°38'08
evening set	-3770 Nov 13 j 14:06	8°M.36'16		max. Earth dist.	-3764 Dec 12 j 01:18	22°M.25'53	31.07135 AU
				morning rise	-3764 Dec 26 j 18:31	22°M.59'06	
conjunction	-3770 Nov 28 j 19:45	9°M.10'39	1°06'05	retrograde	-3763 Mar 27 j 07:14	24°M.56'41	
minimum elong	-3770 Nov 28 j 19:45	9°M.10'39	1°05'59	opposition	-3763 Jun 16 j 07:14	23°M.32'11	0°38'14
max. Earth dist.	-3770 Nov 29 j 08:24	9°M.11'51	31.13217 AU	min. Earth dist.	-3763 Jun 15 j 13:32	23°M.33'23	29.06661 AU
morning rise	-3770 Dec 14 j 03:38	9°M.45'15		direct	-3763 Sep 03 j 01:22	22°M.09'22	
retrograde	-3769 Mar 14 j 03:56	11°M.42'16		evening set	-3763 Nov 28 j 09:24	24°M.01'51	
min. Earth dist.	-3769 Jun 02 j 11:23	10°M.19'13	29.12875 AU				
opposition	-3769 Jun 03 j 01:09	10°M.18'17	1°08'13	conjunction	-3763 Dec 13 j 17:49	24°M.36'28	0°33'23
direct	-3769 Aug 21 j 05:51	8°M.55'30		minimum elong	-3763 Dec 13 j 17:50	24°M.36'28	0°33'16
evening set	-3769 Nov 15 j 23:31	10°M.48'23		max. Earth dist.	-3763 Dec 14 j 11:14	24°M.38'07	31.06166 AU
				morning rise	-3763 Dec 29 j 05:20	25°M.11'23	
conjunction	-3769 Dec 01 j 05:35	11°M.22'48	1°01'39	retrograde	-3762 Mar 29 j 21:07	27°M.09'03	
minimum elong	-3769 Dec 01 j 05:35	11°M.22'48	1°01'34	opposition	-3762 Jun 18 j 19:57	25°M.44'29	0°32'59
max. Earth dist.	-3769 Dec 01 j 19:23	11°M.24'07	31.12404 AU	min. Earth dist.	-3762 Jun 18 j 01:35	25°M.45'44	29.05753 AU
morning rise	-3769 Dec 16 j 13:51	11°M.57'27		direct	-3762 Sep 05 j 12:34	24°M.21'40	
retrograde	-3768 Mar 15 j 15:12	13°M.54'37		evening set	-3762 Nov 30 j 19:08	26°M.14'06	
opposition	-3768 Jun 04 j 14:24	12°M.30'33	1°03'26				
min. Earth dist.	-3768 Jun 04 j 00:50	12°M.31'29	29.12001 AU	conjunction	-3762 Dec 16 j 04:08	26°M.48'46	0°28'28
direct	-3768 Aug 22 j 16:24	11°M.07'48		minimum elong	-3762 Dec 16 j 04:08	26°M.48'46	0°28'20
evening set	-3768 Nov 17 j 09:08	13°M.00'38		max. Earth dist.	-3762 Dec 16 j 23:27	26°M.50'36	31.05309 AU
				morning rise	-3762 Dec 31 j 16:00	27°M.23'44	
conjunction	-3768 Dec 02 j 15:35	13°M.35'05	0°57'08	retrograde	-3761 Apr 01 j 08:28	29°M.21'30	
minimum elong	-3768 Dec 02 j 15:36	13°M.35'05	0°57'02	opposition	-3761 Jun 21 j 08:45	27°M.56'52	0°27'41
max. Earth dist.	-3768 Dec 03 j 05:39	13°M.36'25	31.11484 AU	min. Earth dist.	-3761 Jun 20 j 13:42	27°M.58'10	29.04947 AU
morning rise	-3768 Dec 18 j 00:24	14°M.09'47		direct	-3761 Sep 08 j 00:33	26°M.34'06	
	-3767 Jan 11 j 05:41	15°M.		evening set	-3761 Dec 03 j 04:56	28°M.26'29	
retrograde	-3767 Mar 18 j 04:30	16°M.07'02					
	-3767 May 27 j 14:07	15°R.M.		conjunction	-3761 Dec 18 j 14:16	29°M.01'11	0°23'29
opposition	-3767 Jun 07 j 03:25	14°M.42'55	0°58'33	minimum elong	-3761 Dec 18 j 14:16	29°M.01'11	0°23'22
min. Earth dist.	-3767 Jun 06 j 12:19	14°M.43'57	29.11013 AU	max. Earth dist.	-3761 Dec 19 j 09:44	29°M.03'01	31.04565 AU
direct	-3767 Aug 25 j 02:30	13°M.20'10		morning rise	-3760 Jan 03 j 02:47	29°M.36'11	
	-3767 Nov 13 j 20:53	15°M.			-3760 Jan 14 j 03:14	0°X	
evening set	-3767 Nov 19 j 18:46	15°M.12'56		retrograde	-3760 Apr 02 j 21:06	1°X.34'03	
				opposition	-3760 Jun 22 j 21:36	0°X.09'24	0°22'21
conjunction	-3767 Dec 05 j 01:35	15°M.47'25	0°52'31	min. Earth dist.	-3760 Jun 22 j 01:16	0°X.10'47	29.04248 AU
minimum elong	-3767 Dec 05 j 01:36	15°M.47'25	0°52'25		-3760 Jun 28 j 15:24	30°R.M.	
max. Earth dist.	-3767 Dec 05 j 16:02	15°M.48'47	31.10439 AU	direct	-3760 Sep 09 j 10:56	28°M.46'39	
morning rise	-3767 Dec 20 j 10:59	16°M.22'09			-3760 Nov 16 j 02:17	0°X	
retrograde	-3766 Mar 20 j 16:59	18°M.19'31		evening set	-3760 Dec 04 j 14:56	0°X.39'01	
opposition	-3766 Jun 09 j 16:32	16°M.55'17	0°53'34				
min. Earth dist.	-3766 Jun 09 j 01:58	16°M.56'17	29.09923 AU	conjunction	-3760 Dec 20 j 00:45	1°X.13'45	0°18'28
direct	-3766 Aug 27 j 13:43	15°M.32'32		minimum elong	-3760 Dec 20 j 00:45	1°X.13'45	0°18'21
evening set	-3766 Nov 22 j 04:19	17°M.25'13		max. Earth dist.	-3760 Dec 20 j 21:29	1°X.15'42	31.03893 AU
				morning rise	-3759 Jan 04 j 13:45	1°X.48'48	
conjunction	-3766 Dec 07 j 11:38	17°M.59'44	0°47'50	retrograde	-3759 Apr 05 j 08:16	3°X.46'47	

Attention, astronomical year style is used: The year -3759 in astronomical counting style is the year 3760 BCE in historical counting style.

opposition	-3759 Jun 25 j 10:22	2°♄22'05	0°16'58	minimum elong	-3753 Jan 02 j 18:32	14°♄32'29	0°12'15
min. Earth dist.	-3759 Jun 24 j 14:14	2°♄23'28	29.03602 AU	behind sun begin	-3753 Jan 02 j 14:12	14°♄32'06	
direct	-3759 Sep 11 j 21:22	0°♄59'23		behind sun end	-3753 Jan 02 j 22:52	14°♄32'53	
evening set	-3759 Dec 07 j 01:03	2°♄51'44		max. Earth dist.	-3753 Jan 03 j 16:24	14°♄34'33	30.99118 AU
				morning rise	-3753 Jan 18 j 10:45	15°♄07'48	
conjunction	-3759 Dec 22 j 11:21	3°♄26'30	0°13'26	retrograde	-3753 Apr 19 j 17:31	17°♄06'15	
minimum elong	-3759 Dec 22 j 11:21	3°♄26'30	0°13'18	opposition	-3753 Jul 09 j 14:56	15°♄41'17	-0°15'41
behind sun begin	-3759 Dec 22 j 07:34	3°♄26'10		min. Earth dist.	-3753 Jul 08 j 16:56	15°♄42'48	28.98604 AU
behind sun end	-3759 Dec 22 j 15:08	3°♄26'51		direct	-3753 Sep 25 j 15:56	14°♄18'32	
max. Earth dist.	-3759 Dec 23 j 08:30	3°♄28'30	31.03271 AU	evening set	-3753 Dec 20 j 16:43	16°♄10'48	
morning rise	-3758 Jan 07 j 00:53	4°♄01'36					
retrograde	-3758 Apr 07 j 22:01	5°♄59'41		conjunction	-3752 Jan 05 j 05:44	16°♄45'47	-0°17'10
opposition	-3758 Jun 27 j 23:04	4°♄34'59	0°11'32	minimum elong	-3752 Jan 05 j 05:43	16°♄45'47	0°17'19
min. Earth dist.	-3758 Jun 27 j 01:30	4°♄36'27	29.02973 AU	max. Earth dist.	-3752 Jan 06 j 05:03	16°♄47'59	30.98031 AU
direct	-3758 Sep 14 j 07:35	3°♄12'18		morning rise	-3752 Jan 20 j 22:19	17°♄21'08	
evening set	-3758 Dec 09 j 11:25	5°♄04'39		retrograde	-3752 Apr 21 j 05:07	19°♄19'38	
				min. Earth dist.	-3752 Jul 10 j 05:20	17°♄56'07	28.97518 AU
conjunction	-3758 Dec 24 j 22:02	5°♄39'27	0°08'22	opposition	-3752 Jul 11 j 03:33	17°♄54'35	-0°21'06
minimum elong	-3758 Dec 24 j 22:02	5°♄39'27	0°08'13	direct	-3752 Sep 27 j 04:24	16°♄31'48	
behind sun begin	-3758 Dec 24 j 16:19	5°♄38'56		evening set	-3752 Dec 22 j 03:38	18°♄24'02	
behind sun end	-3758 Dec 25 j 03:45	5°♄39'58					
max. Earth dist.	-3758 Dec 25 j 19:25	5°♄41'28	31.02617 AU	conjunction	-3751 Jan 06 j 17:01	18°♄59'03	-0°22'12
morning rise	-3757 Jan 09 j 12:07	6°♄14'36		minimum elong	-3751 Jan 06 j 17:01	18°♄59'03	0°22'21
retrograde	-3757 Apr 10 j 10:16	8°♄12'47		max. Earth dist.	-3751 Jan 07 j 16:04	19°♄01'14	30.96968 AU
opposition	-3757 Jun 30 j 11:56	6°♄48'03	0°06'06	morning rise	-3751 Jan 22 j 10:14	19°♄34'26	
min. Earth dist.	-3757 Jun 29 j 15:05	6°♄49'29	29.02299 AU	retrograde	-3751 Apr 23 j 18:32	21°♄32'59	
direct	-3757 Sep 16 j 17:55	5°♄25'24		opposition	-3751 Jul 13 j 15:57	20°♄07'52	-0°26'28
evening set	-3757 Dec 11 j 21:52	7°♄17'44		min. Earth dist.	-3751 Jul 12 j 16:57	20°♄09'27	28.96492 AU
				direct	-3751 Sep 29 j 15:23	18°♄45'02	
conjunction	-3757 Dec 27 j 09:03	7°♄52'34	0°03'18	evening set	-3751 Dec 24 j 14:35	20°♄37'16	
minimum elong	-3757 Dec 27 j 09:02	7°♄52'34	0°03'09				
behind sun begin	-3757 Dec 27 j 02:38	7°♄52'00		conjunction	-3750 Jan 09 j 04:27	21°♄12'19	-0°27'13
behind sun end	-3757 Dec 27 j 15:27	7°♄53'09		minimum elong	-3750 Jan 09 j 04:27	21°♄12'19	0°27'22
max. Earth dist.	-3757 Dec 28 j 07:21	7°♄54'41	31.01911 AU	max. Earth dist.	-3750 Jan 10 j 04:27	21°♄14'35	30.95967 AU
morning rise	-3756 Jan 11 j 23:32	8°♄27'45		morning rise	-3750 Jan 24 j 22:06	21°♄47'44	
retrograde	-3756 Apr 11 j 23:57	10°♄26'02		retrograde	-3750 Apr 26 j 06:06	23°♄46'21	
min. Earth dist.	-3756 Jul 01 j 02:40	9°♄02'47	29.01542 AU	min. Earth dist.	-3750 Jul 15 j 05:43	22°♄22'45	28.95545 AU
opposition	-3756 Jul 02 j 00:41	9°♄01'16	0°00'39	opposition	-3750 Jul 16 j 04:26	22°♄21'10	-0°31'49
desc. node	-3756 Aug 14 j 16:25	7°♄58'00		direct	-3750 Oct 02 j 02:22	20°♄58'19	
direct	-3756 Sep 18 j 05:27	7°♄38'37		evening set	-3750 Dec 27 j 01:30	22°♄50'34	
evening set	-3756 Dec 13 j 08:33	9°♄30'57					
				conjunction	-3749 Jan 11 j 15:49	23°♄25'39	-0°32'11
conjunction	-3756 Dec 28 j 20:02	10°♄05'50	-0°01'57	minimum elong	-3749 Jan 11 j 15:49	23°♄25'39	0°32'21
minimum elong	-3756 Dec 28 j 20:03	10°♄05'50	0°02'05	max. Earth dist.	-3749 Jan 12 j 16:12	23°♄27'57	30.95079 AU
behind sun begin	-3756 Dec 28 j 13:36	10°♄05'15		morning rise	-3749 Jan 27 j 09:56	24°♄01'06	
behind sun end	-3756 Dec 29 j 02:29	10°♄06'25		retrograde	-3749 Apr 28 j 19:43	25°♄59'46	
max. Earth dist.	-3756 Dec 29 j 17:41	10°♄07'52	31.01094 AU	opposition	-3749 Jul 18 j 16:46	24°♄34'34	-0°37'07
morning rise	-3755 Jan 13 j 11:14	10°♄41'03		min. Earth dist.	-3749 Jul 17 j 16:35	24°♄36'14	28.94717 AU
retrograde	-3755 Apr 14 j 13:43	12°♄39'25		direct	-3749 Oct 04 j 12:59	23°♄11'42	
opposition	-3755 Jul 04 j 13:38	11°♄14'36	-0°04'48	evening set	-3749 Dec 29 j 12:40	25°♄03'58	
min. Earth dist.	-3755 Jul 03 j 16:20	11°♄16'04	29.00669 AU				
direct	-3755 Sep 20 j 15:27	9°♄51'56		conjunction	-3748 Jan 14 j 03:21	25°♄39'05	-0°37'07
evening set	-3755 Dec 15 j 19:15	11°♄44'15		minimum elong	-3748 Jan 14 j 03:20	25°♄39'05	0°37'16
				max. Earth dist.	-3748 Jan 15 j 03:58	25°♄41'24	30.94300 AU
conjunction	-3755 Dec 31 j 07:24	12°♄19'09	-0°07'02	morning rise	-3748 Jan 29 j 22:00	26°♄14'34	
minimum elong	-3755 Dec 31 j 07:23	12°♄19'09	0°07'11	retrograde	-3748 Apr 30 j 07:17	28°♄13'19	
behind sun begin	-3755 Dec 31 j 01:26	12°♄18'37		min. Earth dist.	-3748 Jul 19 j 05:39	26°♄49'44	28.94005 AU
behind sun end	-3755 Dec 31 j 13:20	12°♄19'42		opposition	-3748 Jul 20 j 05:13	26°♄48'06	-0°42'21
max. Earth dist.	-3754 Jan 01 j 06:07	12°♄21'18	31.00157 AU	direct	-3748 Oct 05 j 23:00	25°♄25'14	
morning rise	-3754 Jan 15 j 22:55	12°♄54'25		evening set	-3748 Dec 30 j 23:48	27°♄17'32	
retrograde	-3754 Apr 17 j 02:40	14°♄52'50					
min. Earth dist.	-3754 Jul 06 j 04:11	13°♄29'28	28.99668 AU	conjunction	-3747 Jan 15 j 15:05	27°♄52'41	-0°42'00
opposition	-3754 Jul 07 j 02:11	13°♄27'57	-0°10'15	minimum elong	-3747 Jan 15 j 15:05	27°♄52'41	0°42'09
direct	-3754 Sep 23 j 04:30	12°♄05'15		max. Earth dist.	-3747 Jan 16 j 16:47	27°♄55'06	30.93642 AU
evening set	-3754 Dec 18 j 06:06	13°♄57'32		morning rise	-3747 Jan 31 j 10:08	28°♄28'12	
					-3747 Mar 22 j 17:00	0°♂	
conjunction	-3753 Jan 02 j 18:32	14°♄32'29	-0°12'07	retrograde	-3747 May 02 j 20:37	0°♂27'02	

Attention, astronomical year style is used: The year -3747 in astronomical counting style is the year 3748 BCE in historical counting style.

	-3747 Jun 14 j 02:51	30° \mathbb{R} \mathbb{A}	evening set	-3740 Jan 16 j 10:44	12° \mathbb{B} 57'08	
opposition	-3747 Jul 22 j 17:30	29° \mathbb{A} 01'48 -0°47'33				
min. Earth dist.	-3747 Jul 21 j 16:42	29° \mathbb{A} 03'31 28.93385 AU	conjunction	-3740 Feb 01 j 04:57	13° \mathbb{B} 32'29 -1°14'04	
direct	-3747 Oct 08 j 09:49	27° \mathbb{A} 38'56	minimum elong	-3740 Feb 01 j 04:57	13° \mathbb{B} 32'29 1°14'13	
evening set	-3746 Jan 02 j 11:20	29° \mathbb{A} 31'18	max. Earth dist.	-3740 Feb 02 j 05:47	13° \mathbb{B} 34'50 30.88776 AU	
	-3746 Jan 15 j 06:12	0° \mathbb{B}	morning rise	-3740 Feb 17 j 03:05	14° \mathbb{B} 08'13	
			retrograde	-3740 May 18 j 21:08	16° \mathbb{B} 07'18	
conjunction	-3746 Jan 18 j 02:52	0° \mathbb{B} 06'29 -0°46'49	min. Earth dist.	-3740 Aug 06 j 07:20	14° \mathbb{B} 43'33 28.88397 AU	
minimum elong	-3746 Jan 18 j 02:52	0° \mathbb{B} 06'29 0°46'58	opposition	-3740 Aug 07 j 07:01	14° \mathbb{B} 41'53 -1°21'30	
max. Earth dist.	-3746 Jan 19 j 03:58	0° \mathbb{B} 08'51 30.93048 AU	direct	-3740 Oct 23 j 18:46	13° \mathbb{B} 18'46	
morning rise	-3746 Feb 02 j 22:31	0° \mathbb{B} 42'03	evening set	-3739 Jan 17 j 23:00	15° \mathbb{B} 11'24	
retrograde	-3746 May 05 j 10:18	2° \mathbb{B} 40'57				
min. Earth dist.	-3746 Jul 24 j 05:46	1° \mathbb{B} 17'23 28.92824 AU	conjunction	-3739 Feb 02 j 17:34	15° \mathbb{B} 46'47 -1°18'15	
opposition	-3746 Jul 25 j 05:47	1° \mathbb{B} 15'43 -0°52'40	minimum elong	-3739 Feb 02 j 17:34	15° \mathbb{B} 46'47 1°18'24	
	-3746 Sep 20 j 09:12	30° \mathbb{R} \mathbb{A}	max. Earth dist.	-3739 Feb 03 j 18:07	15° \mathbb{B} 49'06 30.87862 AU	
direct	-3746 Oct 10 j 18:51	29° \mathbb{A} 52'51	morning rise	-3739 Feb 18 j 16:10	16° \mathbb{B} 22'33	
	-3746 Oct 31 j 02:59	0° \mathbb{B}	retrograde	-3739 May 21 j 08:13	18° \mathbb{B} 21'36	
evening set	-3745 Jan 04 j 22:49	1° \mathbb{B} 45'17	opposition	-3739 Aug 09 j 19:02	16° \mathbb{B} 56'08 -1°25'55	
			min. Earth dist.	-3739 Aug 08 j 20:27	16° \mathbb{B} 57'43 28.87515 AU	
conjunction	-3745 Jan 20 j 14:57	2° \mathbb{B} 20'30 -0°51'34	direct	-3739 Oct 26 j 05:19	15° \mathbb{B} 32'55	
minimum elong	-3745 Jan 20 j 14:57	2° \mathbb{B} 20'30 0°51'43	evening set	-3738 Jan 20 j 11:14	17° \mathbb{B} 25'35	
max. Earth dist.	-3745 Jan 21 j 17:13	2° \mathbb{B} 22'59 30.92494 AU				
morning rise	-3745 Feb 05 j 10:52	2° \mathbb{B} 56'06	conjunction	-3738 Feb 05 j 06:20	18° \mathbb{B} 00'59 -1°22'19	
retrograde	-3745 May 08 j 00:00	4° \mathbb{B} 55'04	minimum elong	-3738 Feb 05 j 06:20	18° \mathbb{B} 00'59 1°22'28	
opposition	-3745 Jul 27 j 18:03	3° \mathbb{B} 29'51 -0°57'42	max. Earth dist.	-3738 Feb 06 j 07:30	18° \mathbb{B} 03'22 30.87014 AU	
min. Earth dist.	-3745 Jul 26 j 17:25	3° \mathbb{B} 31'34 28.92268 AU	morning rise	-3738 Feb 21 j 05:11	18° \mathbb{B} 36'46	
direct	-3745 Oct 13 j 07:33	2° \mathbb{B} 07'00	retrograde	-3738 May 23 j 21:05	20° \mathbb{B} 35'47	
evening set	-3744 Jan 07 j 10:32	3° \mathbb{B} 59'29	min. Earth dist.	-3738 Aug 11 j 07:11	19° \mathbb{B} 11'56 28.86717 AU	
			opposition	-3738 Aug 12 j 06:43	19° \mathbb{B} 10'17 -1°30'12	
conjunction	-3744 Jan 23 j 02:56	4° \mathbb{B} 34'44 -0°56'15	direct	-3738 Oct 28 j 16:38	17° \mathbb{B} 47'00	
minimum elong	-3744 Jan 23 j 02:56	4° \mathbb{B} 34'44 0°56'24	evening set	-3737 Jan 22 j 23:39	19° \mathbb{B} 39'42	
max. Earth dist.	-3744 Jan 24 j 04:07	4° \mathbb{B} 37'06 30.91923 AU				
morning rise	-3744 Feb 07 j 23:28	5° \mathbb{B} 10'21	conjunction	-3737 Feb 07 j 18:59	20° \mathbb{B} 15'08 -1°26'16	
retrograde	-3744 May 09 j 15:40	7° \mathbb{B} 09'24	minimum elong	-3737 Feb 07 j 18:59	20° \mathbb{B} 15'08 1°26'25	
min. Earth dist.	-3744 Jul 28 j 06:14	5° \mathbb{B} 45'51 28.91678 AU	max. Earth dist.	-3737 Feb 08 j 19:25	20° \mathbb{B} 17'26 30.86267 AU	
opposition	-3744 Jul 29 j 06:26	5° \mathbb{B} 44'10 -1°02'40	morning rise	-3737 Feb 23 j 18:21	20° \mathbb{B} 50'55	
direct	-3744 Oct 14 j 18:43	4° \mathbb{B} 21'18	retrograde	-3737 May 26 j 09:40	22° \mathbb{B} 49'57	
evening set	-3743 Jan 08 j 22:27	6° \mathbb{B} 13'50	opposition	-3737 Aug 14 j 18:36	21° \mathbb{B} 24'24 -1°34'21	
			min. Earth dist.	-3737 Aug 13 j 19:53	21° \mathbb{B} 25'59 28.86053 AU	
conjunction	-3743 Jan 24 j 15:25	6° \mathbb{B} 49'07 -1°00'51	direct	-3737 Oct 31 j 02:01	20° \mathbb{B} 01'03	
minimum elong	-3743 Jan 24 j 15:25	6° \mathbb{B} 49'07 1°00'59	evening set	-3736 Jan 25 j 11:52	21° \mathbb{B} 53'49	
max. Earth dist.	-3743 Jan 25 j 17:25	6° \mathbb{B} 51'34 30.91277 AU				
morning rise	-3743 Feb 09 j 12:14	7° \mathbb{B} 24'47	conjunction	-3736 Feb 10 j 07:48	22° \mathbb{B} 29'16 -1°30'05	
retrograde	-3743 May 12 j 03:54	9° \mathbb{B} 23'51	minimum elong	-3736 Feb 10 j 07:48	22° \mathbb{B} 29'16 1°30'13	
opposition	-3743 Jul 31 j 18:36	7° \mathbb{B} 58'37 -1°07'32	max. Earth dist.	-3736 Feb 11 j 09:21	22° \mathbb{B} 31'40 30.85667 AU	
min. Earth dist.	-3743 Jul 30 j 18:48	8° \mathbb{B} 00'16 28.90985 AU	morning rise	-3736 Feb 26 j 07:24	23° \mathbb{B} 05'04	
direct	-3743 Oct 17 j 06:45	6° \mathbb{B} 35'42	retrograde	-3736 May 27 j 22:13	25° \mathbb{B} 04'06	
evening set	-3742 Jan 11 j 10:36	8° \mathbb{B} 28'18	min. Earth dist.	-3736 Aug 15 j 06:56	23° \mathbb{B} 40'10 28.85525 AU	
			opposition	-3736 Aug 16 j 06:19	23° \mathbb{B} 38'32 -1°38'22	
conjunction	-3742 Jan 27 j 03:55	9° \mathbb{B} 03'36 -1°05'21	direct	-3736 Nov 01 j 14:29	22° \mathbb{B} 15'09	
minimum elong	-3742 Jan 27 j 03:54	9° \mathbb{B} 03'36 1°05'30	evening set	-3735 Jan 27 j 00:31	24° \mathbb{B} 07'59	
max. Earth dist.	-3742 Jan 28 j 04:48	9° \mathbb{B} 05'57 30.90534 AU				
morning rise	-3742 Feb 12 j 01:16	9° \mathbb{B} 39'17	conjunction	-3735 Feb 11 j 20:42	24° \mathbb{B} 43'27 -1°33'46	
retrograde	-3742 May 14 j 19:00	11° \mathbb{B} 38'22	minimum elong	-3735 Feb 11 j 20:42	24° \mathbb{B} 43'27 1°33'54	
min. Earth dist.	-3742 Aug 02 j 06:57	10° \mathbb{B} 14'46 28.90192 AU	max. Earth dist.	-3735 Feb 12 j 21:07	24° \mathbb{B} 45'45 30.85210 AU	
opposition	-3742 Aug 03 j 06:50	10° \mathbb{B} 13'06 -1°12'18	morning rise	-3735 Feb 27 j 20:50	25° \mathbb{B} 19'17	
direct	-3742 Oct 19 j 18:40	8° \mathbb{B} 50'08	retrograde	-3735 May 30 j 12:42	27° \mathbb{B} 18'19	
evening set	-3741 Jan 13 j 22:35	10° \mathbb{B} 42'44	opposition	-3735 Aug 18 j 17:57	25° \mathbb{B} 52'46 -1°42'13	
			min. Earth dist.	-3735 Aug 17 j 18:56	25° \mathbb{B} 54'23 28.85147 AU	
conjunction	-3741 Jan 29 j 16:20	11° \mathbb{B} 18'05 -1°09'46	direct	-3735 Nov 04 j 00:49	24° \mathbb{B} 29'21	
minimum elong	-3741 Jan 29 j 16:20	11° \mathbb{B} 18'05 1°09'55	evening set	-3734 Jan 29 j 13:07	26° \mathbb{B} 22'17	
max. Earth dist.	-3741 Jan 30 j 17:31	11° \mathbb{B} 20'27 30.89678 AU				
morning rise	-3741 Feb 14 j 14:02	11° \mathbb{B} 53'48	conjunction	-3734 Feb 14 j 09:50	26° \mathbb{B} 57'47 -1°37'19	
retrograde	-3741 May 17 j 07:36	13° \mathbb{B} 52'53	minimum elong	-3734 Feb 14 j 09:50	26° \mathbb{B} 57'47 1°37'27	
opposition	-3741 Aug 05 j 19:03	12° \mathbb{B} 27'32 -1°16'57	max. Earth dist.	-3734 Feb 15 j 11:15	27° \mathbb{B} 00'10 30.84882 AU	
min. Earth dist.	-3741 Aug 04 j 20:07	12° \mathbb{B} 29'08 28.89304 AU	morning rise	-3734 Mar 02 j 10:10	27° \mathbb{B} 33'38	
direct	-3741 Oct 22 j 06:53	11° \mathbb{B} 04'31	retrograde	-3734 Jun 02 j 01:18	29° \mathbb{B} 32'40	

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Attention, astronomical year style is used: The year -3734 in astronomical counting style is the year 3735 BCE in historical counting style.

min. Earth dist.	-3734 Aug 20 j 06:49	28° $\overline{3}$ 08'45	28.84875 AU	conjunction	-3727 Mar 02 j 08:51	12° \approx 42'34	-1°57'44
opposition	-3734 Aug 21 j 05:38	28° $\overline{3}$ 07'09	-1°45'56	minimum elong	-3727 Mar 02 j 08:51	12° \approx 42'34	1°57'50
direct	-3734 Nov 06 j 12:21	26° $\overline{3}$ 43'44		max. Earth dist.	-3727 Mar 03 j 06:31	12° \approx 44'36	30.82835 AU
evening set	-3733 Feb 01 j 01:48	28° $\overline{3}$ 36'46		morning rise	-3727 Mar 18 j 11:22	13° \approx 18'32	
					-3727 May 16 j 06:19	15° \approx	
conjunction	-3733 Feb 16 j 22:49	29° $\overline{3}$ 12'17	-1°40'42	retrograde	-3727 Jun 17 j 22:30	15° \approx 17'25	
minimum elong	-3733 Feb 16 j 22:48	29° $\overline{3}$ 12'17	1°40'50		-3727 Jul 21 j 01:54	15° \approx	
max. Earth dist.	-3733 Feb 17 j 23:17	29° $\overline{3}$ 14'35	30.84660 AU	opposition	-3727 Sep 05 j 14:30	13° \approx 52'02	-2°07'08
morning rise	-3733 Mar 04 j 23:35	29° $\overline{3}$ 48'10		min. Earth dist.	-3727 Sep 04 j 19:26	13° \approx 53'23	28.82763 AU
	-3733 Mar 10 j 10:20	0° \approx		direct	-3727 Nov 21 j 20:44	12° \approx 28'19	
retrograde	-3733 Jun 04 j 16:57	1° \approx 47'13		evening set	-3726 Feb 16 j 22:58	14° \approx 21'56	
opposition	-3733 Aug 23 j 17:19	0° \approx 21'44	-1°49'29				
min. Earth dist.	-3733 Aug 22 j 18:25	0° \approx 23'21	28.84691 AU	conjunction	-3726 Mar 04 j 22:36	14° \approx 57'37	-1°59'58
	-3733 Sep 05 j 17:56	30° \approx 8'3		minimum elong	-3726 Mar 04 j 22:36	14° \approx 57'37	2°00'05
direct	-3733 Nov 09 j 00:01	28° $\overline{3}$ 58'19		max. Earth dist.	-3726 Mar 05 j 18:37	14° \approx 59'30	30.82418 AU
	-3732 Jan 09 j 11:05	0° \approx			-3726 Mar 06 j 00:02	15° \approx	
evening set	-3732 Feb 03 j 14:47	0° \approx 51'27		morning rise	-3726 Mar 21 j 01:34	15° \approx 33'36	
				retrograde	-3726 Jun 20 j 11:48	17° \approx 32'24	
conjunction	-3732 Feb 19 j 12:12	1° \approx 27'01	-1°43'57	min. Earth dist.	-3726 Sep 07 j 07:29	16° \approx 08'18	28.82391 AU
minimum elong	-3732 Feb 19 j 12:12	1° \approx 27'01	1°44'05	opposition	-3726 Sep 08 j 01:51	16° \approx 07'00	-2°09'26
max. Earth dist.	-3732 Feb 20 j 12:57	1° \approx 29'20	30.84478 AU		-3726 Oct 23 j 17:03	15° \approx	
morning rise	-3732 Mar 06 j 13:15	2° \approx 02'54		direct	-3726 Nov 24 j 06:59	14° \approx 43'12	
retrograde	-3732 Jun 06 j 06:17	4° \approx 01'58			-3726 Dec 25 j 13:38	15° \approx	
min. Earth dist.	-3732 Aug 24 j 07:18	2° \approx 38'04	28.84519 AU	evening set	-3725 Feb 19 j 12:15	16° \approx 36'53	
opposition	-3732 Aug 25 j 04:57	2° \approx 36'33	-1°52'52				
direct	-3732 Nov 10 j 11:52	1° \approx 13'07		conjunction	-3725 Mar 07 j 12:24	17° \approx 12'35	-2°02'01
evening set	-3731 Feb 05 j 03:57	3° \approx 06'21		minimum elong	-3725 Mar 07 j 12:24	17° \approx 12'35	2°02'07
				max. Earth dist.	-3725 Mar 08 j 09:09	17° \approx 14'31	30.82080 AU
conjunction	-3731 Feb 21 j 01:48	3° \approx 41'57	-1°47'02	morning rise	-3725 Mar 23 j 15:28	17° \approx 48'34	
minimum elong	-3731 Feb 21 j 01:48	3° \approx 41'57	1°47'10	retrograde	-3725 Jun 22 j 23:44	19° \approx 47'18	
max. Earth dist.	-3731 Feb 22 j 01:39	3° \approx 44'11	30.84296 AU	opposition	-3725 Sep 10 j 13:05	18° \approx 21'54	-2°11'31
morning rise	-3731 Mar 09 j 03:11	4° \approx 17'52		min. Earth dist.	-3725 Sep 09 j 19:06	18° \approx 23'10	28.82109 AU
retrograde	-3731 Jun 08 j 20:51	6° \approx 16'56		direct	-3725 Nov 26 j 18:36	16° \approx 58'01	
opposition	-3731 Aug 27 j 16:34	4° \approx 51'33	-1°56'05	evening set	-3724 Feb 22 j 01:51	18° \approx 51'46	
min. Earth dist.	-3731 Aug 26 j 18:37	4° \approx 53'05	28.84310 AU				
direct	-3731 Nov 12 j 23:54	3° \approx 28'05		conjunction	-3724 Mar 09 j 02:16	19° \approx 27'29	-2°03'53
evening set	-3730 Feb 07 j 17:19	5° \approx 21'26		minimum elong	-3724 Mar 09 j 02:16	19° \approx 27'29	2°03'59
				max. Earth dist.	-3724 Mar 09 j 21:42	19° \approx 29'18	30.81868 AU
conjunction	-3730 Feb 23 j 15:26	5° \approx 57'03	-1°49'58	morning rise	-3724 Mar 25 j 05:45	20° \approx 03'29	
minimum elong	-3730 Feb 23 j 15:26	5° \approx 57'02	1°50'05	retrograde	-3724 Jun 24 j 14:24	22° \approx 02'08	
max. Earth dist.	-3730 Feb 24 j 14:24	5° \approx 59'12	30.84030 AU	min. Earth dist.	-3724 Sep 11 j 06:14	20° \approx 38'00	28.81975 AU
morning rise	-3730 Mar 11 j 17:08	6° \approx 32'59		opposition	-3724 Sep 12 j 00:09	20° \approx 36'44	-2°13'25
retrograde	-3730 Jun 11 j 09:03	8° \approx 32'02		direct	-3724 Nov 28 j 06:59	19° \approx 12'47	
min. Earth dist.	-3730 Aug 29 j 07:56	7° \approx 08'06	28.84011 AU	evening set	-3723 Feb 23 j 15:30	21° \approx 06'38	
opposition	-3730 Aug 30 j 04:15	7° \approx 06'40	-1°59'07				
direct	-3730 Nov 15 j 10:32	5° \approx 43'11		conjunction	-3723 Mar 11 j 16:21	21° \approx 42'22	-2°05'33
evening set	-3729 Feb 10 j 06:36	7° \approx 36'36		minimum elong	-3723 Mar 11 j 16:21	21° \approx 42'22	2°05'39
				max. Earth dist.	-3723 Mar 12 j 12:05	21° \approx 44'13	30.81792 AU
conjunction	-3729 Feb 26 j 05:14	8° \approx 12'14	-1°52'44	morning rise	-3723 Mar 27 j 19:59	22° \approx 18'22	
minimum elong	-3729 Feb 26 j 05:14	8° \approx 12'14	1°52'51	retrograde	-3723 Jun 27 j 02:40	24° \approx 16'56	
max. Earth dist.	-3729 Feb 27 j 03:58	8° \approx 14'22	30.83693 AU	opposition	-3723 Sep 14 j 11:21	22° \approx 51'34	-2°15'06
morning rise	-3729 Mar 14 j 07:09	8° \approx 48'11		min. Earth dist.	-3723 Sep 13 j 18:30	22° \approx 52'46	28.81974 AU
retrograde	-3729 Jun 13 j 23:11	10° \approx 47'11		direct	-3723 Nov 30 j 19:17	21° \approx 27'35	
opposition	-3729 Sep 01 j 15:44	9° \approx 21'50	-2°01'59	evening set	-3722 Feb 26 j 05:08	23° \approx 21'31	
min. Earth dist.	-3729 Aug 31 j 19:08	9° \approx 23'17	28.83631 AU				
direct	-3729 Nov 17 j 22:07	7° \approx 58'17		conjunction	-3722 Mar 14 j 06:19	23° \approx 57'16	-2°07'02
evening set	-3728 Feb 12 j 20:00	9° \approx 51'46		minimum elong	-3722 Mar 14 j 06:19	23° \approx 57'16	2°07'09
				max. Earth dist.	-3722 Mar 15 j 01:12	23° \approx 59'02	30.81869 AU
conjunction	-3728 Feb 28 j 18:53	10° \approx 27'25	-1°55'19	morning rise	-3722 Mar 30 j 10:14	24° \approx 33'17	
minimum elong	-3728 Feb 28 j 18:53	10° \approx 27'25	1°55'26	retrograde	-3722 Jun 29 j 17:09	26° \approx 31'47	
max. Earth dist.	-3728 Feb 29 j 16:11	10° \approx 29'26	30.83277 AU	opposition	-3722 Sep 16 j 22:22	25° \approx 06'28	-2°16'35
morning rise	-3728 Mar 15 j 21:17	11° \approx 03'24		min. Earth dist.	-3722 Sep 16 j 05:02	25° \approx 07'41	28.82119 AU
retrograde	-3728 Jun 15 j 10:55	13° \approx 02'21		direct	-3722 Dec 03 j 07:32	23° \approx 42'26	
min. Earth dist.	-3728 Sep 02 j 08:16	11° \approx 38'19	28.83202 AU	evening set	-3721 Feb 28 j 18:56	25° \approx 36'28	
opposition	-3728 Sep 03 j 03:20	11° \approx 36'59	-2°04'39				
direct	-3728 Nov 19 j 08:03	10° \approx 13'21		conjunction	-3721 Mar 16 j 20:25	26° \approx 12'15	-2°08'20
evening set	-3727 Feb 14 j 09:24	12° \approx 06'54		minimum elong	-3721 Mar 16 j 20:25	26° \approx 12'15	2°08'25

Attention, astronomical year style is used: The year -3721 in astronomical counting style is the year 3722 BCE in historical counting style.

max. Earth dist.	-3721 Mar 17 j 14:47	26° \approx 13'58	30.82067 AU	min. Earth dist.	-3715 Oct 01 j 16:44	10° \approx 53'43	28.83386 AU
morning rise	-3721 Apr 02 j 00:35	26° \approx 48'16		direct	-3715 Dec 18 j 16:14	9° \approx 28'37	
retrograde	-3721 Jul 02 j 06:14	28° \approx 46'42		evening set	-3714 Mar 16 j 22:04	11° \approx 23'16	
opposition	-3721 Sep 19 j 09:31	27° \approx 21'26	-2°17'51				
min. Earth dist.	-3721 Sep 18 j 17:41	27° \approx 22'34	28.82374 AU	conjunction	-3714 Apr 02 j 02:01	11° \approx 59'10	-2°11'47
direct	-3721 Dec 05 j 18:33	25° \approx 57'25		minimum elong	-3714 Apr 02 j 02:01	11° \approx 59'10	2°11'51
evening set	-3720 Mar 02 j 08:44	27° \approx 51'32		max. Earth dist.	-3714 Apr 02 j 13:50	12° \approx 00'16	30.83211 AU
				morning rise	-3714 Apr 18 j 07:34	12° \approx 35'14	
conjunction	-3720 Mar 18 j 10:42	28° \approx 27'20	-2°09'25	retrograde	-3714 Jul 17 j 22:28	14° \approx 32'57	
minimum elong	-3720 Mar 18 j 10:42	28° \approx 27'20	2°09'31	opposition	-3714 Oct 04 j 14:30	13° \approx 08'01	-2°20'47
max. Earth dist.	-3720 Mar 19 j 04:46	28° \approx 29'02	30.82365 AU	min. Earth dist.	-3714 Oct 04 j 05:06	13° \approx 08'41	28.83374 AU
morning rise	-3720 Apr 03 j 15:04	29° \approx 03'22		direct	-3714 Dec 21 j 04:42	11° \approx 43'37	
	-3720 May 01 j 14:54	0° \approx		evening set	-3713 Mar 19 j 12:17	13° \approx 38'20	
retrograde	-3720 Jul 03 j 20:47	1° \approx 01'44					
	-3720 Sep 06 j 21:49	30° \approx		conjunction	-3713 Apr 04 j 16:31	14° \approx 14'14	-2°11'29
opposition	-3720 Sep 20 j 20:30	29° \approx 36'33	-2°18'55	minimum elong	-3713 Apr 04 j 16:31	14° \approx 14'15	2°11'31
min. Earth dist.	-3720 Sep 20 j 04:30	29° \approx 37'41	28.82683 AU	max. Earth dist.	-3713 Apr 05 j 02:56	14° \approx 15'13	30.83232 AU
direct	-3720 Dec 07 j 06:56	28° \approx 12'31		morning rise	-3713 Apr 20 j 22:20	14° \approx 50'19	
	-3719 Mar 01 j 20:24	0° \approx		retrograde	-3713 Jul 20 j 12:29	16° \approx 47'54	
evening set	-3719 Mar 04 j 22:57	0° \approx 06'45		opposition	-3713 Oct 07 j 01:08	15° \approx 22'58	-2°20'21
				min. Earth dist.	-3713 Oct 06 j 15:35	15° \approx 23'39	28.83425 AU
conjunction	-3719 Mar 21 j 01:06	0° \approx 42'34	-2°10'19	direct	-3713 Dec 23 j 17:26	13° \approx 58'30	
minimum elong	-3719 Mar 21 j 01:07	0° \approx 42'34	2°10'23	evening set	-3712 Mar 21 j 02:29	15° \approx 53'17	
max. Earth dist.	-3719 Mar 21 j 17:35	0° \approx 44'06	30.82670 AU				
morning rise	-3719 Apr 06 j 05:47	1° \approx 18'37		conjunction	-3712 Apr 06 j 07:02	16° \approx 29'12	-2°10'58
retrograde	-3719 Jul 06 j 08:41	3° \approx 16'54		minimum elong	-3712 Apr 06 j 07:02	16° \approx 29'12	2°11'01
opposition	-3719 Sep 23 j 07:34	1° \approx 51'47	-2°19'45	max. Earth dist.	-3712 Apr 06 j 16:47	16° \approx 30'07	30.83317 AU
min. Earth dist.	-3719 Sep 22 j 17:23	1° \approx 52'48	28.82983 AU	morning rise	-3712 Apr 22 j 13:00	17° \approx 05'17	
direct	-3719 Dec 09 j 17:04	0° \approx 27'44		retrograde	-3712 Jul 22 j 01:05	19° \approx 02'43	
evening set	-3718 Mar 07 j 13:05	2° \approx 22'04		opposition	-3712 Oct 08 j 11:55	17° \approx 37'50	-2°19'42
				min. Earth dist.	-3712 Oct 08 j 03:58	17° \approx 38'24	28.83564 AU
conjunction	-3718 Mar 23 j 15:44	2° \approx 57'54	-2°11'01	direct	-3712 Dec 25 j 05:27	16° \approx 13'18	
minimum elong	-3718 Mar 23 j 15:44	2° \approx 57'54	2°11'05	evening set	-3711 Mar 23 j 16:40	18° \approx 08'09	
max. Earth dist.	-3718 Mar 24 j 08:05	2° \approx 59'26	30.82940 AU				
morning rise	-3718 Apr 08 j 20:27	3° \approx 33'58		conjunction	-3711 Apr 08 j 21:34	18° \approx 44'06	-2°10'16
retrograde	-3718 Jul 08 j 21:02	5° \approx 32'09		minimum elong	-3711 Apr 08 j 21:35	18° \approx 44'06	2°10'17
opposition	-3718 Sep 25 j 18:38	4° \approx 07'07	-2°20'23	max. Earth dist.	-3711 Apr 09 j 06:46	18° \approx 44'57	30.83521 AU
min. Earth dist.	-3718 Sep 25 j 04:48	4° \approx 08'06	28.83209 AU	morning rise	-3711 Apr 25 j 03:39	19° \approx 20'10	
direct	-3718 Dec 12 j 05:28	2° \approx 43'01		retrograde	-3711 Jul 24 j 14:50	21° \approx 17'28	
evening set	-3717 Mar 10 j 03:16	4° \approx 37'26		opposition	-3711 Oct 10 j 22:26	19° \approx 52'38	-2°18'50
				min. Earth dist.	-3711 Oct 10 j 14:09	19° \approx 53'13	28.83825 AU
conjunction	-3717 Mar 26 j 06:06	5° \approx 13'18	-2°11'30	direct	-3711 Dec 27 j 18:41	18° \approx 28'03	
minimum elong	-3717 Mar 26 j 06:06	5° \approx 13'18	2°11'33	evening set	-3710 Mar 26 j 06:56	20° \approx 22'59	
max. Earth dist.	-3717 Mar 26 j 20:12	5° \approx 14'37	30.83122 AU				
morning rise	-3717 Apr 11 j 11:13	5° \approx 49'21		conjunction	-3710 Apr 11 j 12:00	20° \approx 58'57	-2°09'22
retrograde	-3717 Jul 11 j 10:13	7° \approx 47'28		minimum elong	-3710 Apr 11 j 12:01	20° \approx 58'57	2°09'24
opposition	-3717 Sep 28 j 05:47	6° \approx 22'27	-2°20'48	max. Earth dist.	-3710 Apr 11 j 19:59	20° \approx 59'41	30.83852 AU
min. Earth dist.	-3717 Sep 27 j 17:14	6° \approx 23'21	28.83348 AU	morning rise	-3710 Apr 27 j 18:17	21° \approx 35'01	
direct	-3717 Dec 14 j 15:41	4° \approx 58'18		retrograde	-3710 Jul 27 j 02:22	23° \approx 32'12	
evening set	-3716 Mar 11 j 17:31	6° \approx 52'48		opposition	-3710 Oct 13 j 09:09	22° \approx 07'25	-2°17'46
				min. Earth dist.	-3710 Oct 13 j 02:17	22° \approx 07'55	28.84234 AU
conjunction	-3716 Mar 27 j 20:52	7° \approx 28'40	-2°11'48	direct	-3710 Dec 30 j 05:12	20° \approx 42'49	
minimum elong	-3716 Mar 27 j 20:52	7° \approx 28'40	2°11'52	evening set	-3709 Mar 28 j 20:55	22° \approx 37'50	
max. Earth dist.	-3716 Mar 28 j 10:53	7° \approx 29'59	30.83210 AU				
morning rise	-3716 Apr 13 j 02:02	8° \approx 04'44		conjunction	-3709 Apr 14 j 02:27	23° \approx 13'48	-2°08'15
retrograde	-3716 Jul 12 j 21:35	10° \approx 02'43		minimum elong	-3709 Apr 14 j 02:27	23° \approx 13'48	2°08'16
opposition	-3716 Sep 29 j 16:42	8° \approx 37'45	-2°21'01	max. Earth dist.	-3709 Apr 14 j 10:37	23° \approx 14'34	30.84336 AU
min. Earth dist.	-3716 Sep 29 j 05:13	8° \approx 38'34	28.83387 AU	morning rise	-3709 Apr 30 j 08:46	23° \approx 49'53	
direct	-3716 Dec 16 j 03:44	7° \approx 13'31		retrograde	-3709 Jul 29 j 14:51	25° \approx 46'57	
evening set	-3715 Mar 14 j 07:56	9° \approx 08'06		opposition	-3709 Oct 15 j 19:43	24° \approx 22'16	-2°16'28
				min. Earth dist.	-3709 Oct 15 j 12:57	24° \approx 22'45	28.84765 AU
conjunction	-3715 Mar 30 j 11:29	9° \approx 43'59	-2°11'53	direct	-3708 Jan 01 j 17:37	22° \approx 57'39	
minimum elong	-3715 Mar 30 j 11:29	9° \approx 43'59	2°11'56	evening set	-3708 Mar 30 j 11:22	24° \approx 52'45	
max. Earth dist.	-3715 Mar 30 j 23:22	9° \approx 45'05	30.83229 AU				
morning rise	-3715 Apr 15 j 17:00	10° \approx 20'03		conjunction	-3708 Apr 15 j 17:00	25° \approx 28'45	-2°06'57
retrograde	-3715 Jul 15 j 11:09	12° \approx 17'54		minimum elong	-3708 Apr 15 j 17:00	25° \approx 28'45	2°06'59
opposition	-3715 Oct 02 j 03:38	10° \approx 52'57	-2°21'00	max. Earth dist.	-3708 Apr 15 j 23:13	25° \approx 29'19	30.84926 AU

Attention, astronomical year style is used: The year -3708 in astronomical counting style is the year 3709 BCE in historical counting style.

morning rise	-3708 May 01 j 23:36	26° \mathbf{K} 04'50	opposition	-3702 Oct 30 j 21:36	10° \mathbf{Y} 06'42	-2°01'47
retrograde	-3708 Jul 31 j 03:40	28° \mathbf{K} 01'46	min. Earth dist.	-3702 Oct 30 j 21:44	10° \mathbf{Y} 06'41	28.88394 AU
opposition	-3708 Oct 17 j 06:15	26° \mathbf{K} 37'11	-2°14'58	direct	-3701 Jan 17 j 06:38	8° \mathbf{Y} 41'45
min. Earth dist.	-3708 Oct 17 j 00:36	26° \mathbf{K} 37'35	28.85396 AU	evening set	-3701 Apr 16 j 16:17	10° \mathbf{Y} 37'19
direct	-3707 Jan 03 j 03:14	25° \mathbf{K} 12'33				
evening set	-3707 Apr 02 j 01:44	27° \mathbf{K} 07'45		conjunction	-3701 May 02 j 23:31	11° \mathbf{Y} 13'23
				minimum elong	-3701 May 02 j 23:31	11° \mathbf{Y} 13'23
conjunction	-3707 Apr 18 j 07:47	27° \mathbf{K} 43'46	-2°05'27	max. Earth dist.	-3701 May 02 j 21:43	11° \mathbf{Y} 13'13
minimum elong	-3707 Apr 18 j 07:48	27° \mathbf{K} 43'46	2°05'28	morning rise	-3701 May 19 j 06:31	11° \mathbf{Y} 49'27
max. Earth dist.	-3707 Apr 18 j 14:06	27° \mathbf{K} 44'21	30.85579 AU	retrograde	-3701 Aug 16 j 14:52	13° \mathbf{Y} 45'18
morning rise	-3707 May 04 j 14:19	28° \mathbf{K} 19'52		opposition	-3701 Nov 02 j 08:05	12° \mathbf{Y} 21'05
	-3707 Jul 01 j 23:21	0° \mathbf{Y}		min. Earth dist.	-3701 Nov 02 j 09:56	12° \mathbf{Y} 20'57
retrograde	-3707 Aug 02 j 14:13	0° \mathbf{Y} 16'41		direct	-3700 Jan 19 j 18:01	10° \mathbf{Y} 56'03
	-3707 Sep 03 j 12:24	30° \mathbf{K}		evening set	-3700 Apr 18 j 06:31	12° \mathbf{Y} 51'39
opposition	-3707 Oct 19 j 16:52	28° \mathbf{K} 52'12	-2°13'16			
min. Earth dist.	-3707 Oct 19 j 12:14	28° \mathbf{K} 52'32	28.86045 AU	conjunction	-3700 May 04 j 14:03	13° \mathbf{Y} 27'43
direct	-3706 Jan 05 j 15:10	27° \mathbf{K} 27'33		minimum elong	-3700 May 04 j 14:03	13° \mathbf{Y} 27'43
evening set	-3706 Apr 04 j 16:09	29° \mathbf{K} 22'51		max. Earth dist.	-3700 May 04 j 12:05	13° \mathbf{Y} 27'32
				morning rise	-3700 May 20 j 20:58	14° \mathbf{Y} 03'46
conjunction	-3706 Apr 20 j 22:17	29° \mathbf{K} 58'52	-2°03'46	retrograde	-3700 Aug 18 j 03:04	15° \mathbf{Y} 59'25
minimum elong	-3706 Apr 20 j 22:17	29° \mathbf{K} 58'52	2°03'47	opposition	-3700 Nov 03 j 18:18	14° \mathbf{Y} 35'14
max. Earth dist.	-3706 Apr 21 j 02:23	29° \mathbf{K} 59'15	30.86227 AU	min. Earth dist.	-3700 Nov 03 j 20:23	14° \mathbf{Y} 35'05
	-3706 Apr 21 j 10:22	0° \mathbf{Y}		direct	-3699 Jan 21 j 07:38	13° \mathbf{Y} 10'09
morning rise	-3706 May 07 j 05:03	0° \mathbf{Y} 34'58		evening set	-3699 Apr 20 j 20:50	15° \mathbf{Y} 05'47
retrograde	-3706 Aug 05 j 02:43	2° \mathbf{Y} 31'41				
opposition	-3706 Oct 22 j 03:29	1° \mathbf{Y} 07'16	-2°11'21	conjunction	-3699 May 07 j 04:20	15° \mathbf{Y} 41'51
min. Earth dist.	-3706 Oct 21 j 23:32	1° \mathbf{Y} 07'33	28.86671 AU	minimum elong	-3699 May 07 j 04:21	15° \mathbf{Y} 41'51
	-3706 Dec 06 j 15:56	30° \mathbf{K}		max. Earth dist.	-3699 May 07 j 00:34	15° \mathbf{Y} 41'30
direct	-3705 Jan 08 j 02:55	29° \mathbf{K} 42'35		morning rise	-3699 May 23 j 11:21	16° \mathbf{Y} 17'53
	-3705 Feb 09 j 09:05	0° \mathbf{Y}		retrograde	-3699 Aug 20 j 14:53	18° \mathbf{Y} 13'22
evening set	-3705 Apr 07 j 06:37	1° \mathbf{Y} 37'59		opposition	-3699 Nov 06 j 04:41	16° \mathbf{Y} 49'14
				min. Earth dist.	-3699 Nov 06 j 07:38	16° \mathbf{Y} 49'01
conjunction	-3705 Apr 23 j 13:06	2° \mathbf{Y} 14'01	-2°01'53	direct	-3698 Jan 23 j 18:21	15° \mathbf{Y} 24'05
minimum elong	-3705 Apr 23 j 13:06	2° \mathbf{Y} 14'01	2°01'53	evening set	-3698 Apr 23 j 10:43	17° \mathbf{Y} 19'45
max. Earth dist.	-3705 Apr 23 j 16:53	2° \mathbf{Y} 14'22	30.86813 AU			
morning rise	-3705 May 09 j 19:47	2° \mathbf{Y} 50'06		conjunction	-3698 May 09 j 18:31	17° \mathbf{Y} 55'50
retrograde	-3705 Aug 07 j 13:46	4° \mathbf{Y} 46'40		minimum elong	-3698 May 09 j 18:31	17° \mathbf{Y} 55'50
opposition	-3705 Oct 24 j 14:06	3° \mathbf{Y} 22'20	-2°09'15	max. Earth dist.	-3698 May 09 j 15:09	17° \mathbf{Y} 55'31
min. Earth dist.	-3705 Oct 24 j 12:00	3° \mathbf{Y} 22'29	28.87212 AU	morning rise	-3698 May 26 j 01:20	18° \mathbf{Y} 31'51
direct	-3704 Jan 10 j 14:33	1° \mathbf{Y} 57'36		retrograde	-3698 Aug 23 j 00:42	20° \mathbf{Y} 27'11
evening set	-3704 Apr 08 j 21:10	3° \mathbf{Y} 53'03		opposition	-3698 Nov 08 j 15:02	19° \mathbf{Y} 03'06
				min. Earth dist.	-3698 Nov 08 j 18:36	19° \mathbf{Y} 02'51
conjunction	-3704 Apr 25 j 03:50	4° \mathbf{Y} 29'06	-1°59'50	direct	-3697 Jan 26 j 06:49	17° \mathbf{Y} 37'56
minimum elong	-3704 Apr 25 j 03:50	4° \mathbf{Y} 29'06	1°59'50	evening set	-3697 Apr 26 j 00:53	19° \mathbf{Y} 33'39
max. Earth dist.	-3704 Apr 25 j 05:34	4° \mathbf{Y} 29'16	30.87321 AU			
morning rise	-3704 May 11 j 10:44	5° \mathbf{Y} 05'11		conjunction	-3697 May 12 j 08:37	20° \mathbf{Y} 09'44
retrograde	-3704 Aug 09 j 02:57	7° \mathbf{Y} 01'35		minimum elong	-3697 May 12 j 08:38	20° \mathbf{Y} 09'44
opposition	-3704 Oct 26 j 00:39	5° \mathbf{Y} 37'18	-2°06'57	max. Earth dist.	-3697 May 12 j 03:24	20° \mathbf{Y} 09'15
min. Earth dist.	-3704 Oct 25 j 22:47	5° \mathbf{Y} 37'26	28.87665 AU	morning rise	-3697 May 28 j 15:34	20° \mathbf{Y} 45'45
direct	-3703 Jan 12 j 03:33	4° \mathbf{Y} 12'30		retrograde	-3697 Aug 25 j 12:27	22° \mathbf{Y} 40'55
evening set	-3703 Apr 11 j 11:40	6° \mathbf{Y} 08'01		opposition	-3697 Nov 11 j 01:12	21° \mathbf{Y} 16'56
				min. Earth dist.	-3697 Nov 11 j 04:59	21° \mathbf{Y} 16'40
conjunction	-3703 Apr 27 j 18:33	6° \mathbf{Y} 44'04	-1°57'35	direct	-3696 Jan 28 j 17:44	19° \mathbf{Y} 51'45
minimum elong	-3703 Apr 27 j 18:33	6° \mathbf{Y} 44'04	1°57'34	evening set	-3696 Apr 27 j 14:57	21° \mathbf{Y} 47'32
max. Earth dist.	-3703 Apr 27 j 19:17	6° \mathbf{Y} 44'08	30.87730 AU			
morning rise	-3703 May 14 j 01:23	7° \mathbf{Y} 20'08		conjunction	-3696 May 13 j 22:56	22° \mathbf{Y} 23'38
retrograde	-3703 Aug 11 j 14:29	9° \mathbf{Y} 16'22		minimum elong	-3696 May 13 j 22:57	22° \mathbf{Y} 23'38
opposition	-3703 Oct 28 j 11:14	7° \mathbf{Y} 52'06	-2°04'27	max. Earth dist.	-3696 May 13 j 17:59	22° \mathbf{Y} 23'10
min. Earth dist.	-3703 Oct 28 j 11:22	7° \mathbf{Y} 52'05	28.88042 AU	morning rise	-3696 May 30 j 05:39	22° \mathbf{Y} 59'39
direct	-3702 Jan 14 j 16:27	6° \mathbf{Y} 27'14		retrograde	-3696 Aug 26 j 22:49	24° \mathbf{Y} 54'41
evening set	-3702 Apr 14 j 02:01	8° \mathbf{Y} 22'47		opposition	-3696 Nov 12 j 11:36	23° \mathbf{Y} 30'49
				min. Earth dist.	-3696 Nov 12 j 16:50	23° \mathbf{Y} 30'26
conjunction	-3702 Apr 30 j 09:08	8° \mathbf{Y} 58'50	-1°55'10	direct	-3695 Jan 30 j 04:34	22° \mathbf{Y} 05'38
minimum elong	-3702 Apr 30 j 09:09	8° \mathbf{Y} 58'50	1°55'10	evening set	-3695 Apr 30 j 05:04	24° \mathbf{Y} 01'31
max. Earth dist.	-3702 Apr 30 j 08:44	8° \mathbf{Y} 58'48	30.88102 AU			
morning rise	-3702 May 16 j 16:03	9° \mathbf{Y} 34'54		conjunction	-3695 May 16 j 12:59	24° \mathbf{Y} 37'36
retrograde	-3702 Aug 14 j 03:16	11° \mathbf{Y} 30'57		minimum elong	-3695 May 16 j 13:00	24° \mathbf{Y} 37'36

Attention, astronomical year style is used: The year -3695 in astronomical counting style is the year 3696 BCE in historical counting style.

max. Earth dist.	-3695 May 16 j 06:27	24° Υ 36'59	30.92651 AU	min. Earth dist.	-3689 Nov 28 j 23:45	9° \mathcal{B} 07'52	28.98329 AU
morning rise	-3695 Jun 01 j 19:44	25° Υ 13'36		direct	-3688 Feb 15 j 21:42	7° \mathcal{B} 43'23	
retrograde	-3695 Aug 29 j 11:06	27° Υ 08'32		evening set	-3688 May 16 j 07:33	9° \mathcal{B} 39'37	
opposition	-3695 Nov 14 j 21:48	25° Υ 44'46	-1°38'15				
min. Earth dist.	-3695 Nov 15 j 02:57	25° Υ 44'24	28.93247 AU	conjunction	-3688 Jun 01 j 15:12	10° \mathcal{B} 15'41	-1°05'26
direct	-3694 Feb 01 j 16:52	24° Υ 19'36		minimum elong	-3688 Jun 01 j 15:13	10° \mathcal{B} 15'41	1°05'21
evening set	-3694 May 02 j 19:10	26° Υ 15'35		max. Earth dist.	-3688 Jun 01 j 00:45	10° \mathcal{B} 14'20	30.98632 AU
				morning rise	-3688 Jun 17 j 20:45	10° \mathcal{B} 51'33	
conjunction	-3694 May 19 j 03:10	26° Υ 51'40	-1°30'02	retrograde	-3688 Sep 13 j 19:36	12° \mathcal{B} 45'26	
minimum elong	-3694 May 19 j 03:11	26° Υ 51'40	1°29'59	opposition	-3688 Nov 29 j 22:22	11° \mathcal{B} 22'11	-1°07'35
max. Earth dist.	-3694 May 18 j 20:06	26° Υ 51'01	30.93688 AU	min. Earth dist.	-3688 Nov 30 j 10:20	11° \mathcal{B} 21'20	28.99033 AU
morning rise	-3694 Jun 04 j 09:42	27° Υ 27'40		direct	-3687 Feb 17 j 09:01	9° \mathcal{B} 56'50	
retrograde	-3694 Aug 31 j 22:13	29° Υ 22'28		evening set	-3687 May 18 j 21:10	11° \mathcal{B} 53'04	
opposition	-3694 Nov 17 j 08:13	27° Υ 58'50	-1°34'15				
min. Earth dist.	-3694 Nov 17 j 15:16	27° Υ 58'20	28.94280 AU	conjunction	-3687 Jun 04 j 04:49	12° \mathcal{B} 29'07	-1°00'58
direct	-3693 Feb 04 j 05:03	26° Υ 33'41		minimum elong	-3687 Jun 04 j 04:50	12° \mathcal{B} 29'07	1°00'52
evening set	-3693 May 05 j 09:15	28° Υ 29'44		max. Earth dist.	-3687 Jun 03 j 14:46	12° \mathcal{B} 27'48	30.99354 AU
				morning rise	-3687 Jun 20 j 09:55	13° \mathcal{B} 04'58	
conjunction	-3693 May 21 j 17:17	29° Υ 05'49	-1°26'14	retrograde	-3687 Sep 16 j 04:55	14° \mathcal{B} 58'40	
minimum elong	-3693 May 21 j 17:18	29° Υ 05'49	1°26'09	opposition	-3687 Dec 02 j 08:45	13° \mathcal{B} 35'28	-1°02'46
max. Earth dist.	-3693 May 21 j 08:56	29° Υ 05'03	30.94709 AU	min. Earth dist.	-3687 Dec 02 j 22:04	13° \mathcal{B} 34'32	28.99786 AU
morning rise	-3693 Jun 06 j 23:46	29° Υ 41'48		direct	-3686 Feb 19 j 20:03	12° \mathcal{B} 10'04	
	-3693 Jun 15 j 12:22	0° \mathcal{B}		evening set	-3686 May 21 j 10:51	14° \mathcal{B} 06'19	
retrograde	-3693 Sep 03 j 10:47	1° \mathcal{B} 36'29					
opposition	-3693 Nov 19 j 18:33	0° \mathcal{B} 12'57	-1°30'07	conjunction	-3686 Jun 06 j 18:12	14° \mathcal{B} 42'20	-0°56'25
min. Earth dist.	-3693 Nov 20 j 01:43	0° \mathcal{B} 12'26	28.95252 AU	minimum elong	-3686 Jun 06 j 18:13	14° \mathcal{B} 42'20	0°56'20
	-3693 Nov 27 j 09:50	30° $\mathcal{R}\Upsilon$		max. Earth dist.	-3686 Jun 06 j 02:46	14° \mathcal{B} 40'54	31.00165 AU
direct	-3692 Feb 06 j 18:59	28° Υ 47'47			-3686 Jun 14 j 16:40	15° \mathcal{B}	
	-3692 Apr 15 j 13:50	0° \mathcal{B}		morning rise	-3686 Jun 22 j 23:10	15° \mathcal{B} 18'10	
evening set	-3692 May 06 j 23:32	0° \mathcal{B} 43'55		retrograde	-3686 Sep 18 j 15:22	17° \mathcal{B} 11'43	
				opposition	-3686 Dec 04 j 18:55	15° \mathcal{B} 48'34	-0°57'52
conjunction	-3692 May 23 j 07:30	1° \mathcal{B} 20'00	-1°22'18	min. Earth dist.	-3686 Dec 05 j 07:47	15° \mathcal{B} 47'40	29.00651 AU
minimum elong	-3692 May 23 j 07:30	1° \mathcal{B} 20'00	1°22'13		-3685 Jan 04 j 07:13	15° $\mathcal{R}\mathcal{B}$	
max. Earth dist.	-3692 May 22 j 21:35	1° \mathcal{B} 19'05	30.95636 AU	direct	-3685 Feb 22 j 08:35	14° \mathcal{B} 23'08	
morning rise	-3692 Jun 08 j 13:47	1° \mathcal{B} 55'58			-3685 Apr 11 j 15:00	15° \mathcal{B}	
retrograde	-3692 Sep 04 j 22:33	3° \mathcal{B} 50'31		evening set	-3685 May 24 j 00:20	16° \mathcal{B} 19'24	
opposition	-3692 Nov 21 j 05:00	2° \mathcal{B} 27'03	-1°25'50				
min. Earth dist.	-3692 Nov 21 j 14:03	2° \mathcal{B} 26'25	28.96136 AU	conjunction	-3685 Jun 09 j 07:38	16° \mathcal{B} 55'25	-0°51'47
direct	-3691 Feb 08 j 06:22	1° \mathcal{B} 01'53		minimum elong	-3685 Jun 09 j 07:38	16° \mathcal{B} 55'25	0°51'41
evening set	-3691 May 09 j 13:40	2° \mathcal{B} 58'03		max. Earth dist.	-3685 Jun 08 j 16:11	16° \mathcal{B} 53'59	31.01087 AU
				morning rise	-3685 Jun 25 j 12:11	17° \mathcal{B} 31'13	
conjunction	-3691 May 25 j 21:41	3° \mathcal{B} 34'09	-1°18'14	retrograde	-3685 Sep 21 j 00:54	19° \mathcal{B} 24'38	
minimum elong	-3691 May 25 j 21:42	3° \mathcal{B} 34'09	1°18'09	opposition	-3685 Dec 07 j 05:21	18° \mathcal{B} 01'32	-0°52'52
max. Earth dist.	-3691 May 25 j 11:15	3° \mathcal{B} 33'10	30.96480 AU	min. Earth dist.	-3685 Dec 07 j 19:36	18° \mathcal{B} 00'32	29.01635 AU
morning rise	-3691 Jun 11 j 03:44	4° \mathcal{B} 10'05		direct	-3684 Feb 24 j 20:11	16° \mathcal{B} 36'06	
retrograde	-3691 Sep 07 j 11:10	6° \mathcal{B} 04'28		evening set	-3684 May 25 j 13:55	18° \mathcal{B} 32'24	
opposition	-3691 Nov 23 j 15:26	4° \mathcal{B} 41'05	-1°21'26				
min. Earth dist.	-3691 Nov 24 j 00:58	4° \mathcal{B} 40'25	28.96921 AU	conjunction	-3684 Jun 10 j 20:57	19° \mathcal{B} 08'23	-0°47'05
direct	-3690 Feb 10 j 20:47	3° \mathcal{B} 15'53		minimum elong	-3684 Jun 10 j 20:57	19° \mathcal{B} 08'23	0°46'58
evening set	-3690 May 12 j 03:39	5° \mathcal{B} 12'05		max. Earth dist.	-3684 Jun 10 j 04:43	19° \mathcal{B} 06'53	31.02141 AU
				morning rise	-3684 Jun 27 j 01:13	19° \mathcal{B} 44'09	
conjunction	-3690 May 28 j 11:29	5° \mathcal{B} 48'10	-1°14'04	retrograde	-3684 Sep 22 j 12:21	21° \mathcal{B} 37'27	
minimum elong	-3690 May 28 j 11:29	5° \mathcal{B} 48'10	1°14'00	opposition	-3684 Dec 08 j 15:35	20° \mathcal{B} 14'27	-0°47'48
max. Earth dist.	-3690 May 27 j 23:04	5° \mathcal{B} 47'01	30.97234 AU	min. Earth dist.	-3684 Dec 09 j 05:24	20° \mathcal{B} 13'28	29.02732 AU
morning rise	-3690 Jun 13 j 17:27	6° \mathcal{B} 24'05		direct	-3683 Feb 26 j 09:08	18° \mathcal{B} 49'00	
retrograde	-3690 Sep 09 j 22:38	8° \mathcal{B} 18'19		evening set	-3683 May 28 j 03:28	20° \mathcal{B} 45'22	
opposition	-3690 Nov 26 j 01:50	6° \mathcal{B} 54'59	-1°16'56				
min. Earth dist.	-3690 Nov 26 j 12:29	6° \mathcal{B} 54'13	28.97648 AU	conjunction	-3683 Jun 13 j 10:13	21° \mathcal{B} 21'20	-0°42'18
direct	-3689 Feb 13 j 08:28	5° \mathcal{B} 29'44		minimum elong	-3683 Jun 13 j 10:14	21° \mathcal{B} 21'20	0°42'11
evening set	-3689 May 14 j 17:32	7° \mathcal{B} 25'57		max. Earth dist.	-3683 Jun 12 j 17:16	21° \mathcal{B} 19'46	31.03289 AU
				morning rise	-3683 Jun 29 j 14:07	21° \mathcal{B} 57'05	
conjunction	-3689 May 31 j 01:28	8° \mathcal{B} 02'01	-1°09'48	retrograde	-3683 Sep 24 j 23:36	23° \mathcal{B} 50'16	
minimum elong	-3689 May 31 j 01:29	8° \mathcal{B} 02'01	1°09'43	opposition	-3683 Dec 11 j 02:04	22° \mathcal{B} 27'22	-0°42'39
max. Earth dist.	-3689 May 30 j 13:05	8° \mathcal{B} 00'52	30.97940 AU	min. Earth dist.	-3683 Dec 11 j 17:14	22° \mathcal{B} 26'18	29.03919 AU
morning rise	-3689 Jun 16 j 07:06	8° \mathcal{B} 37'56		direct	-3682 Feb 28 j 20:24	21° \mathcal{B} 01'57	
retrograde	-3689 Sep 12 j 08:12	10° \mathcal{B} 31'58		evening set	-3682 May 30 j 16:45	22° \mathcal{B} 58'21	
opposition	-3689 Nov 28 j 12:05	9° \mathcal{B} 08'41	-1°12'19				

Attention, astronomical year style is used: The year -3682 in astronomical counting style is the year 3683 BCE in historical counting style.

conjunction	-3682 Jun 15 j 23:19	23° 8 34'18	-0°37'27	conjunction	-3676 Jun 29 j 05:15	6° II 51'37	-0°07'35
minimum elong	-3682 Jun 15 j 23:19	23° 8 34'18	0°37'20	minimum elong	-3676 Jun 29 j 05:15	6° II 51'37	0°07'27
max. Earth dist.	-3682 Jun 15 j 06:20	23° 8 32'44	31.04498 AU	behind sun begin	-3676 Jun 28 j 23:16	6° II 51'05	
morning rise	-3682 Jul 02 j 02:50	24° 8 10'01		behind sun end	-3676 Jun 29 j 11:13	6° II 52'09	
retrograde	-3682 Sep 27 j 11:29	26° 8 03'06		morning rise	-3676 Jul 15 j 05:59	7° II 27'07	
opposition	-3682 Dec 13 j 12:29	24° 8 40'18	-0°37'27	retrograde	-3676 Oct 10 j 01:28	9° II 19'34	
min. Earth dist.	-3682 Dec 14 j 03:54	24° 8 39'13	29.05113 AU	opposition	-3676 Dec 26 j 03:53	7° II 57'09	-0°05'24
direct	-3681 Mar 03 j 10:44	23° 8 14'56		min. Earth dist.	-3676 Dec 27 j 00:33	7° II 55'42	29.10399 AU
evening set	-3681 Jun 02 j 06:20	25° 8 11'23		direct	-3675 Mar 16 j 11:15	6° II 31'42	
				evening set	-3675 Jun 15 j 13:51	8° II 28'17	
conjunction	-3681 Jun 18 j 12:30	25° 8 47'19	-0°32'33				
minimum elong	-3681 Jun 18 j 12:30	25° 8 47'19	0°32'26	conjunction	-3675 Jul 01 j 17:43	9° II 04'02	-0°02'33
max. Earth dist.	-3681 Jun 17 j 17:50	25° 8 45'35	31.05675 AU	minimum elong	-3675 Jul 01 j 17:44	9° II 04'02	0°02'25
morning rise	-3681 Jul 04 j 15:41	26° 8 23'00		behind sun begin	-3675 Jul 01 j 11:11	9° II 03'27	
retrograde	-3681 Sep 29 j 23:04	28° 8 16'00		behind sun end	-3675 Jul 02 j 00:16	9° II 04'37	
opposition	-3681 Dec 15 j 22:53	26° 8 53'17	-0°32'11	max. Earth dist.	-3675 Jun 30 j 18:50	9° II 01'54	31.10702 AU
min. Earth dist.	-3681 Dec 16 j 15:18	26° 8 52'08	29.06266 AU	morning rise	-3675 Jul 17 j 18:03	9° II 39'29	
direct	-3680 Mar 04 j 22:27	25° 8 27'55		retrograde	-3675 Oct 12 j 12:04	11° II 31'51	
evening set	-3680 Jun 03 j 19:48	27° 8 24'26		opposition	-3675 Dec 28 j 14:26	10° II 09'26	-0°00'00
max. Earth dist.	-3680 Jun 19 j 07:11	27° 8 58'37	31.06777 AU	asc. node	-3675 Dec 28 j 20:20	10° II 09'02	
				min. Earth dist.	-3675 Dec 29 j 10:33	10° II 08'02	29.11051 AU
conjunction	-3680 Jun 20 j 01:46	28° 8 00'20	-0°27'37	direct	-3674 Mar 18 j 23:47	8° II 43'58	
minimum elong	-3680 Jun 20 j 01:46	28° 8 00'20	0°27'30	evening set	-3674 Jun 18 j 02:33	10° II 40'33	
morning rise	-3680 Jul 06 j 04:23	28° 8 35'59		max. Earth dist.	-3674 Jul 03 j 06:38	11° II 14'05	31.11368 AU
	-3680 Aug 20 j 23:14	0° II					
retrograde	-3680 Oct 01 j 09:15	0° II 28'53		conjunction	-3674 Jul 04 j 05:58	11° II 16'15	0°02'38
	-3680 Nov 12 j 15:14	30° 8		minimum elong	-3674 Jul 04 j 05:57	11° II 16'15	0°02'46
opposition	-3680 Dec 17 j 09:32	29° 8 06'16	-0°26'53	behind sun begin	-3674 Jul 03 j 23:25	11° II 15'40	
min. Earth dist.	-3680 Dec 18 j 02:58	29° 8 05'02	29.07305 AU	behind sun end	-3674 Jul 04 j 12:30	11° II 16'50	
direct	-3679 Mar 07 j 11:47	27° 8 40'55		morning rise	-3674 Jul 20 j 05:44	11° II 51'40	
evening set	-3679 Jun 06 j 09:14	29° 8 37'27		retrograde	-3674 Oct 14 j 22:27	13° II 43'57	
	-3679 Jun 16 j 15:13	0° II		opposition	-3674 Dec 31 j 01:05	12° II 21'34	0°05'23
				min. Earth dist.	-3674 Dec 31 j 22:14	12° II 20'05	29.11759 AU
conjunction	-3679 Jun 22 j 14:39	0° II 13'20	-0°22'38	direct	-3673 Mar 21 j 11:28	10° II 56'04	
minimum elong	-3679 Jun 22 j 14:39	0° II 13'20	0°22'31	evening set	-3673 Jun 20 j 15:15	12° II 52'39	
max. Earth dist.	-3679 Jun 21 j 18:01	0° II 11'25	31.07759 AU				
morning rise	-3679 Jul 08 j 16:58	0° II 48'56		conjunction	-3673 Jul 06 j 18:13	13° II 28'19	0°07'39
retrograde	-3679 Oct 03 j 21:02	2° II 41'44		minimum elong	-3673 Jul 06 j 18:13	13° II 28'19	0°07'47
opposition	-3679 Dec 19 j 20:08	1° II 19'11	-0°21'32	behind sun begin	-3673 Jul 06 j 12:20	13° II 27'48	
min. Earth dist.	-3679 Dec 20 j 13:51	1° II 17'56	29.08232 AU	behind sun end	-3673 Jul 07 j 00:06	13° II 28'51	
	-3678 Feb 18 j 08:49	30° 8		max. Earth dist.	-3673 Jul 05 j 19:13	13° II 26'11	31.12116 AU
direct	-3678 Mar 09 j 23:38	29° 8 53'49		morning rise	-3673 Jul 22 j 17:24	14° II 03'41	
	-3678 Mar 29 j 10:18	0° II		retrograde	-3673 Oct 17 j 09:27	15° II 55'53	
evening set	-3678 Jun 08 j 22:29	1° II 50'23		opposition	-3672 Jan 02 j 11:36	14° II 33'32	0°10'45
max. Earth dist.	-3678 Jun 24 j 07:16	2° II 24'21	31.08620 AU	min. Earth dist.	-3672 Jan 03 j 08:30	14° II 32'05	29.12548 AU
				direct	-3672 Mar 23 j 01:50	13° II 08'03	
conjunction	-3678 Jun 25 j 03:42	2° II 26'14	-0°17'38	evening set	-3672 Jun 22 j 04:00	15° II 04'39	
minimum elong	-3678 Jun 25 j 03:42	2° II 26'14	0°17'31	max. Earth dist.	-3672 Jul 07 j 06:24	15° II 38'04	31.12961 AU
morning rise	-3678 Jul 11 j 05:23	3° II 01'49					
retrograde	-3678 Oct 06 j 06:14	4° II 54'30		conjunction	-3672 Jul 08 j 06:20	15° II 40'17	0°12'39
opposition	-3678 Dec 22 j 06:43	3° II 32'00	-0°16'10	minimum elong	-3672 Jul 08 j 06:19	15° II 40'17	0°12'47
min. Earth dist.	-3678 Dec 23 j 02:04	3° II 30'38	29.09035 AU	behind sun begin	-3672 Jul 08 j 02:18	15° II 39'56	
direct	-3677 Mar 12 j 11:14	2° II 06'37		behind sun end	-3672 Jul 08 j 10:21	15° II 40'39	
evening set	-3677 Jun 11 j 11:46	4° II 03'12		morning rise	-3672 Jul 24 j 05:00	16° II 15'37	
				retrograde	-3672 Oct 18 j 20:31	18° II 07'45	
conjunction	-3677 Jun 27 j 16:29	4° II 39'01	-0°12'36	opposition	-3671 Jan 03 j 22:18	16° II 45'27	0°16'07
minimum elong	-3677 Jun 27 j 16:29	4° II 39'01	0°12'29	min. Earth dist.	-3671 Jan 04 j 19:22	16° II 43'59	29.13461 AU
behind sun begin	-3677 Jun 27 j 12:18	4° II 38'38		direct	-3671 Mar 25 j 13:20	15° II 19'59	
behind sun end	-3677 Jun 27 j 20:40	4° II 39'23		evening set	-3671 Jun 24 j 16:21	17° II 16'37	
max. Earth dist.	-3677 Jun 26 j 18:22	4° II 36'57	31.09380 AU				
morning rise	-3677 Jul 13 j 17:52	5° II 14'33		conjunction	-3671 Jul 10 j 18:17	17° II 52'12	0°17'39
retrograde	-3677 Oct 08 j 16:30	7° II 07'07		minimum elong	-3671 Jul 10 j 18:17	17° II 52'12	0°17'47
opposition	-3677 Dec 24 j 17:14	5° II 44'40	-0°10'47	max. Earth dist.	-3671 Jul 09 j 19:19	17° II 50'05	31.13923 AU
min. Earth dist.	-3677 Dec 25 j 12:21	5° II 43'19	29.09745 AU	morning rise	-3671 Jul 26 j 16:15	18° II 27'29	
direct	-3676 Mar 13 j 23:57	4° II 19'15		retrograde	-3671 Oct 21 j 06:33	20° II 19'34	
evening set	-3676 Jun 13 j 00:52	6° II 15'50		opposition	-3670 Jan 06 j 09:02	18° II 57'22	0°21'27
max. Earth dist.	-3676 Jun 28 j 07:05	6° II 49'34	31.10050 AU	min. Earth dist.	-3670 Jan 07 j 06:29	18° II 55'52	29.14460 AU

Attention, astronomical year style is used: The year -3670 in astronomical counting style is the year 3671 BCE in historical counting style.

direct	-3670 Mar 28 j 02:36	17°II31'56		conjunction	-3664 Jul 26 j 04:24	3°☾15'33	0°51'29
evening set	-3670 Jun 27 j 04:55	19°II28'36		minimum elong	-3664 Jul 26 j 04:24	3°☾15'33	0°51'38
max. Earth dist.	-3670 Jul 12 j 05:52	20°II01'54	31.14959 AU	morning rise	-3664 Aug 10 j 22:00	3°☾50'30	
				retrograde	-3664 Nov 05 j 05:16	5°☾42'19	
conjunction	-3670 Jul 13 j 06:08	20°II04'09	0°22'37	opposition	-3663 Jan 21 j 13:33	4°☾20'24	0°57'25
minimum elong	-3670 Jul 13 j 06:08	20°II04'09	0°22'46	min. Earth dist.	-3663 Jan 22 j 13:24	4°☾18'46	29.20193 AU
morning rise	-3670 Jul 29 j 03:40	20°II39'23		direct	-3663 Apr 12 j 15:22	2°☾55'05	
retrograde	-3670 Oct 23 j 18:41	22°II31'26		evening set	-3663 Jul 12 j 18:36	4°☾51'44	
opposition	-3669 Jan 08 j 19:35	21°II09'18	0°26'45				
min. Earth dist.	-3669 Jan 09 j 16:47	21°II07'50	29.15519 AU	conjunction	-3663 Jul 28 j 15:29	5°☾26'58	0°56'04
direct	-3669 Mar 30 j 14:48	19°II43'55		minimum elong	-3663 Jul 28 j 15:29	5°☾26'58	0°56'12
evening set	-3669 Jun 29 j 17:19	21°II40'38		max. Earth dist.	-3663 Jul 27 j 13:02	5°☾24'30	31.20371 AU
				morning rise	-3663 Aug 13 j 08:31	6°☾01'53	
conjunction	-3669 Jul 15 j 18:09	22°II16'09	0°27'34	retrograde	-3663 Nov 07 j 16:06	7°☾53'39	
minimum elong	-3669 Jul 15 j 18:08	22°II16'09	0°27'42	opposition	-3662 Jan 24 j 00:36	6°☾31'43	1°02'15
max. Earth dist.	-3669 Jul 14 j 18:37	22°II13'58	31.16007 AU	min. Earth dist.	-3662 Jan 25 j 00:34	6°☾30'04	29.20666 AU
morning rise	-3669 Jul 31 j 14:54	22°II51'20		direct	-3662 Apr 15 j 02:37	5°☾06'22	
retrograde	-3669 Oct 26 j 03:56	24°II43'21		evening set	-3662 Jul 15 j 06:15	7°☾03'00	
opposition	-3668 Jan 11 j 06:31	23°II21'18	0°32'00	max. Earth dist.	-3662 Jul 30 j 01:16	7°☾35'48	31.20833 AU
min. Earth dist.	-3668 Jan 12 j 05:01	23°II19'44	29.16550 AU				
direct	-3668 Apr 01 j 02:57	21°II53'58		conjunction	-3662 Jul 31 j 02:38	7°☾38'10	1°00'33
evening set	-3668 Jul 01 j 05:50	23°II52'42		minimum elong	-3662 Jul 31 j 02:37	7°☾38'10	1°00'42
max. Earth dist.	-3668 Jul 16 j 05:08	24°II25'52	31.17007 AU	morning rise	-3662 Aug 15 j 18:54	8°☾13'01	
				retrograde	-3662 Nov 10 j 01:41	10°☾04'45	
conjunction	-3668 Jul 17 j 05:53	24°II28'10	0°32'28	opposition	-3661 Jan 26 j 11:36	8°☾42'49	1°07'00
minimum elong	-3668 Jul 17 j 05:53	24°II28'10	0°32'37	min. Earth dist.	-3661 Jan 27 j 11:51	8°☾41'09	29.21138 AU
morning rise	-3668 Aug 02 j 02:09	25°II03'19		direct	-3661 Apr 17 j 16:27	7°☾17'27	
retrograde	-3668 Oct 27 j 14:00	26°II55'18		evening set	-3661 Jul 17 j 18:00	9°☾14'03	
opposition	-3667 Jan 12 j 17:22	25°II33'19	0°37'13	max. Earth dist.	-3661 Aug 01 j 11:13	9°☾46'44	31.21330 AU
min. Earth dist.	-3667 Jan 13 j 15:19	25°II31'48	29.17509 AU				
direct	-3667 Apr 03 j 15:12	24°II08'00		conjunction	-3661 Aug 02 j 13:32	9°☾49'11	1°04'57
evening set	-3667 Jul 03 j 18:12	26°II04'45		minimum elong	-3661 Aug 02 j 13:31	9°☾49'11	1°05'05
				morning rise	-3661 Aug 18 j 05:18	10°☾23'58	
conjunction	-3667 Jul 19 j 17:44	26°II40'11	0°37'19	retrograde	-3661 Nov 12 j 13:25	12°☾15'41	
minimum elong	-3667 Jul 19 j 17:43	26°II40'11	0°37'27	opposition	-3660 Jan 28 j 22:40	10°☾53'45	1°11'39
max. Earth dist.	-3667 Jul 18 j 17:10	26°II37'54	31.17903 AU	min. Earth dist.	-3660 Jan 29 j 22:04	10°☾52'08	29.21684 AU
morning rise	-3667 Aug 04 j 13:13	27°II15'17		direct	-3660 Apr 19 j 05:08	9°☾28'22	
retrograde	-3667 Oct 29 j 23:10	29°II07'14		evening set	-3660 Jul 19 j 05:24	11°☾24'58	
opposition	-3666 Jan 15 j 04:28	27°II45'17	0°42'22	max. Earth dist.	-3660 Aug 02 j 23:28	11°☾57'43	31.21911 AU
min. Earth dist.	-3666 Jan 16 j 03:48	27°II43'40	29.18362 AU				
direct	-3666 Apr 06 j 01:50	26°II20'00		conjunction	-3660 Aug 04 j 00:23	12°☾00'03	1°09'15
evening set	-3666 Jul 06 j 06:25	28°II16'44		minimum elong	-3660 Aug 04 j 00:22	12°☾00'03	1°09'24
max. Earth dist.	-3666 Jul 21 j 04:02	28°II49'46	31.18693 AU	morning rise	-3660 Aug 19 j 15:17	12°☾34'47	
				retrograde	-3660 Nov 13 j 22:19	14°☾26'31	
conjunction	-3666 Jul 22 j 05:18	28°II52'07	0°42'06	opposition	-3659 Jan 30 j 09:59	13°☾04'35	1°16'12
minimum elong	-3666 Jul 22 j 05:18	28°II52'07	0°42'15	min. Earth dist.	-3659 Jan 31 j 09:56	13°☾02'56	29.22325 AU
morning rise	-3666 Aug 07 j 00:16	29°II27'10		direct	-3659 Apr 21 j 17:35	11°☾39'15	
	-3666 Aug 22 j 15:35	0°☾		evening set	-3659 Jul 21 j 16:54	13°☾35'51	
retrograde	-3666 Nov 01 j 09:22	1°☾19'04		max. Earth dist.	-3659 Aug 05 j 09:44	14°☾08'30	31.22614 AU
	-3665 Jan 15 j 22:21	30°☾II					
opposition	-3665 Jan 17 j 15:25	29°II57'10	0°47'28	conjunction	-3659 Aug 06 j 11:03	14°☾10'52	1°13'27
min. Earth dist.	-3665 Jan 18 j 14:16	29°II55'35	29.19081 AU	minimum elong	-3659 Aug 06 j 11:02	14°☾10'52	1°13'35
direct	-3665 Apr 08 j 14:06	28°II31'52		morning rise	-3659 Aug 22 j 01:27	14°☾45'34	
	-3665 Jun 25 j 05:21	0°☾		retrograde	-3659 Nov 16 j 08:27	16°☾37'18	
evening set	-3665 Jul 08 j 18:40	0°☾28'35		opposition	-3658 Feb 01 j 21:05	15°☾15'25	1°20'38
				min. Earth dist.	-3658 Feb 02 j 19:41	15°☾13'52	29.23084 AU
conjunction	-3665 Jul 24 j 16:55	1°☾03'55	0°46'50	direct	-3658 Apr 24 j 05:34	13°☾50'08	
minimum elong	-3665 Jul 24 j 16:54	1°☾03'55	0°46'58	evening set	-3658 Jul 24 j 04:06	15°☾46'44	
max. Earth dist.	-3665 Jul 23 j 15:01	1°☾01'31	31.19342 AU				
morning rise	-3665 Aug 09 j 11:11	1°☾38'56		conjunction	-3658 Aug 08 j 21:43	16°☾21'44	1°17'33
retrograde	-3665 Nov 03 j 19:10	3°☾30'47		minimum elong	-3658 Aug 08 j 21:42	16°☾21'44	1°17'42
opposition	-3664 Jan 20 j 02:26	2°☾08'53	0°52'29	max. Earth dist.	-3658 Aug 07 j 21:19	16°☾19'27	31.23407 AU
min. Earth dist.	-3664 Jan 21 j 02:26	2°☾07'14	29.19686 AU	morning rise	-3658 Aug 24 j 11:22	16°☾56'23	
direct	-3664 Apr 10 j 01:44	0°☾43'34		retrograde	-3658 Nov 18 j 17:47	18°☾48'09	
evening set	-3664 Jul 10 j 06:46	2°☾40'16		opposition	-3657 Feb 04 j 08:25	17°☾26'20	1°24'57
max. Earth dist.	-3664 Jul 25 j 02:48	3°☾13'10	31.19896 AU	min. Earth dist.	-3657 Feb 05 j 07:48	17°☾24'44	29.23916 AU
				direct	-3657 Apr 26 j 16:00	16°☾01'08	

Planetary Phenomena of Neptune from -3900 through -3398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 20

Attention, astronomical year style is used: The year -3657 in astronomical counting style is the year 3658 BCE in historical counting style.

evening set	-3657 Jul 26 j 15:27	17° $\mathring{\text{D}}$ 57'45		max. Earth dist.	-3651 Aug 22 j 23:37	1° $\mathring{\Omega}$ 37'39	31.27647 AU
max. Earth dist.	-3657 Aug 10 j 07:57	18° $\mathring{\text{D}}$ 30'24	31.24255 AU	morning rise	-3651 Sep 08 j 08:08	2° $\mathring{\Omega}$ 14'12	
				retrograde	-3651 Dec 03 j 19:47	4° $\mathring{\Omega}$ 06'19	
conjunction	-3657 Aug 11 j 08:18	18° $\mathring{\text{D}}$ 32'41	1°21'32	opposition	-3650 Feb 19 j 17:39	2° $\mathring{\Omega}$ 44'36	1°51'25
minimum elong	-3657 Aug 11 j 08:17	18° $\mathring{\text{D}}$ 32'41	1°21'40	min. Earth dist.	-3650 Feb 20 j 16:43	2° $\mathring{\Omega}$ 43'02	29.27875 AU
morning rise	-3657 Aug 26 j 21:22	19° $\mathring{\text{D}}$ 07'18		direct	-3650 May 12 j 04:08	1° $\mathring{\Omega}$ 19'43	
retrograde	-3657 Nov 21 j 03:55	20° $\mathring{\text{D}}$ 59'07		evening set	-3650 Aug 10 j 20:52	3° $\mathring{\Omega}$ 16'12	
opposition	-3656 Feb 06 j 19:41	19° $\mathring{\text{D}}$ 37'22	1°29'09	max. Earth dist.	-3650 Aug 25 j 09:14	3° $\mathring{\Omega}$ 48'34	31.27842 AU
min. Earth dist.	-3656 Feb 07 j 18:03	19° $\mathring{\text{D}}$ 35'50	29.24759 AU				
direct	-3656 Apr 28 j 03:41	18° $\mathring{\text{D}}$ 12'15		conjunction	-3650 Aug 26 j 08:57	3° $\mathring{\Omega}$ 50'48	1°45'49
evening set	-3656 Jul 28 j 02:46	20° $\mathring{\text{D}}$ 08'53		minimum elong	-3650 Aug 26 j 08:56	3° $\mathring{\Omega}$ 50'48	1°45'57
				morning rise	-3650 Sep 10 j 17:44	4° $\mathring{\Omega}$ 25'06	
conjunction	-3656 Aug 12 j 18:54	20° $\mathring{\text{D}}$ 43'46	1°25'24	retrograde	-3650 Dec 06 j 05:59	6° $\mathring{\Omega}$ 17'14	
minimum elong	-3656 Aug 12 j 18:53	20° $\mathring{\text{D}}$ 43'46	1°25'33	opposition	-3649 Feb 22 j 05:20	4° $\mathring{\Omega}$ 55'30	1°54'35
max. Earth dist.	-3656 Aug 11 j 18:28	20° $\mathring{\text{D}}$ 41'29	31.25078 AU	min. Earth dist.	-3649 Feb 23 j 03:03	4° $\mathring{\Omega}$ 54'01	29.28050 AU
morning rise	-3656 Aug 28 j 07:17	21° $\mathring{\text{D}}$ 18'21		direct	-3649 May 14 j 17:21	3° $\mathring{\Omega}$ 30'36	
retrograde	-3656 Nov 22 j 14:14	23° $\mathring{\text{D}}$ 10'14		evening set	-3649 Aug 13 j 07:25	5° $\mathring{\Omega}$ 27'01	
opposition	-3655 Feb 08 j 07:16	21° $\mathring{\text{D}}$ 48'32	1°33'13				
min. Earth dist.	-3655 Feb 09 j 06:16	21° $\mathring{\text{D}}$ 46'57	29.25573 AU	conjunction	-3649 Aug 28 j 18:56	6° $\mathring{\Omega}$ 01'34	1°48'43
direct	-3655 Apr 30 j 14:18	20° $\mathring{\text{D}}$ 23'29		minimum elong	-3649 Aug 28 j 18:55	6° $\mathring{\Omega}$ 01'34	1°48'50
evening set	-3655 Jul 30 j 13:50	22° $\mathring{\text{D}}$ 20'07		max. Earth dist.	-3649 Aug 27 j 20:12	5° $\mathring{\Omega}$ 59'26	31.27999 AU
max. Earth dist.	-3655 Aug 14 j 05:40	22° $\mathring{\text{D}}$ 52'45	31.25845 AU	morning rise	-3649 Sep 13 j 03:01	6° $\mathring{\Omega}$ 35'50	
				retrograde	-3649 Dec 08 j 15:30	8° $\mathring{\Omega}$ 28'00	
conjunction	-3655 Aug 15 j 05:21	22° $\mathring{\text{D}}$ 54'58	1°29'09	opposition	-3648 Feb 24 j 17:14	7° $\mathring{\Omega}$ 06'13	1°57'36
minimum elong	-3655 Aug 15 j 05:20	22° $\mathring{\text{D}}$ 54'58	1°29'16	min. Earth dist.	-3648 Feb 25 j 15:24	7° $\mathring{\Omega}$ 04'42	29.28232 AU
morning rise	-3655 Aug 30 j 17:03	23° $\mathring{\text{D}}$ 29'30		direct	-3648 May 16 j 05:13	5° $\mathring{\Omega}$ 41'20	
retrograde	-3655 Nov 25 j 00:31	25° $\mathring{\text{D}}$ 21'27		evening set	-3648 Aug 14 j 17:54	7° $\mathring{\Omega}$ 37'41	
opposition	-3654 Feb 10 j 18:52	23° $\mathring{\text{D}}$ 59'47	1°37'09	max. Earth dist.	-3648 Aug 29 j 06:36	8° $\mathring{\Omega}$ 10'06	31.28208 AU
min. Earth dist.	-3654 Feb 11 j 17:32	23° $\mathring{\text{D}}$ 58'14	29.26284 AU				
direct	-3654 May 03 j 02:36	22° $\mathring{\text{D}}$ 34'48		conjunction	-3648 Aug 30 j 04:44	8° $\mathring{\Omega}$ 12'11	1°51'27
evening set	-3654 Aug 02 j 01:07	24° $\mathring{\text{D}}$ 31'26		minimum elong	-3648 Aug 30 j 04:43	8° $\mathring{\Omega}$ 12'11	1°51'35
				morning rise	-3648 Sep 14 j 12:19	8° $\mathring{\Omega}$ 46'24	
conjunction	-3654 Aug 17 j 15:49	25° $\mathring{\text{D}}$ 06'13	1°32'46	retrograde	-3648 Dec 10 j 00:56	10° $\mathring{\Omega}$ 38'37	
minimum elong	-3654 Aug 17 j 15:49	25° $\mathring{\text{D}}$ 06'13	1°32'53	opposition	-3647 Feb 26 j 05:05	9° $\mathring{\Omega}$ 16'48	2°00'26
max. Earth dist.	-3654 Aug 16 j 15:18	25° $\mathring{\text{D}}$ 03'56	31.26491 AU	min. Earth dist.	-3647 Feb 27 j 01:36	9° $\mathring{\Omega}$ 15'24	29.28476 AU
morning rise	-3654 Sep 02 j 02:59	25° $\mathring{\text{D}}$ 40'43		direct	-3647 May 18 j 17:51	7° $\mathring{\Omega}$ 51'57	
retrograde	-3654 Nov 27 j 11:53	27° $\mathring{\text{D}}$ 32'43		evening set	-3647 Aug 17 j 04:10	9° $\mathring{\Omega}$ 48'13	
opposition	-3653 Feb 13 j 06:21	26° $\mathring{\text{D}}$ 11'04	1°40'56				
min. Earth dist.	-3653 Feb 14 j 05:05	26° $\mathring{\text{D}}$ 09'31	29.26881 AU	conjunction	-3647 Sep 01 j 14:22	10° $\mathring{\Omega}$ 22'41	1°54'02
direct	-3653 May 05 j 12:49	24° $\mathring{\text{D}}$ 46'08		minimum elong	-3647 Sep 01 j 14:22	10° $\mathring{\Omega}$ 22'41	1°54'08
evening set	-3653 Aug 04 j 12:14	26° $\mathring{\text{D}}$ 42'45		max. Earth dist.	-3647 Aug 31 j 16:39	10° $\mathring{\Omega}$ 20'38	31.28489 AU
max. Earth dist.	-3653 Aug 19 j 02:53	27° $\mathring{\text{D}}$ 15'18	31.27007 AU	morning rise	-3647 Sep 16 j 21:27	10° $\mathring{\Omega}$ 56'52	
				retrograde	-3647 Dec 12 j 10:30	12° $\mathring{\Omega}$ 49'09	
conjunction	-3653 Aug 20 j 02:24	27° $\mathring{\text{D}}$ 17'30	1°36'14	opposition	-3646 Feb 28 j 17:03	11° $\mathring{\Omega}$ 27'19	2°03'06
minimum elong	-3653 Aug 20 j 02:24	27° $\mathring{\text{D}}$ 17'30	1°36'22	min. Earth dist.	-3646 Mar 01 j 13:31	11° $\mathring{\Omega}$ 25'55	29.28815 AU
morning rise	-3653 Sep 04 j 12:47	27° $\mathring{\text{D}}$ 51'57		direct	-3646 May 21 j 04:07	10° $\mathring{\Omega}$ 02'31	
retrograde	-3653 Nov 29 j 22:13	29° $\mathring{\text{D}}$ 44'00		evening set	-3646 Aug 19 j 14:25	11° $\mathring{\Omega}$ 58'44	
opposition	-3652 Feb 15 j 18:09	28° $\mathring{\text{D}}$ 22'21	1°44'35	max. Earth dist.	-3646 Sep 03 j 03:48	12° $\mathring{\Omega}$ 31'15	31.28865 AU
min. Earth dist.	-3652 Feb 16 j 17:12	28° $\mathring{\text{D}}$ 20'46	29.27326 AU				
direct	-3652 May 07 j 02:43	26° $\mathring{\text{D}}$ 57'27		conjunction	-3646 Sep 04 j 00:07	12° $\mathring{\Omega}$ 33'09	1°56'27
evening set	-3652 Aug 05 j 23:18	28° $\mathring{\text{D}}$ 54'02		minimum elong	-3646 Sep 04 j 00:07	12° $\mathring{\Omega}$ 33'09	1°56'33
				morning rise	-3646 Sep 19 j 06:37	13° $\mathring{\Omega}$ 07'19	
conjunction	-3652 Aug 21 j 12:37	29° $\mathring{\text{D}}$ 28'44	1°39'35	retrograde	-3646 Dec 14 j 19:53	14° $\mathring{\Omega}$ 59'40	
minimum elong	-3652 Aug 21 j 12:36	29° $\mathring{\text{D}}$ 28'44	1°39'43	opposition	-3645 Mar 03 j 04:51	13° $\mathring{\Omega}$ 37'50	2°05'36
max. Earth dist.	-3652 Aug 20 j 12:06	29° $\mathring{\text{D}}$ 26'26	31.27386 AU	min. Earth dist.	-3645 Mar 04 j 00:25	13° $\mathring{\Omega}$ 36'30	29.29214 AU
	-3652 Sep 04 j 12:27	0° $\mathring{\Omega}$		direct	-3645 May 23 j 15:42	12° $\mathring{\Omega}$ 13'06	
morning rise	-3652 Sep 05 j 22:33	0° $\mathring{\Omega}$ 03'07		evening set	-3645 Aug 22 j 00:45	14° $\mathring{\Omega}$ 09'18	
retrograde	-3652 Dec 01 j 10:41	1° $\mathring{\Omega}$ 55'13					
opposition	-3651 Feb 17 j 05:53	0° $\mathring{\Omega}$ 33'32	1°48'04	conjunction	-3645 Sep 06 j 09:44	14° $\mathring{\Omega}$ 43'40	1°58'41
min. Earth dist.	-3651 Feb 18 j 04:10	0° $\mathring{\Omega}$ 32'01	29.27651 AU	minimum elong	-3645 Sep 06 j 09:44	14° $\mathring{\Omega}$ 43'40	1°58'47
	-3651 Mar 10 j 07:30	30° $\mathring{\text{R}}$ $\mathring{\text{D}}$		max. Earth dist.	-3645 Sep 05 j 13:14	14° $\mathring{\Omega}$ 41'45	31.29289 AU
direct	-3651 May 09 j 15:39	29° $\mathring{\text{D}}$ 08'39			-3645 Sep 13 j 15:44	15° $\mathring{\Omega}$	
	-3651 Jul 06 j 09:41	0° $\mathring{\Omega}$		morning rise	-3645 Sep 21 j 15:52	15° $\mathring{\Omega}$ 17'48	
evening set	-3651 Aug 08 j 10:07	1° $\mathring{\Omega}$ 05'12		retrograde	-3645 Dec 17 j 07:37	17° $\mathring{\Omega}$ 10'15	
				opposition	-3644 Mar 04 j 16:56	15° $\mathring{\Omega}$ 48'26	2°07'54
conjunction	-3651 Aug 23 j 22:57	1° $\mathring{\Omega}$ 39'51	1°42'47	min. Earth dist.	-3644 Mar 05 j 11:51	15° $\mathring{\Omega}$ 47'09	29.29658 AU
minimum elong	-3651 Aug 23 j 22:57	1° $\mathring{\Omega}$ 39'51	1°42'54		-3644 Apr 05 j 08:10	15° $\mathring{\text{R}}$ $\mathring{\Omega}$	

Attention, astronomical year style is used: The year -3644 in astronomical counting style is the year 3645 BCE in historical counting style.

direct	-3644 May 25 j 01:31	14°Ω23'46		conjunction	-3638 Sep 21 j 04:38	29°Ω59'15	2°09'30
	-3644 Jul 12 j 03:04	15°Ω		minimum elong	-3638 Sep 21 j 04:38	29°Ω59'15	2°09'34
evening set	-3644 Aug 23 j 10:48	16°Ω19'56			-3638 Sep 21 j 12:34	0°Π	
				morning rise	-3638 Oct 06 j 07:57	0°Π33'13	
conjunction	-3644 Sep 07 j 19:21	16°Ω54'17	2°00'46	retrograde	-3637 Jan 01 j 10:10	2°Π26'21	
minimum elong	-3644 Sep 07 j 19:21	16°Ω54'17	2°00'52	opposition	-3637 Mar 21 j 07:23	1°Π04'22	2°18'47
max. Earth dist.	-3644 Sep 07 j 00:33	16°Ω52'31	31.29721 AU	min. Earth dist.	-3637 Mar 21 j 23:37	1°Π03'16	29.30095 AU
morning rise	-3644 Sep 23 j 00:52	17°Ω28'23			-3637 May 05 j 09:18	30°RΩ	
retrograde	-3644 Dec 18 j 17:59	19°Ω20'56		direct	-3637 Jun 10 j 14:37	29°Ω40'04	
opposition	-3643 Mar 07 j 05:12	17°Ω59'07	2°10'02		-3637 Jul 15 j 19:09	0°Π	
min. Earth dist.	-3643 Mar 07 j 23:58	17°Ω57'51	29.30069 AU	evening set	-3637 Sep 08 j 08:47	1°Π35'49	
direct	-3643 May 27 j 14:20	16°Ω34'33					
evening set	-3643 Aug 25 j 21:04	18°Ω30'41		conjunction	-3637 Sep 23 j 13:59	2°Π09'56	2°10'19
max. Earth dist.	-3643 Sep 09 j 09:33	19°Ω03'10	31.30102 AU	minimum elong	-3637 Sep 23 j 13:59	2°Π09'56	2°10'22
				max. Earth dist.	-3637 Sep 22 j 22:29	2°Π08'29	31.29756 AU
conjunction	-3643 Sep 10 j 04:55	19°Ω04'59	2°02'40	morning rise	-3637 Oct 08 j 16:55	2°Π43'53	
minimum elong	-3643 Sep 10 j 04:55	19°Ω04'59	2°02'45	retrograde	-3636 Jan 03 j 19:21	4°Π37'06	
morning rise	-3643 Sep 25 j 10:09	19°Ω39'04		opposition	-3636 Mar 22 j 19:55	3°Π15'02	2°19'34
retrograde	-3643 Dec 21 j 06:46	21°Ω31'44		min. Earth dist.	-3636 Mar 23 j 11:02	3°Π14'01	29.29743 AU
opposition	-3642 Mar 09 j 17:16	20°Ω09'55	2°11'58	direct	-3636 Jun 12 j 02:31	1°Π50'46	
min. Earth dist.	-3642 Mar 10 j 10:58	20°Ω08'43	29.30416 AU	evening set	-3636 Sep 09 j 18:20	3°Π46'24	
direct	-3642 May 30 j 01:45	18°Ω45'25					
evening set	-3642 Aug 28 j 07:09	20°Ω41'32		conjunction	-3636 Sep 24 j 23:00	4°Π20'30	2°10'57
				minimum elong	-3636 Sep 24 j 23:00	4°Π20'30	2°11'01
conjunction	-3642 Sep 12 j 14:38	21°Ω15'48	2°04'23	max. Earth dist.	-3636 Sep 24 j 07:32	4°Π19'03	31.29415 AU
minimum elong	-3642 Sep 12 j 14:38	21°Ω15'48	2°04'30	morning rise	-3636 Oct 10 j 01:48	4°Π54'26	
max. Earth dist.	-3642 Sep 11 j 20:33	21°Ω14'06	31.30381 AU	retrograde	-3635 Jan 05 j 06:54	6°Π47'46	
morning rise	-3642 Sep 27 j 19:17	21°Ω49'51		opposition	-3635 Mar 25 j 08:27	5°Π25'37	2°20'09
retrograde	-3642 Dec 23 j 16:47	23°Ω42'38		min. Earth dist.	-3635 Mar 25 j 22:32	5°Π24'40	29.29436 AU
opposition	-3641 Mar 12 j 05:42	22°Ω20'48	2°13'43	direct	-3635 Jun 14 j 12:33	4°Π01'22	
min. Earth dist.	-3641 Mar 13 j 00:01	22°Ω19'34	29.30633 AU	evening set	-3635 Sep 12 j 03:46	5°Π56'55	
direct	-3641 Jun 01 j 13:41	20°Ω56'23					
evening set	-3641 Aug 30 j 17:20	22°Ω52'27		conjunction	-3635 Sep 27 j 08:14	6°Π30'59	2°11'23
max. Earth dist.	-3641 Sep 14 j 05:51	23°Ω24'57	31.30528 AU	minimum elong	-3635 Sep 27 j 08:14	6°Π30'59	2°11'27
				max. Earth dist.	-3635 Sep 26 j 18:49	6°Π29'44	31.29135 AU
conjunction	-3641 Sep 15 j 00:10	23°Ω26'41	2°05'56	morning rise	-3635 Oct 12 j 10:38	7°Π04'55	
minimum elong	-3641 Sep 15 j 00:10	23°Ω26'41	2°06'01	retrograde	-3634 Jan 07 j 16:58	8°Π58'20	
morning rise	-3641 Sep 30 j 04:30	24°Ω00'42		opposition	-3634 Mar 27 j 20:51	7°Π36'08	2°20'31
retrograde	-3641 Dec 26 j 04:04	25°Ω53'34		min. Earth dist.	-3634 Mar 28 j 10:18	7°Π35'14	29.29196 AU
opposition	-3640 Mar 13 j 18:03	24°Ω31'44	2°15'16	direct	-3634 Jun 17 j 00:46	6°Π11'56	
min. Earth dist.	-3640 Mar 14 j 10:57	24°Ω30'36	29.30704 AU	evening set	-3634 Sep 14 j 13:17	8°Π07'25	
direct	-3640 Jun 03 j 02:51	23°Ω07'22					
evening set	-3640 Sep 01 j 03:23	25°Ω03'22		conjunction	-3634 Sep 29 j 17:16	8°Π41'28	2°11'39
				minimum elong	-3634 Sep 29 j 17:16	8°Π41'28	2°11'43
conjunction	-3640 Sep 16 j 09:48	25°Ω37'35	2°07'18	max. Earth dist.	-3634 Sep 29 j 03:49	8°Π40'12	31.28947 AU
minimum elong	-3640 Sep 16 j 09:48	25°Ω37'35	2°07'24	morning rise	-3634 Oct 14 j 19:39	9°Π15'23	
max. Earth dist.	-3640 Sep 15 j 16:11	25°Ω35'55	31.30516 AU	retrograde	-3633 Jan 10 j 05:45	11°Π08'55	
morning rise	-3640 Oct 01 j 13:42	26°Ω11'35		opposition	-3633 Mar 30 j 09:19	9°Π46'40	2°20'42
retrograde	-3640 Dec 27 j 14:41	28°Ω04'33		min. Earth dist.	-3633 Mar 30 j 21:00	9°Π45'53	29.29050 AU
opposition	-3639 Mar 16 j 06:37	26°Ω42'41	2°16'38	direct	-3633 Jun 19 j 11:11	8°Π22'32	
min. Earth dist.	-3639 Mar 17 j 00:06	26°Ω41'30	29.30627 AU	evening set	-3633 Sep 16 j 22:31	10°Π17'57	
direct	-3639 Jun 05 j 14:53	25°Ω18'21					
evening set	-3639 Sep 03 j 13:15	27°Ω14'17		conjunction	-3633 Oct 02 j 02:19	10°Π52'00	2°11'43
				minimum elong	-3633 Oct 02 j 02:19	10°Π52'00	2°11'46
conjunction	-3639 Sep 18 j 19:14	27°Ω48'27	2°08'29	max. Earth dist.	-3633 Oct 01 j 14:44	10°Π50'54	31.28833 AU
minimum elong	-3639 Sep 18 j 19:14	27°Ω48'27	2°08'34	morning rise	-3633 Oct 17 j 04:22	11°Π25'54	
max. Earth dist.	-3639 Sep 18 j 02:08	27°Ω46'51	31.30370 AU	retrograde	-3632 Jan 12 j 16:00	13°Π19'34	
morning rise	-3639 Oct 03 j 22:50	28°Ω22'26		opposition	-3632 Mar 31 j 22:01	11°Π57'18	2°20'40
	-3639 Nov 29 j 16:37	0°Π		min. Earth dist.	-3632 Apr 01 j 09:40	11°Π56'31	29.28962 AU
retrograde	-3639 Dec 30 j 00:28	0°Π15'29		direct	-3632 Jun 20 j 22:11	10°Π33'14	
	-3638 Jan 30 j 03:16	30°RΩ		evening set	-3632 Sep 18 j 07:54	12°Π28'36	
opposition	-3638 Mar 18 j 19:00	28°Ω53'34	2°17'49				
min. Earth dist.	-3638 Mar 19 j 11:06	28°Ω52'29	29.30406 AU	conjunction	-3632 Oct 03 j 11:21	13°Π02'37	2°11'36
direct	-3638 Jun 08 j 03:57	27°Ω29'16		minimum elong	-3632 Oct 03 j 11:21	13°Π02'37	2°11'39
evening set	-3638 Sep 05 j 23:08	29°Ω25'06		max. Earth dist.	-3632 Oct 03 j 00:15	13°Π01'34	31.28776 AU
max. Earth dist.	-3638 Sep 20 j 11:34	29°Ω57'39	31.30092 AU	morning rise	-3632 Oct 18 j 13:21	13°Π36'32	
				retrograde	-3631 Jan 14 j 04:12	15°Π30'19	

Attention, astronomical year style is used: The year -3631 in astronomical counting style is the year 3632 BCE in historical counting style.

opposition	-3631 Apr 03 j 10:36	14° <u>08</u> '02	2°20'26	max. Earth dist.	-3625 Oct 18 j 20:44	28° <u>18</u> '09	31.26293 AU
min. Earth dist.	-3631 Apr 03 j 20:19	14° <u>07</u> '22	29.28908 AU	morning rise	-3625 Nov 03 j 04:51	28° <u>52</u> '42	
direct	-3631 Jun 23 j 11:10	12° <u>44</u> '03			-3625 Dec 07 j 03:55	0° <u>00</u> '00	
evening set	-3631 Sep 20 j 17:06	14° <u>39</u> '20		retrograde	-3624 Jan 30 j 08:35	0° <u>47</u> '17	
					-3624 Mar 27 j 13:19	30° <u>08</u> '00	
conjunction	-3631 Oct 05 j 20:22	15° <u>13</u> '22	2°11'17	opposition	-3624 Apr 19 j 04:44	29° <u>24</u> '33	2°13'15
minimum elong	-3631 Oct 05 j 20:22	15° <u>13</u> '22	2°11'19	min. Earth dist.	-3624 Apr 19 j 09:23	29° <u>24</u> '14	29.26078 AU
max. Earth dist.	-3631 Oct 05 j 10:18	15° <u>12</u> '25	31.28709 AU	direct	-3624 Jul 08 j 19:56	28° <u>00</u> '51	
morning rise	-3631 Oct 20 j 22:14	15° <u>47</u> '16		evening set	-3624 Oct 05 j 09:41	29° <u>55</u> '26	
retrograde	-3630 Jan 16 j 16:05	17° <u>41</u> '12			-3624 Oct 07 j 11:08	0° <u>00</u> '00	
opposition	-3630 Apr 05 j 23:23	16° <u>18</u> '52	2°20'00				
min. Earth dist.	-3630 Apr 06 j 09:21	16° <u>18</u> '12	29.28825 AU	conjunction	-3624 Oct 20 j 12:03	0° <u>29</u> '25	2°03'54
direct	-3630 Jun 25 j 22:55	14° <u>54</u> '59		minimum elong	-3624 Oct 20 j 12:03	0° <u>29</u> '25	2°03'55
evening set	-3630 Sep 23 j 02:25	16° <u>50</u> '12		max. Earth dist.	-3624 Oct 20 j 07:32	0° <u>28</u> '59	31.25581 AU
				morning rise	-3624 Nov 04 j 13:52	1° <u>03</u> '23	
conjunction	-3630 Oct 08 j 05:27	17° <u>24</u> '13	2°10'47	retrograde	-3623 Jan 31 j 19:04	2° <u>58</u> '04	
minimum elong	-3630 Oct 08 j 05:28	17° <u>24</u> '13	2°10'49	opposition	-3623 Apr 21 j 17:42	1° <u>35</u> '13	2°11'27
max. Earth dist.	-3630 Oct 07 j 20:20	17° <u>23</u> '21	31.28597 AU	min. Earth dist.	-3623 Apr 21 j 22:14	1° <u>34</u> '55	29.25381 AU
morning rise	-3630 Oct 23 j 07:12	17° <u>58</u> '07		direct	-3623 Jul 11 j 07:01	0° <u>11</u> '33	
retrograde	-3629 Jan 19 j 02:11	19° <u>52</u> '10		evening set	-3623 Oct 07 j 18:38	2° <u>06</u> '01	
opposition	-3629 Apr 08 j 12:04	18° <u>29</u> '49	2°19'22				
min. Earth dist.	-3629 Apr 08 j 20:25	18° <u>29</u> '16	29.28659 AU	conjunction	-3623 Oct 22 j 20:55	2° <u>40</u> '00	2°02'08
direct	-3629 Jun 28 j 11:41	17° <u>06</u> '00		minimum elong	-3623 Oct 22 j 20:56	2° <u>40</u> '00	2°02'07
evening set	-3629 Sep 25 j 11:50	19° <u>01</u> '09		max. Earth dist.	-3623 Oct 22 j 17:13	2° <u>39</u> '39	31.24924 AU
				morning rise	-3623 Nov 06 j 22:57	3° <u>13</u> '59	
conjunction	-3629 Oct 10 j 14:35	19° <u>35</u> '08	2°10'05	retrograde	-3622 Feb 03 j 07:28	5° <u>08</u> '46	
minimum elong	-3629 Oct 10 j 14:35	19° <u>35</u> '08	2°10'07	opposition	-3622 Apr 24 j 06:29	3° <u>45</u> '51	2°09'27
max. Earth dist.	-3629 Oct 10 j 05:32	19° <u>34</u> '17	31.28381 AU	min. Earth dist.	-3622 Apr 24 j 08:49	3° <u>45</u> '41	29.24755 AU
morning rise	-3629 Oct 25 j 16:20	20° <u>09</u> '04		direct	-3622 Jul 13 j 19:33	2° <u>22</u> '12	
retrograde	-3628 Jan 21 j 12:49	22° <u>03</u> '14		evening set	-3622 Oct 10 j 03:35	4° <u>16</u> '35	
opposition	-3628 Apr 10 j 01:04	20° <u>40</u> '50	2°18'32				
min. Earth dist.	-3628 Apr 10 j 09:24	20° <u>40</u> '17	29.28392 AU	conjunction	-3622 Oct 25 j 05:50	4° <u>50</u> '34	2°00'11
direct	-3628 Jun 29 j 22:33	19° <u>17</u> '04		minimum elong	-3622 Oct 25 j 05:50	4° <u>50</u> '34	2°00'10
evening set	-3628 Sep 26 j 21:00	21° <u>12</u> '07		max. Earth dist.	-3622 Oct 25 j 03:17	4° <u>50</u> '20	31.24339 AU
				morning rise	-3622 Nov 09 j 07:58	5° <u>24</u> '34	
conjunction	-3628 Oct 11 j 23:44	21° <u>46</u> '07	2°09'13	retrograde	-3621 Feb 05 j 19:37	7° <u>19</u> '29	
minimum elong	-3628 Oct 11 j 23:44	21° <u>46</u> '07	2°09'14	opposition	-3621 Apr 26 j 19:26	5° <u>56</u> '30	2°07'17
max. Earth dist.	-3628 Oct 11 j 16:14	21° <u>45</u> '24	31.28050 AU	min. Earth dist.	-3621 Apr 26 j 21:32	5° <u>56</u> '21	29.24224 AU
morning rise	-3628 Oct 27 j 01:20	22° <u>20</u> '02		direct	-3621 Jul 16 j 06:45	4° <u>32</u> '55	
retrograde	-3627 Jan 22 j 22:27	24° <u>14</u> '20		evening set	-3621 Oct 12 j 12:28	6° <u>27</u> '13	
opposition	-3627 Apr 12 j 14:02	22° <u>51</u> '52	2°17'30				
min. Earth dist.	-3627 Apr 12 j 21:24	22° <u>51</u> '22	29.27981 AU	conjunction	-3621 Oct 27 j 14:49	7° <u>01</u> '13	1°58'03
direct	-3627 Jul 02 j 11:10	21° <u>28</u> '08		minimum elong	-3621 Oct 27 j 14:50	7° <u>01</u> '13	1°58'02
evening set	-3627 Sep 29 j 06:26	23° <u>23</u> '05		max. Earth dist.	-3621 Oct 27 j 13:49	7° <u>01</u> '07	31.23870 AU
				morning rise	-3621 Nov 11 j 17:04	7° <u>35</u> '14	
conjunction	-3627 Oct 14 j 08:52	23° <u>57</u> '04	2°08'09	retrograde	-3620 Feb 08 j 06:20	9° <u>30</u> '17	
minimum elong	-3627 Oct 14 j 08:53	23° <u>57</u> '04	2°08'10	opposition	-3620 Apr 28 j 08:21	8° <u>07</u> '15	2°04'55
max. Earth dist.	-3627 Oct 14 j 01:00	23° <u>56</u> '20	31.27576 AU	min. Earth dist.	-3620 Apr 28 j 08:16	8° <u>07</u> '16	29.23787 AU
morning rise	-3627 Oct 29 j 10:38	24° <u>31</u> '01		direct	-3620 Jul 17 j 19:07	6° <u>43</u> '46	
retrograde	-3626 Jan 25 j 10:23	26° <u>25</u> '24		evening set	-3620 Oct 13 j 21:21	8° <u>37</u> '58	
opposition	-3626 Apr 15 j 02:49	25° <u>02</u> '52	2°16'16				
min. Earth dist.	-3626 Apr 15 j 09:32	25° <u>02</u> '25	29.27444 AU	conjunction	-3620 Oct 28 j 23:40	9° <u>12</u> '00	1°55'46
direct	-3626 Jul 04 j 21:29	23° <u>39</u> '09		minimum elong	-3620 Oct 28 j 23:40	9° <u>12</u> '00	1°55'45
evening set	-3626 Oct 01 j 15:36	25° <u>33</u> '59		max. Earth dist.	-3620 Oct 28 j 23:06	9° <u>11</u> '56	31.23477 AU
				morning rise	-3620 Nov 13 j 02:14	9° <u>46</u> '03	
conjunction	-3626 Oct 16 j 18:07	26° <u>07</u> '58	2°06'55	retrograde	-3619 Feb 09 j 17:49	11° <u>41</u> '15	
minimum elong	-3626 Oct 16 j 18:07	26° <u>07</u> '58	2°06'56	opposition	-3619 Apr 30 j 21:25	10° <u>18</u> '11	2°02'23
max. Earth dist.	-3626 Oct 16 j 11:55	26° <u>07</u> '23	31.26976 AU	min. Earth dist.	-3619 Apr 30 j 20:56	10° <u>18</u> '13	29.23423 AU
morning rise	-3626 Oct 31 j 19:45	26° <u>41</u> '55		direct	-3619 Jul 20 j 05:48	8° <u>54</u> '47	
retrograde	-3625 Jan 27 j 20:08	28° <u>36</u> '24		evening set	-3619 Oct 16 j 06:16	10° <u>48</u> '56	
opposition	-3625 Apr 17 j 15:48	27° <u>13</u> '46	2°14'51				
min. Earth dist.	-3625 Apr 17 j 22:08	27° <u>13</u> '20	29.26783 AU	conjunction	-3619 Oct 31 j 08:49	11° <u>22</u> '58	1°53'18
direct	-3625 Jul 07 j 09:35	25° <u>50</u> '04		minimum elong	-3619 Oct 31 j 08:49	11° <u>22</u> '58	1°53'16
evening set	-3625 Oct 04 j 00:42	27° <u>44</u> '46		max. Earth dist.	-3619 Oct 31 j 10:14	11° <u>23</u> '06	31.23131 AU
				morning rise	-3619 Nov 15 j 11:27	11° <u>57</u> '03	
conjunction	-3625 Oct 19 j 03:00	28° <u>18</u> '45	2°05'30	retrograde	-3618 Feb 12 j 04:07	13° <u>52</u> '24	
minimum elong	-3625 Oct 19 j 03:00	28° <u>18</u> '45	2°05'30	opposition	-3618 May 03 j 10:15	12° <u>29</u> '20	1°59'39

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Attention, astronomical year style is used: The year -3618 in astronomical counting style is the year 3619 BCE in historical counting style.

min. Earth dist.	-3618 May 03 j 08:33	12° <u>♂</u> 29'26	29.23066 AU	morning rise	-3612 Nov 30 j 06:38	27° <u>♂</u> 18'02	
direct	-3618 Jul 22 j 18:02	11° <u>♂</u> 06'01		retrograde	-3611 Feb 27 j 16:34	29° <u>♂</u> 14'14	
evening set	-3618 Oct 18 j 15:22	13° <u>♂</u> 00'05		opposition	-3611 May 19 j 06:23	27° <u>♂</u> 50'40	1°35'56
				min. Earth dist.	-3611 May 18 j 22:57	27° <u>♂</u> 51'10	29.18122 AU
conjunction	-3618 Nov 02 j 17:51	13° <u>♂</u> 34'09	1°50'39	direct	-3611 Aug 06 j 23:46	26° <u>♂</u> 27'36	
minimum elong	-3618 Nov 02 j 17:51	13° <u>♂</u> 34'09	1°50'38	evening set	-3611 Nov 02 j 07:11	28° <u>♂</u> 21'00	
max. Earth dist.	-3618 Nov 02 j 19:10	13° <u>♂</u> 34'16	31.22775 AU				
morning rise	-3618 Nov 17 j 20:53	14° <u>♂</u> 08'16		conjunction	-3611 Nov 17 j 11:03	28° <u>♂</u> 55'12	1°27'58
retrograde	-3617 Feb 14 j 16:47	16° <u>♂</u> 03'47		minimum elong	-3611 Nov 17 j 11:04	28° <u>♂</u> 55'12	1°27'53
opposition	-3617 May 05 j 23:22	14° <u>♂</u> 40'41	1°56'45	max. Earth dist.	-3611 Nov 17 j 17:47	28° <u>♂</u> 55'50	31.17563 AU
min. Earth dist.	-3617 May 05 j 20:48	14° <u>♂</u> 40'51	29.22689 AU	morning rise	-3611 Dec 02 j 16:27	29° <u>♂</u> 29'33	
direct	-3617 Jul 25 j 04:00	13° <u>♂</u> 17'27			-3611 Dec 16 j 21:18	0° <u>♂</u>	
evening set	-3617 Oct 21 j 00:18	15° <u>♂</u> 11'27		retrograde	-3610 Mar 02 j 04:56	1° <u>♂</u> 25'50	
				opposition	-3610 May 21 j 19:23	0° <u>♂</u> 02'09	1°31'57
conjunction	-3617 Nov 05 j 03:03	15° <u>♂</u> 45'32	1°47'52	min. Earth dist.	-3610 May 21 j 11:37	0° <u>♂</u> 02'41	29.17166 AU
minimum elong	-3617 Nov 05 j 03:03	15° <u>♂</u> 45'32	1°47'49		-3610 May 23 j 03:14	30° <u>♂</u>	
max. Earth dist.	-3617 Nov 05 j 06:12	15° <u>♂</u> 45'50	31.22361 AU	direct	-3610 Aug 09 j 11:13	28° <u>♂</u> 39'06	
morning rise	-3617 Nov 20 j 06:11	16° <u>♂</u> 19'41			-3610 Oct 20 j 11:46	0° <u>♂</u>	
retrograde	-3616 Feb 17 j 02:54	18° <u>♂</u> 15'21		evening set	-3610 Nov 04 j 16:13	0° <u>♂</u> 32'22	
opposition	-3616 May 07 j 12:36	16° <u>♂</u> 52'13	1°53'40				
min. Earth dist.	-3616 May 07 j 09:35	16° <u>♂</u> 52'25	29.22223 AU	conjunction	-3610 Nov 19 j 20:31	1° <u>♂</u> 06'36	1°24'10
direct	-3616 Jul 26 j 15:25	15° <u>♂</u> 29'04		minimum elong	-3610 Nov 19 j 20:31	1° <u>♂</u> 06'36	1°24'06
evening set	-3616 Oct 22 j 09:32	17° <u>♂</u> 22'59		max. Earth dist.	-3610 Nov 20 j 05:22	1° <u>♂</u> 07'27	31.16644 AU
				morning rise	-3610 Dec 05 j 02:08	1° <u>♂</u> 41'00	
conjunction	-3616 Nov 06 j 12:18	17° <u>♂</u> 57'05	1°44'54	retrograde	-3609 Mar 04 j 15:54	3° <u>♂</u> 37'22	
minimum elong	-3616 Nov 06 j 12:18	17° <u>♂</u> 57'05	1°44'53	opposition	-3609 May 24 j 08:27	2° <u>♂</u> 13'36	1°27'50
max. Earth dist.	-3616 Nov 06 j 15:16	17° <u>♂</u> 57'22	31.21854 AU	min. Earth dist.	-3609 May 23 j 23:10	2° <u>♂</u> 14'13	29.16280 AU
morning rise	-3616 Nov 21 j 15:51	18° <u>♂</u> 31'16		direct	-3609 Aug 12 j 00:21	0° <u>♂</u> 50'33	
retrograde	-3615 Feb 18 j 15:59	20° <u>♂</u> 27'04		evening set	-3609 Nov 07 j 01:19	2° <u>♂</u> 43'44	
opposition	-3615 May 10 j 01:39	19° <u>♂</u> 03'54	1°50'26				
min. Earth dist.	-3615 May 09 j 21:16	19° <u>♂</u> 04'11	29.21651 AU	conjunction	-3609 Nov 22 j 05:44	3° <u>♂</u> 17'59	1°20'16
direct	-3615 Jul 29 j 00:53	17° <u>♂</u> 40'48		minimum elong	-3609 Nov 22 j 05:44	3° <u>♂</u> 18'00	1°20'11
evening set	-3615 Oct 24 j 18:41	19° <u>♂</u> 34'38		max. Earth dist.	-3609 Nov 22 j 14:43	3° <u>♂</u> 18'51	31.15816 AU
				morning rise	-3609 Dec 07 j 11:56	3° <u>♂</u> 52'26	
conjunction	-3615 Nov 08 j 21:43	20° <u>♂</u> 08'45	1°41'48	retrograde	-3608 Mar 06 j 04:13	5° <u>♂</u> 48'55	
minimum elong	-3615 Nov 08 j 21:44	20° <u>♂</u> 08'45	1°41'45	opposition	-3608 May 25 j 21:35	4° <u>♂</u> 25'04	1°23'35
max. Earth dist.	-3615 Nov 09 j 01:52	20° <u>♂</u> 09'09	31.21207 AU	min. Earth dist.	-3608 May 25 j 11:11	4° <u>♂</u> 25'46	29.15501 AU
morning rise	-3615 Nov 24 j 01:31	20° <u>♂</u> 42'59		direct	-3608 Aug 13 j 10:28	3° <u>♂</u> 02'04	
retrograde	-3614 Feb 21 j 03:16	22° <u>♂</u> 38'54		evening set	-3608 Nov 08 j 10:25	4° <u>♂</u> 55'09	
opposition	-3614 May 12 j 14:55	21° <u>♂</u> 15'39	1°47'02				
min. Earth dist.	-3614 May 12 j 10:50	21° <u>♂</u> 15'56	29.20926 AU	conjunction	-3608 Nov 23 j 15:18	5° <u>♂</u> 29'27	1°16'13
direct	-3614 Jul 31 j 11:44	19° <u>♂</u> 52'35		minimum elong	-3608 Nov 23 j 15:18	5° <u>♂</u> 29'27	1°16'10
evening set	-3614 Oct 27 j 03:51	21° <u>♂</u> 46'20		max. Earth dist.	-3608 Nov 24 j 02:19	5° <u>♂</u> 30'29	31.15079 AU
				morning rise	-3608 Dec 08 j 21:49	6° <u>♂</u> 03'55	
conjunction	-3614 Nov 11 j 07:03	22° <u>♂</u> 20'28	1°38'33	retrograde	-3607 Mar 08 j 14:08	8° <u>♂</u> 00'32	
minimum elong	-3614 Nov 11 j 07:04	22° <u>♂</u> 20'28	1°38'30	opposition	-3607 May 28 j 10:32	6° <u>♂</u> 36'38	1°19'13
max. Earth dist.	-3614 Nov 11 j 11:38	22° <u>♂</u> 20'54	31.20425 AU	min. Earth dist.	-3607 May 27 j 23:27	6° <u>♂</u> 37'23	29.14797 AU
morning rise	-3614 Nov 26 j 11:12	22° <u>♂</u> 54'43		direct	-3607 Aug 15 j 22:07	5° <u>♂</u> 13'40	
retrograde	-3613 Feb 23 j 16:33	24° <u>♂</u> 50'45		evening set	-3607 Nov 10 j 19:40	7° <u>♂</u> 06'42	
opposition	-3613 May 15 j 04:02	23° <u>♂</u> 27'24	1°43'29				
min. Earth dist.	-3613 May 14 j 22:14	23° <u>♂</u> 27'47	29.20066 AU	conjunction	-3607 Nov 26 j 00:47	7° <u>♂</u> 41'01	1°12'04
direct	-3613 Aug 03 j 00:08	22° <u>♂</u> 04'21		minimum elong	-3607 Nov 26 j 00:48	7° <u>♂</u> 41'01	1°11'59
evening set	-3613 Oct 29 j 13:01	23° <u>♂</u> 57'59		max. Earth dist.	-3607 Nov 26 j 11:58	7° <u>♂</u> 42'05	31.14420 AU
				morning rise	-3607 Dec 11 j 07:53	8° <u>♂</u> 15'32	
conjunction	-3613 Nov 13 j 16:25	24° <u>♂</u> 32'08	1°35'09	retrograde	-3606 Mar 11 j 03:24	10° <u>♂</u> 12'17	
minimum elong	-3613 Nov 13 j 16:26	24° <u>♂</u> 32'08	1°35'05	opposition	-3606 May 30 j 23:32	8° <u>♂</u> 48'20	1°14'43
max. Earth dist.	-3613 Nov 13 j 21:35	24° <u>♂</u> 32'38	31.19513 AU	min. Earth dist.	-3606 May 30 j 10:50	8° <u>♂</u> 49'12	29.14151 AU
morning rise	-3613 Nov 28 j 20:58	25° <u>♂</u> 06'25		direct	-3606 Aug 18 j 07:49	7° <u>♂</u> 25'26	
retrograde	-3612 Feb 26 j 05:25	27° <u>♂</u> 02'33		evening set	-3606 Nov 13 j 04:52	9° <u>♂</u> 18'24	
opposition	-3612 May 16 j 17:20	25° <u>♂</u> 39'05	1°39'47				
min. Earth dist.	-3612 May 16 j 11:46	25° <u>♂</u> 39'28	29.19113 AU	conjunction	-3606 Nov 28 j 10:21	9° <u>♂</u> 52'46	1°07'49
direct	-3612 Aug 04 j 10:54	24° <u>♂</u> 16'02		minimum elong	-3606 Nov 28 j 10:21	9° <u>♂</u> 52'46	1°07'44
evening set	-3612 Oct 30 j 22:00	26° <u>♂</u> 09'32		max. Earth dist.	-3606 Nov 28 j 22:56	9° <u>♂</u> 53'57	31.13778 AU
				morning rise	-3606 Dec 13 j 17:49	10° <u>♂</u> 27'20	
conjunction	-3612 Nov 15 j 01:45	26° <u>♂</u> 43'43	1°31'37	retrograde	-3605 Mar 13 j 14:45	12° <u>♂</u> 24'13	
minimum elong	-3612 Nov 15 j 01:46	26° <u>♂</u> 43'43	1°31'34	opposition	-3605 Jun 02 j 12:43	11° <u>♂</u> 00'14	1°10'06
max. Earth dist.	-3612 Nov 15 j 08:20	26° <u>♂</u> 44'21	31.18545 AU	min. Earth dist.	-3605 Jun 02 j 00:07	11° <u>♂</u> 01'06	29.13506 AU

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Attention, astronomical year style is used: The year -3605 in astronomical counting style is the year 3606 BCE in historical counting style.

direct	-3605 Aug 20 j 18:19	9° \mathbb{M} 37'24		minimum elong	-3599 Dec 13 j 08:42	25° \mathbb{M} 19'03	0°35'23
evening set	-3605 Nov 15 j 14:17	11° \mathbb{M} 30'19		max. Earth dist.	-3599 Dec 14 j 01:45	25° \mathbb{M} 20'40	31.07182 AU
				morning rise	-3599 Dec 28 j 19:39	25° \mathbb{M} 53'57	
conjunction	-3605 Nov 30 j 20:07	12° \mathbb{M} 04'42	1°03'27	retrograde	-3598 Mar 29 j 07:14	27° \mathbb{M} 51'33	
minimum elong	-3605 Nov 30 j 20:08	12° \mathbb{M} 04'42	1°03'21	opposition	-3598 Jun 18 j 08:04	26° \mathbb{M} 27'05	0°35'17
max. Earth dist.	-3605 Dec 01 j 09:26	12° \mathbb{M} 05'58	31.13136 AU	min. Earth dist.	-3598 Jun 17 j 15:18	26° \mathbb{M} 28'14	29.06612 AU
morning rise	-3605 Dec 16 j 04:04	12° \mathbb{M} 39'19		direct	-3598 Sep 05 j 03:19	25° \mathbb{M} 04'19	
retrograde	-3604 Mar 15 j 04:29	14° \mathbb{M} 36'20		evening set	-3598 Nov 30 j 10:11	26° \mathbb{M} 56'49	
min. Earth dist.	-3604 Jun 03 j 11:31	13° \mathbb{M} 13'18	29.12833 AU				
opposition	-3604 Jun 04 j 01:47	13° \mathbb{M} 12'20	1°05'23	conjunction	-3598 Dec 15 j 18:45	27° \mathbb{M} 31'27	0°30'38
direct	-3604 Aug 22 j 05:26	11° \mathbb{M} 49'33		minimum elong	-3598 Dec 15 j 18:45	27° \mathbb{M} 31'27	0°30'31
evening set	-3604 Nov 16 j 23:49	13° \mathbb{M} 42'26		max. Earth dist.	-3598 Dec 16 j 11:57	27° \mathbb{M} 33'05	31.06018 AU
				morning rise	-3598 Dec 31 j 06:17	28° \mathbb{M} 06'23	
conjunction	-3604 Dec 02 j 05:58	14° \mathbb{M} 16'51	0°58'59		-3597 Mar 16 j 00:06	0° \mathbb{M}	
minimum elong	-3604 Dec 02 j 05:58	14° \mathbb{M} 16'51	0°58'53	retrograde	-3597 Mar 31 j 20:45	0° \mathbb{M} 04'04	
max. Earth dist.	-3604 Dec 02 j 19:38	14° \mathbb{M} 18'09	31.12421 AU		-3597 Apr 16 j 20:13	30° \mathbb{R} \mathbb{M}	
morning rise	-3604 Dec 17 j 14:28	14° \mathbb{M} 51'31		opposition	-3597 Jun 20 j 20:55	28° \mathbb{M} 39'31	0°30'02
	-3604 Dec 21 j 10:57	15° \mathbb{M}		min. Earth dist.	-3597 Jun 20 j 02:38	28° \mathbb{M} 40'46	29.05490 AU
retrograde	-3603 Mar 17 j 17:47	16° \mathbb{M} 48'40		direct	-3597 Sep 07 j 13:45	27° \mathbb{M} 16'43	
opposition	-3603 Jun 06 j 15:00	15° \mathbb{M} 24'37	1°00'34	evening set	-3597 Dec 02 j 20:03	29° \mathbb{M} 09'10	
min. Earth dist.	-3603 Jun 06 j 01:16	15° \mathbb{M} 25'33	29.12071 AU				
	-3603 Jun 21 j 23:06	15° \mathbb{R} \mathbb{M}		conjunction	-3597 Dec 18 j 05:03	29° \mathbb{M} 43'50	0°25'43
direct	-3603 Aug 24 j 15:16	14° \mathbb{M} 01'53		minimum elong	-3597 Dec 18 j 05:03	29° \mathbb{M} 43'50	0°25'35
	-3603 Oct 23 j 14:36	15° \mathbb{M}		max. Earth dist.	-3597 Dec 18 j 23:34	29° \mathbb{M} 45'35	31.04938 AU
evening set	-3603 Nov 19 j 09:28	15° \mathbb{M} 54'43			-3597 Dec 25 j 07:45	0° \mathbb{M}	
				morning rise	-3596 Jan 02 j 17:04	0° \mathbb{M} 18'49	
conjunction	-3603 Dec 04 j 16:05	16° \mathbb{M} 29'11	0°54'26	retrograde	-3596 Apr 02 j 07:19	2° \mathbb{M} 16'36	
minimum elong	-3603 Dec 04 j 16:06	16° \mathbb{M} 29'11	0°54'19	opposition	-3596 Jun 22 j 09:46	0° \mathbb{M} 51'58	0°24'45
max. Earth dist.	-3603 Dec 05 j 06:48	16° \mathbb{M} 30'34	31.11604 AU	min. Earth dist.	-3596 Jun 21 j 15:29	0° \mathbb{M} 53'13	29.04471 AU
morning rise	-3603 Dec 20 j 00:56	17° \mathbb{M} 03'53			-3596 Jul 26 j 13:53	30° \mathbb{R} \mathbb{M}	
retrograde	-3602 Mar 20 j 06:21	19° \mathbb{M} 01'09		direct	-3596 Sep 09 j 00:23	29° \mathbb{M} 29'10	
opposition	-3602 Jun 09 j 03:57	17° \mathbb{M} 37'04	0°55'39		-3596 Oct 21 j 18:50	0° \mathbb{M}	
min. Earth dist.	-3602 Jun 08 j 12:48	17° \mathbb{M} 38'05	29.11177 AU	evening set	-3596 Dec 04 j 05:54	1° \mathbb{M} 21'34	
direct	-3602 Aug 27 j 03:42	16° \mathbb{M} 14'21					
evening set	-3602 Nov 21 j 19:19	18° \mathbb{M} 07'08		conjunction	-3596 Dec 19 j 15:24	1° \mathbb{M} 56'16	0°20'45
				minimum elong	-3596 Dec 19 j 15:24	1° \mathbb{M} 56'16	0°20'38
conjunction	-3602 Dec 07 j 02:09	18° \mathbb{M} 41'38	0°49'48	max. Earth dist.	-3596 Dec 20 j 10:49	1° \mathbb{M} 58'06	31.03988 AU
minimum elong	-3602 Dec 07 j 02:10	18° \mathbb{M} 41'38	0°49'42	morning rise	-3595 Jan 04 j 03:57	2° \mathbb{M} 31'17	
max. Earth dist.	-3602 Dec 07 j 16:24	18° \mathbb{M} 42'59	31.10646 AU	retrograde	-3595 Apr 04 j 20:16	4° \mathbb{M} 29'10	
morning rise	-3602 Dec 22 j 11:39	19° \mathbb{M} 16'23		opposition	-3595 Jun 24 j 22:28	3° \mathbb{M} 04'29	0°19'26
retrograde	-3601 Mar 22 j 20:21	21° \mathbb{M} 13'45		min. Earth dist.	-3595 Jun 24 j 02:24	3° \mathbb{M} 05'51	29.03572 AU
opposition	-3601 Jun 11 j 17:12	19° \mathbb{M} 49'35	0°50'39	direct	-3595 Sep 11 j 11:01	1° \mathbb{M} 41'41	
min. Earth dist.	-3601 Jun 11 j 02:15	19° \mathbb{M} 50'36	29.10155 AU	evening set	-3595 Dec 06 j 15:58	3° \mathbb{M} 34'04	
direct	-3601 Aug 29 j 15:02	18° \mathbb{M} 26'53					
evening set	-3601 Nov 24 j 04:52	20° \mathbb{M} 19'36		conjunction	-3595 Dec 22 j 01:47	4° \mathbb{M} 08'48	0°15'45
				minimum elong	-3595 Dec 22 j 01:47	4° \mathbb{M} 08'48	0°15'37
conjunction	-3601 Dec 09 j 12:18	20° \mathbb{M} 54'08	0°45'06	behind sun begin	-3595 Dec 22 j 00:04	4° \mathbb{M} 08'39	
minimum elong	-3601 Dec 09 j 12:19	20° \mathbb{M} 54'08	0°44'59	behind sun end	-3595 Dec 22 j 03:30	4° \mathbb{M} 08'58	
max. Earth dist.	-3601 Dec 10 j 04:09	20° \mathbb{M} 55'38	31.09565 AU	max. Earth dist.	-3595 Dec 22 j 21:38	4° \mathbb{M} 10'41	31.03134 AU
morning rise	-3601 Dec 24 j 22:10	21° \mathbb{M} 28'56		morning rise	-3594 Jan 06 j 14:55	4° \mathbb{M} 43'52	
retrograde	-3600 Mar 24 j 08:29	23° \mathbb{M} 26'23		retrograde	-3594 Apr 07 j 08:51	6° \mathbb{M} 41'51	
opposition	-3600 Jun 13 j 06:17	22° \mathbb{M} 02'08	0°45'36	opposition	-3594 Jun 27 j 11:14	5° \mathbb{M} 17'07	0°14'04
min. Earth dist.	-3600 Jun 12 j 14:26	22° \mathbb{M} 03'12	29.09009 AU	min. Earth dist.	-3594 Jun 26 j 15:28	5° \mathbb{M} 18'28	29.02774 AU
direct	-3600 Aug 31 j 04:24	20° \mathbb{M} 39'24		direct	-3594 Sep 13 j 19:43	3° \mathbb{M} 54'20	
evening set	-3600 Nov 25 j 14:45	22° \mathbb{M} 32'03		evening set	-3594 Dec 09 j 01:59	5° \mathbb{M} 46'42	
conjunction	-3600 Dec 10 j 22:27	23° \mathbb{M} 06'37	0°40'20	conjunction	-3594 Dec 24 j 12:23	6° \mathbb{M} 21'29	0°10'45
minimum elong	-3600 Dec 10 j 22:28	23° \mathbb{M} 06'37	0°40'14	minimum elong	-3594 Dec 24 j 12:23	6° \mathbb{M} 21'29	0°10'37
max. Earth dist.	-3600 Dec 11 j 13:53	23° \mathbb{M} 08'05	31.08391 AU	behind sun begin	-3594 Dec 24 j 07:22	6° \mathbb{M} 21'02	
morning rise	-3600 Dec 26 j 09:01	23° \mathbb{M} 41'28		behind sun end	-3594 Dec 24 j 17:24	6° \mathbb{M} 21'56	
retrograde	-3599 Mar 26 j 21:08	25° \mathbb{M} 39'00		max. Earth dist.	-3594 Dec 25 j 09:40	6° \mathbb{M} 23'29	31.02386 AU
opposition	-3599 Jun 15 j 19:09	24° \mathbb{M} 14'38	0°40'28	morning rise	-3593 Jan 09 j 01:54	6° \mathbb{M} 56'35	
min. Earth dist.	-3599 Jun 15 j 02:52	24° \mathbb{M} 15'45	29.07813 AU	retrograde	-3593 Apr 09 j 22:10	8° \mathbb{M} 54'40	
direct	-3599 Sep 02 j 14:51	22° \mathbb{M} 51'53		opposition	-3593 Jun 29 j 23:57	7° \mathbb{M} 29'54	0°08'41
evening set	-3599 Nov 28 j 00:27	24° \mathbb{M} 44'27		min. Earth dist.	-3593 Jun 29 j 02:33	7° \mathbb{M} 31'22	29.02052 AU
				direct	-3593 Sep 16 j 07:51	6° \mathbb{M} 07'10	
conjunction	-3599 Dec 13 j 08:42	25° \mathbb{M} 19'03	0°35'30	evening set	-3593 Dec 11 j 12:13	7° \mathbb{M} 59'31	

Attention, astronomical year style is used: The year -3593 in astronomical counting style is the year 3594 BCE in historical counting style.

conjunction	-3593 Dec 26 j 22:54	8°♊34'19	0°05'43	opposition	-3587 Jul 13 j 04:19	20°♊49'29	-0°23'44
minimum elong	-3593 Dec 26 j 22:54	8°♊34'19	0°05'35	direct	-3587 Sep 29 j 04:39	19°♊26'41	
behind sun begin	-3593 Dec 26 j 16:42	8°♊33'46		evening set	-3587 Dec 24 j 04:28	21°♊18'57	
behind sun end	-3593 Dec 27 j 05:06	8°♊34'53					
max. Earth dist.	-3593 Dec 27 j 19:56	8°♊36'18	31.01689 AU	conjunction	-3586 Jan 08 j 17:56	21°♊53'58	-0°24'39
morning rise	-3592 Jan 11 j 13:08	9°♊09'29		minimum elong	-3586 Jan 08 j 17:56	21°♊53'58	0°24'48
retrograde	-3592 Apr 11 j 13:00	11°♊07'40		max. Earth dist.	-3586 Jan 09 j 17:16	21°♊56'10	30.96416 AU
opposition	-3592 Jul 01 j 12:49	9°♊42'52	0°03'16	morning rise	-3586 Jan 24 j 11:04	22°♊29'21	
min. Earth dist.	-3592 Jun 30 j 15:41	9°♊44'19	29.01371 AU	retrograde	-3586 Apr 25 j 17:44	24°♊27'56	
direct	-3592 Sep 17 j 18:23	8°♊20'09		opposition	-3586 Jul 15 j 16:42	23°♊02'48	-0°29'03
evening set	-3592 Dec 12 j 22:37	10°♊12'30		min. Earth dist.	-3586 Jul 14 j 17:35	23°♊04'24	28.95915 AU
				direct	-3586 Oct 01 j 15:48	21°♊39'57	
				evening set	-3586 Dec 26 j 15:29	23°♊32'12	
conjunction	-3592 Dec 28 j 09:54	10°♊47'21	0°00'36				
minimum elong	-3592 Dec 28 j 09:54	10°♊47'21	0°00'29				
behind sun begin	-3592 Dec 28 j 03:29	10°♊46'47		conjunction	-3585 Jan 11 j 05:16	24°♊07'15	-0°29'36
behind sun end	-3592 Dec 28 j 16:19	10°♊47'56		minimum elong	-3585 Jan 11 j 05:16	24°♊07'15	0°29'44
max. Earth dist.	-3592 Dec 29 j 08:28	10°♊49'29	31.00999 AU	max. Earth dist.	-3585 Jan 12 j 04:39	24°♊09'28	30.95364 AU
morning rise	-3591 Jan 13 j 00:28	11°♊22'33		morning rise	-3585 Jan 26 j 22:59	24°♊42'41	
desc. node	-3591 Feb 08 j 22:51	12°♊17'46		retrograde	-3585 Apr 28 j 05:56	26°♊41'18	
retrograde	-3591 Apr 14 j 01:49	13°♊20'50		min. Earth dist.	-3585 Jul 17 j 06:46	25°♊17'39	28.94910 AU
min. Earth dist.	-3591 Jul 03 j 03:34	11°♊57'31	29.00661 AU	opposition	-3585 Jul 18 j 05:14	25°♊16'06	-0°34'20
opposition	-3591 Jul 04 j 01:23	11°♊56'01	-0°02'09	direct	-3585 Oct 04 j 00:56	23°♊53'12	
direct	-3591 Sep 20 j 06:54	10°♊33'18		evening set	-3585 Dec 29 j 02:23	25°♊45'27	
evening set	-3591 Dec 15 j 09:18	12°♊25'40					
				conjunction	-3584 Jan 13 j 16:46	26°♊20'32	-0°34'31
conjunction	-3591 Dec 30 j 20:51	13°♊00'33	-0°04'33	minimum elong	-3584 Jan 13 j 16:46	26°♊20'32	0°34'40
minimum elong	-3591 Dec 30 j 20:52	13°♊00'33	0°04'41	max. Earth dist.	-3584 Jan 14 j 17:22	26°♊22'51	30.94405 AU
behind sun begin	-3591 Dec 30 j 14:34	12°♊59'59		morning rise	-3584 Jan 29 j 10:51	26°♊55'59	
behind sun end	-3591 Dec 31 j 03:10	13°♊01'07		retrograde	-3584 Apr 29 j 18:56	28°♊54'39	
max. Earth dist.	-3591 Dec 31 j 18:42	13°♊02'37	31.00264 AU	opposition	-3584 Jul 19 j 17:32	27°♊29'24	-0°39'34
morning rise	-3590 Jan 15 j 12:05	13°♊35'47		min. Earth dist.	-3584 Jul 18 j 17:39	27°♊31'03	28.94003 AU
retrograde	-3590 Apr 16 j 15:53	15°♊34'09		direct	-3584 Oct 05 j 13:09	26°♊06'28	
opposition	-3590 Jul 06 j 14:11	14°♊09'18	-0°07'34	evening set	-3584 Dec 30 j 13:38	27°♊58'45	
min. Earth dist.	-3590 Jul 05 j 16:18	14°♊10'48	28.99893 AU				
direct	-3590 Sep 22 j 17:15	12°♊46'36		conjunction	-3583 Jan 15 j 04:18	28°♊33'51	-0°39'23
evening set	-3590 Dec 17 j 19:52	14°♊38'57		minimum elong	-3583 Jan 15 j 04:18	28°♊33'51	0°39'31
				max. Earth dist.	-3583 Jan 16 j 04:23	28°♊36'07	30.93552 AU
conjunction	-3589 Jan 02 j 07:59	15°♊13'52	-0°09'36	morning rise	-3583 Jan 30 j 23:00	29°♊09'20	
minimum elong	-3589 Jan 02 j 07:59	15°♊13'52	0°09'43		-3583 Feb 24 j 11:33	0°♊	
behind sun begin	-3589 Jan 02 j 02:39	15°♊13'23		retrograde	-3583 May 02 j 09:06	1°♊08'04	
behind sun end	-3589 Jan 02 j 13:18	15°♊14'21			-3583 Jul 11 j 19:13	30°♊	
max. Earth dist.	-3589 Jan 03 j 06:57	15°♊16'02	30.99435 AU	min. Earth dist.	-3583 Jul 21 j 06:14	29°♊44'24	28.93227 AU
morning rise	-3589 Jan 17 j 23:34	15°♊49'09		opposition	-3583 Jul 22 j 05:46	29°♊42'47	-0°44'45
retrograde	-3589 Apr 19 j 03:58	17°♊47'35		direct	-3583 Oct 07 j 23:07	28°♊19'49	
min. Earth dist.	-3589 Jul 08 j 05:11	16°♊24'11	28.99009 AU		-3583 Dec 27 j 11:23	0°♊	
opposition	-3589 Jul 09 j 03:01	16°♊22'41	-0°12'59	evening set	-3582 Jan 02 j 00:47	0°♊12'08	
direct	-3589 Sep 25 j 06:14	14°♊59'58					
evening set	-3589 Dec 20 j 06:44	16°♊52'18		conjunction	-3582 Jan 17 j 16:04	0°♊47'17	-0°44'12
				minimum elong	-3582 Jan 17 j 16:03	0°♊47'17	0°44'21
conjunction	-3588 Jan 04 j 19:14	17°♊27'15	-0°14'38	max. Earth dist.	-3582 Jan 18 j 17:43	0°♊49'42	30.92834 AU
minimum elong	-3588 Jan 04 j 19:14	17°♊27'15	0°14'46	morning rise	-3582 Feb 02 j 11:03	1°♊22'48	
behind sun begin	-3588 Jan 04 j 16:34	17°♊27'01		retrograde	-3582 May 04 j 21:56	3°♊21'35	
behind sun end	-3588 Jan 04 j 21:55	17°♊27'30		opposition	-3582 Jul 24 j 18:01	1°♊56'17	-0°49'52
max. Earth dist.	-3588 Jan 05 j 17:38	17°♊29'22	30.98508 AU	min. Earth dist.	-3582 Jul 23 j 17:36	1°♊57'59	28.92571 AU
morning rise	-3588 Jan 20 j 11:26	18°♊02'34		direct	-3582 Oct 10 j 11:08	0°♊33'20	
retrograde	-3588 Apr 20 j 18:23	20°♊01'04		evening set	-3581 Jan 04 j 12:03	2°♊25'41	
opposition	-3588 Jul 10 j 15:39	18°♊36'06	-0°18'22				
min. Earth dist.	-3588 Jul 09 j 17:05	18°♊37'39	28.98034 AU	conjunction	-3581 Jan 20 j 03:36	3°♊00'52	-0°48'57
direct	-3588 Sep 26 j 17:26	17°♊13'20		minimum elong	-3581 Jan 20 j 03:36	3°♊00'52	0°49'05
evening set	-3588 Dec 21 j 17:37	19°♊05'38		max. Earth dist.	-3581 Jan 21 j 04:43	3°♊03'14	30.92242 AU
				morning rise	-3581 Feb 04 j 23:14	3°♊36'25	
conjunction	-3587 Jan 06 j 06:36	19°♊40'38	-0°19'39	retrograde	-3581 May 07 j 12:42	5°♊35'17	
minimum elong	-3587 Jan 06 j 06:36	19°♊40'38	0°19'47	min. Earth dist.	-3581 Jul 26 j 05:48	4°♊11'41	28.92041 AU
max. Earth dist.	-3587 Jan 07 j 05:32	19°♊42'48	30.97481 AU	opposition	-3581 Jul 27 j 06:22	4°♊09'59	-0°54'55
morning rise	-3587 Jan 21 j 23:18	20°♊16'00		direct	-3581 Oct 12 j 21:17	2°♊47'02	
retrograde	-3587 Apr 23 j 05:03	22°♊14'32		evening set	-3580 Jan 06 j 23:30	4°♊39'27	
min. Earth dist.	-3587 Jul 12 j 06:26	20°♊50'59	28.96978 AU				

Attention, astronomical year style is used: The year -3580 in astronomical counting style is the year 3581 BCE in historical counting style.

conjunction	-3580 Jan 22 j 15:37	5° $\overline{3}$ 14'40	-0°53'38	direct	-3574 Oct 28 j 03:34	18° $\overline{3}$ 27'41	
minimum elong	-3580 Jan 22 j 15:37	5° $\overline{3}$ 14'40	0°53'47	evening set	-3573 Jan 22 j 12:07	20° $\overline{3}$ 20'26	
max. Earth dist.	-3580 Jan 23 j 17:58	5° $\overline{3}$ 17'09	30.91744 AU				
morning rise	-3580 Feb 07 j 11:34	5° $\overline{3}$ 50'16		conjunction	-3573 Feb 07 j 07:13	20° $\overline{3}$ 55'51	-1°23'51
retrograde	-3580 May 09 j 02:08	7° $\overline{3}$ 49'11		minimum elong	-3573 Feb 07 j 07:13	20° $\overline{3}$ 55'50	1°23'59
opposition	-3580 Jul 28 j 18:32	6° $\overline{3}$ 23'54	-0°59'53	max. Earth dist.	-3573 Feb 08 j 08:34	20° $\overline{3}$ 58'14	30.87508 AU
min. Earth dist.	-3580 Jul 27 j 18:07	6° $\overline{3}$ 25'36	28.91580 AU	morning rise	-3573 Feb 23 j 06:02	21° $\overline{3}$ 31'37	
direct	-3580 Oct 14 j 10:03	5° $\overline{3}$ 00'58		retrograde	-3573 May 25 j 21:14	23° $\overline{3}$ 30'43	
evening set	-3579 Jan 08 j 11:14	6° $\overline{3}$ 53'27		min. Earth dist.	-3573 Aug 13 j 08:20	22° $\overline{3}$ 06'55	28.87215 AU
				opposition	-3573 Aug 14 j 07:32	22° $\overline{3}$ 05'17	-1°31'48
				direct	-3573 Oct 30 j 15:39	20° $\overline{3}$ 42'04	
				evening set	-3572 Jan 25 j 00:39	22° $\overline{3}$ 34'51	
conjunction	-3579 Jan 24 j 03:43	7° $\overline{3}$ 28'42	-0°58'15				
minimum elong	-3579 Jan 24 j 03:43	7° $\overline{3}$ 28'42	0°58'23				
max. Earth dist.	-3579 Jan 25 j 05:27	7° $\overline{3}$ 31'08	30.91309 AU				
morning rise	-3579 Feb 09 j 00:12	8° $\overline{3}$ 04'20		conjunction	-3572 Feb 09 j 20:01	23° $\overline{3}$ 10'17	-1°27'43
retrograde	-3579 May 11 j 17:18	10° $\overline{3}$ 03'20		minimum elong	-3572 Feb 09 j 20:01	23° $\overline{3}$ 10'16	1°27'51
min. Earth dist.	-3579 Jul 30 j 05:47	8° $\overline{3}$ 39'48	28.91156 AU	max. Earth dist.	-3572 Feb 10 j 20:16	23° $\overline{3}$ 12'33	30.86758 AU
opposition	-3579 Jul 31 j 06:45	8° $\overline{3}$ 38'04	-1°04'46	morning rise	-3572 Feb 25 j 19:23	23° $\overline{3}$ 46'04	
direct	-3579 Oct 16 j 21:13	7° $\overline{3}$ 15'08		retrograde	-3572 May 27 j 11:36	25° $\overline{3}$ 45'08	
evening set	-3578 Jan 10 j 23:04	9° $\overline{3}$ 07'41		opposition	-3572 Aug 15 j 19:20	24° $\overline{3}$ 19'40	-1°35'51
				min. Earth dist.	-3572 Aug 14 j 20:28	24° $\overline{3}$ 21'16	28.86516 AU
				direct	-3572 Nov 01 j 02:27	22° $\overline{3}$ 56'22	
				evening set	-3571 Jan 26 j 13:08	24° $\overline{3}$ 49'12	
conjunction	-3578 Jan 26 j 15:56	9° $\overline{3}$ 42'58	-1°02'46				
minimum elong	-3578 Jan 26 j 15:56	9° $\overline{3}$ 42'58	1°02'55				
max. Earth dist.	-3578 Jan 27 j 18:02	9° $\overline{3}$ 45'26	30.90858 AU				
morning rise	-3578 Feb 11 j 12:47	10° $\overline{3}$ 18'38		conjunction	-3571 Feb 11 j 09:01	25° $\overline{3}$ 24'39	-1°31'27
retrograde	-3578 May 14 j 04:51	12° $\overline{3}$ 17'42		minimum elong	-3571 Feb 11 j 09:01	25° $\overline{3}$ 24'39	1°31'34
opposition	-3578 Aug 02 j 19:02	10° $\overline{3}$ 52'27	-1°09'33	max. Earth dist.	-3571 Feb 12 j 10:12	25° $\overline{3}$ 27'01	30.86090 AU
min. Earth dist.	-3578 Aug 01 j 19:03	10° $\overline{3}$ 54'07	28.90691 AU	morning rise	-3571 Feb 27 j 08:37	26° $\overline{3}$ 00'27	
direct	-3578 Oct 19 j 08:17	9° $\overline{3}$ 29'32		retrograde	-3571 May 30 j 00:39	27° $\overline{3}$ 59'30	
evening set	-3577 Jan 13 j 11:06	11° $\overline{3}$ 22'08		min. Earth dist.	-3571 Aug 17 j 08:29	26° $\overline{3}$ 35'35	28.85909 AU
				opposition	-3571 Aug 18 j 07:07	26° $\overline{3}$ 33'59	-1°39'46
				direct	-3571 Nov 03 j 15:29	25° $\overline{3}$ 10'38	
				evening set	-3570 Jan 29 j 01:38	27° $\overline{3}$ 03'31	
conjunction	-3577 Jan 29 j 04:27	11° $\overline{3}$ 57'27	-1°07'12				
minimum elong	-3577 Jan 29 j 04:27	11° $\overline{3}$ 57'27	1°07'20				
max. Earth dist.	-3577 Jan 30 j 06:23	11° $\overline{3}$ 59'54	30.90366 AU				
morning rise	-3577 Feb 14 j 01:41	12° $\overline{3}$ 33'08		conjunction	-3570 Feb 13 j 21:49	27° $\overline{3}$ 38'59	-1°35'03
retrograde	-3577 May 16 j 18:56	14° $\overline{3}$ 32'15		minimum elong	-3570 Feb 13 j 21:49	27° $\overline{3}$ 38'59	1°35'10
min. Earth dist.	-3577 Aug 04 j 06:35	13° $\overline{3}$ 08'42	28.90158 AU	max. Earth dist.	-3570 Feb 14 j 22:15	27° $\overline{3}$ 41'17	30.85545 AU
opposition	-3577 Aug 05 j 07:13	13° $\overline{3}$ 07'00	-1°14'14	morning rise	-3570 Mar 01 j 21:51	28° $\overline{3}$ 14'49	
direct	-3577 Oct 21 j 19:36	11° $\overline{3}$ 44'03			-3570 May 03 j 08:44	0° \approx	
evening set	-3576 Jan 15 j 23:20	13° $\overline{3}$ 36'43		retrograde	-3570 Jun 01 j 15:03	0° \approx 13'51	
					-3570 Jul 01 j 03:30	30° \overline{R} $\overline{3}$	
conjunction	-3576 Jan 31 j 17:01	14° $\overline{3}$ 12'03	-1°11'32	opposition	-3570 Aug 20 j 18:51	28° $\overline{3}$ 48'19	-1°43'32
minimum elong	-3576 Jan 31 j 17:01	14° $\overline{3}$ 12'03	1°11'41	min. Earth dist.	-3570 Aug 19 j 19:40	28° $\overline{3}$ 49'57	28.85436 AU
max. Earth dist.	-3576 Feb 01 j 18:14	14° $\overline{3}$ 14'26	30.89769 AU	direct	-3570 Nov 06 j 03:00	27° $\overline{3}$ 24'55	
morning rise	-3576 Feb 16 j 14:46	14° $\overline{3}$ 47'46		evening set	-3569 Jan 31 j 14:18	29° $\overline{3}$ 17'52	
retrograde	-3576 May 18 j 07:35	16° $\overline{3}$ 46'54					
opposition	-3576 Aug 06 j 19:33	15° $\overline{3}$ 21'38	-1°18'49	conjunction	-3569 Feb 16 j 10:54	29° $\overline{3}$ 53'22	-1°38'30
min. Earth dist.	-3576 Aug 05 j 20:19	15° $\overline{3}$ 23'15	28.89515 AU	minimum elong	-3569 Feb 16 j 10:53	29° $\overline{3}$ 53'21	1°38'36
direct	-3576 Oct 23 j 05:02	13° $\overline{3}$ 58'39		max. Earth dist.	-3569 Feb 17 j 11:43	29° $\overline{3}$ 55'42	30.85125 AU
evening set	-3575 Jan 17 j 11:35	15° $\overline{3}$ 51'20			-3569 Feb 19 j 09:31	0° \approx	
				morning rise	-3569 Mar 04 j 11:14	0° \approx 29'13	
conjunction	-3575 Feb 02 j 05:51	16° $\overline{3}$ 26'42	-1°15'46	retrograde	-3569 Jun 04 j 03:35	2° \approx 28'14	
minimum elong	-3575 Feb 02 j 05:50	16° $\overline{3}$ 26'42	1°15'53	min. Earth dist.	-3569 Aug 22 j 08:15	1° \approx 04'17	28.85087 AU
max. Earth dist.	-3575 Feb 03 j 07:22	16° $\overline{3}$ 29'07	30.89073 AU	opposition	-3569 Aug 23 j 06:34	1° \approx 02'43	-1°47'09
morning rise	-3575 Feb 18 j 03:52	17° $\overline{3}$ 02'27			-3569 Oct 04 j 06:02	30° \overline{R} $\overline{3}$	
retrograde	-3575 May 20 j 19:47	19° $\overline{3}$ 01'34		direct	-3569 Nov 08 j 14:21	29° $\overline{3}$ 39'17	
min. Earth dist.	-3575 Aug 08 j 07:39	17° $\overline{3}$ 37'55	28.88773 AU		-3569 Dec 13 j 05:39	0° \approx	
opposition	-3575 Aug 09 j 07:29	17° $\overline{3}$ 36'16	-1°23'16	evening set	-3568 Feb 03 j 03:01	1° \approx 32'19	
direct	-3575 Oct 25 j 17:43	16° $\overline{3}$ 13'12					
evening set	-3574 Jan 19 j 23:59	18° $\overline{3}$ 05'56		conjunction	-3568 Feb 19 j 00:06	2° \approx 07'50	-1°41'48
				minimum elong	-3568 Feb 19 j 00:06	2° \approx 07'50	1°41'55
conjunction	-3574 Feb 04 j 18:30	18° $\overline{3}$ 41'19	-1°19'52	max. Earth dist.	-3568 Feb 20 j 00:45	2° \approx 10'09	30.84840 AU
minimum elong	-3574 Feb 04 j 18:29	18° $\overline{3}$ 41'19	1°20'01	morning rise	-3568 Mar 06 j 00:48	2° \approx 43'42	
max. Earth dist.	-3574 Feb 05 j 18:48	18° $\overline{3}$ 43'36	30.88297 AU	retrograde	-3568 Jun 05 j 18:28	4° \approx 42'43	
morning rise	-3574 Feb 20 j 17:05	19° $\overline{3}$ 17'05		opposition	-3568 Aug 24 j 18:10	3° \approx 17'14	-1°50'35
retrograde	-3574 May 23 j 08:46	21° $\overline{3}$ 16'11		min. Earth dist.	-3568 Aug 23 j 19:09	3° \approx 18'51	28.84850 AU
opposition	-3574 Aug 11 j 19:37	19° $\overline{3}$ 50'49	-1°27'36	direct	-3568 Nov 10 j 02:12	1° \approx 53'47	
min. Earth dist.	-3574 Aug 10 j 20:45	19° $\overline{3}$ 52'25	28.87992 AU	evening set	-3567 Feb 04 j 16:05	3° \approx 46'55	

Attention, astronomical year style is used: The year -3567 in astronomical counting style is the year 3568 BCE in historical counting style.

conjunction	-3567 Feb 20 j 13:25	4°22'28	-1°44'56	retrograde	-3561 Jun 22 j 14:20	20°27'59	
minimum elong	-3567 Feb 20 j 13:25	4°22'28	1°45'03	min. Earth dist.	-3561 Sep 09 j 08:26	19°03'56	28.82758 AU
max. Earth dist.	-3567 Feb 21 j 13:32	4°24'44	30.84628 AU	opposition	-3561 Sep 10 j 02:52	19°02'38	-2°09'45
morning rise	-3567 Mar 08 j 14:29	4°58'21		direct	-3561 Nov 26 j 09:09	17°38'51	
retrograde	-3567 Jun 08 j 06:58	6°57'23		evening set	-3560 Feb 21 j 13:52	19°32'35	
min. Earth dist.	-3567 Aug 26 j 08:12	5°33'27	28.84678 AU				
opposition	-3567 Aug 27 j 05:47	5°31'56	-1°53'52	conjunction	-3560 Mar 08 j 13:58	20°08'17	-2°02'16
direct	-3567 Nov 12 j 11:50	4°08'29		minimum elong	-3560 Mar 08 j 13:58	20°08'17	2°02'22
evening set	-3566 Feb 07 j 05:05	6°01'42		max. Earth dist.	-3560 Mar 09 j 09:54	20°10'09	30.82386 AU
				morning rise	-3560 Mar 24 j 17:06	20°44'16	
conjunction	-3566 Feb 23 j 02:57	6°37'17	-1°47'56	retrograde	-3560 Jun 24 j 03:08	22°43'00	
minimum elong	-3566 Feb 23 j 02:57	6°37'17	1°48'03	opposition	-3560 Sep 11 j 14:10	21°17'38	-2°11'44
max. Earth dist.	-3566 Feb 24 j 03:17	6°39'34	30.84473 AU	min. Earth dist.	-3560 Sep 10 j 21:01	21°18'51	28.82340 AU
morning rise	-3566 Mar 11 j 04:13	7°13'11		direct	-3560 Nov 27 j 21:28	19°53'47	
retrograde	-3566 Jun 10 j 19:45	9°12'13		evening set	-3559 Feb 23 j 03:27	21°47'34	
opposition	-3566 Aug 29 j 17:19	7°46'50	-1°56'58				
min. Earth dist.	-3566 Aug 28 j 19:18	7°48'23	28.84523 AU	conjunction	-3559 Mar 11 j 03:56	22°23'17	-2°04'01
direct	-3566 Nov 14 j 24:00	6°23'22		minimum elong	-3559 Mar 11 j 03:55	22°23'17	2°04'06
evening set	-3565 Feb 09 j 18:20	8°16'42		max. Earth dist.	-3559 Mar 11 j 23:11	22°25'06	30.82012 AU
				morning rise	-3559 Mar 27 j 07:19	22°59'17	
conjunction	-3565 Feb 25 j 16:25	8°52'17	-1°50'45	retrograde	-3559 Jun 26 j 18:00	24°57'56	
minimum elong	-3565 Feb 25 j 16:25	8°52'17	1°50'51	min. Earth dist.	-3559 Sep 13 j 07:34	23°33'48	28.82020 AU
max. Earth dist.	-3565 Feb 26 j 15:15	8°54'26	30.84297 AU	opposition	-3559 Sep 14 j 01:12	23°32'33	-2°13'30
morning rise	-3565 Mar 13 j 18:10	9°28'13		direct	-3559 Nov 30 j 10:28	22°08'37	
retrograde	-3565 Jun 13 j 08:52	11°27'15		evening set	-3558 Feb 25 j 17:05	24°02'28	
min. Earth dist.	-3565 Aug 31 j 08:26	10°03'21	28.84330 AU				
opposition	-3565 Sep 01 j 05:03	10°01'54	-1°59'54	conjunction	-3558 Mar 13 j 17:51	24°38'13	-2°05'36
direct	-3565 Nov 17 j 09:28	8°38'25		minimum elong	-3558 Mar 13 j 17:51	24°38'13	2°05'41
evening set	-3564 Feb 12 j 07:44	10°31'51		max. Earth dist.	-3558 Mar 14 j 12:32	24°39'58	30.81745 AU
				morning rise	-3558 Mar 29 j 21:32	25°14'13	
conjunction	-3564 Feb 28 j 06:23	11°07'28	-1°53'24	retrograde	-3558 Jun 29 j 05:51	27°12'47	
minimum elong	-3564 Feb 28 j 06:23	11°07'28	1°53'31	opposition	-3558 Sep 16 j 12:24	25°47'24	-2°15'05
max. Earth dist.	-3564 Feb 29 j 05:30	11°09'38	30.84056 AU	min. Earth dist.	-3558 Sep 15 j 20:08	25°48'34	28.81835 AU
morning rise	-3564 Mar 15 j 08:16	11°43'25		direct	-3558 Dec 02 j 21:10	24°23'25	
retrograde	-3564 Jun 14 j 21:37	13°42'25		evening set	-3557 Feb 28 j 06:33	26°17'20	
opposition	-3564 Sep 02 j 16:30	12°17'06	-2°02'39				
min. Earth dist.	-3564 Sep 01 j 20:10	12°18'32	28.84039 AU	conjunction	-3557 Mar 16 j 07:50	26°53'05	-2°06'58
direct	-3564 Nov 18 j 21:09	10°53'33		minimum elong	-3557 Mar 16 j 07:50	26°53'05	2°07'02
evening set	-3563 Feb 13 j 21:21	12°47'05		max. Earth dist.	-3557 Mar 17 j 02:40	26°54'51	30.81636 AU
				morning rise	-3557 Apr 01 j 11:43	27°29'07	
conjunction	-3563 Mar 01 j 20:14	13°22'43	-1°55'53	retrograde	-3557 Jul 01 j 18:36	29°27'35	
minimum elong	-3563 Mar 01 j 20:14	13°22'43	1°55'59	opposition	-3557 Sep 18 j 23:24	28°02'14	-2°16'27
max. Earth dist.	-3563 Mar 02 j 17:25	13°24'43	30.83718 AU	min. Earth dist.	-3557 Sep 18 j 06:35	28°03'26	28.81796 AU
morning rise	-3563 Mar 17 j 22:35	13°58'41		direct	-3557 Dec 05 j 09:39	26°38'11	
	-3563 Apr 17 j 11:12	15°		evening set	-3556 Mar 01 j 20:24	28°32'12	
retrograde	-3563 Jun 17 j 11:34	15°57'39					
	-3563 Aug 19 j 12:25	15°		conjunction	-3556 Mar 17 j 21:53	29°07'59	-2°08'09
min. Earth dist.	-3563 Sep 04 j 08:44	14°33'41	28.83663 AU	minimum elong	-3556 Mar 17 j 21:54	29°07'59	2°08'14
opposition	-3563 Sep 05 j 04:07	14°32'19	-2°05'12	max. Earth dist.	-3556 Mar 18 j 15:21	29°09'37	30.81669 AU
direct	-3563 Nov 21 j 08:08	13°08'43		morning rise	-3556 Apr 03 j 02:09	29°44'00	
	-3562 Feb 15 j 09:17	15°			-3556 Apr 10 j 12:20	0°	
evening set	-3562 Feb 16 j 10:42	15°02'19		retrograde	-3556 Jul 03 j 07:37	1°42'24	
				opposition	-3556 Sep 20 j 10:25	0°17'06	-2°17'36
conjunction	-3562 Mar 04 j 10:05	15°37'59	-1°58'12	min. Earth dist.	-3556 Sep 19 j 18:48	0°18'12	28.81909 AU
minimum elong	-3562 Mar 04 j 10:05	15°37'59	1°58'18		-3556 Sep 30 j 12:46	30°	
max. Earth dist.	-3562 Mar 05 j 07:36	15°40'00	30.83292 AU	direct	-3556 Dec 06 j 19:05	28°53'01	
morning rise	-3562 Mar 20 j 12:34	16°13'57			-3555 Feb 09 j 11:51	0°	
retrograde	-3562 Jun 20 j 00:11	18°12'51		evening set	-3555 Mar 04 j 10:08	0°47'07	
opposition	-3562 Sep 07 j 15:36	16°47'31	-2°07'35				
min. Earth dist.	-3562 Sep 06 j 21:03	16°48'50	28.83209 AU	conjunction	-3555 Mar 20 j 12:09	1°22'55	-2°09'08
direct	-3562 Nov 23 j 21:24	15°23'50		minimum elong	-3555 Mar 20 j 12:09	1°22'55	2°09'12
evening set	-3561 Feb 19 j 00:16	17°17'30		max. Earth dist.	-3555 Mar 21 j 06:07	1°24'36	30.81847 AU
				morning rise	-3555 Apr 05 j 16:29	1°58'57	
conjunction	-3561 Mar 06 j 23:58	17°53'11	-2°00'19	retrograde	-3555 Jul 05 j 19:27	3°57'16	
minimum elong	-3561 Mar 06 j 23:57	17°53'11	2°00'25	opposition	-3555 Sep 22 j 21:24	2°32'02	-2°18'33
max. Earth dist.	-3561 Mar 07 j 19:57	17°55'03	30.82835 AU	min. Earth dist.	-3555 Sep 22 j 05:49	2°33'08	28.82137 AU
morning rise	-3561 Mar 23 j 02:52	18°29'09		direct	-3555 Dec 09 j 06:38	1°07'56	

Attention, astronomical year style is used: The year -3554 in astronomical counting style is the year 3555 BCE in historical counting style.

evening set	-3554 Mar 06 j 23:58	3° \mathbf{K} 02'08		opposition	-3548 Oct 08 j 01:41	18° \mathbf{K} 17'48	-2°19'12
				min. Earth dist.	-3548 Oct 07 j 16:17	18° \mathbf{K} 18'28	28.83474 AU
conjunction	-3554 Mar 23 j 02:09	3° \mathbf{K} 37'56	-2°09'55	direct	-3548 Dec 24 j 19:30	16° \mathbf{K} 53'19	
minimum elong	-3554 Mar 23 j 02:09	3° \mathbf{K} 37'56	2°10'00	evening set	-3547 Mar 23 j 03:31	18° \mathbf{K} 48'05	
max. Earth dist.	-3554 Mar 23 j 18:27	3° \mathbf{K} 39'28	30.82125 AU				
morning rise	-3554 Apr 08 j 06:52	4° \mathbf{K} 14'00		conjunction	-3547 Apr 08 j 08:02	19° \mathbf{K} 24'01	-2°09'51
retrograde	-3554 Jul 08 j 08:07	6° \mathbf{K} 12'14		minimum elong	-3547 Apr 08 j 08:03	19° \mathbf{K} 24'01	2°09'53
opposition	-3554 Sep 25 j 08:27	4° \mathbf{K} 47'05	-2°19'17	max. Earth dist.	-3547 Apr 08 j 17:13	19° \mathbf{K} 24'52	30.83373 AU
min. Earth dist.	-3554 Sep 24 j 17:45	4° \mathbf{K} 48'07	28.82451 AU	morning rise	-3547 Apr 24 j 14:06	20° \mathbf{K} 00'05	
direct	-3554 Dec 11 j 17:11	3° \mathbf{K} 22'57		retrograde	-3547 Jul 24 j 02:49	21° \mathbf{K} 57'29	
evening set	-3553 Mar 09 j 13:57	5° \mathbf{K} 17'16		opposition	-3547 Oct 10 j 12:27	20° \mathbf{K} 32'35	-2°18'27
				min. Earth dist.	-3547 Oct 10 j 04:28	20° \mathbf{K} 33'10	28.83609 AU
conjunction	-3553 Mar 25 j 16:38	5° \mathbf{K} 53'06	-2°10'31	direct	-3547 Dec 27 j 05:52	19° \mathbf{K} 08'03	
minimum elong	-3553 Mar 25 j 16:38	5° \mathbf{K} 53'06	2°10'34	evening set	-3546 Mar 25 j 17:27	21° \mathbf{K} 02'52	
max. Earth dist.	-3553 Mar 26 j 09:12	5° \mathbf{K} 54'39	30.82445 AU				
morning rise	-3553 Apr 10 j 21:25	6° \mathbf{K} 29'09		conjunction	-3546 Apr 10 j 22:27	21° \mathbf{K} 38'49	-2°09'03
retrograde	-3553 Jul 10 j 19:54	8° \mathbf{K} 27'19		minimum elong	-3546 Apr 10 j 22:27	21° \mathbf{K} 38'49	2°09'04
opposition	-3553 Sep 27 j 19:22	7° \mathbf{K} 02'13	-2°19'48	max. Earth dist.	-3546 Apr 11 j 07:52	21° \mathbf{K} 39'41	30.83554 AU
min. Earth dist.	-3553 Sep 27 j 05:47	7° \mathbf{K} 03'11	28.82766 AU	morning rise	-3546 Apr 27 j 04:32	22° \mathbf{K} 14'53	
direct	-3553 Dec 14 j 05:14	5° \mathbf{K} 38'04		retrograde	-3546 Jul 26 j 13:54	24° \mathbf{K} 12'09	
evening set	-3552 Mar 11 j 04:14	7° \mathbf{K} 32'29		opposition	-3546 Oct 12 j 23:04	22° \mathbf{K} 47'17	-2°17'29
				min. Earth dist.	-3546 Oct 12 j 15:13	22° \mathbf{K} 47'51	28.83836 AU
conjunction	-3552 Mar 27 j 07:09	8° \mathbf{K} 08'20	-2°10'54	direct	-3546 Dec 29 j 18:12	21° \mathbf{K} 22'41	
minimum elong	-3552 Mar 27 j 07:09	8° \mathbf{K} 08'20	2°10'57	evening set	-3545 Mar 28 j 07:44	23° \mathbf{K} 17'34	
max. Earth dist.	-3552 Mar 27 j 21:40	8° \mathbf{K} 09'42	30.82749 AU				
morning rise	-3552 Apr 12 j 12:17	8° \mathbf{K} 44'24		conjunction	-3545 Apr 13 j 12:52	23° \mathbf{K} 53'31	-2°08'03
retrograde	-3552 Jul 12 j 10:11	10° \mathbf{K} 42'29		minimum elong	-3545 Apr 13 j 12:53	23° \mathbf{K} 53'32	2°08'04
opposition	-3552 Sep 29 j 06:21	9° \mathbf{K} 17'27	-2°20'06	max. Earth dist.	-3545 Apr 13 j 20:28	23° \mathbf{K} 54'14	30.83851 AU
min. Earth dist.	-3552 Sep 28 j 17:14	9° \mathbf{K} 18'23	28.83041 AU	morning rise	-3545 Apr 29 j 19:17	24° \mathbf{K} 29'37	
direct	-3552 Dec 15 j 16:34	7° \mathbf{K} 53'15		retrograde	-3545 Jul 29 j 01:44	26° \mathbf{K} 26'44	
evening set	-3551 Mar 13 j 18:27	9° \mathbf{K} 47'45		opposition	-3545 Oct 15 j 09:35	25° \mathbf{K} 01'56	-2°16'19
				min. Earth dist.	-3545 Oct 15 j 02:34	25° \mathbf{K} 02'26	28.84207 AU
conjunction	-3551 Mar 29 j 21:44	10° \mathbf{K} 23'37	-2°11'05	direct	-3544 Jan 01 j 04:47	23° \mathbf{K} 37'17	
minimum elong	-3551 Mar 29 j 21:44	10° \mathbf{K} 23'37	2°11'07	evening set	-3544 Mar 29 j 21:55	25° \mathbf{K} 32'14	
max. Earth dist.	-3551 Mar 30 j 11:44	10° \mathbf{K} 24'56	30.82971 AU				
morning rise	-3551 Apr 15 j 02:56	10° \mathbf{K} 59'41		conjunction	-3544 Apr 15 j 03:30	26° \mathbf{K} 08'13	-2°06'52
retrograde	-3551 Jul 14 j 22:25	12° \mathbf{K} 57'40		minimum elong	-3544 Apr 15 j 03:31	26° \mathbf{K} 08'13	2°06'53
opposition	-3551 Oct 01 j 17:22	11° \mathbf{K} 32'40	-2°20'12	max. Earth dist.	-3544 Apr 15 j 11:31	26° \mathbf{K} 08'58	30.84291 AU
min. Earth dist.	-3551 Oct 01 j 05:58	11° \mathbf{K} 33'29	28.83222 AU	morning rise	-3544 May 01 j 09:52	26° \mathbf{K} 44'18	
direct	-3551 Dec 18 j 05:11	10° \mathbf{K} 08'25		retrograde	-3544 Jul 30 j 12:40	28° \mathbf{K} 41'18	
evening set	-3550 Mar 16 j 08:42	12° \mathbf{K} 03'00		opposition	-3544 Oct 16 j 20:13	27° \mathbf{K} 16'34	-2°14'56
				min. Earth dist.	-3544 Oct 16 j 14:00	27° \mathbf{K} 17'01	28.84712 AU
conjunction	-3550 Apr 01 j 12:20	12° \mathbf{K} 38'53	-2°11'04	direct	-3543 Jan 02 j 16:24	25° \mathbf{K} 51'53	
minimum elong	-3550 Apr 01 j 12:20	12° \mathbf{K} 38'53	2°11'07	evening set	-3543 Apr 01 j 12:08	27° \mathbf{K} 46'57	
max. Earth dist.	-3550 Apr 02 j 00:49	12° \mathbf{K} 40'03	30.83126 AU				
morning rise	-3550 Apr 17 j 17:47	13° \mathbf{K} 14'57		conjunction	-3543 Apr 17 j 17:50	28° \mathbf{K} 22'56	-2°05'29
retrograde	-3550 Jul 17 j 12:49	15° \mathbf{K} 12'48		minimum elong	-3543 Apr 17 j 17:50	28° \mathbf{K} 22'56	2°05'29
opposition	-3550 Oct 04 j 04:11	13° \mathbf{K} 47'49	-2°20'04	max. Earth dist.	-3543 Apr 18 j 00:07	28° \mathbf{K} 23'31	30.84879 AU
min. Earth dist.	-3550 Oct 03 j 16:51	13° \mathbf{K} 48'38	28.83336 AU	morning rise	-3543 May 04 j 00:27	28° \mathbf{K} 59'01	
direct	-3550 Dec 20 j 18:40	12° \mathbf{K} 23'30			-3543 Jun 03 j 14:35	0° \mathbf{Y}	
evening set	-3549 Mar 18 j 22:56	14° \mathbf{K} 18'09		retrograde	-3543 Aug 02 j 01:51	0° \mathbf{Y} 55'54	
					-3543 Oct 02 j 03:01	30° \mathbf{R} \mathbf{K}	
conjunction	-3549 Apr 04 j 02:53	14° \mathbf{K} 54'03	-2°10'52	opposition	-3543 Oct 19 j 06:44	29° \mathbf{K} 31'16	-2°13'21
minimum elong	-3549 Apr 04 j 02:53	14° \mathbf{K} 54'03	2°10'54	min. Earth dist.	-3543 Oct 19 j 00:35	29° \mathbf{K} 31'42	28.85366 AU
max. Earth dist.	-3549 Apr 04 j 14:17	14° \mathbf{K} 55'07	30.83210 AU	direct	-3542 Jan 05 j 03:01	28° \mathbf{K} 06'34	
morning rise	-3549 Apr 20 j 08:33	15° \mathbf{K} 30'07			-3542 Apr 03 j 07:13	0° \mathbf{Y}	
retrograde	-3549 Jul 20 j 00:45	17° \mathbf{K} 27'50		evening set	-3542 Apr 04 j 02:20	0° \mathbf{Y} 01'44	
opposition	-3549 Oct 06 j 15:07	16° \mathbf{K} 02'53	-2°19'45				
min. Earth dist.	-3549 Oct 06 j 05:45	16° \mathbf{K} 03'33	28.83405 AU	conjunction	-3542 Apr 20 j 08:24	0° \mathbf{Y} 37'44	-2°03'54
direct	-3549 Dec 23 j 06:17	14° \mathbf{K} 38'29		minimum elong	-3542 Apr 20 j 08:24	0° \mathbf{Y} 37'44	2°03'55
evening set	-3548 Mar 20 j 13:11	16° \mathbf{K} 33'11		max. Earth dist.	-3542 Apr 20 j 14:40	0° \mathbf{Y} 38'19	30.85589 AU
				morning rise	-3542 May 06 j 15:00	1° \mathbf{Y} 13'49	
conjunction	-3548 Apr 05 j 17:33	17° \mathbf{K} 09'06	-2°10'27	retrograde	-3542 Aug 04 j 13:12	3° \mathbf{Y} 10'35	
minimum elong	-3548 Apr 05 j 17:34	17° \mathbf{K} 09'06	2°10'29	opposition	-3542 Oct 21 j 17:16	1° \mathbf{Y} 46'03	-2°11'33
max. Earth dist.	-3548 Apr 06 j 04:21	17° \mathbf{K} 10'06	30.83281 AU	min. Earth dist.	-3542 Oct 21 j 12:41	1° \mathbf{Y} 46'23	28.86118 AU
morning rise	-3548 Apr 21 j 23:21	17° \mathbf{K} 45'10		direct	-3541 Jan 07 j 15:26	0° \mathbf{Y} 21'22	
retrograde	-3548 Jul 21 j 13:59	19° \mathbf{K} 42'43		evening set	-3541 Apr 06 j 16:39	2° \mathbf{Y} 16'38	

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Attention, astronomical year style is used: The year -3541 in astronomical counting style is the year 3542 BCE in historical counting style.

conjunction	-3541 Apr 22 j 22:57	2° Υ 52'39	-2°02'08	direct	-3534 Jan 23 j 06:17	16° Υ 04'56	
minimum elong	-3541 Apr 22 j 22:57	2° Υ 52'39	2°02'08	evening set	-3534 Apr 22 j 21:27	18° Υ 00'34	
max. Earth dist.	-3541 Apr 23 j 03:42	2° Υ 53'06	30.86385 AU				
morning rise	-3541 May 09 j 05:46	3° Υ 28'44		conjunction	-3534 May 09 j 05:02	18° Υ 36'39	-1°44'45
retrograde	-3541 Aug 07 j 03:03	5° Υ 25'24		minimum elong	-3534 May 09 j 05:02	18° Υ 36'39	1°44'42
opposition	-3541 Oct 24 j 03:45	4° Υ 00'58	-2°09'33	max. Earth dist.	-3534 May 09 j 01:07	18° Υ 36'17	30.90418 AU
min. Earth dist.	-3541 Oct 23 j 23:13	4° Υ 01'17	28.86913 AU	morning rise	-3534 May 25 j 12:07	19° Υ 12'42	
direct	-3540 Jan 10 j 04:48	2° Υ 36'17		retrograde	-3534 Aug 22 j 14:45	21° Υ 08'11	
evening set	-3540 Apr 08 j 07:10	4° Υ 31'39		opposition	-3534 Nov 08 j 05:13	19° Υ 44'08	-1°50'20
				min. Earth dist.	-3534 Nov 08 j 08:04	19° Υ 43'56	28.90763 AU
conjunction	-3540 Apr 24 j 13:40	5° Υ 07'41	-2°00'10	direct	-3533 Jan 25 j 17:32	18° Υ 19'04	
minimum elong	-3540 Apr 24 j 13:41	5° Υ 07'41	2°00'09	evening set	-3533 Apr 25 j 11:36	20° Υ 14'44	
max. Earth dist.	-3540 Apr 24 j 17:25	5° Υ 08'02	30.87166 AU				
morning rise	-3540 May 10 j 20:30	5° Υ 43'46		conjunction	-3533 May 11 j 19:27	20° Υ 50'49	-1°41'37
retrograde	-3540 Aug 08 j 15:01	7° Υ 40'19		minimum elong	-3533 May 11 j 19:27	20° Υ 50'49	1°41'34
opposition	-3540 Oct 25 j 14:22	6° Υ 15'59	-2°07'22	max. Earth dist.	-3533 May 11 j 15:31	20° Υ 50'27	30.90929 AU
min. Earth dist.	-3540 Oct 25 j 11:57	6° Υ 16'09	28.87675 AU	morning rise	-3533 May 28 j 02:21	21° Υ 26'51	
direct	-3539 Jan 11 j 16:16	4° Υ 51'17		retrograde	-3533 Aug 25 j 00:15	23° Υ 22'10	
evening set	-3539 Apr 10 j 21:37	6° Υ 46'44		opposition	-3533 Nov 10 j 15:38	21° Υ 58'09	-1°46'54
				min. Earth dist.	-3533 Nov 10 j 19:57	21° Υ 57'51	28.91315 AU
conjunction	-3539 Apr 27 j 04:24	7° Υ 22'47	-1°58'01	direct	-3532 Jan 28 j 06:03	20° Υ 33'01	
minimum elong	-3539 Apr 27 j 04:25	7° Υ 22'47	1°58'00	evening set	-3532 Apr 27 j 01:47	22° Υ 28'44	
max. Earth dist.	-3539 Apr 27 j 07:07	7° Υ 23'02	30.87902 AU				
morning rise	-3539 May 13 j 11:16	7° Υ 58'52		conjunction	-3532 May 13 j 09:38	23° Υ 04'48	-1°38'19
retrograde	-3539 Aug 11 j 04:56	9° Υ 55'16		minimum elong	-3532 May 13 j 09:38	23° Υ 04'48	1°38'16
opposition	-3539 Oct 28 j 00:56	8° Υ 31'01	-2°04'58	max. Earth dist.	-3532 May 13 j 04:15	23° Υ 04'18	30.91548 AU
min. Earth dist.	-3539 Oct 27 j 22:42	8° Υ 31'10	28.88355 AU	morning rise	-3532 May 29 j 16:35	23° Υ 40'49	
direct	-3538 Jan 14 j 05:58	7° Υ 06'17		retrograde	-3532 Aug 26 j 12:35	25° Υ 35'58	
evening set	-3538 Apr 13 j 12:01	9° Υ 01'48		opposition	-3532 Nov 12 j 01:51	24° Υ 12'01	-1°43'18
				min. Earth dist.	-3532 Nov 12 j 05:50	24° Υ 11'44	28.91990 AU
conjunction	-3538 Apr 29 j 18:55	9° Υ 37'52	-1°55'42	direct	-3531 Jan 29 j 18:54	22° Υ 46'50	
minimum elong	-3538 Apr 29 j 18:56	9° Υ 37'52	1°55'41	evening set	-3531 Apr 29 j 15:53	24° Υ 42'36	
max. Earth dist.	-3538 Apr 29 j 19:43	9° Υ 37'56	30.88535 AU				
morning rise	-3538 May 16 j 01:56	10° Υ 13'57		conjunction	-3531 May 15 j 23:49	25° Υ 18'41	-1°34'53
retrograde	-3538 Aug 13 j 17:57	12° Υ 10'11		minimum elong	-3531 May 15 j 23:50	25° Υ 18'41	1°34'50
opposition	-3538 Oct 30 j 11:38	10° Υ 45'59	-2°02'24	max. Earth dist.	-3531 May 15 j 18:01	25° Υ 18'08	30.92290 AU
min. Earth dist.	-3538 Oct 30 j 11:14	10° Υ 46'01	28.88940 AU	morning rise	-3531 Jun 01 j 06:37	25° Υ 54'41	
direct	-3537 Jan 16 j 17:41	9° Υ 21'13		retrograde	-3531 Aug 28 j 23:25	27° Υ 49'41	
evening set	-3537 Apr 16 j 02:26	11° Υ 16'47		opposition	-3531 Nov 14 j 12:16	26° Υ 25'48	-1°39'33
				min. Earth dist.	-3531 Nov 14 j 17:50	26° Υ 25'24	28.92801 AU
conjunction	-3537 May 02 j 09:42	11° Υ 52'51	-1°53'13	direct	-3530 Feb 01 j 06:07	25° Υ 00'37	
minimum elong	-3537 May 02 j 09:42	11° Υ 52'51	1°53'11	evening set	-3530 May 02 j 05:47	26° Υ 56'26	
max. Earth dist.	-3537 May 02 j 09:58	11° Υ 52'53	30.89077 AU				
morning rise	-3537 May 18 j 16:38	12° Υ 28'56		conjunction	-3530 May 18 j 13:50	27° Υ 32'31	-1°31'18
retrograde	-3537 Aug 16 j 04:52	14° Υ 24'59		minimum elong	-3530 May 18 j 13:51	27° Υ 32'31	1°31'15
opposition	-3537 Nov 01 j 22:02	13° Υ 00'50	-1°59'38	max. Earth dist.	-3530 May 18 j 07:28	27° Υ 31'55	30.93179 AU
min. Earth dist.	-3537 Nov 01 j 22:19	13° Υ 00'49	28.89424 AU	morning rise	-3530 Jun 03 j 20:36	28° Υ 08'31	
direct	-3536 Jan 19 j 07:05	11° Υ 36'00			-3530 Aug 17 j 11:40	0° \mathcal{B}	
evening set	-3536 Apr 17 j 16:59	13° Υ 31'36		retrograde	-3530 Aug 31 j 12:18	0° \mathcal{B} 03'22	
					-3530 Sep 14 j 13:41	30° $\mathcal{R}\Upsilon$	
conjunction	-3536 May 04 j 00:16	14° Υ 07'40	-1°50'33	opposition	-3530 Nov 16 j 22:31	28° Υ 39'35	-1°35'39
minimum elong	-3536 May 04 j 00:16	14° Υ 07'40	1°50'31	min. Earth dist.	-3530 Nov 17 j 03:53	28° Υ 39'12	28.93726 AU
max. Earth dist.	-3536 May 03 j 22:14	14° Υ 07'29	30.89538 AU	direct	-3529 Feb 03 j 19:59	27° Υ 14'24	
morning rise	-3536 May 20 j 07:22	14° Υ 43'44		evening set	-3529 May 04 j 19:58	29° Υ 10'18	
retrograde	-3536 Aug 17 j 16:51	16° Υ 39'36					
opposition	-3536 Nov 03 j 08:34	15° Υ 15'30	-1°56'43	conjunction	-3529 May 21 j 03:59	29° Υ 46'24	-1°27'35
min. Earth dist.	-3536 Nov 03 j 10:01	15° Υ 15'23	28.89864 AU	minimum elong	-3529 May 21 j 04:00	29° Υ 46'24	1°27'32
direct	-3535 Jan 20 j 18:18	13° Υ 50'35		max. Earth dist.	-3529 May 20 j 20:16	29° Υ 45'41	30.94149 AU
evening set	-3535 Apr 20 j 07:09	15° Υ 46'12			-3529 May 27 j 06:38	0° \mathcal{B}	
				morning rise	-3529 Jun 06 j 10:40	0° \mathcal{B} 22'23	
conjunction	-3535 May 06 j 14:44	16° Υ 22'17	-1°47'44	retrograde	-3529 Sep 03 j 00:40	2° \mathcal{B} 17'07	
minimum elong	-3535 May 06 j 14:45	16° Υ 22'17	1°47'42	opposition	-3529 Nov 19 j 08:47	0° \mathcal{B} 53'26	-1°31'36
max. Earth dist.	-3535 May 06 j 12:50	16° Υ 22'06	30.89967 AU	min. Earth dist.	-3529 Nov 19 j 15:43	0° \mathcal{B} 52'57	28.94725 AU
morning rise	-3535 May 22 j 21:39	16° Υ 58'20			-3529 Dec 23 j 08:02	30° $\mathcal{R}\Upsilon$	
retrograde	-3535 Aug 20 j 03:08	18° Υ 54'01		direct	-3528 Feb 06 j 07:39	29° Υ 28'16	
opposition	-3535 Nov 05 j 19:00	17° Υ 29'56	-1°53'36		-3528 Mar 21 j 15:35	0° \mathcal{B}	
min. Earth dist.	-3535 Nov 05 j 21:35	17° Υ 29'45	28.90286 AU	evening set	-3528 May 06 j 10:05	1° \mathcal{B} 24'16	

Attention, astronomical year style is used: The year -3528 in astronomical counting style is the year 3529 BCE in historical counting style.

conjunction	-3528 May 22 j 18:14	2°800'21	-1°23'44	retrograde	-3522 Sep 18 j 04:17	17°853'11	
minimum elong	-3528 May 22 j 18:14	2°800'21	1°23'40	opposition	-3522 Dec 04 j 09:26	16°830'01	-0°59'53
max. Earth dist.	-3528 May 22 j 10:16	1°859'37	30.95164 AU	min. Earth dist.	-3522 Dec 04 j 23:10	16°829'03	29.00165 AU
morning rise	-3528 Jun 08 j 00:40	2°836'19		direct	-3521 Feb 21 j 19:24	15°804'39	
retrograde	-3528 Sep 04 j 11:58	4°830'56		evening set	-3521 May 23 j 11:36	17°800'54	
opposition	-3528 Nov 20 j 19:10	3°807'23	-1°27'25				
min. Earth dist.	-3528 Nov 21 j 02:37	3°806'51	28.95719 AU	conjunction	-3521 Jun 08 j 19:06	17°836'55	-0°53'43
direct	-3527 Feb 07 j 20:57	1°842'14		minimum elong	-3521 Jun 08 j 19:06	17°836'55	0°53'37
evening set	-3527 May 09 j 00:11	3°838'17		max. Earth dist.	-3521 Jun 08 j 03:34	17°835'29	31.00458 AU
				morning rise	-3521 Jun 25 j 00:02	18°812'45	
conjunction	-3527 May 25 j 08:08	4°814'22	-1°19'45	retrograde	-3521 Sep 20 j 15:49	20°806'18	
minimum elong	-3527 May 25 j 08:08	4°814'22	1°19'41	opposition	-3521 Dec 06 j 19:36	18°843'10	-0°54'58
max. Earth dist.	-3527 May 24 j 22:04	4°813'26	30.96140 AU	min. Earth dist.	-3521 Dec 07 j 09:05	18°842'13	29.00834 AU
morning rise	-3527 Jun 10 j 14:32	4°850'20		direct	-3520 Feb 24 j 10:03	17°817'45	
retrograde	-3527 Sep 07 j 00:22	6°844'49		evening set	-3520 May 25 j 01:15	19°814'01	
opposition	-3527 Nov 23 j 05:37	5°821'22	-1°23'06				
min. Earth dist.	-3527 Nov 23 j 14:09	5°820'46	28.96667 AU	conjunction	-3520 Jun 10 j 08:28	19°850'01	-0°49'04
direct	-3526 Feb 10 j 08:07	3°856'13		minimum elong	-3520 Jun 10 j 08:28	19°850'01	0°48'58
evening set	-3526 May 11 j 14:13	5°852'20		max. Earth dist.	-3520 Jun 09 j 16:01	19°848'30	31.01170 AU
				morning rise	-3520 Jun 26 j 13:05	20°825'49	
conjunction	-3526 May 27 j 22:18	6°828'26	-1°15'40	retrograde	-3520 Sep 22 j 03:01	22°819'14	
minimum elong	-3526 May 27 j 22:19	6°828'26	1°15'35	opposition	-3520 Dec 08 j 06:00	20°856'08	-0°49'58
max. Earth dist.	-3526 May 27 j 12:12	6°827'29	30.97043 AU	min. Earth dist.	-3520 Dec 08 j 20:33	20°855'06	29.01610 AU
morning rise	-3526 Jun 13 j 04:22	7°804'22		direct	-3519 Feb 25 j 22:15	19°830'40	
retrograde	-3526 Sep 09 j 10:53	8°858'43		evening set	-3519 May 27 j 14:29	21°826'58	
opposition	-3526 Nov 25 j 15:59	7°835'21	-1°18'40				
min. Earth dist.	-3526 Nov 26 j 01:55	7°834'39	28.97510 AU	conjunction	-3519 Jun 12 j 21:34	22°802'56	-0°44'22
direct	-3525 Feb 12 j 20:06	6°810'11		minimum elong	-3519 Jun 12 j 21:35	22°802'56	0°44'16
evening set	-3525 May 14 j 04:25	8°806'21		max. Earth dist.	-3519 Jun 12 j 05:23	22°801'26	31.02010 AU
				morning rise	-3519 Jun 29 j 01:48	22°838'42	
conjunction	-3525 May 30 j 12:18	8°842'26	-1°11'28	retrograde	-3519 Sep 24 j 13:33	24°831'59	
minimum elong	-3525 May 30 j 12:19	8°842'26	1°11'23	opposition	-3519 Dec 10 j 16:19	23°808'56	-0°44'54
max. Earth dist.	-3525 May 29 j 23:51	8°841'17	30.97845 AU	min. Earth dist.	-3519 Dec 11 j 06:50	23°807'55	29.02505 AU
morning rise	-3525 Jun 15 j 18:20	9°818'22		direct	-3518 Feb 28 j 11:39	21°843'28	
retrograde	-3525 Sep 11 j 22:14	11°812'34		evening set	-3518 May 30 j 03:58	23°839'47	
opposition	-3525 Nov 28 j 02:22	9°849'16	-1°14'07				
min. Earth dist.	-3525 Nov 28 j 12:43	9°848'32	28.98260 AU	conjunction	-3518 Jun 15 j 10:41	24°815'45	-0°39'35
direct	-3524 Feb 15 j 07:37	8°824'04		minimum elong	-3518 Jun 15 j 10:41	24°815'45	0°39'29
evening set	-3524 May 15 j 18:22	10°820'16		max. Earth dist.	-3518 Jun 14 j 17:03	24°814'07	31.02980 AU
				morning rise	-3518 Jul 01 j 14:39	24°851'29	
conjunction	-3524 Jun 01 j 02:17	10°856'20	-1°07'09	retrograde	-3518 Sep 27 j 01:54	26°844'38	
minimum elong	-3524 Jun 01 j 02:17	10°856'21	1°07'04	opposition	-3518 Dec 13 j 02:31	25°821'40	-0°39'46
max. Earth dist.	-3524 May 31 j 13:40	10°855'10	30.98545 AU	min. Earth dist.	-3518 Dec 13 j 17:31	25°820'37	29.03544 AU
morning rise	-3524 Jun 17 j 07:54	11°832'15		direct	-3517 Mar 02 j 23:32	23°856'12	
retrograde	-3524 Sep 13 j 06:58	13°826'17		evening set	-3517 Jun 01 j 17:18	25°852'34	
opposition	-3524 Nov 29 j 12:49	12°803'03	-1°09'28				
min. Earth dist.	-3524 Nov 30 j 00:54	12°802'12	28.98918 AU	conjunction	-3517 Jun 17 j 23:55	26°828'31	-0°34'45
direct	-3523 Feb 16 j 19:54	10°837'48		minimum elong	-3517 Jun 17 j 23:55	26°828'31	0°34'40
evening set	-3523 May 18 j 08:17	12°834'01		max. Earth dist.	-3517 Jun 17 j 06:53	26°826'56	31.04075 AU
				morning rise	-3517 Jul 04 j 03:22	27°804'13	
conjunction	-3523 Jun 03 j 16:00	13°810'05	-1°02'45	retrograde	-3517 Sep 29 j 11:58	28°857'15	
minimum elong	-3523 Jun 03 j 16:00	13°810'05	1°02'41	opposition	-3517 Dec 15 j 12:55	27°834'23	-0°34'34
max. Earth dist.	-3523 Jun 03 j 01:37	13°808'45	30.99191 AU	min. Earth dist.	-3517 Dec 16 j 04:49	27°833'16	29.04669 AU
morning rise	-3523 Jun 19 j 21:31	13°845'58		direct	-3516 Mar 04 j 12:18	26°808'57	
	-3523 Jul 28 j 16:05	15°8		evening set	-3516 Jun 03 j 06:43	28°805'21	
retrograde	-3523 Sep 15 j 18:41	15°839'50					
	-3523 Nov 05 j 01:09	15°8		conjunction	-3516 Jun 19 j 12:50	28°841'16	-0°29'52
opposition	-3523 Dec 01 j 23:03	14°816'38	-1°04'43	minimum elong	-3516 Jun 19 j 12:50	28°841'16	0°29'45
min. Earth dist.	-3523 Dec 02 j 11:01	14°815'48	28.99542 AU	max. Earth dist.	-3516 Jun 18 j 18:11	28°839'33	31.05236 AU
direct	-3522 Feb 19 j 08:05	12°851'19		morning rise	-3516 Jul 05 j 16:01	29°816'57	
evening set	-3522 May 20 j 21:55	14°847'34			-3516 Jul 26 j 14:19	0°II	
	-3522 May 26 j 14:21	15°8		retrograde	-3516 Sep 30 j 23:07	1°II09'53	
					-3516 Dec 09 j 07:10	30°8	
conjunction	-3522 Jun 06 j 05:35	15°823'36	-0°58'16	opposition	-3516 Dec 16 j 23:17	29°847'07	-0°29'19
minimum elong	-3522 Jun 06 j 05:35	15°823'37	0°58'10	min. Earth dist.	-3516 Dec 17 j 15:08	29°846'01	29.05845 AU
max. Earth dist.	-3522 Jun 05 j 14:46	15°822'14	30.99808 AU	direct	-3515 Mar 06 j 23:53	28°821'42	
morning rise	-3522 Jun 22 j 10:46	15°859'28			-3515 May 28 j 07:18	0°II	

Attention, astronomical year style is used: The year -3515 in astronomical counting style is the year 3516 BCE in historical counting style.

evening set	-3515 Jun 05 j 19:59	0°II18'10		min. Earth dist.	-3510 Dec 31 j 10:59	13°II01'14	29.11372 AU
max. Earth dist.	-3515 Jun 21 j 07:35	0°II52'22	31.06402 AU	direct	-3509 Mar 21 j 01:27	11°II37'12	
				evening set	-3509 Jun 20 j 02:54	13°II33'47	
conjunction	-3515 Jun 22 j 01:55	0°II54'04	-0°24'57	max. Earth dist.	-3509 Jul 05 j 06:29	14°II07'17	31.11705 AU
minimum elong	-3515 Jun 22 j 01:55	0°II54'04	0°24'50				
morning rise	-3515 Jul 08 j 04:30	1°II29'42		conjunction	-3509 Jul 06 j 06:12	14°II09'29	0°05'10
retrograde	-3515 Oct 03 j 08:03	3°II22'33		minimum elong	-3509 Jul 06 j 06:12	14°II09'29	0°05'17
opposition	-3515 Dec 19 j 09:47	1°II59'53	-0°24'02	behind sun begin	-3509 Jul 05 j 23:51	14°II08'55	
min. Earth dist.	-3515 Dec 20 j 03:13	1°II58'40	29.06994 AU	behind sun end	-3509 Jul 06 j 12:32	14°II10'02	
direct	-3514 Mar 09 j 11:16	0°II34'29		morning rise	-3509 Jul 22 j 05:58	14°II44'53	
evening set	-3514 Jun 08 j 09:19	2°II30'59		retrograde	-3509 Oct 17 j 00:55	16°II37'08	
				opposition	-3508 Jan 02 j 01:11	15°II14'46	0°08'04
conjunction	-3514 Jun 24 j 14:47	3°II06'51	-0°19'59	min. Earth dist.	-3508 Jan 02 j 21:59	15°II13'19	29.12092 AU
minimum elong	-3514 Jun 24 j 14:47	3°II06'52	0°19'51	direct	-3508 Mar 22 j 14:01	13°II49'17	
max. Earth dist.	-3514 Jun 23 j 18:48	3°II05'00	31.07523 AU	evening set	-3508 Jun 21 j 15:28	15°II45'52	
morning rise	-3514 Jul 10 j 17:06	3°II42'28					
retrograde	-3514 Oct 05 j 19:44	5°II35'13		conjunction	-3508 Jul 07 j 18:24	16°II21'32	0°10'08
opposition	-3514 Dec 21 j 20:16	4°II12'38	-0°18'43	minimum elong	-3508 Jul 07 j 18:24	16°II21'32	0°10'16
min. Earth dist.	-3514 Dec 22 j 13:29	4°II11'26	29.08065 AU	behind sun begin	-3508 Jul 07 j 13:14	16°II21'04	
direct	-3513 Mar 11 j 22:58	2°II47'14		behind sun end	-3508 Jul 07 j 23:34	16°II21'59	
evening set	-3513 Jun 10 j 22:39	4°II43'46		max. Earth dist.	-3508 Jul 06 j 19:34	16°II19'25	31.12434 AU
max. Earth dist.	-3513 Jun 26 j 07:22	5°II17'44	31.08533 AU	morning rise	-3508 Jul 23 j 17:28	16°II56'53	
				retrograde	-3508 Oct 18 j 10:25	18°II49'03	
conjunction	-3513 Jun 27 j 03:48	5°II19'37	-0°15'00	opposition	-3507 Jan 03 j 11:53	17°II26'43	0°13'24
minimum elong	-3513 Jun 27 j 03:48	5°II19'37	0°14'53	min. Earth dist.	-3507 Jan 04 j 09:19	17°II25'13	29.12846 AU
behind sun begin	-3513 Jun 27 j 01:29	5°II19'25		direct	-3507 Mar 25 j 03:33	16°II01'14	
behind sun end	-3513 Jun 27 j 06:08	5°II19'50		evening set	-3507 Jun 24 j 04:07	17°II57'49	
morning rise	-3513 Jul 13 j 05:30	5°II55'12		max. Earth dist.	-3507 Jul 09 j 06:20	18°II31'12	31.13232 AU
retrograde	-3513 Oct 08 j 04:53	7°II47'51					
opposition	-3513 Dec 24 j 06:54	6°II25'20	-0°13'22	conjunction	-3507 Jul 10 j 06:22	18°II33'26	0°15'06
min. Earth dist.	-3513 Dec 25 j 01:57	6°II24'00	29.09027 AU	minimum elong	-3507 Jul 10 j 06:22	18°II33'26	0°15'13
direct	-3512 Mar 13 j 10:08	4°II59'56		behind sun begin	-3507 Jul 10 j 04:24	18°II33'16	
evening set	-3512 Jun 12 j 11:56	6°II56'29		behind sun end	-3507 Jul 10 j 08:19	18°II33'36	
				morning rise	-3507 Jul 26 j 05:01	19°II08'45	
conjunction	-3512 Jun 28 j 16:38	7°II32'18	-0°10'00	retrograde	-3507 Oct 20 j 21:08	21°II00'51	
minimum elong	-3512 Jun 28 j 16:39	7°II32'18	0°09'53	opposition	-3506 Jan 05 j 22:22	19°II38'33	0°18'43
behind sun begin	-3512 Jun 28 j 11:20	7°II31'50		min. Earth dist.	-3506 Jan 06 j 19:13	19°II37'06	29.13703 AU
behind sun end	-3512 Jun 28 j 21:57	7°II32'46		direct	-3506 Mar 27 j 15:22	18°II13'04	
max. Earth dist.	-3512 Jun 27 j 19:20	7°II30'19	31.09448 AU	evening set	-3506 Jun 26 j 16:31	20°II09'40	
morning rise	-3512 Jul 14 j 17:55	8°II07'50					
retrograde	-3512 Oct 09 j 15:49	10°II00'23		conjunction	-3506 Jul 12 j 18:24	20°II45'15	0°20'03
opposition	-3512 Dec 25 j 17:30	8°II37'55	-0°08'00	minimum elong	-3506 Jul 12 j 18:24	20°II45'15	0°20'12
min. Earth dist.	-3512 Dec 26 j 12:23	8°II36'36	29.09882 AU	max. Earth dist.	-3506 Jul 11 j 19:17	20°II43'07	31.14135 AU
direct	-3511 Mar 16 j 00:06	7°II12'31		morning rise	-3506 Jul 28 j 16:20	21°II20'31	
evening set	-3511 Jun 15 j 00:57	9°II09'04		retrograde	-3506 Oct 23 j 05:44	23°II12'34	
max. Earth dist.	-3511 Jun 30 j 06:55	9°II42'47	31.10254 AU	opposition	-3505 Jan 08 j 09:10	21°II50'20	0°24'00
				min. Earth dist.	-3505 Jan 09 j 06:58	21°II48'49	29.14660 AU
conjunction	-3511 Jul 01 j 05:13	9°II44'51	-0°05'01	direct	-3505 Mar 30 j 03:01	20°II24'53	
minimum elong	-3511 Jul 01 j 05:12	9°II44'51	0°04'54	evening set	-3505 Jun 29 j 05:02	22°II21'30	
behind sun begin	-3511 Jun 30 j 22:49	9°II44'17		max. Earth dist.	-3505 Jul 14 j 06:11	22°II54'49	31.15147 AU
behind sun end	-3511 Jul 01 j 11:35	9°II45'25					
morning rise	-3511 Jul 17 j 05:58	10°II20'21		conjunction	-3505 Jul 15 j 06:13	22°II57'03	0°24'59
retrograde	-3511 Oct 12 j 02:38	12°II12'48		minimum elong	-3505 Jul 15 j 06:13	22°II57'03	0°25'06
opposition	-3511 Dec 28 j 04:08	10°II50'22	-0°02'39	morning rise	-3505 Jul 31 j 03:40	23°II32'17	
min. Earth dist.	-3511 Dec 29 j 00:17	10°II48'58	29.10659 AU	retrograde	-3505 Oct 25 j 17:03	25°II24'16	
direct	-3510 Mar 18 j 11:51	9°II24'56		opposition	-3504 Jan 10 j 19:47	24°II02'08	0°29'14
evening set	-3510 Jun 17 j 13:54	11°II21'31		min. Earth dist.	-3504 Jan 11 j 16:42	24°II00'41	29.15713 AU
asc. node	-3510 Jun 27 j 22:43	11°II44'20		direct	-3504 Mar 31 j 14:11	22°II36'43	
				evening set	-3504 Jun 30 j 17:24	24°II33'23	
conjunction	-3510 Jul 03 j 17:48	11°II57'15	0°00'05				
minimum elong	-3510 Jul 03 j 17:49	11°II57'15	0°00'13	conjunction	-3504 Jul 16 j 18:05	25°II08'54	0°29'52
behind sun begin	-3510 Jul 03 j 11:20	11°II56'41		minimum elong	-3504 Jul 16 j 18:05	25°II08'54	0°30'01
behind sun end	-3510 Jul 04 j 00:17	11°II57'49		max. Earth dist.	-3504 Jul 15 j 18:24	25°II06'41	31.16228 AU
max. Earth dist.	-3510 Jul 02 j 19:32	11°II55'11	31.11000 AU	morning rise	-3504 Aug 01 j 14:49	25°II44'05	
morning rise	-3510 Jul 19 j 18:02	12°II32'42		retrograde	-3504 Oct 27 j 01:45	27°II36'04	
retrograde	-3510 Oct 14 j 12:49	14°II25'03		opposition	-3503 Jan 12 j 06:43	26°II14'00	0°34'27
opposition	-3510 Dec 30 j 14:35	13°II02'39	0°02'43	min. Earth dist.	-3503 Jan 13 j 04:51	26°II12'28	29.16822 AU

Attention, astronomical year style is used: The year -3503 in astronomical counting style is the year 3504 BCE in historical counting style.

direct	-3503 Apr 03 j 00:48	24° Π 48'39		conjunction	-3497 Aug 02 j 02:50	10° \mathfrak{C} 31'48	1°02'27
evening set	-3503 Jul 03 j 05:38	26° Π 45'20		minimum elong	-3497 Aug 02 j 02:50	10° \mathfrak{C} 31'48	1°02'35
max. Earth dist.	-3503 Jul 18 j 05:47	27° Π 18'35	31.17339 AU	morning rise	-3497 Aug 17 j 18:59	11° \mathfrak{C} 06'38	
				retrograde	-3497 Nov 12 j 03:01	12° \mathfrak{C} 58'25	
conjunction	-3503 Jul 19 j 05:42	27° Π 20'48	0°34'43	opposition	-3496 Jan 28 j 12:06	11° \mathfrak{C} 36'35	1°09'00
minimum elong	-3503 Jul 19 j 05:42	27° Π 20'48	0°34'51	min. Earth dist.	-3496 Jan 29 j 12:43	11° \mathfrak{C} 34'53	29.22145 AU
morning rise	-3503 Aug 04 j 01:53	27° Π 55'57		direct	-3496 Apr 18 j 17:16	10° \mathfrak{C} 11'19	
retrograde	-3503 Oct 29 j 12:04	29° Π 47'55		evening set	-3496 Jul 18 j 18:22	12° \mathfrak{C} 07'57	
opposition	-3502 Jan 14 j 17:32	28° Π 25'56	0°39'36	max. Earth dist.	-3496 Aug 02 j 11:34	12° \mathfrak{C} 40'37	31.22288 AU
min. Earth dist.	-3502 Jan 15 j 15:13	28° Π 24'26	29.17910 AU				
direct	-3502 Apr 05 j 13:34	27° Π 00'38		conjunction	-3496 Aug 03 j 13:49	12° \mathfrak{C} 43'04	1°06'47
evening set	-3502 Jul 05 j 18:02	28° Π 57'21		minimum elong	-3496 Aug 03 j 13:48	12° \mathfrak{C} 43'04	1°06'55
				morning rise	-3496 Aug 19 j 05:27	13° \mathfrak{C} 17'52	
conjunction	-3502 Jul 21 j 17:27	29° Π 32'47	0°39'31	retrograde	-3496 Nov 13 j 13:51	15° \mathfrak{C} 09'36	
minimum elong	-3502 Jul 21 j 17:26	29° Π 32'47	0°39'39	opposition	-3495 Jan 29 j 23:13	13° \mathfrak{C} 47'45	1°13'34
max. Earth dist.	-3502 Jul 20 j 16:52	29° Π 30'30	31.18387 AU	min. Earth dist.	-3495 Jan 30 j 22:44	13° \mathfrak{C} 46'08	29.22574 AU
	-3502 Aug 02 j 22:44	0° \mathfrak{C}		direct	-3495 Apr 21 j 05:48	12° \mathfrak{C} 22'27	
morning rise	-3502 Aug 06 j 12:58	0° \mathfrak{C} 07'53		evening set	-3495 Jul 21 j 05:46	14° \mathfrak{C} 19'03	
retrograde	-3502 Oct 31 j 22:51	1° \mathfrak{C} 59'50		max. Earth dist.	-3495 Aug 04 j 23:02	14° \mathfrak{C} 51'44	31.22719 AU
opposition	-3501 Jan 17 j 04:26	0° \mathfrak{C} 37'55	0°44'42				
min. Earth dist.	-3501 Jan 18 j 03:09	0° \mathfrak{C} 36'21	29.18928 AU	conjunction	-3495 Aug 06 j 00:38	14° \mathfrak{C} 54'08	1°11'01
	-3501 Feb 09 j 20:28	30° \mathfrak{R} Π		minimum elong	-3495 Aug 06 j 00:37	14° \mathfrak{C} 54'07	1°11'08
direct	-3501 Apr 07 j 23:50	29° Π 12'39		morning rise	-3495 Aug 21 j 15:31	15° \mathfrak{C} 28'52	
	-3501 Jun 02 j 12:01	0° \mathfrak{C}		retrograde	-3495 Nov 15 j 21:57	17° \mathfrak{C} 20'36	
evening set	-3501 Jul 08 j 06:21	1° \mathfrak{C} 09'25		opposition	-3494 Feb 01 j 10:29	15° \mathfrak{C} 58'43	1°18'02
max. Earth dist.	-3501 Jul 23 j 04:50	1° \mathfrak{C} 42'31	31.19343 AU	min. Earth dist.	-3494 Feb 02 j 10:49	15° \mathfrak{C} 57'03	29.23044 AU
				direct	-3494 Apr 23 j 16:55	14° \mathfrak{C} 33'25	
conjunction	-3501 Jul 24 j 05:12	1° \mathfrak{C} 44'47	0°44'15	evening set	-3494 Jul 23 j 17:15	16° \mathfrak{C} 30'00	
minimum elong	-3501 Jul 24 j 05:12	1° \mathfrak{C} 44'47	0°44'22	max. Earth dist.	-3494 Aug 07 j 10:05	17° \mathfrak{C} 02'39	31.23225 AU
morning rise	-3501 Aug 09 j 00:01	2° \mathfrak{C} 19'50					
retrograde	-3501 Nov 03 j 09:13	4° \mathfrak{C} 11'46		conjunction	-3494 Aug 08 j 11:23	17° \mathfrak{C} 05'01	1°15'08
opposition	-3500 Jan 19 j 15:33	2° \mathfrak{C} 49'54	0°49'43	minimum elong	-3494 Aug 08 j 11:23	17° \mathfrak{C} 05'01	1°15'16
min. Earth dist.	-3500 Jan 20 j 14:25	2° \mathfrak{C} 48'19	29.19816 AU	morning rise	-3494 Aug 24 j 01:40	17° \mathfrak{C} 39'42	
direct	-3500 Apr 09 j 13:22	1° \mathfrak{C} 24'40		retrograde	-3494 Nov 18 j 07:18	19° \mathfrak{C} 31'25	
evening set	-3500 Jul 09 j 18:35	3° \mathfrak{C} 21'25		opposition	-3493 Feb 03 j 21:36	18° \mathfrak{C} 09'34	1°22'23
				min. Earth dist.	-3493 Feb 04 j 20:50	18° \mathfrak{C} 07'58	29.23591 AU
conjunction	-3500 Jul 25 j 16:39	3° \mathfrak{C} 56'45	0°48'55	direct	-3493 Apr 26 j 05:15	16° \mathfrak{C} 44'17	
minimum elong	-3500 Jul 25 j 16:39	3° \mathfrak{C} 56'45	0°49'03	evening set	-3493 Jul 26 j 04:41	18° \mathfrak{C} 40'51	
max. Earth dist.	-3500 Jul 24 j 14:56	3° \mathfrak{C} 54'21	31.20160 AU				
morning rise	-3500 Aug 10 j 10:54	4° \mathfrak{C} 31'45		conjunction	-3493 Aug 10 j 22:06	19° \mathfrak{C} 15'49	1°19'09
retrograde	-3500 Nov 04 j 21:37	6° \mathfrak{C} 23'39		minimum elong	-3493 Aug 10 j 22:05	19° \mathfrak{C} 15'49	1°19'16
opposition	-3499 Jan 21 j 02:41	5° \mathfrak{C} 01'49	0°54'40	max. Earth dist.	-3493 Aug 09 j 20:50	19° \mathfrak{C} 13'28	31.23815 AU
min. Earth dist.	-3499 Jan 22 j 01:50	5° \mathfrak{C} 00'13	29.20578 AU	morning rise	-3493 Aug 26 j 11:42	19° \mathfrak{C} 50'28	
direct	-3499 Apr 12 j 02:02	3° \mathfrak{C} 36'35		retrograde	-3493 Nov 20 j 17:48	21° \mathfrak{C} 42'13	
evening set	-3499 Jul 12 j 06:39	5° \mathfrak{C} 33'20		opposition	-3492 Feb 06 j 08:58	20° \mathfrak{C} 20'23	1°26'37
max. Earth dist.	-3499 Jul 27 j 03:13	6° \mathfrak{C} 06'17	31.20845 AU	min. Earth dist.	-3492 Feb 07 j 08:22	20° \mathfrak{C} 18'46	29.24244 AU
				direct	-3492 Apr 27 j 14:50	18° \mathfrak{C} 55'09	
conjunction	-3499 Jul 28 j 04:14	6° \mathfrak{C} 08'36	0°53'31	evening set	-3492 Jul 27 j 15:47	20° \mathfrak{C} 51'43	
minimum elong	-3499 Jul 28 j 04:14	6° \mathfrak{C} 08'36	0°53'38	max. Earth dist.	-3492 Aug 11 j 08:27	21° \mathfrak{C} 24'23	31.24506 AU
morning rise	-3499 Aug 12 j 21:42	6° \mathfrak{C} 43'33					
retrograde	-3499 Nov 07 j 07:01	8° \mathfrak{C} 35'25		conjunction	-3492 Aug 12 j 08:35	21° \mathfrak{C} 26'38	1°23'03
opposition	-3498 Jan 23 j 13:45	7° \mathfrak{C} 13'36	0°59'33	minimum elong	-3492 Aug 12 j 08:35	21° \mathfrak{C} 26'38	1°23'11
min. Earth dist.	-3498 Jan 24 j 13:48	7° \mathfrak{C} 11'56	29.21197 AU	morning rise	-3492 Aug 27 j 21:30	22° \mathfrak{C} 01'14	
direct	-3498 Apr 14 j 15:44	5° \mathfrak{C} 48'22		retrograde	-3492 Nov 22 j 03:43	23° \mathfrak{C} 53'02	
evening set	-3498 Jul 14 j 18:47	7° \mathfrak{C} 45'05		opposition	-3491 Feb 07 j 20:20	22° \mathfrak{C} 31'14	1°30'43
				min. Earth dist.	-3491 Feb 08 j 19:12	22° \mathfrak{C} 29'40	29.24958 AU
conjunction	-3498 Jul 30 j 15:33	8° \mathfrak{C} 20'18	0°58'02	direct	-3491 Apr 30 j 03:46	21° \mathfrak{C} 06'05	
minimum elong	-3498 Jul 30 j 15:33	8° \mathfrak{C} 20'18	0°58'10	evening set	-3491 Jul 30 j 03:03	23° \mathfrak{C} 02'39	
max. Earth dist.	-3498 Jul 29 j 13:10	8° \mathfrak{C} 17'51	31.21405 AU				
morning rise	-3498 Aug 15 j 08:33	8° \mathfrak{C} 55'12		conjunction	-3491 Aug 14 j 19:04	23° \mathfrak{C} 37'32	1°26'50
retrograde	-3498 Nov 09 j 18:09	10° \mathfrak{C} 47'01		minimum elong	-3491 Aug 14 j 19:03	23° \mathfrak{C} 37'32	1°26'57
opposition	-3497 Jan 26 j 00:50	9° \mathfrak{C} 25'12	1°04'19	max. Earth dist.	-3491 Aug 13 j 18:15	23° \mathfrak{C} 35'13	31.25236 AU
min. Earth dist.	-3497 Jan 27 j 00:25	9° \mathfrak{C} 23'34	29.21710 AU	morning rise	-3491 Aug 30 j 07:27	24° \mathfrak{C} 12'05	
direct	-3497 Apr 17 j 04:10	7° \mathfrak{C} 59'56		retrograde	-3491 Nov 24 j 16:09	26° \mathfrak{C} 03'57	
evening set	-3497 Jul 17 j 06:35	9° \mathfrak{C} 56'38		opposition	-3490 Feb 10 j 07:35	24° \mathfrak{C} 42'12	1°34'41
max. Earth dist.	-3497 Aug 01 j 01:18	10° \mathfrak{C} 29'25	31.21864 AU	min. Earth dist.	-3490 Feb 11 j 06:13	24° \mathfrak{C} 40'39	29.25703 AU
				direct	-3490 May 02 j 14:57	23° \mathfrak{C} 17'06	

Attention, astronomical year style is used: The year -3490 in astronomical counting style is the year 3491 BCE in historical counting style.

evening set	-3490 Aug 01 j 14:09	25° \mathring{O} 13'42		conjunction	-3484 Aug 29 j 18:59	8° \mathring{O} 55'06	1°49'29
max. Earth dist.	-3490 Aug 16 j 06:04	25° \mathring{O} 46'20	31.25956 AU	minimum elong	-3484 Aug 29 j 18:59	8° \mathring{O} 55'06	1°49'36
				max. Earth dist.	-3484 Aug 28 j 19:39	8° \mathring{O} 52'54	31.28025 AU
conjunction	-3490 Aug 17 j 05:38	25° \mathring{O} 48'32	1°30'29	morning rise	-3484 Sep 14 j 03:07	9° \mathring{O} 29'22	
minimum elong	-3490 Aug 17 j 05:38	25° \mathring{O} 48'32	1°30'37	retrograde	-3484 Dec 09 j 14:32	11° \mathring{O} 21'35	
morning rise	-3490 Sep 01 j 17:15	26° \mathring{O} 23'03		opposition	-3483 Feb 25 j 17:48	9° \mathring{O} 59'49	1°58'22
retrograde	-3490 Nov 27 j 01:58	28° \mathring{O} 14'58		min. Earth dist.	-3483 Feb 26 j 15:54	9° \mathring{O} 58'18	29.28189 AU
opposition	-3489 Feb 12 j 19:11	26° \mathring{O} 53'16	1°38'32	direct	-3483 May 18 j 03:13	8° \mathring{O} 34'57	
min. Earth dist.	-3489 Feb 13 j 18:18	26° \mathring{O} 51'41	29.26393 AU	evening set	-3483 Aug 16 j 18:01	10° \mathring{O} 31'18	
direct	-3489 May 05 j 03:41	25° \mathring{O} 28'15		max. Earth dist.	-3483 Aug 31 j 06:52	11° \mathring{O} 03'44	31.28078 AU
evening set	-3489 Aug 04 j 01:20	27° \mathring{O} 24'52					
				conjunction	-3483 Sep 01 j 04:53	11° \mathring{O} 05'48	1°52'07
conjunction	-3489 Aug 19 j 15:57	27° \mathring{O} 59'39	1°34'01	minimum elong	-3483 Sep 01 j 04:53	11° \mathring{O} 05'48	1°52'13
minimum elong	-3489 Aug 19 j 15:56	27° \mathring{O} 59'39	1°34'07	morning rise	-3483 Sep 16 j 12:24	11° \mathring{O} 40'02	
max. Earth dist.	-3489 Aug 18 j 15:30	27° \mathring{O} 57'21	31.26603 AU	retrograde	-3483 Dec 11 j 23:37	13° \mathring{O} 32'16	
morning rise	-3489 Sep 04 j 03:04	28° \mathring{O} 34'07		opposition	-3482 Feb 28 j 05:30	12° \mathring{O} 10'28	2°01'06
	-3489 Oct 21 j 04:55	0° \mathring{O}		min. Earth dist.	-3482 Mar 01 j 02:51	12° \mathring{O} 09'00	29.28250 AU
retrograde	-3489 Nov 29 j 13:45	0° \mathring{O} 26'06		direct	-3482 May 20 j 16:34	10° \mathring{O} 45'36	
	-3488 Jan 09 j 01:13	30° \mathring{R} \mathring{O}		evening set	-3482 Aug 19 j 04:29	12° \mathring{O} 41'53	
opposition	-3488 Feb 15 j 06:49	29° \mathring{O} 04'26	1°42'13				
min. Earth dist.	-3488 Feb 16 j 05:05	29° \mathring{O} 02'55	29.26999 AU	conjunction	-3482 Sep 03 j 14:35	13° \mathring{O} 16'21	1°54'36
direct	-3488 May 06 j 15:40	27° \mathring{O} 39'29		minimum elong	-3482 Sep 03 j 14:35	13° \mathring{O} 16'20	1°54'42
evening set	-3488 Aug 05 j 12:22	29° \mathring{O} 36'05		max. Earth dist.	-3482 Sep 02 j 16:13	13° \mathring{O} 14'14	31.28164 AU
	-3488 Aug 16 j 06:49	0° \mathring{O}		morning rise	-3482 Sep 18 j 21:42	13° \mathring{O} 50'32	
max. Earth dist.	-3488 Aug 20 j 03:01	0° \mathring{O} 08'38	31.27137 AU		-3482 Oct 24 j 13:11	15° \mathring{O}	
				retrograde	-3482 Dec 14 j 11:29	15° \mathring{O} 42'50	
conjunction	-3488 Aug 21 j 02:27	0° \mathring{O} 10'50	1°37'24		-3481 Feb 05 j 19:24	15° \mathring{R} \mathring{O}	
minimum elong	-3488 Aug 21 j 02:26	0° \mathring{O} 10'49	1°37'31	opposition	-3481 Mar 02 j 17:23	14° \mathring{O} 20'58	2°03'39
morning rise	-3488 Sep 05 j 12:46	0° \mathring{O} 45'15		min. Earth dist.	-3481 Mar 03 j 13:51	14° \mathring{O} 19'34	29.28390 AU
retrograde	-3488 Nov 30 j 23:35	2° \mathring{O} 37'18		direct	-3481 May 23 j 03:01	12° \mathring{O} 56'08	
opposition	-3487 Feb 16 j 18:37	1° \mathring{O} 15'39	1°45'46	evening set	-3481 Aug 21 j 14:36	14° \mathring{O} 52'21	
min. Earth dist.	-3487 Feb 17 j 17:46	1° \mathring{O} 14'04	29.27479 AU		-3481 Aug 25 j 01:47	15° \mathring{O}	
	-3487 Apr 14 j 18:49	30° \mathring{R} \mathring{O}		max. Earth dist.	-3481 Sep 05 j 03:48	15° \mathring{O} 24'51	31.28342 AU
direct	-3487 May 09 j 04:45	29° \mathring{O} 50'45					
	-3487 Jun 02 j 04:05	0° \mathring{O}		conjunction	-3481 Sep 06 j 00:15	15° \mathring{O} 26'46	1°56'55
evening set	-3487 Aug 07 j 23:20	1° \mathring{O} 47'20		minimum elong	-3481 Sep 06 j 00:15	15° \mathring{O} 26'46	1°57'00
				morning rise	-3481 Sep 21 j 06:41	16° \mathring{O} 00'55	
conjunction	-3487 Aug 23 j 12:39	2° \mathring{O} 22'01	1°40'38	retrograde	-3481 Dec 16 j 20:47	17° \mathring{O} 53'17	
minimum elong	-3487 Aug 23 j 12:39	2° \mathring{O} 22'01	1°40'45	opposition	-3480 Mar 04 j 05:27	16° \mathring{O} 31'24	2°06'02
max. Earth dist.	-3487 Aug 22 j 12:35	2° \mathring{O} 19'46	31.27548 AU	min. Earth dist.	-3480 Mar 05 j 01:38	16° \mathring{O} 30'01	29.28619 AU
morning rise	-3487 Sep 07 j 22:32	2° \mathring{O} 56'24		direct	-3480 May 24 j 14:57	15° \mathring{O} 06'36	
retrograde	-3487 Dec 03 j 10:58	4° \mathring{O} 48'30		evening set	-3480 Aug 23 j 00:52	17° \mathring{O} 02'47	
opposition	-3486 Feb 19 j 06:17	3° \mathring{O} 26'51	1°49'09				
min. Earth dist.	-3486 Feb 20 j 04:22	3° \mathring{O} 25'20	29.27818 AU	conjunction	-3480 Sep 07 j 09:47	17° \mathring{O} 37'09	1°59'03
direct	-3486 May 11 j 17:40	2° \mathring{O} 01'58		minimum elong	-3480 Sep 07 j 09:47	17° \mathring{O} 37'09	1°59'09
evening set	-3486 Aug 10 j 10:15	3° \mathring{O} 58'31		max. Earth dist.	-3480 Sep 06 j 13:11	17° \mathring{O} 35'13	31.28629 AU
				morning rise	-3480 Sep 22 j 15:54	18° \mathring{O} 11'17	
conjunction	-3486 Aug 25 j 22:58	4° \mathring{O} 33'10	1°43'44	retrograde	-3480 Dec 18 j 08:52	20° \mathring{O} 03'43	
minimum elong	-3486 Aug 25 j 22:58	4° \mathring{O} 33'10	1°43'51	opposition	-3479 Mar 06 j 17:18	18° \mathring{O} 41'49	2°08'15
max. Earth dist.	-3486 Aug 24 j 23:16	4° \mathring{O} 30'57	31.27807 AU	min. Earth dist.	-3479 Mar 07 j 11:55	18° \mathring{O} 40'34	29.28957 AU
morning rise	-3486 Sep 10 j 08:09	5° \mathring{O} 07'31		direct	-3479 May 27 j 02:34	17° \mathring{O} 17'06	
retrograde	-3486 Dec 05 j 19:09	6° \mathring{O} 59'39		evening set	-3479 Aug 25 j 10:50	19° \mathring{O} 13'14	
opposition	-3485 Feb 21 j 18:06	5° \mathring{O} 37'59	1°52'23				
min. Earth dist.	-3485 Feb 22 j 17:07	5° \mathring{O} 36'24	29.28024 AU	conjunction	-3479 Sep 09 j 19:22	19° \mathring{O} 47'34	2°01'02
direct	-3485 May 14 j 05:01	4° \mathring{O} 13'07		minimum elong	-3479 Sep 09 j 19:22	19° \mathring{O} 47'34	2°01'07
evening set	-3485 Aug 12 j 21:05	6° \mathring{O} 09'37		max. Earth dist.	-3479 Sep 09 j 00:24	19° \mathring{O} 45'47	31.28993 AU
max. Earth dist.	-3485 Aug 27 j 09:46	6° \mathring{O} 42'01	31.27960 AU	morning rise	-3479 Sep 25 j 00:54	20° \mathring{O} 21'40	
				retrograde	-3479 Dec 20 j 19:22	22° \mathring{O} 14'13	
conjunction	-3485 Aug 28 j 09:08	6° \mathring{O} 44'13	1°46'41	opposition	-3478 Mar 09 j 05:25	20° \mathring{O} 52'19	2°10'16
minimum elong	-3485 Aug 28 j 09:07	6° \mathring{O} 44'13	1°46'47	min. Earth dist.	-3478 Mar 10 j 00:20	20° \mathring{O} 51'02	29.29343 AU
morning rise	-3485 Sep 12 j 17:46	7° \mathring{O} 18'31		direct	-3478 May 29 j 15:23	19° \mathring{O} 27'40	
retrograde	-3485 Dec 08 j 04:16	9° \mathring{O} 10'41		evening set	-3478 Aug 27 j 20:57	21° \mathring{O} 23'47	
opposition	-3484 Feb 24 j 05:55	7° \mathring{O} 48'59	1°55'28	max. Earth dist.	-3478 Sep 11 j 09:56	21° \mathring{O} 56'18	31.29389 AU
min. Earth dist.	-3484 Feb 25 j 03:53	7° \mathring{O} 47'29	29.28127 AU				
direct	-3484 May 15 j 17:33	6° \mathring{O} 24'07		conjunction	-3478 Sep 12 j 04:50	21° \mathring{O} 58'05	2°02'50
evening set	-3484 Aug 14 j 07:36	8° \mathring{O} 20'33		minimum elong	-3478 Sep 12 j 04:49	21° \mathring{O} 58'05	2°02'55
				morning rise	-3478 Sep 27 j 10:01	22° \mathring{O} 32'08	

Attention, astronomical year style is used: The year -3478 in astronomical counting style is the year 3479 BCE in historical counting style.

retrograde	-3478 Dec 23 j 06:54	24°024'47		evening set	-3471 Sep 11 j 18:09	6°039'05	
opposition	-3477 Mar 11 j 17:27	23°002'54	2°12'05				
min. Earth dist.	-3477 Mar 12 j 10:45	23°001'44	29.29730 AU	conjunction	-3471 Sep 26 j 22:54	7°013'11	2°10'24
direct	-3477 Jun 01 j 03:53	21°038'20		minimum elong	-3471 Sep 26 j 22:54	7°013'11	2°10'27
evening set	-3477 Aug 30 j 07:00	23°034'25		max. Earth dist.	-3471 Sep 26 j 07:31	7°011'44	31.29611 AU
				morning rise	-3471 Oct 12 j 01:47	7°047'07	
conjunction	-3477 Sep 14 j 14:23	24°008'41	2°04'27	retrograde	-3470 Jan 07 j 08:38	9°040'28	
minimum elong	-3477 Sep 14 j 14:23	24°008'41	2°04'32	opposition	-3470 Mar 27 j 08:25	8°018'20	2°19'31
max. Earth dist.	-3477 Sep 13 j 20:16	24°006'59	31.29750 AU	min. Earth dist.	-3470 Mar 27 j 22:14	8°017'24	29.29615 AU
morning rise	-3477 Sep 29 j 19:05	24°042'44		direct	-3470 Jun 16 j 12:02	6°054'06	
retrograde	-3477 Dec 25 j 16:20	26°035'29		evening set	-3470 Sep 14 j 03:34	8°049'40	
opposition	-3476 Mar 13 j 05:51	25°013'36	2°13'44				
min. Earth dist.	-3476 Mar 13 j 23:39	25°012'24	29.30071 AU	conjunction	-3470 Sep 29 j 08:03	9°023'45	2°10'45
direct	-3476 Jun 02 j 15:00	23°049'08		minimum elong	-3470 Sep 29 j 08:04	9°023'45	2°10'48
evening set	-3476 Aug 31 j 16:55	25°045'09		max. Earth dist.	-3470 Sep 28 j 18:21	9°022'27	31.29290 AU
				morning rise	-3470 Oct 14 j 10:33	9°057'40	
conjunction	-3476 Sep 15 j 23:50	26°019'23	2°05'54	retrograde	-3469 Jan 09 j 19:29	11°051'06	
minimum elong	-3476 Sep 15 j 23:50	26°019'23	2°05'59	opposition	-3469 Mar 29 j 21:03	10°028'54	2°19'47
max. Earth dist.	-3476 Sep 15 j 06:29	26°017'45	31.30048 AU	min. Earth dist.	-3469 Mar 30 j 10:52	10°027'58	29.29315 AU
morning rise	-3476 Oct 01 j 04:09	26°053'24		direct	-3469 Jun 19 j 00:51	9°004'43	
retrograde	-3476 Dec 27 j 02:09	28°046'16		evening set	-3469 Sep 16 j 13:03	11°000'12	
opposition	-3475 Mar 15 j 18:08	27°024'23	2°15'11				
min. Earth dist.	-3475 Mar 16 j 10:45	27°023'16	29.30307 AU	conjunction	-3469 Oct 01 j 17:07	11°034'15	2°10'55
direct	-3475 Jun 05 j 03:40	25°059'59		minimum elong	-3469 Oct 01 j 17:07	11°034'15	2°10'57
evening set	-3475 Sep 03 j 02:59	27°055'57		max. Earth dist.	-3469 Oct 01 j 04:01	11°033'01	31.29031 AU
				morning rise	-3469 Oct 16 j 19:30	12°008'10	
conjunction	-3475 Sep 18 j 09:21	28°030'10	2°07'10	retrograde	-3468 Jan 12 j 07:14	14°001'42	
minimum elong	-3475 Sep 18 j 09:21	28°030'10	2°07'13	opposition	-3468 Mar 31 j 09:36	12°039'27	2°19'52
max. Earth dist.	-3475 Sep 17 j 15:50	28°028'31	31.30215 AU	min. Earth dist.	-3468 Mar 31 j 21:13	12°038'40	29.29094 AU
morning rise	-3475 Oct 03 j 13:21	29°004'10		direct	-3468 Jun 20 j 13:08	11°015'18	
	-3475 Oct 31 j 01:38	0°00		evening set	-3468 Sep 17 j 22:18	13°010'43	
retrograde	-3475 Dec 29 j 13:07	0°057'08					
	-3474 Mar 02 j 18:24	30°000		conjunction	-3468 Oct 03 j 02:08	13°044'45	2°10'53
opposition	-3474 Mar 18 j 06:25	29°035'14	2°16'26	minimum elong	-3468 Oct 03 j 02:08	13°044'45	2°10'56
min. Earth dist.	-3474 Mar 18 j 23:11	29°034'06	29.30418 AU	max. Earth dist.	-3468 Oct 02 j 14:06	13°043'37	31.28848 AU
direct	-3474 Jun 07 j 13:32	28°010'53		morning rise	-3468 Oct 18 j 04:20	14°018'40	
	-3474 Sep 02 j 10:23	0°00		retrograde	-3467 Jan 13 j 16:52	16°012'20	
evening set	-3474 Sep 05 j 12:56	0°006'48		opposition	-3467 Apr 02 j 22:16	14°050'02	2°19'44
				min. Earth dist.	-3467 Apr 03 j 09:50	14°049'15	29.28958 AU
conjunction	-3474 Sep 20 j 18:59	0°040'58	2°08'15	direct	-3467 Jun 23 j 00:29	13°025'58	
minimum elong	-3474 Sep 20 j 18:59	0°040'58	2°08'19	evening set	-3467 Sep 20 j 07:37	15°021'18	
max. Earth dist.	-3474 Sep 20 j 02:41	0°039'26	31.30250 AU				
morning rise	-3474 Oct 05 j 22:31	1°014'58		conjunction	-3467 Oct 05 j 11:13	15°055'20	2°10'41
retrograde	-3474 Dec 31 j 22:38	3°008'01		minimum elong	-3467 Oct 05 j 11:13	15°055'20	2°10'42
opposition	-3473 Mar 20 j 18:56	1°046'06	2°17'30	max. Earth dist.	-3467 Oct 05 j 00:35	15°054'19	31.28755 AU
min. Earth dist.	-3473 Mar 21 j 11:04	1°045'00	29.30372 AU	morning rise	-3467 Oct 20 j 13:14	16°029'14	
direct	-3473 Jun 10 j 02:30	0°021'48		retrograde	-3466 Jan 16 j 02:56	18°023'01	
evening set	-3473 Sep 07 j 22:49	2°017'38		opposition	-3466 Apr 05 j 10:44	17°000'42	2°19'24
max. Earth dist.	-3473 Sep 22 j 11:25	2°050'11	31.30138 AU	min. Earth dist.	-3466 Apr 05 j 20:34	17°000'03	29.28879 AU
				direct	-3466 Jun 25 j 13:25	15°036'44	
conjunction	-3473 Sep 23 j 04:16	2°051'47	2°09'09	evening set	-3466 Sep 22 j 17:00	17°032'00	
minimum elong	-3473 Sep 23 j 04:16	2°051'47	2°09'12				
morning rise	-3473 Oct 08 j 07:39	3°025'45		conjunction	-3466 Oct 07 j 20:15	18°006'01	2°10'16
retrograde	-3472 Jan 03 j 10:44	5°018'55		minimum elong	-3466 Oct 07 j 20:15	18°006'01	2°10'19
opposition	-3472 Mar 22 j 07:29	3°056'55	2°18'22	max. Earth dist.	-3466 Oct 07 j 09:55	18°005'03	31.28698 AU
min. Earth dist.	-3472 Mar 22 j 22:53	3°055'53	29.30203 AU	morning rise	-3466 Oct 22 j 22:15	18°039'56	
direct	-3472 Jun 11 j 12:35	2°032'39		retrograde	-3465 Jan 18 j 14:29	20°033'51	
evening set	-3472 Sep 09 j 08:29	4°028'24		opposition	-3465 Apr 07 j 23:32	19°011'32	2°18'52
				min. Earth dist.	-3465 Apr 08 j 08:59	19°010'53	29.28835 AU
conjunction	-3472 Sep 24 j 13:44	5°002'32	2°09'52	direct	-3465 Jun 27 j 23:30	17°047'38	
minimum elong	-3472 Sep 24 j 13:44	5°002'32	2°09'56	evening set	-3465 Sep 25 j 02:07	19°042'50	
max. Earth dist.	-3472 Sep 23 j 22:33	5°001'06	31.29909 AU				
morning rise	-3472 Oct 09 j 16:41	5°036'29		conjunction	-3465 Oct 10 j 05:18	20°016'51	2°09'41
retrograde	-3471 Jan 04 j 20:21	7°029'44		minimum elong	-3465 Oct 10 j 05:18	20°016'51	2°09'42
opposition	-3471 Mar 24 j 19:58	6°007'40	2°19'02	max. Earth dist.	-3465 Oct 09 j 20:48	20°016'03	31.28648 AU
min. Earth dist.	-3471 Mar 25 j 11:23	6°006'38	29.29927 AU	morning rise	-3465 Oct 25 j 07:05	20°050'46	
direct	-3471 Jun 14 j 00:11	4°043'26		retrograde	-3464 Jan 20 j 23:51	22°044'50	

Attention, astronomical year style is used: The year -3464 in astronomical counting style is the year 3465 BCE in historical counting style.

opposition	-3464 Apr 09 j 12:24	21° $\overline{10}$ 22'29	2°18'08	conjunction	-3458 Oct 24 j 21:18	5° $\underline{0}$ 34'09	2°00'24
min. Earth dist.	-3464 Apr 09 j 20:48	21° $\overline{10}$ 21'55	29.28755 AU	minimum elong	-3458 Oct 24 j 21:18	5° $\underline{0}$ 34'09	2°00'24
direct	-3464 Jun 29 j 11:56	19° $\overline{10}$ 58'41		max. Earth dist.	-3458 Oct 24 j 17:39	5° $\underline{0}$ 33'48	31.25325 AU
evening set	-3464 Sep 26 j 11:32	21° $\overline{10}$ 53'48		morning rise	-3458 Nov 08 j 23:21	6° $\underline{0}$ 08'09	
				retrograde	-3457 Feb 05 j 08:08	8° $\underline{0}$ 02'58	
conjunction	-3464 Oct 11 j 14:22	22° $\overline{10}$ 27'49	2°08'54	opposition	-3457 Apr 26 j 07:02	6° $\underline{0}$ 40'06	2°07'34
minimum elong	-3464 Oct 11 j 14:22	22° $\overline{10}$ 27'49	2°08'56	min. Earth dist.	-3457 Apr 26 j 09:57	6° $\underline{0}$ 39'54	29.25053 AU
max. Earth dist.	-3464 Oct 11 j 05:34	22° $\overline{10}$ 26'59	31.28542 AU	direct	-3457 Jul 15 j 21:23	5° $\underline{0}$ 16'31	
morning rise	-3464 Oct 26 j 16:16	23° $\overline{10}$ 01'45		evening set	-3457 Oct 12 j 03:49	7° $\underline{0}$ 10'53	
retrograde	-3463 Jan 22 j 11:56	24° $\overline{10}$ 55'57					
opposition	-3463 Apr 12 j 01:08	23° $\overline{10}$ 33'34	2°17'12	conjunction	-3457 Oct 27 j 06:09	7° $\underline{0}$ 44'53	1°58'22
min. Earth dist.	-3463 Apr 12 j 08:42	23° $\overline{10}$ 33'04	29.28612 AU	minimum elong	-3457 Oct 27 j 06:09	7° $\underline{0}$ 44'54	1°58'21
direct	-3463 Jul 01 j 21:11	22° $\overline{10}$ 09'51		max. Earth dist.	-3457 Oct 27 j 02:52	7° $\underline{0}$ 44'35	31.24544 AU
evening set	-3463 Sep 28 j 20:48	24° $\overline{10}$ 04'53		morning rise	-3457 Nov 11 j 08:29	8° $\underline{0}$ 18'55	
				retrograde	-3456 Feb 07 j 19:39	10° $\underline{0}$ 13'50	
conjunction	-3463 Oct 13 j 23:38	24° $\overline{10}$ 38'54	2°07'56	opposition	-3456 Apr 27 j 20:06	8° $\underline{0}$ 50'52	2°05'19
minimum elong	-3463 Oct 13 j 23:38	24° $\overline{10}$ 38'54	2°07'56	min. Earth dist.	-3456 Apr 27 j 22:23	8° $\underline{0}$ 50'42	29.24310 AU
max. Earth dist.	-3463 Oct 13 j 16:30	24° $\overline{10}$ 38'14	31.28337 AU	direct	-3456 Jul 17 j 08:03	7° $\underline{0}$ 27'18	
morning rise	-3463 Oct 29 j 01:20	25° $\overline{10}$ 12'50		evening set	-3456 Oct 13 j 12:44	9° $\underline{0}$ 21'34	
retrograde	-3462 Jan 24 j 22:08	27° $\overline{10}$ 07'10					
opposition	-3462 Apr 14 j 14:08	25° $\overline{10}$ 44'45	2°16'05	conjunction	-3456 Oct 28 j 15:15	9° $\underline{0}$ 55'35	1°56'10
min. Earth dist.	-3462 Apr 14 j 21:38	25° $\overline{10}$ 44'15	29.28335 AU	minimum elong	-3456 Oct 28 j 15:16	9° $\underline{0}$ 55'35	1°56'10
direct	-3462 Jul 04 j 08:29	24° $\overline{10}$ 21'06		max. Earth dist.	-3456 Oct 28 j 14:05	9° $\underline{0}$ 55'28	31.23840 AU
evening set	-3462 Oct 01 j 06:10	26° $\overline{10}$ 16'03		morning rise	-3456 Nov 12 j 17:36	10° $\underline{0}$ 29'37	
				retrograde	-3455 Feb 09 j 04:52	12° $\underline{0}$ 24'40	
conjunction	-3462 Oct 16 j 08:43	26° $\overline{10}$ 50'03	2°06'47	opposition	-3455 Apr 30 j 08:54	11° $\underline{0}$ 01'37	2°02'52
minimum elong	-3462 Oct 16 j 08:43	26° $\overline{10}$ 50'03	2°06'48	min. Earth dist.	-3455 Apr 30 j 09:46	11° $\underline{0}$ 01'33	29.23641 AU
max. Earth dist.	-3462 Oct 16 j 01:22	26° $\overline{10}$ 49'21	31.27998 AU	direct	-3455 Jul 19 j 20:27	9° $\underline{0}$ 38'06	
morning rise	-3462 Oct 31 j 10:32	27° $\overline{10}$ 24'00		evening set	-3455 Oct 15 j 21:46	11° $\underline{0}$ 32'16	
retrograde	-3461 Jan 27 j 11:02	29° $\overline{10}$ 18'27					
opposition	-3461 Apr 17 j 03:07	27° $\overline{10}$ 55'58	2°14'45	conjunction	-3455 Oct 31 j 00:11	12° $\underline{0}$ 06'18	1°53'48
min. Earth dist.	-3461 Apr 17 j 09:09	27° $\overline{10}$ 55'34	29.27919 AU	minimum elong	-3455 Oct 31 j 00:12	12° $\underline{0}$ 06'18	1°53'47
direct	-3461 Jul 06 j 19:52	26° $\overline{10}$ 32'21		max. Earth dist.	-3455 Oct 30 j 23:04	12° $\underline{0}$ 06'12	31.23228 AU
evening set	-3461 Oct 03 j 15:28	28° $\overline{10}$ 27'12		morning rise	-3455 Nov 15 j 02:55	12° $\underline{0}$ 40'22	
				retrograde	-3454 Feb 11 j 16:56	14° $\underline{0}$ 35'33	
conjunction	-3461 Oct 18 j 18:01	29° $\overline{10}$ 01'12	2°05'27	opposition	-3454 May 02 j 21:52	13° $\underline{0}$ 12'27	2°00'15
minimum elong	-3461 Oct 18 j 18:01	29° $\overline{10}$ 01'12	2°05'27	min. Earth dist.	-3454 May 02 j 21:21	13° $\underline{0}$ 12'29	29.23070 AU
max. Earth dist.	-3461 Oct 18 j 11:52	29° $\overline{10}$ 00'38	31.27502 AU	direct	-3454 Jul 22 j 05:56	11° $\underline{0}$ 49'00	
morning rise	-3461 Nov 02 j 19:46	29° $\overline{10}$ 35'10		evening set	-3454 Oct 18 j 06:32	13° $\underline{0}$ 43'05	
	-3461 Nov 14 j 08:18	0° $\underline{0}$					
retrograde	-3460 Jan 29 j 22:39	1° $\underline{0}$ 29'44		conjunction	-3454 Nov 02 j 09:12	14° $\underline{0}$ 17'08	1°51'16
opposition	-3460 Apr 18 j 16:14	0° $\underline{0}$ 07'10	2°13'14	minimum elong	-3454 Nov 02 j 09:12	14° $\underline{0}$ 17'08	1°51'15
min. Earth dist.	-3460 Apr 18 j 22:34	0° $\underline{0}$ 06'44	29.27348 AU	max. Earth dist.	-3454 Nov 02 j 10:14	14° $\underline{0}$ 17'14	31.22692 AU
	-3460 Apr 23 j 02:41	30° $\overline{0}$		morning rise	-3454 Nov 17 j 11:58	14° $\underline{0}$ 51'14	
direct	-3460 Jul 08 j 07:41	28° $\overline{10}$ 43'34		retrograde	-3453 Feb 14 j 03:19	16° $\underline{0}$ 46'33	
	-3460 Sep 16 j 20:32	0° $\underline{0}$		opposition	-3453 May 05 j 10:59	15° $\underline{0}$ 23'25	1°57'27
evening set	-3460 Oct 05 j 00:39	0° $\underline{0}$ 38'19		min. Earth dist.	-3453 May 05 j 09:53	15° $\underline{0}$ 23'29	29.22554 AU
				direct	-3453 Jul 24 j 17:00	14° $\underline{0}$ 00'03	
conjunction	-3460 Oct 20 j 03:07	1° $\underline{0}$ 12'18	2°03'56	evening set	-3453 Oct 20 j 15:33	15° $\underline{0}$ 54'04	
minimum elong	-3460 Oct 20 j 03:07	1° $\underline{0}$ 12'18	2°03'57				
max. Earth dist.	-3460 Oct 19 j 21:20	1° $\underline{0}$ 11'46	31.26873 AU	conjunction	-3453 Nov 04 j 18:12	16° $\underline{0}$ 28'07	1°48'34
morning rise	-3460 Nov 04 j 05:01	1° $\underline{0}$ 46'16		minimum elong	-3453 Nov 04 j 18:13	16° $\underline{0}$ 28'08	1°48'32
retrograde	-3459 Jan 31 j 10:39	3° $\underline{0}$ 40'56		max. Earth dist.	-3453 Nov 04 j 19:35	16° $\underline{0}$ 28'15	31.22213 AU
opposition	-3459 Apr 21 j 05:08	2° $\underline{0}$ 18'16	2°11'32	morning rise	-3453 Nov 19 j 21:22	17° $\underline{0}$ 02'15	
min. Earth dist.	-3459 Apr 21 j 09:41	2° $\underline{0}$ 17'58	29.26644 AU	retrograde	-3452 Feb 16 j 16:33	18° $\underline{0}$ 57'44	
direct	-3459 Jul 10 j 19:47	0° $\underline{0}$ 54'40		opposition	-3452 May 06 j 23:57	17° $\underline{0}$ 34'34	1°54'29
evening set	-3459 Oct 07 j 09:50	2° $\underline{0}$ 49'18		min. Earth dist.	-3452 May 06 j 21:05	17° $\underline{0}$ 34'46	29.22080 AU
				direct	-3452 Jul 26 j 03:17	16° $\underline{0}$ 11'17	
conjunction	-3459 Oct 22 j 12:14	3° $\underline{0}$ 23'18	2°02'15	evening set	-3452 Oct 22 j 00:28	18° $\underline{0}$ 05'14	
minimum elong	-3459 Oct 22 j 12:14	3° $\underline{0}$ 23'18	2°02'14				
max. Earth dist.	-3459 Oct 22 j 07:03	3° $\underline{0}$ 22'48	31.26118 AU	conjunction	-3452 Nov 06 j 03:21	18° $\underline{0}$ 39'19	1°45'43
morning rise	-3459 Nov 06 j 14:14	3° $\underline{0}$ 57'17		minimum elong	-3452 Nov 06 j 03:21	18° $\underline{0}$ 39'19	1°45'41
retrograde	-3458 Feb 02 j 21:20	5° $\underline{0}$ 52'01		max. Earth dist.	-3452 Nov 06 j 06:09	18° $\underline{0}$ 39'35	31.21730 AU
opposition	-3458 Apr 23 j 18:05	4° $\underline{0}$ 29'15	2°09'38	morning rise	-3452 Nov 21 j 06:43	19° $\underline{0}$ 13'29	
min. Earth dist.	-3458 Apr 23 j 22:51	4° $\underline{0}$ 28'55	29.25857 AU	retrograde	-3451 Feb 18 j 04:47	21° $\underline{0}$ 09'07	
direct	-3458 Jul 13 j 07:47	3° $\underline{0}$ 05'40		opposition	-3451 May 09 j 13:07	19° $\underline{0}$ 45'55	1°51'21
evening set	-3458 Oct 09 j 18:51	5° $\underline{0}$ 00'09		min. Earth dist.	-3451 May 09 j 10:22	19° $\underline{0}$ 46'06	29.21576 AU

Attention, astronomical year style is used: The year -3451 in astronomical counting style is the year 3452 BCE in historical counting style.

direct	-3451 Jul 28 j 13:51	18° <u>0</u> 22'43		minimum elong	-3445 Nov 21 j 20:52	4° <u>0</u> 00'33	1°21'35
evening set	-3451 Oct 24 j 09:33	20° <u>0</u> 16'36		max. Earth dist.	-3445 Nov 22 j 05:23	4° <u>0</u> 01'22	31.15965 AU
				morning rise	-3445 Dec 07 j 02:39	4° <u>0</u> 34'58	
conjunction	-3451 Nov 08 j 12:32	20° <u>0</u> 50'42	1°42'42	retrograde	-3444 Mar 05 j 14:40	6° <u>0</u> 31'23	
minimum elong	-3451 Nov 08 j 12:33	20° <u>0</u> 50'42	1°42'38	opposition	-3444 May 25 j 09:01	5° <u>0</u> 07'36	1°25'08
max. Earth dist.	-3451 Nov 08 j 16:00	20° <u>0</u> 51'02	31.21209 AU	min. Earth dist.	-3444 May 25 j 00:28	5° <u>0</u> 08'11	29.15533 AU
morning rise	-3451 Nov 23 j 16:12	21° <u>0</u> 24'54		direct	-3444 Aug 13 j 00:30	3° <u>0</u> 44'33	
retrograde	-3450 Feb 20 j 17:34	23° <u>0</u> 20'41		evening set	-3444 Nov 08 j 01:36	5° <u>0</u> 37'44	
opposition	-3450 May 12 j 02:07	21° <u>0</u> 57'27	1°48'02				
min. Earth dist.	-3450 May 11 j 21:30	21° <u>0</u> 57'45	29.21006 AU	conjunction	-3444 Nov 23 j 06:13	6° <u>0</u> 12'01	1°17'43
direct	-3450 Jul 31 j 00:53	20° <u>0</u> 34'18		minimum elong	-3444 Nov 23 j 06:13	6° <u>0</u> 12'01	1°17'39
evening set	-3450 Oct 26 j 18:46	22° <u>0</u> 28'08		max. Earth dist.	-3444 Nov 23 j 15:11	6° <u>0</u> 12'52	31.15004 AU
				morning rise	-3444 Dec 08 j 12:32	6° <u>0</u> 46'28	
conjunction	-3450 Nov 10 j 21:51	23° <u>0</u> 02'16	1°39'32	retrograde	-3443 Mar 08 j 02:48	8° <u>0</u> 42'59	
minimum elong	-3450 Nov 10 j 21:51	23° <u>0</u> 02'16	1°39'29	opposition	-3443 May 27 j 21:56	7° <u>0</u> 19'06	1°20'51
max. Earth dist.	-3450 Nov 11 j 01:45	23° <u>0</u> 02'38	31.20592 AU	min. Earth dist.	-3443 May 27 j 11:31	7° <u>0</u> 19'49	29.14615 AU
morning rise	-3450 Nov 26 j 01:51	23° <u>0</u> 36'30		direct	-3443 Aug 15 j 10:46	5° <u>0</u> 56'04	
retrograde	-3449 Feb 23 j 05:53	25° <u>0</u> 32'25		evening set	-3443 Nov 10 j 10:41	7° <u>0</u> 49'09	
opposition	-3449 May 14 j 15:27	24° <u>0</u> 09'07	1°44'35				
min. Earth dist.	-3449 May 14 j 11:07	24° <u>0</u> 09'25	29.20337 AU	conjunction	-3443 Nov 25 j 15:37	8° <u>0</u> 23'28	1°13'39
direct	-3449 Aug 02 j 12:34	22° <u>0</u> 46'03		minimum elong	-3443 Nov 25 j 15:37	8° <u>0</u> 23'28	1°13'34
evening set	-3449 Oct 29 j 03:50	24° <u>0</u> 39'47		max. Earth dist.	-3443 Nov 26 j 02:01	8° <u>0</u> 24'27	31.14130 AU
				morning rise	-3443 Dec 10 j 22:17	8° <u>0</u> 57'57	
conjunction	-3449 Nov 13 j 07:14	25° <u>0</u> 13'56	1°36'13	retrograde	-3442 Mar 10 j 14:09	10° <u>0</u> 54'35	
minimum elong	-3449 Nov 13 j 07:15	25° <u>0</u> 13'57	1°36'10	opposition	-3442 May 30 j 10:58	9° <u>0</u> 30'37	1°16'27
max. Earth dist.	-3449 Nov 13 j 12:30	25° <u>0</u> 14'26	31.19869 AU	min. Earth dist.	-3442 May 30 j 00:21	9° <u>0</u> 31'21	29.13796 AU
morning rise	-3449 Nov 28 j 11:29	25° <u>0</u> 48'13		direct	-3442 Aug 17 j 20:40	8° <u>0</u> 07'37	
retrograde	-3448 Feb 25 j 18:33	27° <u>0</u> 44'15		evening set	-3442 Nov 12 j 19:51	10° <u>0</u> 00'38	
opposition	-3448 May 16 j 04:38	26° <u>0</u> 20'53	1°40'58				
min. Earth dist.	-3448 May 15 j 22:48	26° <u>0</u> 21'17	29.19535 AU	conjunction	-3442 Nov 28 j 01:08	10° <u>0</u> 34'58	1°09'29
direct	-3448 Aug 04 j 02:07	24° <u>0</u> 57'51		minimum elong	-3442 Nov 28 j 01:08	10° <u>0</u> 34'58	1°09'25
evening set	-3448 Oct 30 j 13:10	26° <u>0</u> 51'30		max. Earth dist.	-3442 Nov 28 j 12:39	10° <u>0</u> 36'03	31.13382 AU
				morning rise	-3442 Dec 13 j 08:15	11° <u>0</u> 09'30	
conjunction	-3448 Nov 14 j 16:40	27° <u>0</u> 25'41	1°32'46	retrograde	-3441 Mar 13 j 03:08	13° <u>0</u> 06'14	
minimum elong	-3448 Nov 14 j 16:41	27° <u>0</u> 25'41	1°32'44	opposition	-3441 Jun 01 j 23:56	11° <u>0</u> 42'14	1°11'56
max. Earth dist.	-3448 Nov 14 j 21:39	27° <u>0</u> 26'09	31.19007 AU	min. Earth dist.	-3441 Jun 01 j 11:07	11° <u>0</u> 43'06	29.13088 AU
morning rise	-3448 Nov 29 j 21:25	27° <u>0</u> 59'59		direct	-3441 Aug 20 j 07:18	10° <u>0</u> 19'15	
retrograde	-3447 Feb 27 j 06:40	29° <u>0</u> 56'08		evening set	-3441 Nov 15 j 05:03	12° <u>0</u> 12'13	
opposition	-3447 May 18 j 17:43	28° <u>0</u> 32'41	1°37'13				
min. Earth dist.	-3447 May 18 j 11:51	28° <u>0</u> 33'04	29.18613 AU	conjunction	-3441 Nov 30 j 10:36	12° <u>0</u> 46'34	1°05'12
direct	-3447 Aug 06 j 12:49	27° <u>0</u> 09'38		minimum elong	-3441 Nov 30 j 10:37	12° <u>0</u> 46'34	1°05'07
evening set	-3447 Nov 01 j 22:18	29° <u>0</u> 03'11		max. Earth dist.	-3441 Nov 30 j 22:46	12° <u>0</u> 47'43	31.12716 AU
				morning rise	-3441 Dec 15 j 18:17	13° <u>0</u> 21'09	
conjunction	-3447 Nov 17 j 02:12	29° <u>0</u> 37'23	1°29'12		-3440 Feb 10 j 08:21	15° <u>0</u>	
minimum elong	-3447 Nov 17 j 02:13	29° <u>0</u> 37'23	1°29'08	retrograde	-3440 Mar 14 j 16:13	15° <u>0</u> 18'01	
max. Earth dist.	-3447 Nov 17 j 08:53	29° <u>0</u> 38'01	31.18036 AU		-3440 Apr 17 j 21:11	15° <u>0</u> 18	
	-3447 Nov 27 j 01:20	0° <u>0</u>		opposition	-3440 Jun 03 j 13:03	13° <u>0</u> 53'58	1°07'18
morning rise	-3447 Dec 02 j 07:10	0° <u>0</u> 11'44		min. Earth dist.	-3440 Jun 03 j 00:18	13° <u>0</u> 54'50	29.12455 AU
retrograde	-3446 Mar 01 j 16:18	2° <u>0</u> 07'58		direct	-3440 Aug 21 j 18:10	12° <u>0</u> 31'03	
opposition	-3446 May 21 j 06:51	0° <u>0</u> 44'25	1°33'19	evening set	-3440 Nov 16 j 14:21	14° <u>0</u> 23'57	
min. Earth dist.	-3446 May 20 j 23:56	0° <u>0</u> 44'53	29.17587 AU				
	-3446 Jun 19 j 03:05	30° <u>0</u> 18		conjunction	-3440 Dec 01 j 20:24	14° <u>0</u> 58'21	1°00'49
direct	-3446 Aug 09 j 01:58	29° <u>0</u> 21'23		minimum elong	-3440 Dec 01 j 20:24	14° <u>0</u> 58'21	1°00'44
	-3446 Sep 26 j 13:17	0° <u>0</u>		max. Earth dist.	-3440 Dec 02 j 10:13	14° <u>0</u> 59'40	31.12112 AU
evening set	-3446 Nov 04 j 07:24	1° <u>0</u> 14'47			-3440 Dec 02 j 13:48	15° <u>0</u>	
				morning rise	-3440 Dec 17 j 04:25	15° <u>0</u> 32'59	
conjunction	-3446 Nov 19 j 11:24	1° <u>0</u> 49'01	1°25'29	retrograde	-3439 Mar 17 j 05:30	17° <u>0</u> 29'57	
minimum elong	-3446 Nov 19 j 11:24	1° <u>0</u> 49'01	1°25'26	min. Earth dist.	-3439 Jun 05 j 11:33	16° <u>0</u> 06'51	29.11847 AU
max. Earth dist.	-3446 Nov 19 j 17:56	1° <u>0</u> 49'38	31.16999 AU	opposition	-3439 Jun 06 j 01:53	16° <u>0</u> 05'53	1°02'34
morning rise	-3446 Dec 04 j 16:55	2° <u>0</u> 23'24			-3439 Jul 22 j 16:16	15° <u>0</u> 18	
retrograde	-3445 Mar 04 j 04:22	4° <u>0</u> 19'43		direct	-3439 Aug 24 j 06:32	14° <u>0</u> 43'01	
opposition	-3445 May 23 j 20:00	2° <u>0</u> 56'03	1°29'18		-3439 Sep 24 j 23:15	15° <u>0</u>	
min. Earth dist.	-3445 May 23 j 11:58	2° <u>0</u> 56'36	29.16544 AU	evening set	-3439 Nov 18 j 23:55	16° <u>0</u> 35'53	
direct	-3445 Aug 11 j 12:42	1° <u>0</u> 33'00					
evening set	-3445 Nov 06 j 16:27	3° <u>0</u> 26'18		conjunction	-3439 Dec 04 j 06:08	17° <u>0</u> 10'19	0°56'21
				minimum elong	-3439 Dec 04 j 06:09	17° <u>0</u> 10'19	0°56'15
conjunction	-3445 Nov 21 j 20:51	4° <u>0</u> 00'33	1°21'40	max. Earth dist.	-3439 Dec 04 j 19:49	17° <u>0</u> 11'37	31.11506 AU

Attention, astronomical year style is used: The year -3439 in astronomical counting style is the year 3440 BCE in historical counting style.

morning rise	-3439 Dec 19 j 14:47	17° \mathbb{M} 45'00		direct	-3432 Sep 08 j 11:58	0° \mathbb{A} 10'25	
retrograde	-3438 Mar 19 j 18:39	19° \mathbb{M} 42'07		evening set	-3432 Dec 03 j 20:27	2° \mathbb{A} 02'53	
opposition	-3438 Jun 08 j 15:02	18° \mathbb{M} 18'00	0°57'44				
min. Earth dist.	-3438 Jun 08 j 00:38	18° \mathbb{M} 18'58	29.11231 AU	conjunction	-3432 Dec 19 j 05:29	2° \mathbb{A} 37'34	0°23'02
direct	-3438 Aug 26 j 16:38	16° \mathbb{M} 55'12		minimum elong	-3432 Dec 19 j 05:29	2° \mathbb{A} 37'34	0°22'55
evening set	-3438 Nov 21 j 09:19	18° \mathbb{M} 48'01		max. Earth dist.	-3432 Dec 19 j 23:26	2° \mathbb{A} 39'15	31.05003 AU
				morning rise	-3431 Jan 03 j 17:40	3° \mathbb{A} 12'33	
conjunction	-3438 Dec 06 j 16:04	19° \mathbb{M} 22'29	0°51'47	retrograde	-3431 Apr 04 j 08:54	5° \mathbb{A} 10'21	
minimum elong	-3438 Dec 06 j 16:04	19° \mathbb{M} 22'29	0°51'42	opposition	-3431 Jun 24 j 10:09	3° \mathbb{A} 45'45	0°21'54
max. Earth dist.	-3438 Dec 07 j 07:28	19° \mathbb{M} 23'57	31.10862 AU	min. Earth dist.	-3431 Jun 23 j 16:03	3° \mathbb{A} 46'59	29.04512 AU
morning rise	-3438 Dec 22 j 01:02	19° \mathbb{M} 57'12		direct	-3431 Sep 10 j 22:46	2° \mathbb{A} 22'58	
retrograde	-3437 Mar 22 j 06:11	21° \mathbb{M} 54'27		evening set	-3431 Dec 06 j 06:22	4° \mathbb{A} 15'24	
opposition	-3437 Jun 11 j 04:11	20° \mathbb{M} 30'18	0°52'49				
min. Earth dist.	-3437 Jun 10 j 12:54	20° \mathbb{M} 31'21	29.10540 AU	conjunction	-3431 Dec 21 j 15:58	4° \mathbb{A} 50'07	0°18'05
direct	-3437 Aug 29 j 05:34	19° \mathbb{M} 07'33		minimum elong	-3431 Dec 21 j 15:58	4° \mathbb{A} 50'07	0°17'58
evening set	-3437 Nov 23 j 19:10	21° \mathbb{M} 00'19		max. Earth dist.	-3431 Dec 22 j 11:35	4° \mathbb{A} 51'58	31.03998 AU
				morning rise	-3430 Jan 06 j 04:30	5° \mathbb{A} 25'08	
conjunction	-3437 Dec 09 j 02:08	21° \mathbb{M} 34'50	0°47'08	retrograde	-3430 Apr 06 j 22:28	7° \mathbb{A} 23'02	
minimum elong	-3437 Dec 09 j 02:08	21° \mathbb{M} 34'50	0°47'02	opposition	-3430 Jun 26 j 22:55	5° \mathbb{A} 58'22	0°16'35
max. Earth dist.	-3437 Dec 09 j 17:00	21° \mathbb{M} 36'15	31.10130 AU	min. Earth dist.	-3430 Jun 26 j 03:07	5° \mathbb{A} 59'43	29.03553 AU
morning rise	-3437 Dec 24 j 11:45	22° \mathbb{M} 09'36		direct	-3430 Sep 13 j 10:48	4° \mathbb{A} 35'35	
retrograde	-3436 Mar 23 j 19:55	24° \mathbb{M} 06'58		evening set	-3430 Dec 08 j 16:23	6° \mathbb{A} 27'59	
opposition	-3436 Jun 12 j 17:14	22° \mathbb{M} 42'46	0°47'49				
min. Earth dist.	-3436 Jun 12 j 01:23	22° \mathbb{M} 43'51	29.09754 AU	conjunction	-3430 Dec 24 j 02:15	7° \mathbb{A} 02'44	0°13'07
direct	-3436 Aug 30 j 16:17	21° \mathbb{M} 20'03		minimum elong	-3430 Dec 24 j 02:15	7° \mathbb{A} 02'44	0°13'00
evening set	-3436 Nov 25 j 04:56	23° \mathbb{M} 12'46		behind sun begin	-3430 Dec 23 j 22:18	7° \mathbb{A} 02'22	
				behind sun end	-3430 Dec 24 j 06:12	7° \mathbb{A} 03'05	
conjunction	-3436 Dec 10 j 12:26	23° \mathbb{M} 47'20	0°42'25	max. Earth dist.	-3430 Dec 24 j 21:47	7° \mathbb{A} 04'34	31.03096 AU
minimum elong	-3436 Dec 10 j 12:27	23° \mathbb{M} 47'20	0°42'20	morning rise	-3429 Jan 08 j 15:28	7° \mathbb{A} 37'48	
max. Earth dist.	-3436 Dec 11 j 04:35	23° \mathbb{M} 48'51	31.09272 AU	retrograde	-3429 Apr 09 j 11:46	9° \mathbb{A} 35'47	
morning rise	-3436 Dec 25 j 22:26	24° \mathbb{M} 22'08		opposition	-3429 Jun 29 j 11:49	8° \mathbb{A} 11'04	0°11'14
retrograde	-3435 Mar 26 j 07:00	26° \mathbb{M} 19'37		min. Earth dist.	-3429 Jun 28 j 15:52	8° \mathbb{A} 12'26	29.02713 AU
opposition	-3435 Jun 15 j 06:22	24° \mathbb{M} 55'21	0°42'44	direct	-3429 Sep 15 j 20:37	6° \mathbb{A} 48'17	
min. Earth dist.	-3435 Jun 14 j 14:33	24° \mathbb{M} 56'26	29.08822 AU	evening set	-3429 Dec 11 j 02:29	8° \mathbb{A} 40'40	
direct	-3435 Sep 02 j 04:14	23° \mathbb{M} 32'39					
evening set	-3435 Nov 27 j 14:46	25° \mathbb{M} 25'19		conjunction	-3429 Dec 26 j 12:57	9° \mathbb{A} 15'27	0°08'07
				minimum elong	-3429 Dec 26 j 12:57	9° \mathbb{A} 15'27	0°08'00
conjunction	-3435 Dec 12 j 22:35	25° \mathbb{M} 59'53	0°37'39	behind sun begin	-3429 Dec 26 j 07:11	9° \mathbb{A} 14'56	
minimum elong	-3435 Dec 12 j 22:36	25° \mathbb{M} 59'53	0°37'32	behind sun end	-3429 Dec 26 j 18:43	9° \mathbb{A} 15'59	
max. Earth dist.	-3435 Dec 13 j 14:39	26° \mathbb{M} 01'24	31.08291 AU	max. Earth dist.	-3429 Dec 27 j 10:18	9° \mathbb{A} 17'28	31.02303 AU
morning rise	-3435 Dec 28 j 09:10	26° \mathbb{M} 34'45		morning rise	-3428 Jan 11 j 02:32	9° \mathbb{A} 50'34	
retrograde	-3434 Mar 28 j 19:30	28° \mathbb{M} 32'19		retrograde	-3428 Apr 11 j 00:29	11° \mathbb{A} 48'39	
opposition	-3434 Jun 17 j 19:24	27° \mathbb{M} 07'59	0°37'36	min. Earth dist.	-3428 Jun 30 j 03:29	10° \mathbb{A} 25'20	29.01961 AU
min. Earth dist.	-3434 Jun 17 j 02:23	27° \mathbb{M} 09'08	29.07782 AU	opposition	-3428 Jul 01 j 00:25	10° \mathbb{A} 23'54	0°05'53
direct	-3434 Sep 04 j 14:57	25° \mathbb{M} 45'16		direct	-3428 Sep 17 j 09:35	9° \mathbb{A} 01'09	
evening set	-3434 Nov 30 j 00:38	27° \mathbb{M} 37'51		evening set	-3428 Dec 12 j 12:48	10° \mathbb{A} 53'31	
conjunction	-3434 Dec 15 j 08:53	28° \mathbb{M} 12'28	0°32'49	conjunction	-3428 Dec 27 j 23:34	11° \mathbb{A} 28'21	0°03'07
minimum elong	-3434 Dec 15 j 08:53	28° \mathbb{M} 12'28	0°32'43	minimum elong	-3428 Dec 27 j 23:34	11° \mathbb{A} 28'21	0°03'00
max. Earth dist.	-3434 Dec 16 j 01:45	28° \mathbb{M} 14'04	31.07206 AU	behind sun begin	-3428 Dec 27 j 17:09	11° \mathbb{A} 27'46	
morning rise	-3434 Dec 30 j 19:57	28° \mathbb{M} 47'22		behind sun end	-3428 Dec 28 j 05:59	11° \mathbb{A} 28'56	
	-3433 Feb 05 j 20:34	0° \mathbb{A}		max. Earth dist.	-3428 Dec 28 j 20:33	11° \mathbb{A} 30'20	31.01597 AU
retrograde	-3433 Mar 31 j 06:55	0° \mathbb{A} 45'01		morning rise	-3427 Jan 12 j 13:50	12° \mathbb{A} 03'30	
	-3433 May 26 j 06:42	30° \mathbb{K} \mathbb{M}		retrograde	-3427 Apr 13 j 15:22	14° \mathbb{A} 01'41	
opposition	-3433 Jun 20 j 08:29	29° \mathbb{M} 20'36	0°32'25	opposition	-3427 Jul 03 j 13:10	12° \mathbb{A} 36'54	0°00'30
min. Earth dist.	-3433 Jun 19 j 15:52	29° \mathbb{M} 21'44	29.06674 AU	min. Earth dist.	-3427 Jul 02 j 15:35	12° \mathbb{A} 38'23	29.01288 AU
direct	-3433 Sep 07 j 01:01	27° \mathbb{M} 57'52		desc. node	-3427 Aug 06 j 06:49	11° \mathbb{A} 45'23	
evening set	-3433 Dec 02 j 10:25	29° \mathbb{M} 50'23		direct	-3427 Sep 19 j 20:40	11° \mathbb{A} 14'11	
	-3433 Dec 06 j 18:03	0° \mathbb{A}		evening set	-3427 Dec 14 j 23:04	13° \mathbb{A} 06'33	
conjunction	-3433 Dec 17 j 19:10	0° \mathbb{A} 25'02	0°27'57	conjunction	-3427 Dec 30 j 10:21	13° \mathbb{A} 41'25	-0°02'03
minimum elong	-3433 Dec 17 j 19:10	0° \mathbb{A} 25'02	0°27'50	minimum elong	-3427 Dec 30 j 10:21	13° \mathbb{A} 41'25	0°02'11
max. Earth dist.	-3433 Dec 18 j 12:51	0° \mathbb{A} 26'42	31.06099 AU	behind sun begin	-3427 Dec 30 j 03:54	13° \mathbb{A} 40'50	
morning rise	-3432 Jan 02 j 06:45	0° \mathbb{A} 59'58		behind sun end	-3427 Dec 30 j 16:47	13° \mathbb{A} 42'00	
retrograde	-3432 Apr 01 j 19:57	2° \mathbb{A} 57'42		max. Earth dist.	-3427 Dec 31 j 08:49	13° \mathbb{A} 43'32	31.00931 AU
opposition	-3432 Jun 21 j 21:20	1° \mathbb{A} 33'11	0°27'10	morning rise	-3426 Jan 15 j 00:59	14° \mathbb{A} 16'37	
min. Earth dist.	-3432 Jun 21 j 02:58	1° \mathbb{A} 34'26	29.05565 AU	retrograde	-3426 Apr 16 j 02:40	16° \mathbb{A} 14'54	

Attention, astronomical year style is used: The year -3426 in astronomical counting style is the year 3427 BCE in historical counting style.

min. Earth dist.	-3426 Jul 05 j 04:20	14° $\mathring{\text{A}}$ 51'35	29.00628 AU	evening set	-3420 Dec 30 j 03:32	28° $\mathring{\text{A}}$ 40'57	
opposition	-3426 Jul 06 j 01:57	14° $\mathring{\text{A}}$ 50'06	-0°04'54				
direct	-3426 Sep 22 j 08:21	13° $\mathring{\text{A}}$ 27'25		conjunction	-3419 Jan 14 j 17:57	29° $\mathring{\text{A}}$ 16'02	-0°36'50
evening set	-3426 Dec 17 j 09:39	15° $\mathring{\text{A}}$ 19'47		minimum elong	-3419 Jan 14 j 17:57	29° $\mathring{\text{A}}$ 16'02	0°36'57
				max. Earth dist.	-3419 Jan 15 j 18:11	29° $\mathring{\text{A}}$ 18'19	30.94589 AU
conjunction	-3425 Jan 01 j 21:18	15° $\mathring{\text{A}}$ 54'41	-0°07'06	morning rise	-3419 Jan 30 j 12:02	29° $\mathring{\text{A}}$ 51'29	
minimum elong	-3425 Jan 01 j 21:19	15° $\mathring{\text{A}}$ 54'41	0°07'13		-3419 Feb 03 j 09:15	0° $\mathring{\text{B}}$	
behind sun begin	-3425 Jan 01 j 15:22	15° $\mathring{\text{A}}$ 54'09		retrograde	-3419 May 01 j 21:17	1° $\mathring{\text{B}}$ 50'10	
behind sun end	-3425 Jan 02 j 03:15	15° $\mathring{\text{A}}$ 55'13		opposition	-3419 Jul 21 j 18:20	0° $\mathring{\text{B}}$ 24'58	-0°42'01
max. Earth dist.	-3425 Jan 02 j 19:42	15° $\mathring{\text{A}}$ 56'48	31.00279 AU	min. Earth dist.	-3419 Jul 20 j 19:21	0° $\mathring{\text{B}}$ 26'33	28.94098 AU
morning rise	-3425 Jan 17 j 12:31	16° $\mathring{\text{A}}$ 29'56			-3419 Aug 06 j 00:39	30° $\mathring{\text{R}}$ $\mathring{\text{A}}$	
retrograde	-3425 Apr 18 j 15:52	18° $\mathring{\text{A}}$ 28'19		direct	-3419 Oct 07 j 14:26	29° $\mathring{\text{A}}$ 02'02	
opposition	-3425 Jul 08 j 14:39	17° $\mathring{\text{A}}$ 03'30	-0°10'17		-3419 Dec 05 j 23:06	0° $\mathring{\text{B}}$	
min. Earth dist.	-3425 Jul 07 j 16:06	17° $\mathring{\text{A}}$ 05'03	28.99960 AU	evening set	-3418 Jan 01 j 14:39	0° $\mathring{\text{B}}$ 54'20	
direct	-3425 Sep 24 j 19:12	15° $\mathring{\text{A}}$ 40'49					
evening set	-3425 Dec 19 j 20:25	17° $\mathring{\text{A}}$ 33'12		conjunction	-3418 Jan 17 j 05:21	1° $\mathring{\text{B}}$ 29'27	-0°41'39
				minimum elong	-3418 Jan 17 j 05:21	1° $\mathring{\text{B}}$ 29'27	0°41'47
conjunction	-3424 Jan 04 j 08:31	18° $\mathring{\text{A}}$ 08'08	-0°12'06	max. Earth dist.	-3418 Jan 18 j 05:02	1° $\mathring{\text{B}}$ 31'42	30.93555 AU
minimum elong	-3424 Jan 04 j 08:30	18° $\mathring{\text{A}}$ 08'08	0°12'14	morning rise	-3418 Feb 02 j 00:02	2° $\mathring{\text{B}}$ 04'57	
behind sun begin	-3424 Jan 04 j 04:10	18° $\mathring{\text{A}}$ 07'44		retrograde	-3418 May 04 j 12:02	4° $\mathring{\text{B}}$ 03'40	
behind sun end	-3424 Jan 04 j 12:51	18° $\mathring{\text{A}}$ 08'32		min. Earth dist.	-3418 Jul 23 j 07:17	2° $\mathring{\text{B}}$ 40'01	28.93126 AU
max. Earth dist.	-3424 Jan 05 j 07:21	18° $\mathring{\text{A}}$ 10'17	30.99565 AU	opposition	-3418 Jul 24 j 06:45	2° $\mathring{\text{B}}$ 38'23	-0°47'08
morning rise	-3424 Jan 20 j 00:14	18° $\mathring{\text{A}}$ 43'25		direct	-3418 Oct 10 j 01:41	1° $\mathring{\text{B}}$ 15'24	
retrograde	-3424 Apr 20 j 04:05	20° $\mathring{\text{A}}$ 41'54		evening set	-3417 Jan 04 j 01:54	3° $\mathring{\text{B}}$ 07'44	
min. Earth dist.	-3424 Jul 09 j 05:46	19° $\mathring{\text{A}}$ 18'32	28.99206 AU				
opposition	-3424 Jul 10 j 03:29	19° $\mathring{\text{A}}$ 17'03	-0°15'39	conjunction	-3417 Jan 19 j 17:07	3° $\mathring{\text{B}}$ 42'53	-0°46'24
direct	-3424 Sep 26 j 05:31	17° $\mathring{\text{A}}$ 54'22		minimum elong	-3417 Jan 19 j 17:07	3° $\mathring{\text{B}}$ 42'53	0°46'31
evening set	-3424 Dec 21 j 07:19	19° $\mathring{\text{A}}$ 46'45		max. Earth dist.	-3417 Jan 20 j 18:07	3° $\mathring{\text{B}}$ 45'15	30.92628 AU
				morning rise	-3417 Feb 04 j 12:09	4° $\mathring{\text{B}}$ 18'24	
conjunction	-3423 Jan 05 j 19:54	20° $\mathring{\text{A}}$ 21'43	-0°17'07	retrograde	-3417 May 06 j 23:44	6° $\mathring{\text{B}}$ 17'11	
minimum elong	-3423 Jan 05 j 19:54	20° $\mathring{\text{A}}$ 21'43	0°17'14	opposition	-3417 Jul 26 j 19:00	4° $\mathring{\text{B}}$ 51'51	-0°52'11
max. Earth dist.	-3423 Jan 06 j 18:58	20° $\mathring{\text{A}}$ 23'54	30.98760 AU	min. Earth dist.	-3417 Jul 25 j 19:31	4° $\mathring{\text{B}}$ 53'29	28.92269 AU
morning rise	-3423 Jan 21 j 12:02	20° $\mathring{\text{A}}$ 57'02		direct	-3417 Oct 12 j 13:26	3° $\mathring{\text{B}}$ 28'51	
retrograde	-3423 Apr 22 j 17:11	22° $\mathring{\text{A}}$ 55'35		evening set	-3416 Jan 06 j 13:16	5° $\mathring{\text{B}}$ 21'12	
opposition	-3423 Jul 12 j 16:04	21° $\mathring{\text{A}}$ 30'41	-0°21'00				
min. Earth dist.	-3423 Jul 11 j 17:14	21° $\mathring{\text{A}}$ 32'15	28.98338 AU	conjunction	-3416 Jan 22 j 04:55	5° $\mathring{\text{B}}$ 56'22	-0°51'05
direct	-3423 Sep 28 j 16:49	20° $\mathring{\text{A}}$ 07'59		minimum elong	-3416 Jan 22 j 04:55	5° $\mathring{\text{B}}$ 56'22	0°51'13
evening set	-3423 Dec 23 j 18:23	22° $\mathring{\text{A}}$ 00'22		max. Earth dist.	-3416 Jan 23 j 05:49	5° $\mathring{\text{B}}$ 58'44	30.91843 AU
				morning rise	-3416 Feb 07 j 00:29	6° $\mathring{\text{B}}$ 31'56	
conjunction	-3422 Jan 08 j 07:18	22° $\mathring{\text{A}}$ 35'21	-0°22'06	retrograde	-3416 May 08 j 13:49	8° $\mathring{\text{B}}$ 30'45	
minimum elong	-3422 Jan 08 j 07:18	22° $\mathring{\text{A}}$ 35'21	0°22'14	min. Earth dist.	-3416 Jul 27 j 06:45	7° $\mathring{\text{B}}$ 07'06	28.91553 AU
max. Earth dist.	-3422 Jan 09 j 05:52	22° $\mathring{\text{A}}$ 37'29	30.97825 AU	opposition	-3416 Jul 28 j 07:13	7° $\mathring{\text{B}}$ 05'24	-0°57'09
morning rise	-3422 Jan 24 j 00:02	23° $\mathring{\text{A}}$ 10'43		direct	-3416 Oct 14 j 00:41	5° $\mathring{\text{B}}$ 42'23	
retrograde	-3422 Apr 25 j 05:40	25° $\mathring{\text{A}}$ 09'19		evening set	-3415 Jan 08 j 00:45	7° $\mathring{\text{B}}$ 34'47	
min. Earth dist.	-3422 Jul 14 j 07:00	23° $\mathring{\text{A}}$ 45'52	28.97352 AU				
opposition	-3422 Jul 15 j 04:55	23° $\mathring{\text{A}}$ 44'21	-0°26'20	conjunction	-3415 Jan 23 j 16:46	8° $\mathring{\text{B}}$ 10'00	-0°55'42
direct	-3422 Oct 01 j 03:13	22° $\mathring{\text{A}}$ 21'37		minimum elong	-3415 Jan 23 j 16:46	8° $\mathring{\text{B}}$ 10'00	0°55'49
evening set	-3422 Dec 26 j 05:15	24° $\mathring{\text{A}}$ 13'57		max. Earth dist.	-3415 Jan 24 j 18:16	8° $\mathring{\text{B}}$ 12'24	30.91171 AU
				morning rise	-3415 Feb 08 j 12:46	8° $\mathring{\text{B}}$ 45'35	
conjunction	-3421 Jan 10 j 18:47	24° $\mathring{\text{A}}$ 48'59	-0°27'03	retrograde	-3415 May 11 j 02:21	10° $\mathring{\text{B}}$ 44'28	
minimum elong	-3421 Jan 10 j 18:47	24° $\mathring{\text{A}}$ 48'59	0°27'10	opposition	-3415 Jul 30 j 19:26	9° $\mathring{\text{B}}$ 19'07	-1°02'02
max. Earth dist.	-3421 Jan 11 j 18:23	24° $\mathring{\text{A}}$ 51'13	30.96792 AU	min. Earth dist.	-3415 Jul 29 j 19:36	9° $\mathring{\text{B}}$ 20'46	28.90947 AU
morning rise	-3421 Jan 26 j 11:54	25° $\mathring{\text{A}}$ 24'23		direct	-3415 Oct 16 j 10:58	7° $\mathring{\text{B}}$ 56'07	
retrograde	-3421 Apr 27 j 18:40	27° $\mathring{\text{A}}$ 23'01		evening set	-3414 Jan 10 j 12:17	9° $\mathring{\text{B}}$ 48'33	
opposition	-3421 Jul 17 j 17:30	25° $\mathring{\text{A}}$ 57'58	-0°31'36				
min. Earth dist.	-3421 Jul 16 j 18:38	25° $\mathring{\text{A}}$ 59'33	28.96273 AU	conjunction	-3414 Jan 26 j 04:49	10° $\mathring{\text{B}}$ 23'48	-1°00'13
direct	-3421 Oct 03 j 15:08	24° $\mathring{\text{A}}$ 35'10		minimum elong	-3414 Jan 26 j 04:49	10° $\mathring{\text{B}}$ 23'48	1°00'21
evening set	-3421 Dec 28 j 16:27	26° $\mathring{\text{A}}$ 27'30		max. Earth dist.	-3414 Jan 27 j 06:45	10° $\mathring{\text{B}}$ 26'15	30.90625 AU
				morning rise	-3414 Feb 11 j 01:12	10° $\mathring{\text{B}}$ 59'25	
conjunction	-3420 Jan 13 j 06:17	27° $\mathring{\text{A}}$ 02'33	-0°31'58	retrograde	-3414 May 13 j 15:32	12° $\mathring{\text{B}}$ 58'23	
minimum elong	-3420 Jan 13 j 06:17	27° $\mathring{\text{A}}$ 02'33	0°32'06	min. Earth dist.	-3414 Aug 01 j 06:32	11° $\mathring{\text{B}}$ 34'47	28.90444 AU
max. Earth dist.	-3420 Jan 14 j 05:07	27° $\mathring{\text{A}}$ 04'42	30.95689 AU	opposition	-3414 Aug 02 j 07:35	11° $\mathring{\text{B}}$ 33'02	-1°06'50
morning rise	-3420 Jan 29 j 00:04	27° $\mathring{\text{A}}$ 37'59		direct	-3414 Oct 18 j 22:03	10° $\mathring{\text{B}}$ 10'02	
retrograde	-3420 Apr 29 j 08:17	29° $\mathring{\text{A}}$ 36'38		evening set	-3413 Jan 13 j 00:02	12° $\mathring{\text{B}}$ 02'33	
min. Earth dist.	-3420 Jul 18 j 07:38	28° $\mathring{\text{A}}$ 13'03	28.95173 AU				
opposition	-3420 Jul 19 j 05:58	28° $\mathring{\text{A}}$ 11'30	-0°36'50	conjunction	-3413 Jan 28 j 16:52	12° $\mathring{\text{B}}$ 37'50	-1°04'40
direct	-3420 Oct 05 j 01:16	26° $\mathring{\text{A}}$ 48'38		minimum elong	-3413 Jan 28 j 16:52	12° $\mathring{\text{B}}$ 37'50	1°04'47

Attention, astronomical year style is used: The year -3413 in astronomical counting style is the year 3414 BCE in historical counting style.

max. Earth dist.	-3413 Jan 29 j 18:27	12° $\overline{3}$ 40'15	30.90142 AU	conjunction	-3406 Feb 13 j 09:53	28° $\overline{3}$ 19'34	-1°32'44
morning rise	-3413 Feb 13 j 13:48	13° $\overline{3}$ 13'29		minimum elong	-3406 Feb 13 j 09:53	28° $\overline{3}$ 19'34	1°32'51
retrograde	-3413 May 16 j 03:49	15° $\overline{3}$ 12'31		max. Earth dist.	-3406 Feb 14 j 10:27	28° $\overline{3}$ 21'53	30.85702 AU
opposition	-3413 Aug 04 j 19:51	13° $\overline{3}$ 47'12	-1°11'32	morning rise	-3406 Mar 01 j 09:30	28° $\overline{3}$ 55'23	
min. Earth dist.	-3413 Aug 03 j 19:51	13° $\overline{3}$ 48'52	28.89987 AU		-3406 Apr 02 j 18:06	0° \approx	
direct	-3413 Oct 21 j 07:41	12° $\overline{3}$ 24'12		retrograde	-3406 Jun 01 j 03:07	0° \approx 54'27	
evening set	-3412 Jan 15 j 11:58	14° $\overline{3}$ 16'47			-3406 Aug 01 j 10:14	30° \overline{R} $\overline{3}$	
				min. Earth dist.	-3406 Aug 19 j 09:39	29° $\overline{3}$ 30'30	28.85492 AU
conjunction	-3412 Jan 31 j 05:23	14° $\overline{3}$ 52'06	-1°09'01	opposition	-3406 Aug 20 j 07:45	29° $\overline{3}$ 28'57	-1°41'06
minimum elong	-3412 Jan 31 j 05:23	14° $\overline{3}$ 52'06	1°09'08	direct	-3406 Nov 05 j 16:54	28° $\overline{3}$ 05'35	
max. Earth dist.	-3412 Feb 01 j 07:46	14° $\overline{3}$ 54'35	30.89683 AU	evening set	-3405 Jan 31 j 02:36	29° $\overline{3}$ 58'29	
morning rise	-3412 Feb 16 j 02:35	15° $\overline{3}$ 27'47			-3405 Jan 31 j 19:06	0° \approx	
retrograde	-3412 May 17 j 17:02	17° $\overline{3}$ 26'52					
min. Earth dist.	-3412 Aug 05 j 07:11	16° $\overline{3}$ 03'17	28.89514 AU	conjunction	-3405 Feb 15 j 22:52	0° \approx 33'58	-1°36'14
opposition	-3412 Aug 06 j 07:49	16° $\overline{3}$ 01'34	-1°16'08	minimum elong	-3405 Feb 15 j 22:51	0° \approx 33'58	1°36'20
direct	-3412 Oct 22 j 18:30	14° $\overline{3}$ 38'34		max. Earth dist.	-3405 Feb 16 j 23:29	0° \approx 36'17	30.85093 AU
evening set	-3411 Jan 17 j 00:14	16° $\overline{3}$ 31'14		morning rise	-3405 Mar 03 j 22:49	1° \approx 09'48	
				retrograde	-3405 Jun 03 j 16:11	3° \approx 08'50	
conjunction	-3411 Feb 01 j 17:52	17° $\overline{3}$ 06'34	-1°13'16	opposition	-3405 Aug 22 j 19:24	1° \approx 43'18	-1°44'45
minimum elong	-3411 Feb 01 j 17:52	17° $\overline{3}$ 06'34	1°13'23	min. Earth dist.	-3405 Aug 21 j 20:21	1° \approx 44'55	28.84945 AU
max. Earth dist.	-3411 Feb 02 j 19:02	17° $\overline{3}$ 08'57	30.89178 AU	direct	-3405 Nov 08 j 04:56	0° \approx 19'52	
morning rise	-3411 Feb 17 j 15:37	17° $\overline{3}$ 42'17		evening set	-3404 Feb 02 j 15:23	2° \approx 12'50	
retrograde	-3411 May 20 j 07:02	19° $\overline{3}$ 41'25					
opposition	-3411 Aug 08 j 20:02	18° $\overline{3}$ 16'07	-1°20'37	conjunction	-3404 Feb 18 j 11:55	2° \approx 48'20	-1°39'35
min. Earth dist.	-3411 Aug 07 j 20:25	18° $\overline{3}$ 17'46	28.88987 AU	minimum elong	-3404 Feb 18 j 11:55	2° \approx 48'20	1°39'41
direct	-3411 Oct 25 j 04:14	16° $\overline{3}$ 53'06		max. Earth dist.	-3404 Feb 19 j 11:58	2° \approx 50'36	30.84598 AU
evening set	-3410 Jan 19 j 12:17	18° $\overline{3}$ 45'50		morning rise	-3404 Mar 05 j 12:18	3° \approx 24'11	
				retrograde	-3404 Jun 05 j 04:10	5° \approx 23'12	
conjunction	-3410 Feb 04 j 06:30	19° $\overline{3}$ 21'11	-1°17'24	min. Earth dist.	-3404 Aug 23 j 09:01	3° \approx 59'12	28.84533 AU
minimum elong	-3410 Feb 04 j 06:30	19° $\overline{3}$ 21'11	1°17'31	opposition	-3404 Aug 24 j 07:01	3° \approx 57'39	-1°48'15
max. Earth dist.	-3410 Feb 05 j 08:27	19° $\overline{3}$ 23'38	30.88596 AU	direct	-3404 Nov 09 j 14:50	2° \approx 34'10	
morning rise	-3410 Feb 20 j 04:28	19° $\overline{3}$ 56'55		evening set	-3403 Feb 04 j 04:03	4° \approx 27'12	
retrograde	-3410 May 22 j 20:28	21° $\overline{3}$ 56'05					
min. Earth dist.	-3410 Aug 10 j 08:30	20° $\overline{3}$ 32'25	28.88356 AU	conjunction	-3403 Feb 20 j 01:08	5° \approx 02'43	-1°42'47
opposition	-3410 Aug 11 j 08:10	20° $\overline{3}$ 30'46	-1°24'59	minimum elong	-3403 Feb 20 j 01:07	5° \approx 02'43	1°42'53
direct	-3410 Oct 27 j 17:21	19° $\overline{3}$ 07'42		max. Earth dist.	-3403 Feb 21 j 01:56	5° \approx 05'03	30.84257 AU
evening set	-3409 Jan 22 j 00:45	21° $\overline{3}$ 00'29		morning rise	-3403 Mar 08 j 01:42	5° \approx 38'35	
				retrograde	-3403 Jun 07 j 17:14	7° \approx 37'34	
conjunction	-3409 Feb 06 j 19:16	21° $\overline{3}$ 35'52	-1°21'26	opposition	-3403 Aug 26 j 18:34	6° \approx 12'03	-1°51'36
minimum elong	-3409 Feb 06 j 19:15	21° $\overline{3}$ 35'52	1°21'32	min. Earth dist.	-3403 Aug 25 j 19:45	6° \approx 13'39	28.84263 AU
max. Earth dist.	-3409 Feb 07 j 19:45	21° $\overline{3}$ 38'10	30.87924 AU	direct	-3403 Nov 12 j 01:56	4° \approx 48'32	
morning rise	-3409 Feb 22 j 17:48	22° $\overline{3}$ 11'37		evening set	-3402 Feb 06 j 16:49	6° \approx 41'38	
retrograde	-3409 May 25 j 11:15	24° $\overline{3}$ 10'47					
opposition	-3409 Aug 13 j 20:11	22° $\overline{3}$ 45'25	-1°29'13	conjunction	-3402 Feb 22 j 14:08	7° \approx 17'11	-1°45'50
min. Earth dist.	-3409 Aug 12 j 20:53	22° $\overline{3}$ 47'03	28.87653 AU	minimum elong	-3402 Feb 22 j 14:08	7° \approx 17'11	1°45'56
direct	-3409 Oct 30 j 04:42	21° $\overline{3}$ 22'17		max. Earth dist.	-3402 Feb 23 j 13:57	7° \approx 19'25	30.84052 AU
evening set	-3408 Jan 24 j 13:10	23° $\overline{3}$ 15'06		morning rise	-3402 Mar 10 j 15:13	7° \approx 53'04	
				retrograde	-3402 Jun 10 j 06:01	9° \approx 52'03	
conjunction	-3408 Feb 09 j 08:12	23° $\overline{3}$ 50'31	-1°25'20	min. Earth dist.	-3402 Aug 28 j 08:20	8° \approx 28'06	28.84128 AU
minimum elong	-3408 Feb 09 j 08:12	23° $\overline{3}$ 50'31	1°25'27	opposition	-3402 Aug 29 j 06:16	8° \approx 26'33	-1°54'46
max. Earth dist.	-3408 Feb 10 j 09:16	23° $\overline{3}$ 52'53	30.87179 AU	direct	-3402 Nov 14 j 11:42	7° \approx 03'01	
morning rise	-3408 Feb 25 j 07:01	24° $\overline{3}$ 26'18		evening set	-3401 Feb 09 j 05:45	8° \approx 56'13	
retrograde	-3408 May 26 j 23:35	26° $\overline{3}$ 25'26					
min. Earth dist.	-3408 Aug 14 j 09:28	25° $\overline{3}$ 01'37	28.86893 AU	conjunction	-3401 Feb 25 j 03:38	9° \approx 31'47	-1°48'43
opposition	-3408 Aug 15 j 08:09	25° $\overline{3}$ 00'01	-1°33'19	minimum elong	-3401 Feb 25 j 03:38	9° \approx 31'47	1°48'49
direct	-3408 Oct 31 j 16:45	23° $\overline{3}$ 36'49		max. Earth dist.	-3401 Feb 26 j 04:20	9° \approx 34'06	30.83961 AU
evening set	-3407 Jan 26 j 01:36	25° $\overline{3}$ 29'39		morning rise	-3401 Mar 13 j 04:54	10° \approx 07'41	
				retrograde	-3401 Jun 12 j 18:34	12° \approx 06'40	
conjunction	-3407 Feb 10 j 20:59	26° $\overline{3}$ 05'05	-1°29'06	opposition	-3401 Aug 31 j 17:42	10° \approx 41'13	-1°57'46
minimum elong	-3407 Feb 10 j 20:59	26° $\overline{3}$ 05'05	1°29'13	min. Earth dist.	-3401 Aug 30 j 19:48	10° \approx 42'45	28.84075 AU
max. Earth dist.	-3407 Feb 11 j 21:19	26° $\overline{3}$ 07'23	30.86422 AU	direct	-3401 Nov 16 j 23:43	9° \approx 17'40	
morning rise	-3407 Feb 26 j 20:15	26° $\overline{3}$ 40'53		evening set	-3400 Feb 11 j 19:02	11° \approx 10'59	
retrograde	-3407 May 29 j 14:36	28° $\overline{3}$ 39'59					
opposition	-3407 Aug 17 j 19:56	27° $\overline{3}$ 14'32	-1°37'17	conjunction	-3400 Feb 27 j 17:09	11° \approx 46'34	-1°51'26
min. Earth dist.	-3407 Aug 16 j 20:50	27° $\overline{3}$ 16'09	28.86157 AU	minimum elong	-3400 Feb 27 j 17:09	11° \approx 46'34	1°51'32
direct	-3407 Nov 03 j 05:23	25° $\overline{3}$ 51'14		max. Earth dist.	-3400 Feb 28 j 16:17	11° \approx 48'44	30.83935 AU
evening set	-3406 Jan 28 j 14:08	27° $\overline{3}$ 44'07		morning rise	-3400 Mar 14 j 18:54	12° \approx 22'29	

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

retrograde	-3400 Jun 14 j 09:14	14° \approx 21'28	
min. Earth dist.	-3400 Sep 01 j 07:55	12° \approx 57'34	28.84066 AU
opposition	-3400 Sep 02 j 05:17	12° \approx 56'04	-2°00'35
direct	-3400 Nov 18 j 10:14	11° \approx 32'31	
evening set	-3399 Feb 13 j 08:16	13° \approx 25'56	
conjunction	-3399 Mar 01 j 06:51	14° \approx 01'33	-1°54'00
minimum elong	-3399 Mar 01 j 06:50	14° \approx 01'33	1°54'05
max. Earth dist.	-3399 Mar 02 j 06:21	14° \approx 03'45	30.83902 AU
morning rise	-3399 Mar 17 j 08:43	14° \approx 37'29	
	-3399 Mar 27 j 20:36	15° \approx	
retrograde	-3399 Jun 16 j 22:06	16° \approx 36'27	
opposition	-3399 Sep 04 j 16:51	15° \approx 11'06	-2°03'13
min. Earth dist.	-3399 Sep 03 j 20:26	15° \approx 12'32	28.84016 AU
	-3399 Sep 11 j 06:30	15° \approx	
direct	-3399 Nov 20 j 22:00	13° \approx 47'32	