

Attention, astronomical year style is used: The year -2900 in astronomical counting style is the year 2901 BCE in historical counting style.

	-2900 Jan 26 j 02:27	0°♄		conjunction	-2892 Apr 03 j 08:27	19°♄41'53	-2°-7'-53
				minimum elong	-2892 Apr 03 j 08:27	19°♄41'53	2°07'56
conjunction	-2900 Mar 15 j 14:49	1°♄41'44	-2°-2'-31	max. Earth dist.	-2892 Apr 03 j 23:25	19°♄43'17	30.83522 AU
minimum elong	-2900 Mar 15 j 14:49	1°♄41'44	2°02'35	retrograde	-2892 Jul 19 j 08:27	22°♄15'50	
max. Earth dist.	-2900 Mar 16 j 11:25	1°♄43'39	30.83561 AU	opposition	-2892 Oct 06 j 06:19	20°♄50'45	-2°-16'-40
retrograde	-2900 Jul 01 j 04:30	4°♄16'25		min. Earth dist.	-2892 Oct 05 j 17:54	20°♄51'38	28.83850 AU
opposition	-2900 Sep 18 j 13:52	2°♄51'09	-2°-11'-46	direct	-2892 Dec 22 j 17:33	19°♄26'30	
min. Earth dist.	-2900 Sep 17 j 19:13	2°♄52'28	28.83750 AU				
direct	-2900 Dec 04 j 21:16	1°♄27'23		conjunction	-2891 Apr 05 j 22:47	21°♄56'46	-2°-7'-41
				minimum elong	-2891 Apr 05 j 22:47	21°♄56'46	2°07'42
conjunction	-2899 Mar 18 j 05:01	3°♄56'56	-2°-3'-52	max. Earth dist.	-2891 Apr 06 j 12:37	21°♄58'03	30.83898 AU
minimum elong	-2899 Mar 18 j 05:01	3°♄56'56	2°03'54	retrograde	-2891 Jul 21 j 22:58	24°♄30'38	
max. Earth dist.	-2899 Mar 19 j 00:32	3°♄58'46	30.83599 AU	opposition	-2891 Oct 08 j 16:59	23°♄05'37	-2°-16'-21
retrograde	-2899 Jul 03 j 17:46	6°♄31'34		min. Earth dist.	-2891 Oct 08 j 04:19	23°♄06'32	28.84280 AU
min. Earth dist.	-2899 Sep 20 j 08:24	5°♄07'31	28.83749 AU	direct	-2891 Dec 25 j 06:00	21°♄41'22	
opposition	-2899 Sep 21 j 01:12	5°♄06'20	-2°-13'-6				
direct	-2899 Dec 07 j 08:52	3°♄42'31		conjunction	-2890 Apr 08 j 13:10	24°♄11'45	-2°-7'-17
				minimum elong	-2890 Apr 08 j 13:10	24°♄11'45	2°07'19
conjunction	-2898 Mar 20 j 19:20	6°♄12'09	-2°-5'-1	max. Earth dist.	-2890 Apr 09 j 02:22	24°♄12'59	30.84373 AU
minimum elong	-2898 Mar 20 j 19:20	6°♄12'09	2°05'04	retrograde	-2890 Jul 24 j 12:08	26°♄45'32	
max. Earth dist.	-2898 Mar 21 j 14:17	6°♄13'56	30.83560 AU	opposition	-2890 Oct 11 j 03:53	25°♄20'37	-2°-15'-49
retrograde	-2898 Jul 06 j 07:46	8°♄46'42		min. Earth dist.	-2890 Oct 10 j 16:53	25°♄21'23	28.84796 AU
opposition	-2898 Sep 23 j 12:24	7°♄21'28	-2°-14'-14	direct	-2890 Dec 27 j 17:54	23°♄56'21	
min. Earth dist.	-2898 Sep 22 j 19:28	7°♄22'40	28.83664 AU				
direct	-2898 Dec 09 j 21:41	5°♄57'35		conjunction	-2889 Apr 11 j 03:29	26°♄26'51	-2°-6'-41
				minimum elong	-2889 Apr 11 j 03:30	26°♄26'51	2°06'43
conjunction	-2897 Mar 23 j 09:20	8°♄27'18	-2°-5'-58	max. Earth dist.	-2889 Apr 11 j 16:08	26°♄28'02	30.84923 AU
minimum elong	-2897 Mar 23 j 09:20	8°♄27'18	2°06'01	retrograde	-2889 Jul 27 j 02:00	29°♄00'34	
max. Earth dist.	-2897 Mar 24 j 02:45	8°♄28'56	30.83443 AU	opposition	-2889 Oct 13 j 14:38	27°♄35'44	-2°-15'-4
retrograde	-2897 Jul 08 j 19:30	11°♄01'46		min. Earth dist.	-2889 Oct 13 j 03:31	27°♄36'31	28.85343 AU
opposition	-2897 Sep 25 j 23:41	9°♄36'32	-2°-15'-9	direct	-2889 Dec 30 j 07:10	26°♄11'28	
min. Earth dist.	-2897 Sep 25 j 08:21	9°♄37'38	28.83538 AU				
direct	-2897 Dec 12 j 08:21	8°♄12'35		conjunction	-2888 Apr 12 j 18:03	28°♄42'05	-2°-5'-54
				minimum elong	-2888 Apr 12 j 18:03	28°♄42'05	2°05'55
conjunction	-2896 Mar 24 j 23:38	10°♄42'22	-2°-6'-45	max. Earth dist.	-2888 Apr 13 j 05:00	28°♄43'07	30.85459 AU
minimum elong	-2896 Mar 24 j 23:38	10°♄42'22	2°06'48	retrograde	-2888 May 19 j 04:10	0°♄	
max. Earth dist.	-2896 Mar 25 j 17:18	10°♄44'01	30.83316 AU	opposition	-2888 Jul 28 j 14:31	1°♄15'42	
retrograde	-2896 Jul 10 j 07:30	13°♄16'43		min. Earth dist.	-2888 Oct 09 j 17:50	30°♄R♄	
opposition	-2896 Sep 27 j 10:38	11°♄51'30	-2°-15'-52	opposition	-2888 Oct 15 j 01:26	29°♄50'57	-2°-14'-7
min. Earth dist.	-2896 Sep 26 j 19:27	11°♄52'35	28.83414 AU	min. Earth dist.	-2888 Oct 14 j 16:15	29°♄51'36	28.85862 AU
direct	-2896 Dec 13 j 20:34	10°♄27'28		direct	-2888 Dec 31 j 17:47	28°♄26'40	
					-2887 Mar 20 j 02:28	0°♄	
conjunction	-2895 Mar 27 j 13:49	12°♄57'20	-2°-7'-19	conjunction	-2887 Apr 15 j 08:51	0°♄57'23	-2°-4'-55
minimum elong	-2895 Mar 27 j 13:49	12°♄57'20	2°07'22	minimum elong	-2887 Apr 15 j 08:51	0°♄57'23	2°04'55
max. Earth dist.	-2895 Mar 28 j 05:37	12°♄58'49	30.83217 AU	max. Earth dist.	-2887 Apr 15 j 19:27	0°♄58'23	30.85940 AU
retrograde	-2895 Jul 12 j 20:28	15°♄31'35		retrograde	-2887 Jul 31 j 03:49	3°♄30'52	
opposition	-2895 Sep 29 j 21:40	14°♄06'22	-2°-16'-23	opposition	-2887 Oct 17 j 12:13	2°♄06'11	-2°-12'-57
min. Earth dist.	-2895 Sep 29 j 07:23	14°♄07'23	28.83356 AU	min. Earth dist.	-2887 Oct 17 j 03:34	2°♄06'48	28.86283 AU
direct	-2895 Dec 16 j 06:25	12°♄42'16		direct	-2886 Jan 03 j 06:35	0°♄41'52	
conjunction	-2894 Mar 30 j 04:06	15°♄12'13	-2°-7'-42	conjunction	-2886 Apr 17 j 23:26	3°♄12'41	-2°-3'-44
minimum elong	-2894 Mar 30 j 04:07	15°♄12'13	2°07'45	minimum elong	-2886 Apr 17 j 23:26	3°♄12'41	2°03'45
max. Earth dist.	-2894 Mar 30 j 20:22	15°♄13'44	30.83193 AU	max. Earth dist.	-2886 Apr 18 j 07:39	3°♄13'27	30.86313 AU
retrograde	-2894 Jul 15 j 07:21	17°♄46'21		retrograde	-2886 Aug 02 j 16:10	5°♄46'01	
opposition	-2894 Oct 02 j 08:31	16°♄21'11	-2°-16'-41	opposition	-2886 Oct 19 j 23:00	4°♄21'23	-2°-11'-36
min. Earth dist.	-2894 Oct 01 j 18:48	16°♄22'09	28.83382 AU	min. Earth dist.	-2886 Oct 19 j 15:42	4°♄21'54	28.86610 AU
direct	-2894 Dec 18 j 18:19	14°♄57'01		direct	-2885 Jan 05 j 16:58	2°♄56'59	
conjunction	-2893 Apr 01 j 18:14	17°♄27'03	-2°-7'-54	conjunction	-2885 Apr 20 j 14:10	5°♄27'52	-2°-2'-23
minimum elong	-2893 Apr 01 j 18:14	17°♄27'03	2°07'56	minimum elong	-2885 Apr 20 j 14:10	5°♄27'52	2°02'23
max. Earth dist.	-2893 Apr 02 j 08:56	17°♄28'25	30.83290 AU	max. Earth dist.	-2885 Apr 20 j 22:14	5°♄28'37	30.86597 AU
retrograde	-2893 Jul 17 j 20:55	20°♄01'06		retrograde	-2885 Aug 05 j 02:23	8°♄01'03	
opposition	-2893 Oct 04 j 19:23	18°♄35'57	-2°-16'-47	opposition	-2885 Oct 22 j 09:41	6°♄36'26	-2°-10'-3
min. Earth dist.	-2893 Oct 04 j 05:45	18°♄36'55	28.83552 AU	min. Earth dist.	-2885 Oct 22 j 03:26	6°♄36'52	28.86849 AU
direct	-2893 Dec 21 j 06:07	17°♄11'44					

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Attention, astronomical year style is used: The year -2884 in astronomical counting style is the year 2885 BCE in historical counting style.

direct	-2884 Jan 08 j 05:34	5°♃11'58		minimum elong	-2876 May 10 j 23:51	25°♃37'50	1°42'11
				max. Earth dist.	-2876 May 10 j 23:55	25°♃37'50	30.91065 AU
conjunction	-2884 Apr 22 j 04:39	7°♃42'53	-2°00'-50	retrograde	-2876 Aug 24 j 13:50	28°♃09'36	
minimum elong	-2884 Apr 22 j 04:39	7°♃42'53	2°00'51	opposition	-2876 Nov 10 j 07:28	26°♃45'31	-1°-47'-40
max. Earth dist.	-2884 Apr 22 j 10:30	7°♃43'25	30.86824 AU	min. Earth dist.	-2876 Nov 10 j 08:20	26°♃45'27	28.91589 AU
retrograde	-2884 Aug 06 j 14:44	10°♃15'53		direct	-2875 Jan 27 j 18:05	25°♃20'39	
opposition	-2884 Oct 23 j 20:16	8°♃51'17	-2°-8'-18				
min. Earth dist.	-2884 Oct 23 j 14:37	8°♃51'42	28.87057 AU	conjunction	-2875 May 13 j 14:12	27°♃52'14	-1°-39'-9
direct	-2883 Jan 09 j 17:08	7°♃26'44		minimum elong	-2875 May 13 j 14:13	27°♃52'14	1°39'07
				max. Earth dist.	-2875 May 13 j 11:54	27°♃52'02	30.91923 AU
conjunction	-2883 Apr 24 j 19:20	9°♃57'42	-1°-59'-7				
minimum elong	-2883 Apr 24 j 19:20	9°♃57'42	1°59'07	retrograde	-2875 Jul 20 j 05:07	0°♃	
max. Earth dist.	-2883 Apr 25 j 01:01	9°♃58'14	30.87025 AU		-2875 Aug 27 j 02:16	0°♃23'52	
retrograde	-2883 Aug 09 j 01:16	12°♃30'31			-2875 Oct 04 j 09:19	30°♃	
opposition	-2883 Oct 26 j 06:47	11°♃05'56	-2°-6'-22	opposition	-2875 Nov 12 j 17:46	28°♃59'54	-1°-44'-18
min. Earth dist.	-2883 Oct 26 j 02:46	11°♃06'14	28.87263 AU	min. Earth dist.	-2875 Nov 12 j 19:17	28°♃59'47	28.92415 AU
direct	-2882 Jan 12 j 04:25	9°♃41'17		direct	-2874 Jan 30 j 04:56	27°♃35'01	
					-2874 May 13 j 04:41	0°♃	
conjunction	-2882 Apr 27 j 09:47	12°♃12'18	-1°-57'-13	conjunction	-2874 May 16 j 04:42	0°♃06'42	-1°-35'-56
minimum elong	-2882 Apr 27 j 09:47	12°♃12'18	1°57'13	minimum elong	-2874 May 16 j 04:43	0°♃06'42	1°35'54
max. Earth dist.	-2882 Apr 27 j 14:00	12°♃12'41	30.87269 AU	max. Earth dist.	-2874 May 16 j 02:07	0°♃06'27	30.92704 AU
retrograde	-2882 Aug 11 j 13:56	14°♃44'57		retrograde	-2874 Aug 29 j 12:38	2°♃38'11	
opposition	-2882 Oct 28 j 17:12	13°♃20'23	-2°-4'-14	opposition	-2874 Nov 15 j 04:19	1°♃14'17	-1°-40'-47
min. Earth dist.	-2882 Oct 28 j 13:02	13°♃20'41	28.87539 AU	min. Earth dist.	-2874 Nov 15 j 07:39	1°♃14'03	28.93146 AU
direct	-2881 Jan 14 j 17:32	11°♃55'38			-2873 Jan 07 j 08:57	30°♃	
				direct	-2873 Feb 01 j 15:33	29°♃49'23	
conjunction	-2881 Apr 30 j 00:02	14°♃26'42	-1°-55'-8		-2873 Feb 26 j 22:59	0°♃	
minimum elong	-2881 Apr 30 j 00:03	14°♃26'42	1°55'08	conjunction	-2873 May 18 j 18:52	2°♃21'07	-1°-32'-34
max. Earth dist.	-2881 Apr 30 j 03:45	14°♃27'03	30.87586 AU	minimum elong	-2873 May 18 j 18:53	2°♃21'07	1°32'32
retrograde	-2881 Aug 14 j 01:15	16°♃59'11		max. Earth dist.	-2873 May 18 j 14:21	2°♃20'41	30.93403 AU
opposition	-2881 Oct 31 j 03:45	15°♃34'38	-2°-1'-56	retrograde	-2873 Sep 01 j 00:28	4°♃52'26	
min. Earth dist.	-2881 Oct 31 j 01:09	15°♃34'49	28.87915 AU	opposition	-2873 Nov 17 j 14:39	3°♃28'36	-1°-37'-7
direct	-2880 Jan 17 j 05:49	14°♃09'50		min. Earth dist.	-2873 Nov 17 j 18:09	3°♃28'21	28.93792 AU
				direct	-2872 Feb 04 j 04:48	2°♃03'39	
conjunction	-2880 May 01 j 14:27	16°♃40'58	-1°-52'-54	conjunction	-2872 May 20 j 09:15	4°♃35'26	-1°-29'-5
minimum elong	-2880 May 01 j 14:27	16°♃40'58	1°52'53	minimum elong	-2872 May 20 j 09:15	4°♃35'26	1°29'03
max. Earth dist.	-2880 May 01 j 17:29	16°♃41'15	30.88038 AU	max. Earth dist.	-2872 May 20 j 03:52	4°♃34'56	30.94010 AU
retrograde	-2880 Aug 15 j 14:04	19°♃13'16		retrograde	-2872 Sep 02 j 10:55	7°♃06'35	
opposition	-2880 Nov 01 j 13:58	17°♃48'47	-1°-59'-26	opposition	-2872 Nov 19 j 00:58	5°♃42'47	-1°-33'-19
min. Earth dist.	-2880 Nov 01 j 11:03	17°♃48'59	28.88424 AU	min. Earth dist.	-2872 Nov 19 j 06:29	5°♃42'24	28.94367 AU
direct	-2879 Jan 18 j 19:24	16°♃23'56		direct	-2871 Feb 05 j 17:04	4°♃17'47	
conjunction	-2879 May 04 j 04:49	18°♃55'08	-1°-50'-28				
minimum elong	-2879 May 04 j 04:49	18°♃55'08	1°50'28	conjunction	-2871 May 22 j 23:31	6°♃49'36	-1°-25'-27
max. Earth dist.	-2879 May 04 j 06:35	18°♃55'18	30.88620 AU	minimum elong	-2871 May 22 j 23:31	6°♃49'36	1°25'26
retrograde	-2879 Aug 18 j 02:17	21°♃27'17		max. Earth dist.	-2871 May 22 j 16:57	6°♃48'59	30.94577 AU
opposition	-2879 Nov 04 j 00:27	20°♃02'52	-1°-56'-45	retrograde	-2871 Sep 04 j 23:02	9°♃20'33	
min. Earth dist.	-2879 Nov 03 j 22:59	20°♃02'59	28.89080 AU	opposition	-2871 Nov 21 j 11:13	7°♃56'48	-1°-29'-23
direct	-2878 Jan 21 j 06:20	18°♃38'00		min. Earth dist.	-2871 Nov 21 j 16:42	7°♃56'25	28.94911 AU
				direct	-2870 Feb 08 j 06:51	6°♃31'43	
conjunction	-2878 May 06 j 19:08	21°♃09'17	-1°-47'-53				
minimum elong	-2878 May 06 j 19:09	21°♃09'17	1°47'52	conjunction	-2870 May 25 j 13:28	9°♃03'34	-1°-21'-43
max. Earth dist.	-2878 May 06 j 21:01	21°♃09'28	30.89349 AU	minimum elong	-2870 May 25 j 13:28	9°♃03'34	1°21'40
retrograde	-2878 Aug 20 j 15:06	23°♃41'18		max. Earth dist.	-2870 May 25 j 05:36	9°♃02'50	30.95124 AU
opposition	-2878 Nov 06 j 10:46	22°♃17'00	-1°-53'-54	retrograde	-2870 Sep 07 j 10:37	11°♃34'19	
min. Earth dist.	-2878 Nov 06 j 09:27	22°♃17'05	28.89853 AU	opposition	-2870 Nov 23 j 21:31	10°♃10'36	-1°-25'-19
direct	-2877 Jan 23 j 19:25	20°♃52'08		min. Earth dist.	-2870 Nov 24 j 04:35	10°♃10'06	28.95479 AU
				direct	-2869 Feb 10 j 18:30	8°♃45'28	
conjunction	-2877 May 09 j 09:23	23°♃23'31	-1°-45'-8				
minimum elong	-2877 May 09 j 09:23	23°♃23'31	1°45'07	conjunction	-2869 May 28 j 03:27	11°♃17'20	-1°-17'-51
max. Earth dist.	-2877 May 09 j 09:24	23°♃23'31	30.90181 AU	minimum elong	-2869 May 28 j 03:28	11°♃17'20	1°17'49
retrograde	-2877 Aug 23 j 03:16	25°♃55'24		max. Earth dist.	-2869 May 27 j 19:31	11°♃16'35	30.95727 AU
opposition	-2877 Nov 08 j 21:04	24°♃31'12	-1°-50'-52	retrograde	-2869 Sep 09 j 22:51	13°♃47'53	
min. Earth dist.	-2877 Nov 08 j 20:50	24°♃31'13	28.90722 AU	opposition	-2869 Nov 26 j 07:36	12°♃24'12	-1°-21'-8
direct	-2876 Jan 26 j 05:45	23°♃06'20		min. Earth dist.	-2869 Nov 26 j 14:53	12°♃23'41	28.96110 AU
				direct	-2868 Feb 13 j 08:55	10°♃59'01	
conjunction	-2876 May 10 j 23:50	25°♃37'50	-1°-42'-13				

Attention, astronomical year style is used: The year -2868 in astronomical counting style is the year 2869 BCE in historical counting style.

conjunction	-2868 May 29 j 17:16	13°♁30'53	-1°-13'-53	direct	-2860 Mar 02 j 06:59	28°♁45'15	
minimum elong	-2868 May 29 j 17:16	13°♁30'53	1°13'50		-2860 May 11 j 19:34	0°♁	
max. Earth dist.	-2868 May 29 j 07:39	13°♁30'00	30.96413 AU				
	-2868 Jul 11 j 08:20	15°♁		conjunction	-2860 Jun 17 j 06:26	1°♁17'27	0°-38'-39
retrograde	-2868 Sep 11 j 10:02	16°♁01'15		minimum elong	-2860 Jun 17 j 06:27	1°♁17'27	0°38'36
	-2868 Nov 14 j 10:14	15°♁♁		max. Earth dist.	-2860 Jun 16 j 14:47	1°♁16'00	31.04558 AU
opposition	-2868 Nov 27 j 17:48	14°♁37'38	-1°-16'-49	retrograde	-2860 Sep 29 j 01:32	3°♁46'34	
min. Earth dist.	-2868 Nov 28 j 01:51	14°♁37'03	28.96857 AU	opposition	-2860 Dec 15 j 04:05	2°♁23'39	0°-38'-49
direct	-2867 Feb 14 j 20:28	13°♁12'23		min. Earth dist.	-2860 Dec 15 j 18:19	2°♁22'39	29.04983 AU
	-2867 May 12 j 03:07	15°♁		direct	-2859 Mar 04 j 21:35	0°♁58'23	
conjunction	-2867 Jun 01 j 07:08	15°♁44'18	-1°-9'-48	conjunction	-2859 Jun 19 j 19:45	3°♁30'35	0°-33'-56
minimum elong	-2867 Jun 01 j 07:08	15°♁44'18	1°09'45	minimum elong	-2859 Jun 19 j 19:45	3°♁30'35	0°33'53
max. Earth dist.	-2867 May 31 j 21:55	15°♁43'26	30.97222 AU	max. Earth dist.	-2859 Jun 19 j 02:15	3°♁28'58	31.05342 AU
retrograde	-2867 Sep 13 j 20:14	18°♁14'28		retrograde	-2859 Oct 01 j 12:44	5°♁59'32	
opposition	-2867 Nov 30 j 04:00	16°♁50'55	-1°-12'-24	opposition	-2859 Dec 17 j 14:28	4°♁36'40	0°-33'-45
min. Earth dist.	-2867 Nov 30 j 12:42	16°♁50'18	28.97725 AU	min. Earth dist.	-2859 Dec 18 j 05:39	4°♁35'37	29.05736 AU
direct	-2866 Feb 17 j 09:16	15°♁25'40		direct	-2858 Mar 07 j 09:27	3°♁11'22	
conjunction	-2866 Jun 03 j 20:46	17°♁57'36	-1°-5'-37	conjunction	-2858 Jun 22 j 09:04	5°♁43'34	0°-29'-10
minimum elong	-2866 Jun 03 j 20:46	17°♁57'36	1°05'34	minimum elong	-2858 Jun 22 j 09:04	5°♁43'34	0°29'06
max. Earth dist.	-2866 Jun 03 j 09:47	17°♁56'35	30.98175 AU	max. Earth dist.	-2858 Jun 21 j 15:47	5°♁41'58	31.06066 AU
retrograde	-2866 Sep 16 j 08:26	20°♁27'36		retrograde	-2858 Oct 03 j 22:54	8°♁12'20	
opposition	-2866 Dec 02 j 14:10	19°♁04'09	-1°-7'-52	opposition	-2858 Dec 20 j 00:50	6°♁49'32	0°-28'-38
min. Earth dist.	-2866 Dec 02 j 22:52	19°♁03'32	28.98746 AU	min. Earth dist.	-2858 Dec 20 j 16:56	6°♁48'24	29.06434 AU
direct	-2865 Feb 19 j 20:09	17°♁38'53		direct	-2857 Mar 09 j 22:53	5°♁24'11	
conjunction	-2865 Jun 06 j 10:24	20°♁10'52	-1°-1'-19	conjunction	-2857 Jun 24 j 21:58	7°♁56'22	0°-24'-22
minimum elong	-2865 Jun 06 j 10:24	20°♁10'52	1°01'17	minimum elong	-2857 Jun 24 j 21:58	7°♁56'22	0°24'19
max. Earth dist.	-2865 Jun 05 j 23:49	20°♁09'53	30.99255 AU	max. Earth dist.	-2857 Jun 24 j 02:50	7°♁54'36	31.06766 AU
retrograde	-2865 Sep 18 j 17:55	22°♁40'44		retrograde	-2857 Oct 06 j 10:48	10°♁24'59	
opposition	-2865 Dec 05 j 00:28	21°♁17'22	-1°-3'-14	opposition	-2857 Dec 22 j 11:08	9°♁02'12	0°-23'-29
min. Earth dist.	-2865 Dec 05 j 10:39	21°♁16'39	28.99861 AU	min. Earth dist.	-2857 Dec 23 j 03:17	9°♁01'04	29.07140 AU
direct	-2864 Feb 22 j 06:54	19°♁52'07		direct	-2856 Mar 11 j 10:45	7°♁36'49	
max. Earth dist.	-2864 Jun 07 j 11:53	22°♁23'02	31.00412 AU				
conjunction	-2864 Jun 08 j 00:02	22°♁24'09	0°-56'-57	conjunction	-2856 Jun 26 j 11:02	10°♁09'00	0°-19'-33
minimum elong	-2864 Jun 08 j 00:03	22°♁24'09	0°56'53	minimum elong	-2856 Jun 26 j 11:02	10°♁09'00	0°19'28
retrograde	-2864 Sep 20 j 04:57	24°♁53'52		max. Earth dist.	-2856 Jun 25 j 16:22	10°♁07'16	31.07480 AU
opposition	-2864 Dec 06 j 10:33	23°♁30'38	0°-58'-31	retrograde	-2856 Oct 07 j 19:32	12°♁37'26	
min. Earth dist.	-2864 Dec 06 j 20:40	23°♁29'55	29.01023 AU	opposition	-2856 Dec 23 j 21:29	11°♁14'43	0°-18'-19
direct	-2863 Feb 23 j 19:17	22°♁05'24		min. Earth dist.	-2856 Dec 24 j 15:00	11°♁13'29	29.07881 AU
				direct	-2855 Mar 13 j 22:21	9°♁49'18	
conjunction	-2863 Jun 10 j 13:48	24°♁37'30	0°-52'-29	conjunction	-2855 Jun 28 j 23:48	12°♁21'28	0°-14'-41
minimum elong	-2863 Jun 10 j 13:48	24°♁37'30	0°52'26	minimum elong	-2855 Jun 28 j 23:48	12°♁21'28	0°14'38
max. Earth dist.	-2863 Jun 10 j 01:12	24°♁36'20	31.01563 AU	behind sun begin	-2855 Jun 28 j 21:13	12°♁21'14	
retrograde	-2863 Sep 22 j 15:03	27°♁07'05		behind sun end	-2855 Jun 29 j 02:24	12°♁21'42	
opposition	-2863 Dec 08 j 21:00	25°♁43'56	0°-53'-42	max. Earth dist.	-2855 Jun 28 j 03:55	12°♁19'38	31.08269 AU
min. Earth dist.	-2863 Dec 09 j 08:59	25°♁43'06	29.02156 AU	retrograde	-2855 Oct 10 j 05:41	14°♁49'46	
direct	-2862 Feb 26 j 06:15	24°♁18'43		opposition	-2855 Dec 26 j 07:51	13°♁27'06	0°-13'-6
				min. Earth dist.	-2855 Dec 27 j 00:43	13°♁25'55	29.08719 AU
conjunction	-2862 Jun 13 j 03:17	26°♁50'51	0°-47'-56	direct	-2854 Mar 16 j 10:40	12°♁01'40	
minimum elong	-2862 Jun 13 j 03:17	26°♁50'51	0°47'52				
max. Earth dist.	-2862 Jun 12 j 13:30	26°♁49'34	31.02666 AU	conjunction	-2854 Jul 01 j 12:26	14°♁33'50	0°-9'-50
retrograde	-2862 Sep 25 j 02:42	29°♁20'18		minimum elong	-2854 Jul 01 j 12:26	14°♁33'50	0°09'45
opposition	-2862 Dec 11 j 07:21	27°♁57'15	0°-48'-48	behind sun begin	-2854 Jul 01 j 07:05	14°♁33'22	
min. Earth dist.	-2862 Dec 11 j 19:18	27°♁56'24	29.03205 AU	behind sun end	-2854 Jul 01 j 17:47	14°♁34'19	
direct	-2861 Feb 28 j 19:17	26°♁32'01		max. Earth dist.	-2854 Jun 30 j 16:49	14°♁32'02	31.09155 AU
				retrograde	-2854 Oct 12 j 14:57	17°♁02'01	
conjunction	-2861 Jun 15 j 16:51	29°♁04'11	0°-43'-20	opposition	-2854 Dec 28 j 18:21	15°♁39'25	0°-7'-53
minimum elong	-2861 Jun 15 j 16:52	29°♁04'11	0°43'17	min. Earth dist.	-2854 Dec 29 j 12:27	15°♁38'09	29.09668 AU
max. Earth dist.	-2861 Jun 15 j 01:41	29°♁02'47	31.03662 AU	direct	-2853 Mar 18 j 20:50	14°♁14'00	
	-2861 Jul 11 j 07:28	0°♁		max. Earth dist.	-2853 Jul 03 j 04:52	16°♁44'18	31.10166 AU
retrograde	-2861 Sep 27 j 13:54	1°♁33'29					
opposition	-2861 Dec 13 j 17:42	0°♁10'30	0°-43'-51	conjunction	-2853 Jul 04 j 01:03	16°♁46'11	0°-4'-58
min. Earth dist.	-2861 Dec 14 j 07:25	0°♁09'32	29.04154 AU	minimum elong	-2853 Jul 04 j 01:02	16°♁46'11	0°04'55
	-2861 Dec 19 j 23:12	30°♁♁		behind sun begin	-2853 Jul 03 j 18:39	16°♁45'36	

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Attention, astronomical year style is used: The year -2853 in astronomical counting style is the year 2854 BCE in historical counting style.

behind sun end	-2853 Jul 04 j 07:26	16°II46'45		conjunction	-2846 Jul 19 j 15:38	2°☾12'39	0°29'07
retrograde	-2853 Oct 15 j 01:38	19°II14'14		minimum elong	-2846 Jul 19 j 15:38	2°☾12'39	0°29'12
opposition	-2853 Dec 31 j 04:34	17°II51'44	0°-2'-39	max. Earth dist.	-2846 Jul 18 j 14:56	2°☾10'21	31.16529 AU
min. Earth dist.	-2853 Dec 31 j 22:09	17°II50'30	29.10714 AU	retrograde	-2846 Oct 30 j 04:37	4°☾39'55	
direct	-2852 Mar 20 j 08:49	16°II26'20		opposition	-2845 Jan 15 j 07:07	3°☾17'48	0°33'35
				min. Earth dist.	-2845 Jan 16 j 04:48	3°☾16'18	29.16838 AU
conjunction	-2852 Jul 05 j 13:40	18°II58'32	0°00'00	direct	-2845 Apr 06 j 01:22	1°☾52'26	
minimum elong	-2852 Jul 05 j 13:40	18°II58'32	0°00'05	max. Earth dist.	-2845 Jul 21 j 03:07	4°☾22'14	31.17060 AU
behind sun begin	-2852 Jul 05 j 07:26	18°II57'59					
behind sun end	-2852 Jul 05 j 19:54	18°II59'05		conjunction	-2845 Jul 22 j 03:39	4°☾24'31	0°33'50
max. Earth dist.	-2852 Jul 04 j 16:48	18°II56'36	31.11243 AU	minimum elong	-2845 Jul 22 j 03:39	4°☾24'31	0°33'55
asc. node	-2852 Jul 06 j 02:18	18°II59'42		retrograde	-2845 Nov 01 j 13:37	6°☾51'39	
retrograde	-2852 Oct 16 j 12:24	21°II26'30		opposition	-2844 Jan 17 j 17:47	5°☾29'32	0°38'36
opposition	-2851 Jan 01 j 15:06	20°II04'05	0°02'34	min. Earth dist.	-2844 Jan 18 j 16:52	5°☾27'56	29.17358 AU
min. Earth dist.	-2851 Jan 02 j 09:55	20°II02'46	29.11817 AU	direct	-2844 Apr 07 j 12:08	4°☾04'08	
direct	-2851 Mar 22 j 20:18	18°II38'44					
max. Earth dist.	-2851 Jul 07 j 05:25	21°II09'02	31.12347 AU	conjunction	-2844 Jul 23 j 15:26	6°☾36'08	0°38'30
				minimum elong	-2844 Jul 23 j 15:26	6°☾36'08	0°38'36
conjunction	-2851 Jul 08 j 02:11	21°II10'58	0°04'58	max. Earth dist.	-2844 Jul 22 j 14:27	6°☾33'49	31.17577 AU
minimum elong	-2851 Jul 08 j 02:10	21°II10'58	0°05'03	retrograde	-2844 Nov 02 j 23:14	9°☾03'09	
behind sun begin	-2851 Jul 07 j 19:48	21°II10'24		opposition	-2843 Jan 19 j 04:30	7°☾41'02	0°43'33
behind sun end	-2851 Jul 08 j 08:32	21°II11'32		min. Earth dist.	-2843 Jan 20 j 02:52	7°☾39'29	29.17878 AU
retrograde	-2851 Oct 18 j 23:30	23°II38'50		direct	-2843 Apr 10 j 00:48	6°☾15'36	
opposition	-2850 Jan 04 j 01:39	22°II16'30	0°07'48	max. Earth dist.	-2843 Jul 25 j 01:42	8°☾45'12	31.18110 AU
min. Earth dist.	-2850 Jan 04 j 20:40	22°II15'10	29.12899 AU				
direct	-2850 Mar 25 j 10:11	20°II51'11		conjunction	-2843 Jul 26 j 02:56	8°☾47'33	0°43'07
				minimum elong	-2843 Jul 26 j 02:55	8°☾47'33	0°43'12
conjunction	-2850 Jul 10 j 14:36	23°II23'26	0°09'50	retrograde	-2843 Nov 05 j 08:51	11°☾14'27	
minimum elong	-2850 Jul 10 j 14:36	23°II23'26	0°09'56	opposition	-2842 Jan 21 j 15:21	9°☾52'21	0°48'27
behind sun begin	-2850 Jul 10 j 09:18	23°II22'57		min. Earth dist.	-2842 Jan 22 j 14:23	9°☾50'45	29.18464 AU
behind sun end	-2850 Jul 10 j 19:53	23°II23'54		direct	-2842 Apr 12 j 11:55	8°☾26'53	
max. Earth dist.	-2850 Jul 09 j 16:23	23°II21'22	31.13400 AU				
retrograde	-2850 Oct 21 j 10:54	25°II51'12		conjunction	-2842 Jul 28 j 14:24	10°☾58'47	0°47'40
opposition	-2849 Jan 06 j 12:14	24°II28'57	0°13'01	minimum elong	-2842 Jul 28 j 14:23	10°☾58'47	0°47'45
min. Earth dist.	-2849 Jan 07 j 07:56	24°II27'34	29.13927 AU	max. Earth dist.	-2842 Jul 27 j 13:51	10°☾56'30	31.18740 AU
direct	-2849 Mar 27 j 21:16	23°II03'38		retrograde	-2842 Nov 07 j 18:44	13°☾25'36	
max. Earth dist.	-2849 Jul 12 j 05:11	25°II33'52	31.14367 AU	opposition	-2841 Jan 24 j 02:05	12°☾03'31	0°53'16
				min. Earth dist.	-2841 Jan 25 j 00:43	12°☾01'57	29.19145 AU
conjunction	-2849 Jul 13 j 03:04	25°II35'54	0°14'41	direct	-2841 Apr 15 j 00:50	10°☾38'04	
minimum elong	-2849 Jul 13 j 03:04	25°II35'53	0°14'46	max. Earth dist.	-2841 Jul 30 j 00:26	13°☾07'35	31.19475 AU
behind sun begin	-2849 Jul 13 j 00:34	25°II35'40					
behind sun end	-2849 Jul 13 j 05:33	25°II36'07		conjunction	-2841 Jul 31 j 01:42	13°☾09'56	0°52'08
retrograde	-2849 Oct 23 j 21:35	28°II03'33		minimum elong	-2841 Jul 31 j 01:42	13°☾09'56	0°52'12
opposition	-2848 Jan 08 j 22:58	26°II41'21	0°18'13	retrograde	-2841 Nov 10 j 05:53	15°☾36'41	
min. Earth dist.	-2848 Jan 09 j 19:38	26°II39'55	29.14828 AU	opposition	-2840 Jan 26 j 12:54	14°☾14'39	0°58'00
direct	-2848 Mar 29 j 11:19	25°II16'04		min. Earth dist.	-2840 Jan 27 j 11:27	14°☾13'06	29.19944 AU
				direct	-2840 Apr 16 j 11:23	12°☾49'14	
conjunction	-2848 Jul 14 j 15:22	27°II48'18	0°19'32				
minimum elong	-2848 Jul 14 j 15:22	27°II48'17	0°19'38	conjunction	-2840 Aug 01 j 13:04	15°☾21'05	0°56'32
max. Earth dist.	-2848 Jul 13 j 15:36	27°II46'05	31.15205 AU	minimum elong	-2840 Aug 01 j 13:04	15°☾21'05	0°56'37
	-2848 Sep 24 j 22:42	0°☾		max. Earth dist.	-2840 Jul 31 j 12:57	15°☾18'51	31.20313 AU
retrograde	-2848 Oct 25 j 09:46	0°☾15'49		retrograde	-2840 Nov 11 j 16:12	17°☾47'48	
	-2848 Nov 25 j 04:46	30°RII		opposition	-2839 Jan 27 j 23:50	16°☾25'50	1°02'40
opposition	-2847 Jan 10 j 09:35	28°II53'40	0°23'23	min. Earth dist.	-2839 Jan 28 j 22:43	16°☾24'15	29.20811 AU
min. Earth dist.	-2847 Jan 11 j 06:19	28°II52'14	29.15609 AU	direct	-2839 Apr 19 j 00:59	15°☾00'29	
direct	-2847 Apr 01 j 00:12	27°II28'22		max. Earth dist.	-2839 Aug 02 j 23:03	17°☾29'59	31.21207 AU
max. Earth dist.	-2847 Jul 16 j 04:21	29°II58'24	31.15917 AU				
	-2847 Jul 16 j 21:37	0°☾		conjunction	-2839 Aug 04 j 00:14	17°☾32'19	1°00'51
				minimum elong	-2839 Aug 04 j 00:14	17°☾32'19	1°00'55
conjunction	-2847 Jul 17 j 03:45	0°☾00'34	0°24'21	retrograde	-2839 Nov 14 j 04:38	19°☾59'00	
minimum elong	-2847 Jul 17 j 03:44	0°☾00'34	0°24'25	opposition	-2838 Jan 30 j 10:48	18°☾37'07	1°07'14
retrograde	-2847 Oct 27 j 18:30	2°☾27'58		min. Earth dist.	-2838 Jan 31 j 09:04	18°☾35'34	29.21723 AU
opposition	-2846 Jan 12 j 20:29	1°☾05'50	0°28'30	direct	-2838 Apr 21 j 13:15	17°☾11'49	
min. Earth dist.	-2846 Jan 13 j 18:38	1°☾04'18	29.16267 AU	max. Earth dist.	-2838 Aug 05 j 11:09	19°☾41'24	31.22098 AU
	-2846 Feb 27 j 00:05	30°RII					
direct	-2846 Apr 03 j 12:46	29°II40'31		conjunction	-2838 Aug 06 j 11:22	19°☾43'39	1°05'04
	-2846 May 08 j 10:38	0°☾		minimum elong	-2838 Aug 06 j 11:22	19°☾43'39	1°05'10

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Attention, astronomical year style is used: The year -2838 in astronomical counting style is the year 2839 BCE in historical counting style.

retrograde	-2838 Nov 16 j 13:48	22°♄10'19		retrograde	-2830 Dec 03 j 23:20	9°♃39'54	
opposition	-2837 Feb 01 j 21:58	20°♄48'30	1°11'42	opposition	-2829 Feb 19 j 16:20	8°♃18'04	1°43'07
min. Earth dist.	-2837 Feb 02 j 21:21	20°♄46'53	29.22594 AU	min. Earth dist.	-2829 Feb 20 j 14:45	8°♃16'32	29.26401 AU
direct	-2837 Apr 24 j 01:26	19°♄23'16		direct	-2829 May 12 j 00:57	6°♃52'57	
conjunction	-2837 Aug 08 j 22:28	21°♄55'05	1°09'12	conjunction	-2829 Aug 26 j 11:56	9°♃24'10	1°38'08
minimum elong	-2837 Aug 08 j 22:27	21°♄55'05	1°09'16	minimum elong	-2829 Aug 26 j 11:56	9°♃24'10	1°38'11
max. Earth dist.	-2837 Aug 07 j 21:16	21°♄52'44	31.22932 AU	max. Earth dist.	-2829 Aug 25 j 12:24	9°♃21'58	31.26514 AU
retrograde	-2837 Nov 19 j 00:20	24°♄21'43		retrograde	-2829 Dec 06 j 08:21	11°♃50'31	
opposition	-2836 Feb 04 j 08:55	22°♄59'57	1°16'03	opposition	-2828 Feb 22 j 03:46	10°♃28'42	1°46'26
min. Earth dist.	-2836 Feb 05 j 07:37	22°♄58'23	29.23383 AU	min. Earth dist.	-2828 Feb 23 j 02:40	10°♃27'08	29.26892 AU
direct	-2836 Apr 25 j 13:50	21°♄34'46		direct	-2828 May 13 j 12:57	9°♃03'37	
max. Earth dist.	-2836 Aug 09 j 08:46	24°♄04'15	31.23652 AU				
conjunction	-2836 Aug 10 j 09:40	24°♄06'34	1°13'14	conjunction	-2828 Aug 27 j 22:04	11°♃34'46	1°41'09
minimum elong	-2836 Aug 10 j 09:39	24°♄06'34	1°13'19	minimum elong	-2828 Aug 27 j 22:04	11°♃34'46	1°41'13
retrograde	-2836 Nov 20 j 10:07	26°♄33'10		max. Earth dist.	-2828 Aug 26 j 22:23	11°♃32'33	31.27060 AU
opposition	-2835 Feb 05 j 20:18	25°♄11'26	1°20'18	retrograde	-2828 Dec 07 j 19:19	14°♃01'07	
min. Earth dist.	-2835 Feb 06 j 20:12	25°♄09'48	29.24057 AU	opposition	-2827 Feb 23 j 15:16	12°♃39'19	1°49'35
direct	-2835 Apr 28 j 00:36	23°♄46'18		min. Earth dist.	-2827 Feb 24 j 12:40	12°♃37'51	29.27480 AU
conjunction	-2835 Aug 12 j 20:33	26°♄18'02	1°17'10	direct	-2827 May 16 j 01:55	11°♃14'18	
minimum elong	-2835 Aug 12 j 20:33	26°♄18'02	1°17'13	max. Earth dist.	-2827 Aug 29 j 09:28	13°♃43'16	31.27672 AU
max. Earth dist.	-2835 Aug 11 j 19:22	26°♄15'41	31.24261 AU	conjunction	-2827 Aug 30 j 08:08	13°♃45'24	1°44'02
retrograde	-2835 Nov 22 j 19:37	28°♄44'36		minimum elong	-2827 Aug 30 j 08:08	13°♃45'24	1°44'05
opposition	-2834 Feb 08 j 07:35	27°♄22'54	1°24'26	retrograde	-2827 Oct 04 j 01:43	15°♃	
min. Earth dist.	-2834 Feb 09 j 06:45	27°♄21'18	29.24599 AU	retrograde	-2827 Dec 10 j 05:36	16°♃11'46	
direct	-2834 Apr 30 j 13:18	25°♄57'46		opposition	-2826 Feb 20 j 00:07	15°♃	
max. Earth dist.	-2834 Aug 14 j 05:50	28°♄27'03	31.24736 AU	opposition	-2826 Feb 26 j 03:01	14°♃50'00	1°52'35
conjunction	-2834 Aug 15 j 07:29	28°♄29'27	1°20'58	min. Earth dist.	-2826 Feb 27 j 00:58	14°♃48'30	29.28121 AU
minimum elong	-2834 Aug 15 j 07:28	28°♄29'27	1°21'03	direct	-2826 May 18 j 13:15	13°♃25'04	
retrograde	-2834 Sep 27 j 16:00	0°♃			-2826 Aug 07 j 04:42	15°♃	
retrograde	-2834 Nov 25 j 05:07	0°♃55'58		conjunction	-2826 Sep 01 j 18:12	15°♃56'06	1°46'46
opposition	-2833 Jan 25 j 21:08	30°♃		minimum elong	-2826 Sep 01 j 18:11	15°♃56'06	1°46'50
min. Earth dist.	-2833 Feb 10 j 18:49	29°♄34'15	1°28'26	max. Earth dist.	-2826 Aug 31 j 19:55	15°♃54'00	31.28317 AU
direct	-2833 Feb 11 j 18:49	29°♄32'37	29.25037 AU	retrograde	-2826 Dec 12 j 15:04	18°♃22'30	
direct	-2833 May 02 j 23:57	28°♄09'08		opposition	-2825 Feb 28 j 14:31	17°♃00'46	1°55'25
conjunction	-2833 Aug 17 j 18:19	0°♃40'44	1°24'39	min. Earth dist.	-2825 Mar 01 j 11:22	16°♃59'21	29.28750 AU
minimum elong	-2833 Aug 17 j 18:18	0°♃40'44	1°24'43	direct	-2825 May 21 j 01:42	15°♃35'54	
max. Earth dist.	-2833 Aug 16 j 17:14	0°♃38'23	31.25120 AU	max. Earth dist.	-2825 Sep 03 j 05:52	18°♃04'47	31.28911 AU
retrograde	-2833 Nov 27 j 14:31	3°♃07'12		conjunction	-2825 Sep 04 j 04:17	18°♃06'53	1°49'21
opposition	-2832 Feb 13 j 06:09	1°♃45'28	1°32'19	minimum elong	-2825 Sep 04 j 04:16	18°♃06'53	1°49'24
min. Earth dist.	-2832 Feb 14 j 05:55	1°♃43'51	29.25373 AU	retrograde	-2825 Dec 15 j 01:06	20°♃33'21	
direct	-2832 May 04 j 12:16	0°♃20'21		opposition	-2824 Mar 02 j 02:25	19°♃11'38	1°58'05
max. Earth dist.	-2832 Aug 18 j 03:05	2°♃49'26	31.25426 AU	min. Earth dist.	-2824 Mar 02 j 23:42	19°♃10'11	29.29317 AU
conjunction	-2832 Aug 19 j 04:52	2°♃51'51	1°28'13	direct	-2824 May 22 j 11:52	17°♃46'51	
minimum elong	-2832 Aug 19 j 04:52	2°♃51'51	1°28'19	conjunction	-2824 Sep 05 j 14:20	20°♃17'46	1°51'46
retrograde	-2832 Nov 29 j 01:28	5°♃18'17		minimum elong	-2824 Sep 05 j 14:20	20°♃17'46	1°51'50
opposition	-2831 Feb 14 j 17:30	3°♃56'31	1°36'04	max. Earth dist.	-2824 Sep 04 j 16:53	20°♃15'45	31.29418 AU
min. Earth dist.	-2831 Feb 15 j 17:05	3°♃54'54	29.25680 AU	retrograde	-2824 Dec 16 j 10:39	22°♃44'16	
direct	-2831 May 06 j 22:55	2°♃31'23		opposition	-2823 Mar 04 j 14:24	21°♃22'35	2°00'36
conjunction	-2831 Aug 21 j 15:26	5°♃02'47	1°31'40	min. Earth dist.	-2823 Mar 05 j 11:15	21°♃21'10	29.29759 AU
minimum elong	-2831 Aug 21 j 15:25	5°♃02'47	1°31'43	direct	-2823 May 24 j 23:47	19°♃57'51	
max. Earth dist.	-2831 Aug 20 j 15:03	5°♃00'30	31.25727 AU	max. Earth dist.	-2823 Sep 07 j 02:11	22°♃26'37	31.29792 AU
retrograde	-2831 Dec 01 j 11:27	7°♃29'10		conjunction	-2823 Sep 08 j 00:19	22°♃28'42	1°54'01
opposition	-2830 Feb 17 j 04:58	6°♃07'22	1°39'40	minimum elong	-2823 Sep 08 j 00:19	22°♃28'42	1°54'04
min. Earth dist.	-2830 Feb 18 j 04:34	6°♃05'45	29.26000 AU	retrograde	-2823 Dec 18 j 22:15	24°♃55'15	
direct	-2830 May 09 j 12:44	4°♃42'14		opposition	-2822 Mar 07 j 02:24	23°♃33'33	2°02'55
max. Earth dist.	-2830 Aug 23 j 00:35	7°♃11'12	31.26078 AU	min. Earth dist.	-2822 Mar 07 j 22:59	23°♃32'09	29.30077 AU
conjunction	-2830 Aug 24 j 01:34	7°♃13'32	1°34'58	direct	-2822 May 27 j 10:05	22°♃08'52	
minimum elong	-2830 Aug 24 j 01:34	7°♃13'32	1°35'02	conjunction	-2822 Sep 10 j 10:20	24°♃39'38	1°56'07
				minimum elong	-2822 Sep 10 j 10:19	24°♃39'38	1°56'10
				max. Earth dist.	-2822 Sep 09 j 13:27	24°♃37'41	31.30025 AU

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Attention, astronomical year style is used: The year -2822 in astronomical counting style is the year 2823 BCE in historical counting style.

retrograde	-2822 Dec 21 j 08:26	27° $\Omega$ 06'14		retrograde	-2813 Jan 07 j 19:49	14° $\mp$ 31'58	
opposition	-2821 Mar 09 j 14:30	25° $\Omega$ 44'31	2°05'04	opposition	-2813 Mar 27 j 15:51	13° $\mp$ 09'58	2°15'38
min. Earth dist.	-2821 Mar 10 j 11:18	25° $\Omega$ 43'06	29.30230 AU	min. Earth dist.	-2813 Mar 28 j 07:01	13° $\mp$ 08'57	29.30203 AU
direct	-2821 May 29 j 23:09	24° $\Omega$ 19'53		direct	-2813 Jun 16 j 21:24	11° $\mp$ 45'41	
conjunction	-2821 Sep 12 j 20:10	26° $\Omega$ 50'33	1°58'03	conjunction	-2813 Sep 29 j 23:58	14° $\mp$ 15'37	2°07'13
minimum elong	-2821 Sep 12 j 20:10	26° $\Omega$ 50'33	1°58'05	minimum elong	-2813 Sep 29 j 23:58	14° $\mp$ 15'37	2°07'14
max. Earth dist.	-2821 Sep 11 j 22:25	26° $\Omega$ 48'31	31.30108 AU	max. Earth dist.	-2813 Sep 29 j 09:09	14° $\mp$ 14'14	31.30096 AU
retrograde	-2821 Dec 23 j 20:36	29° $\Omega$ 17'11		retrograde	-2812 Jan 10 j 05:52	16° $\mp$ 42'49	
opposition	-2820 Mar 11 j 02:26	27° $\Omega$ 55'26	2°07'03	opposition	-2812 Mar 29 j 04:18	15° $\mp$ 20'49	2°16'05
min. Earth dist.	-2820 Mar 11 j 22:15	27° $\Omega$ 54'05	29.30251 AU	min. Earth dist.	-2812 Mar 29 j 19:17	15° $\mp$ 19'48	29.30292 AU
direct	-2820 May 31 j 10:52	26° $\Omega$ 30'48		direct	-2812 Jun 18 j 09:09	13° $\mp$ 56'37	
max. Earth dist.	-2820 Sep 13 j 09:35	28° $\Omega$ 59'28	31.30066 AU				
conjunction	-2820 Sep 14 j 06:04	29° $\Omega$ 01'23	1°59'48	conjunction	-2812 Oct 01 j 09:15	16° $\mp$ 26'29	2°07'33
minimum elong	-2820 Sep 14 j 06:04	29° $\Omega$ 01'23	1°59'52	minimum elong	-2812 Oct 01 j 09:15	16° $\mp$ 26'29	2°07'34
	-2820 Oct 10 j 22:36	0° $\mp$		max. Earth dist.	-2812 Sep 30 j 18:02	16° $\mp$ 25'03	31.30158 AU
retrograde	-2820 Dec 25 j 06:12	1° $\mp$ 28'03		retrograde	-2811 Jan 11 j 18:23	18° $\mp$ 53'47	
opposition	-2819 Mar 13 j 14:42	0° $\mp$ 06'15	2°08'50	opposition	-2811 Mar 31 j 16:49	17° $\mp$ 31'46	2°16'21
min. Earth dist.	-2819 Mar 14 j 11:04	0° $\mp$ 04'52	29.30168 AU	min. Earth dist.	-2811 Apr 01 j 06:27	17° $\mp$ 30'51	29.30312 AU
	-2819 Mar 17 j 10:51	30° $\mathcal{R}$ $\Omega$		direct	-2811 Jun 20 j 19:24	16° $\mp$ 07'38	
direct	-2819 Jun 02 j 23:02	28° $\Omega$ 41'39		conjunction	-2811 Oct 03 j 18:34	18° $\mp$ 37'25	2°07'42
	-2819 Aug 14 j 06:42	0° $\mp$		minimum elong	-2811 Oct 03 j 18:34	18° $\mp$ 37'25	2°07'42
conjunction	-2819 Sep 16 j 15:33	1° $\mp$ 12'07	2°01'24	max. Earth dist.	-2811 Oct 03 j 04:44	18° $\mp$ 36'07	31.30114 AU
minimum elong	-2819 Sep 16 j 15:32	1° $\mp$ 12'07	2°01'26	retrograde	-2810 Jan 14 j 04:51	21° $\mp$ 04'50	
max. Earth dist.	-2819 Sep 15 j 19:05	1° $\mp$ 10'11	31.29959 AU	opposition	-2810 Apr 03 j 05:31	19° $\mp$ 42'46	2°16'25
retrograde	-2819 Dec 27 j 17:21	3° $\mp$ 38'48		min. Earth dist.	-2810 Apr 03 j 19:38	19° $\mp$ 41'49	29.30204 AU
opposition	-2818 Mar 16 j 02:45	2° $\mp$ 16'56	2°10'27	direct	-2810 Jun 23 j 07:05	18° $\mp$ 18'42	
min. Earth dist.	-2818 Mar 16 j 21:33	2° $\mp$ 15'40	29.30046 AU	conjunction	-2810 Oct 06 j 03:55	20° $\mp$ 48'23	2°07'40
direct	-2818 Jun 05 j 12:39	0° $\mp$ 52'21		minimum elong	-2810 Oct 06 j 03:55	20° $\mp$ 48'23	2°07'41
max. Earth dist.	-2818 Sep 18 j 05:42	3° $\mp$ 20'53	31.29829 AU	max. Earth dist.	-2810 Oct 05 j 14:04	20° $\mp$ 47'05	31.29942 AU
conjunction	-2818 Sep 19 j 01:08	3° $\mp$ 22'43	2°02'49	retrograde	-2809 Jan 16 j 17:05	23° $\mp$ 15'53	
minimum elong	-2818 Sep 19 j 01:08	3° $\mp$ 22'43	2°02'51	opposition	-2809 Apr 05 j 17:58	21° $\mp$ 53'47	2°16'17
retrograde	-2818 Dec 30 j 03:51	5° $\mp$ 49'27		min. Earth dist.	-2809 Apr 06 j 06:37	21° $\mp$ 52'55	29.29952 AU
opposition	-2817 Mar 18 j 14:50	4° $\mp$ 27'32	2°11'52	direct	-2809 Jun 25 j 20:26	20° $\mp$ 29'44	
min. Earth dist.	-2817 Mar 19 j 09:56	4° $\mp$ 26'14	29.29944 AU	conjunction	-2809 Oct 08 j 13:20	22° $\mp$ 59'20	2°07'27
direct	-2817 Jun 08 j 00:35	3° $\mp$ 02'58		minimum elong	-2809 Oct 08 j 13:20	22° $\mp$ 59'20	2°07'27
conjunction	-2817 Sep 21 j 10:37	5° $\mp$ 33'14	2°04'03	max. Earth dist.	-2809 Oct 08 j 00:06	22° $\mp$ 58'05	31.29609 AU
minimum elong	-2817 Sep 21 j 10:37	5° $\mp$ 33'14	2°04'04	retrograde	-2808 Jan 19 j 04:34	25° $\mp$ 26'55	
max. Earth dist.	-2817 Sep 20 j 16:05	5° $\mp$ 31'29	31.29758 AU	opposition	-2808 Apr 07 j 06:47	24° $\mp$ 04'44	2°15'58
retrograde	-2816 Jan 01 j 12:57	8° $\mp$ 00'01		min. Earth dist.	-2808 Apr 07 j 19:54	24° $\mp$ 03'51	29.29550 AU
opposition	-2816 Mar 20 j 02:59	6° $\mp$ 38'04	2°13'06	direct	-2808 Jun 27 j 08:23	22° $\mp$ 40'43	
min. Earth dist.	-2816 Mar 20 j 20:18	6° $\mp$ 36'53	29.29903 AU	conjunction	-2808 Oct 09 j 22:32	25° $\mp$ 10'12	2°07'03
direct	-2816 Jun 09 j 13:27	5° $\mp$ 13'33		minimum elong	-2808 Oct 09 j 22:33	25° $\mp$ 10'12	2°07'05
conjunction	-2816 Sep 22 j 19:56	7° $\mp$ 43'43	2°05'07	max. Earth dist.	-2808 Oct 09 j 10:10	25° $\mp$ 09'02	31.29147 AU
minimum elong	-2816 Sep 22 j 19:55	7° $\mp$ 43'43	2°05'09	retrograde	-2807 Jan 20 j 14:11	27° $\mp$ 37'52	
max. Earth dist.	-2816 Sep 22 j 01:47	7° $\mp$ 42'01	31.29757 AU	opposition	-2807 Apr 09 j 19:31	26° $\mp$ 15'36	2°15'27
retrograde	-2815 Jan 02 j 22:45	10° $\mp$ 10'35		min. Earth dist.	-2807 Apr 10 j 07:04	26° $\mp$ 14'49	29.29018 AU
opposition	-2815 Mar 22 j 15:18	8° $\mp$ 48'37	2°14'08	direct	-2807 Jun 29 j 21:44	24° $\mp$ 51'35	
min. Earth dist.	-2815 Mar 23 j 08:19	8° $\mp$ 47'28	29.29955 AU	conjunction	-2807 Oct 12 j 07:43	27° $\mp$ 20'56	2°06'29
direct	-2815 Jun 11 j 23:49	7° $\mp$ 24'10		minimum elong	-2807 Oct 12 j 07:43	27° $\mp$ 20'56	2°06'29
conjunction	-2815 Sep 25 j 05:21	9° $\mp$ 54'15	2°06'00	max. Earth dist.	-2807 Oct 11 j 19:26	27° $\mp$ 19'46	31.28574 AU
minimum elong	-2815 Sep 25 j 05:21	9° $\mp$ 54'15	2°06'01	retrograde	-2806 Jan 23 j 00:36	29° $\mp$ 48'40	
max. Earth dist.	-2815 Sep 24 j 12:55	9° $\mp$ 52'42	31.29847 AU	opposition	-2806 Apr 12 j 08:11	28° $\mp$ 26'18	2°14'45
retrograde	-2814 Jan 05 j 08:06	12° $\mp$ 21'13		min. Earth dist.	-2806 Apr 12 j 19:37	28° $\mp$ 25'32	29.28424 AU
opposition	-2814 Mar 25 j 03:33	10° $\mp$ 59'14	2°14'59	direct	-2806 Jul 02 j 09:02	27° $\mp$ 02'18	
min. Earth dist.	-2814 Mar 25 j 19:31	10° $\mp$ 58'09	29.30065 AU	conjunction	-2806 Oct 14 j 16:50	29° $\mp$ 31'31	2°05'44
direct	-2814 Jun 14 j 11:18	9° $\mp$ 34'52		minimum elong	-2806 Oct 14 j 16:51	29° $\mp$ 31'31	2°05'45
conjunction	-2814 Sep 27 j 14:35	12° $\mp$ 04'53	2°06'42	max. Earth dist.	-2806 Oct 14 j 06:21	29° $\mp$ 30'31	31.27966 AU
minimum elong	-2814 Sep 27 j 14:35	12° $\mp$ 04'53	2°06'44	retrograde	-2806 Oct 27 j 08:06	0° $\Omega$	
max. Earth dist.	-2814 Sep 26 j 22:00	12° $\mp$ 03'19	31.29977 AU	opposition	-2805 Jan 25 j 09:49	1° $\Omega$ 59'20	
					-2805 Apr 14 j 20:52	0° $\Omega$ 36'53	2°13'51

Attention, astronomical year style is used: The year -2805 in astronomical counting style is the year 2806 BCE in historical counting style.

min. Earth dist.	-2805 Apr 15 j 07:06	0° <u>♁</u> 36'11	29.27806 AU	direct	-2797 Jul 22 j 15:27	16° <u>♁</u> 40'07	
	-2805 May 08 j 10:05	30° <u>♁</u> 17					
direct	-2805 Jul 04 j 21:48	29° <u>♁</u> 12'53		conjunction	-2797 Nov 03 j 02:13	19° <u>♁</u> 08'39	1°51'02
	-2805 Aug 28 j 10:33	0° <u>♁</u>		minimum elong	-2797 Nov 03 j 02:14	19° <u>♁</u> 08'39	1°50'59
				max. Earth dist.	-2797 Nov 03 j 00:18	19° <u>♁</u> 08'28	31.24285 AU
conjunction	-2805 Oct 17 j 01:44	1° <u>♁</u> 41'58	2°04'48	retrograde	-2796 Feb 14 j 16:24	21° <u>♁</u> 37'49	
minimum elong	-2805 Oct 17 j 01:44	1° <u>♁</u> 41'58	2°04'47	opposition	-2796 May 04 j 16:46	20° <u>♁</u> 14'59	1°57'19
max. Earth dist.	-2805 Oct 16 j 15:19	1° <u>♁</u> 40'59	31.27372 AU	min. Earth dist.	-2796 May 04 j 18:32	20° <u>♁</u> 14'51	29.24068 AU
retrograde	-2804 Jan 27 j 21:06	4° <u>♁</u> 09'54		direct	-2796 Jul 24 j 04:35	18° <u>♁</u> 51'36	
opposition	-2804 Apr 16 j 09:34	2° <u>♁</u> 47'21	2°12'46				
min. Earth dist.	-2804 Apr 16 j 18:35	2° <u>♁</u> 46'45	29.27253 AU	conjunction	-2796 Nov 04 j 11:24	21° <u>♁</u> 20'03	1°48'33
direct	-2804 Jul 06 j 08:10	1° <u>♁</u> 23'24		minimum elong	-2796 Nov 04 j 11:24	21° <u>♁</u> 20'03	1°48'32
				max. Earth dist.	-2796 Nov 04 j 09:08	21° <u>♁</u> 19'50	31.23606 AU
conjunction	-2804 Oct 18 j 10:49	3° <u>♁</u> 52'22	2°03'42	retrograde	-2795 Feb 16 j 04:06	23° <u>♁</u> 49'22	
minimum elong	-2804 Oct 18 j 10:49	3° <u>♁</u> 52'22	2°03'42	opposition	-2795 May 07 j 05:53	22° <u>♁</u> 26'26	1°54'35
max. Earth dist.	-2804 Oct 18 j 02:35	3° <u>♁</u> 51'35	31.26861 AU	min. Earth dist.	-2795 May 07 j 06:52	22° <u>♁</u> 26'22	29.23328 AU
retrograde	-2803 Jan 29 j 06:49	6° <u>♁</u> 20'26		direct	-2795 Jul 26 j 15:08	21° <u>♁</u> 03'05	
opposition	-2803 Apr 18 j 22:23	4° <u>♁</u> 57'49	2°11'29				
min. Earth dist.	-2803 Apr 19 j 06:37	4° <u>♁</u> 57'16	29.26787 AU	conjunction	-2795 Nov 06 j 20:40	23° <u>♁</u> 31'25	1°45'55
direct	-2803 Jul 08 j 19:36	3° <u>♁</u> 33'55		minimum elong	-2795 Nov 06 j 20:40	23° <u>♁</u> 31'25	1°45'53
				max. Earth dist.	-2795 Nov 06 j 20:09	23° <u>♁</u> 31'22	31.22809 AU
conjunction	-2803 Oct 20 j 19:38	6° <u>♁</u> 02'48	2°02'24	retrograde	-2794 Feb 18 j 13:23	26° <u>♁</u> 00'52	
minimum elong	-2803 Oct 20 j 19:38	6° <u>♁</u> 02'48	2°02'23	opposition	-2794 May 09 j 19:00	24° <u>♁</u> 37'50	1°51'42
max. Earth dist.	-2803 Oct 20 j 11:36	6° <u>♁</u> 02'02	31.26458 AU	min. Earth dist.	-2794 May 09 j 19:36	24° <u>♁</u> 37'48	29.22475 AU
retrograde	-2802 Jan 31 j 19:13	8° <u>♁</u> 31'00		direct	-2794 Jul 29 j 03:02	23° <u>♁</u> 14'29	
opposition	-2802 Apr 21 j 11:04	7° <u>♁</u> 08'21	2°10'01				
min. Earth dist.	-2802 Apr 21 j 17:22	7° <u>♁</u> 07'56	29.26424 AU	conjunction	-2794 Nov 09 j 05:45	25° <u>♁</u> 42'43	1°43'08
direct	-2802 Jul 11 j 05:14	5° <u>♁</u> 44'31		minimum elong	-2794 Nov 09 j 05:46	25° <u>♁</u> 42'43	1°43'06
				max. Earth dist.	-2794 Nov 09 j 05:13	25° <u>♁</u> 42'40	31.21940 AU
conjunction	-2802 Oct 23 j 04:42	8° <u>♁</u> 13'20	2°00'57	retrograde	-2793 Feb 21 j 01:35	28° <u>♁</u> 12'16	
minimum elong	-2802 Oct 23 j 04:42	8° <u>♁</u> 13'20	2°00'56	opposition	-2793 May 12 j 07:52	26° <u>♁</u> 49'08	1°48'39
max. Earth dist.	-2802 Oct 22 j 22:23	8° <u>♁</u> 12'45	31.26129 AU	min. Earth dist.	-2793 May 12 j 06:48	26° <u>♁</u> 49'12	29.21589 AU
retrograde	-2801 Feb 03 j 06:02	10° <u>♁</u> 41'42		direct	-2793 Jul 31 j 13:06	25° <u>♁</u> 25'47	
opposition	-2801 Apr 23 j 23:49	9° <u>♁</u> 19'02	2°08'21				
min. Earth dist.	-2801 Apr 24 j 06:06	9° <u>♁</u> 18'36	29.26120 AU	conjunction	-2793 Nov 11 j 14:56	27° <u>♁</u> 53'54	1°40'13
direct	-2801 Jul 13 j 16:09	7° <u>♁</u> 55'17		minimum elong	-2793 Nov 11 j 14:56	27° <u>♁</u> 53'54	1°40'10
				max. Earth dist.	-2793 Nov 11 j 16:01	27° <u>♁</u> 54'00	31.21057 AU
conjunction	-2801 Oct 25 j 13:41	10° <u>♁</u> 24'03	1°59'18				
minimum elong	-2801 Oct 25 j 13:41	10° <u>♁</u> 24'03	1°59'17	retrograde	-2792 Jan 16 j 14:55	0° <u>♁</u>	
max. Earth dist.	-2801 Oct 25 j 08:04	10° <u>♁</u> 23'31	31.25856 AU		-2792 Feb 23 j 12:18	0° <u>♁</u> 23'34	
retrograde	-2800 Feb 05 j 19:04	12° <u>♁</u> 52'34		opposition	-2792 Apr 02 j 19:49	30° <u>♁</u>	
opposition	-2800 Apr 25 j 12:38	11° <u>♁</u> 29'53	2°06'30	min. Earth dist.	-2792 May 13 j 21:04	29° <u>♁</u> 00'20	1°45'27
min. Earth dist.	-2800 Apr 25 j 16:56	11° <u>♁</u> 29'35	29.25843 AU	direct	-2792 May 13 j 19:48	29° <u>♁</u> 00'25	29.20727 AU
direct	-2800 Jul 15 j 04:28	10° <u>♁</u> 06'14			-2792 Aug 02 j 00:25	27° <u>♁</u> 36'59	
					-2792 Nov 10 j 19:16	0° <u>♁</u>	
conjunction	-2800 Oct 26 j 22:39	12° <u>♁</u> 34'57	1°57'29	conjunction	-2792 Nov 12 j 23:58	0° <u>♁</u> 05'00	1°37'09
minimum elong	-2800 Oct 26 j 22:39	12° <u>♁</u> 34'57	1°57'29	minimum elong	-2792 Nov 12 j 23:58	0° <u>♁</u> 05'00	1°37'06
max. Earth dist.	-2800 Oct 26 j 18:00	12° <u>♁</u> 34'31	31.25572 AU	max. Earth dist.	-2792 Nov 13 j 02:05	0° <u>♁</u> 05'12	31.20244 AU
retrograde	-2799 Feb 07 j 07:37	15° <u>♁</u> 03'39		retrograde	-2791 Feb 25 j 01:11	2° <u>♁</u> 34'48	
opposition	-2799 Apr 28 j 01:45	13° <u>♁</u> 40'56	2°04'28	opposition	-2791 May 16 j 10:04	1° <u>♁</u> 11'28	1°42'05
min. Earth dist.	-2799 Apr 28 j 06:12	13° <u>♁</u> 40'38	29.25545 AU	min. Earth dist.	-2791 May 16 j 06:36	1° <u>♁</u> 11'42	29.19949 AU
direct	-2799 Jul 17 j 15:22	12° <u>♁</u> 17'22			-2791 Jul 08 j 05:27	30° <u>♁</u>	
				direct	-2791 Aug 04 j 12:00	29° <u>♁</u> 48'09	
conjunction	-2799 Oct 29 j 07:50	14° <u>♁</u> 46'02	1°55'30		-2791 Aug 31 j 04:55	0° <u>♁</u>	
minimum elong	-2799 Oct 29 j 07:50	14° <u>♁</u> 46'02	1°55'28				
max. Earth dist.	-2799 Oct 29 j 04:22	14° <u>♁</u> 45'43	31.25252 AU	conjunction	-2791 Nov 15 j 09:09	2° <u>♁</u> 16'05	1°33'56
retrograde	-2798 Feb 09 j 18:13	17° <u>♁</u> 14'54		minimum elong	-2791 Nov 15 j 09:09	2° <u>♁</u> 16'05	1°33'53
opposition	-2798 Apr 30 j 14:34	15° <u>♁</u> 52'10	2°02'16	max. Earth dist.	-2791 Nov 15 j 12:15	2° <u>♁</u> 16'22	31.19512 AU
min. Earth dist.	-2798 Apr 30 j 17:23	15° <u>♁</u> 51'58	29.25173 AU	retrograde	-2790 Feb 27 j 13:31	4° <u>♁</u> 46'02	
direct	-2798 Jul 20 j 04:01	14° <u>♁</u> 28'40		opposition	-2790 May 18 j 23:04	3° <u>♁</u> 22'37	1°38'35
				min. Earth dist.	-2790 May 18 j 19:28	3° <u>♁</u> 22'52	29.19270 AU
conjunction	-2798 Oct 31 j 16:58	16° <u>♁</u> 57'17	1°53'21	direct	-2790 Aug 06 j 21:54	1° <u>♁</u> 59'21	
minimum elong	-2798 Oct 31 j 16:58	16° <u>♁</u> 57'17	1°53'20				
max. Earth dist.	-2798 Oct 31 j 13:25	16° <u>♁</u> 56'57	31.24829 AU	conjunction	-2790 Nov 17 j 18:24	4° <u>♁</u> 27'13	1°30'35
retrograde	-2797 Feb 12 j 06:04	19° <u>♁</u> 26'19		minimum elong	-2790 Nov 17 j 18:24	4° <u>♁</u> 27'13	1°30'33
opposition	-2797 May 03 j 03:40	18° <u>♁</u> 03'32	1°59'52	max. Earth dist.	-2790 Nov 17 j 23:07	4° <u>♁</u> 27'40	31.18888 AU
min. Earth dist.	-2797 May 03 j 06:25	18° <u>♁</u> 03'21	29.24694 AU	retrograde	-2789 Mar 02 j 01:04	6° <u>♁</u> 57'19	

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Attention, astronomical year style is used: The year -2789 in astronomical counting style is the year 2790 BCE in historical counting style.

opposition	-2789 May 21 j 12:03	5°M.33'52	1°34'55	opposition	-2781 Jun 08 j 21:38	23°M.09'05	1°01'02
min. Earth dist.	-2789 May 21 j 06:24	5°M.34'15	29.18671 AU	min. Earth dist.	-2781 Jun 08 j 11:03	23°M.09'48	29.12561 AU
direct	-2789 Aug 09 j 10:37	4°M.10'39		direct	-2781 Aug 27 j 03:05	21°M.46'12	
conjunction	-2789 Nov 20 j 03:28	6°M.38'28	1°27'05	conjunction	-2781 Dec 07 j 08:27	24°M.13'39	0°54'58
minimum elong	-2789 Nov 20 j 03:28	6°M.38'28	1°27'02	minimum elong	-2781 Dec 07 j 08:28	24°M.13'39	0°54'54
max. Earth dist.	-2789 Nov 20 j 08:27	6°M.38'56	31.18327 AU	max. Earth dist.	-2781 Dec 07 j 20:14	24°M.14'46	31.11964 AU
retrograde	-2788 Mar 03 j 14:12	9°M.08'44		retrograde	-2780 Mar 21 j 14:39	26°M.45'13	
opposition	-2788 May 23 j 01:16	7°M.45'14	1°31'07	opposition	-2780 Jun 10 j 10:43	25°M.21'13	0°56'20
min. Earth dist.	-2788 May 22 j 19:09	7°M.45'39	29.18136 AU	min. Earth dist.	-2780 Jun 09 j 22:16	25°M.22'03	29.11432 AU
direct	-2788 Aug 10 j 21:44	6°M.22'06		direct	-2780 Aug 28 j 16:10	23°M.58'19	
conjunction	-2788 Nov 21 j 12:53	8°M.49'52	1°23'28	conjunction	-2780 Dec 08 j 18:12	26°M.25'43	0°50'32
minimum elong	-2788 Nov 21 j 12:53	8°M.49'52	1°23'26	minimum elong	-2780 Dec 08 j 18:12	26°M.25'43	0°50'28
max. Earth dist.	-2788 Nov 21 j 19:54	8°M.50'32	31.17809 AU	max. Earth dist.	-2780 Dec 09 j 06:01	26°M.26'50	31.10856 AU
retrograde	-2787 Mar 06 j 01:28	11°M.20'19		retrograde	-2779 Mar 24 j 04:45	28°M.57'25	
opposition	-2787 May 25 j 14:22	9°M.56'47	1°27'11	opposition	-2779 Jun 12 j 23:46	27°M.33'19	0°51'33
min. Earth dist.	-2787 May 25 j 07:04	9°M.57'17	29.17607 AU	min. Earth dist.	-2779 Jun 12 j 11:02	27°M.34'11	29.10366 AU
direct	-2787 Aug 13 j 10:28	8°M.33'43		direct	-2779 Aug 31 j 03:20	26°M.10'25	
conjunction	-2787 Nov 23 j 22:12	11°M.01'27	1°19'43	conjunction	-2779 Dec 11 j 04:05	28°M.37'47	0°46'01
minimum elong	-2787 Nov 23 j 22:12	11°M.01'27	1°19'39	minimum elong	-2779 Dec 11 j 04:06	28°M.37'47	0°45'56
max. Earth dist.	-2787 Nov 24 j 05:04	11°M.02'06	31.17279 AU	max. Earth dist.	-2779 Dec 11 j 17:57	28°M.39'06	31.09830 AU
retrograde	-2786 Mar 08 j 14:01	13°M.32'06		retrograde	-2778 Jan 18 j 07:48	0° <del>2</del>	
opposition	-2786 May 28 j 03:33	12°M.08'32	1°23'06	retrograde	-2778 Mar 26 j 16:20	1° <del>2</del> 09'37	
min. Earth dist.	-2786 May 27 j 19:28	12°M.09'05	29.17051 AU	retrograde	-2778 Jun 06 j 13:35	30° <del>R</del> M	
direct	-2786 Aug 15 j 20:43	10°M.45'32		opposition	-2778 Jun 15 j 12:44	29°M.45'27	0°46'41
				min. Earth dist.	-2778 Jun 14 j 22:37	29°M.46'24	29.09378 AU
conjunction	-2786 Nov 26 j 07:48	13°M.13'14	1°15'51	direct	-2778 Sep 02 j 16:07	28°M.22'33	
minimum elong	-2786 Nov 26 j 07:49	13°M.13'14	1°15'48		-2778 Nov 21 j 05:42	0° <del>2</del>	
max. Earth dist.	-2786 Nov 26 j 16:21	13°M.14'03	31.16677 AU				
retrograde	-2785 Jan 17 j 10:51	15°M.		conjunction	-2778 Dec 13 j 13:51	0° <del>2</del> 49'54	0°41'26
retrograde	-2785 Mar 11 j 00:12	15°M.44'03		minimum elong	-2778 Dec 13 j 13:51	0° <del>2</del> 49'54	0°41'22
	-2785 May 05 j 07:17	15° <del>R</del> M		max. Earth dist.	-2778 Dec 14 j 03:42	0° <del>2</del> 51'12	31.08899 AU
opposition	-2785 May 30 j 16:44	14°M.20'27	1°18'55	retrograde	-2777 Mar 29 j 05:04	3° <del>2</del> 21'53	
min. Earth dist.	-2785 May 30 j 08:23	14°M.21'01	29.16394 AU	min. Earth dist.	-2777 Jun 17 j 10:39	1° <del>2</del> 58'40	29.08499 AU
direct	-2785 Aug 18 j 08:38	12°M.57'31		opposition	-2777 Jun 18 j 01:42	1° <del>2</del> 57'39	0°41'45
	-2785 Nov 17 j 14:49	15°M.		direct	-2777 Sep 05 j 02:31	0° <del>2</del> 34'47	
conjunction	-2785 Nov 28 j 17:26	15°M.25'11	1°11'52	conjunction	-2777 Dec 15 j 23:52	3° <del>2</del> 02'07	0°36'47
minimum elong	-2785 Nov 28 j 17:26	15°M.25'11	1°11'48	minimum elong	-2777 Dec 15 j 23:52	3° <del>2</del> 02'07	0°36'42
max. Earth dist.	-2785 Nov 29 j 01:48	15°M.25'59	31.15979 AU	max. Earth dist.	-2777 Dec 16 j 15:38	3° <del>2</del> 03'36	31.08065 AU
retrograde	-2784 Mar 12 j 13:34	17°M.56'11		retrograde	-2776 Mar 30 j 15:52	5° <del>2</del> 34'16	
opposition	-2784 Jun 01 j 06:00	16°M.32'32	1°14'36	opposition	-2776 Jun 19 j 14:46	4° <del>2</del> 09'59	0°36'45
min. Earth dist.	-2784 May 31 j 20:16	16°M.33'12	29.15629 AU	min. Earth dist.	-2776 Jun 18 j 23:07	4° <del>2</del> 11'03	29.07704 AU
direct	-2784 Aug 19 j 18:52	15°M.09'38		direct	-2776 Sep 06 j 14:56	2° <del>2</del> 47'10	
conjunction	-2784 Nov 30 j 03:09	17°M.37'16	1°07'47	conjunction	-2776 Dec 17 j 09:49	5° <del>2</del> 14'29	0°32'05
minimum elong	-2784 Nov 30 j 03:09	17°M.37'16	1°07'44	minimum elong	-2776 Dec 17 j 09:49	5° <del>2</del> 14'29	0°32'01
max. Earth dist.	-2784 Nov 30 j 12:32	17°M.38'09	31.15140 AU	max. Earth dist.	-2776 Dec 18 j 01:47	5° <del>2</del> 15'59	31.07318 AU
retrograde	-2783 Mar 15 j 00:46	20°M.08'26		retrograde	-2775 Apr 02 j 05:56	7° <del>2</del> 46'48	
opposition	-2783 Jun 03 j 19:23	18°M.44'43	1°10'11	min. Earth dist.	-2775 Jun 21 j 10:38	6° <del>2</del> 23'38	29.06977 AU
min. Earth dist.	-2783 Jun 03 j 10:01	18°M.45'21	29.14715 AU	opposition	-2775 Jun 22 j 03:47	6° <del>2</del> 22'28	0°31'41
direct	-2783 Aug 22 j 06:02	17°M.21'50		direct	-2775 Sep 09 j 01:31	4° <del>2</del> 59'41	
conjunction	-2783 Dec 02 j 13:01	19°M.49'24	1°03'36	conjunction	-2775 Dec 19 j 20:04	7° <del>2</del> 27'00	0°27'19
minimum elong	-2783 Dec 02 j 13:01	19°M.49'24	1°03'32	minimum elong	-2775 Dec 19 j 20:04	7° <del>2</del> 27'00	0°27'14
max. Earth dist.	-2783 Dec 02 j 22:54	19°M.50'21	31.14173 AU	max. Earth dist.	-2775 Dec 20 j 13:07	7° <del>2</del> 28'37	31.06596 AU
retrograde	-2782 Mar 17 j 13:56	22°M.20'42		retrograde	-2774 Apr 04 j 16:25	9° <del>2</del> 59'30	
opposition	-2782 Jun 06 j 08:23	20°M.56'55	1°05'39	opposition	-2774 Jun 24 j 16:43	8° <del>2</del> 35'08	0°26'34
min. Earth dist.	-2782 Jun 05 j 21:27	20°M.57'39	29.13678 AU	min. Earth dist.	-2774 Jun 23 j 23:53	8° <del>2</del> 36'17	29.06259 AU
direct	-2782 Aug 24 j 17:20	19°M.34'02		direct	-2774 Sep 11 j 12:10	7° <del>2</del> 12'24	
conjunction	-2782 Dec 04 j 22:46	22°M.01'33	0°59'20	conjunction	-2774 Dec 22 j 06:25	9° <del>2</del> 39'43	0°22'31
minimum elong	-2782 Dec 04 j 22:47	22°M.01'33	0°59'16	minimum elong	-2774 Dec 22 j 06:25	9° <del>2</del> 39'43	0°22'27
max. Earth dist.	-2782 Dec 05 j 09:02	22°M.02'31	31.13087 AU	max. Earth dist.	-2774 Dec 23 j 00:09	9° <del>2</del> 41'24	31.05878 AU
retrograde	-2781 Mar 20 j 02:27	24°M.33'00		retrograde	-2773 Apr 07 j 05:28	12° <del>2</del> 12'22	



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Attention, astronomical year style is used: The year -2773 in astronomical counting style is the year 2774 BCE in historical counting style.

min. Earth dist.	-2773 Jun 26 j 11:21	10° <del>2</del> 49'14	29.05513 AU	max. Earth dist.	-2766 Jan 07 j 06:03	25° <del>2</del> 12'16	30.98759 AU
opposition	-2773 Jun 27 j 05:42	10° <del>2</del> 47'59	0°21'24	retrograde	-2766 Apr 23 j 01:26	27° <del>2</del> 43'44	
direct	-2773 Sep 13 j 22:47	9° <del>2</del> 25'15		opposition	-2766 Jul 12 j 23:54	26° <del>2</del> 18'47	0°-15'-11
				min. Earth dist.	-2766 Jul 12 j 02:30	26° <del>2</del> 20'15	28.98290 AU
conjunction	-2773 Dec 24 j 16:44	11° <del>2</del> 52'35	0°17'40	direct	-2766 Sep 29 j 07:10	24° <del>2</del> 55'53	
minimum elong	-2773 Dec 24 j 16:44	11° <del>2</del> 52'35	0°17'35				
max. Earth dist.	-2773 Dec 25 j 10:38	11° <del>2</del> 54'17	31.05093 AU	conjunction	-2765 Jan 08 j 20:07	27° <del>2</del> 23'09	0°-16'-36
retrograde	-2772 Apr 08 j 18:16	14° <del>2</del> 25'24		minimum elong	-2765 Jan 08 j 20:07	27° <del>2</del> 23'09	0°16'41
opposition	-2772 Jun 28 j 18:54	13° <del>2</del> 00'57	0°16'13	max. Earth dist.	-2765 Jan 09 j 18:00	27° <del>2</del> 25'13	30.97796 AU
min. Earth dist.	-2772 Jun 28 j 01:12	13° <del>2</del> 02'10	29.04692 AU	retrograde	-2765 Apr 25 j 12:03	29° <del>2</del> 56'43	
direct	-2772 Sep 15 j 07:59	11° <del>2</del> 38'15		opposition	-2765 Jul 15 j 12:37	28° <del>2</del> 31'43	0°-20'-23
				min. Earth dist.	-2765 Jul 14 j 15:21	28° <del>2</del> 33'10	28.97398 AU
conjunction	-2772 Dec 26 j 03:28	14° <del>2</del> 05'34	0°12'49	direct	-2765 Oct 01 j 18:00	27° <del>2</del> 08'48	
minimum elong	-2772 Dec 26 j 03:27	14° <del>2</del> 05'34	0°12'45				
behind sun begin	-2772 Dec 25 j 23:22	14° <del>2</del> 05'12		conjunction	-2764 Jan 11 j 07:01	29° <del>2</del> 36'06	0°-21'-27
behind sun end	-2772 Dec 26 j 07:33	14° <del>2</del> 05'57		minimum elong	-2764 Jan 11 j 07:01	29° <del>2</del> 36'06	0°21'33
max. Earth dist.	-2772 Dec 26 j 22:25	14° <del>2</del> 07'22	31.04222 AU	max. Earth dist.	-2764 Jan 12 j 05:47	29° <del>2</del> 38'15	30.96979 AU
retrograde	-2771 Apr 11 j 07:27	16° <del>2</del> 38'31			-2764 Jan 21 j 20:07	0° <del>2</del>	
opposition	-2771 Jul 01 j 07:47	15° <del>2</del> 14'00	0°10'59	retrograde	-2764 Apr 27 j 01:08	2° <del>2</del> 09'47	
min. Earth dist.	-2771 Jun 30 j 12:50	15° <del>2</del> 15'18	29.03758 AU	min. Earth dist.	-2764 Jul 16 j 02:16	0° <del>2</del> 46'20	28.96644 AU
direct	-2771 Sep 17 j 20:47	13° <del>2</del> 51'17		opposition	-2764 Jul 17 j 01:11	0° <del>2</del> 44'45	0°-25'-33
					-2764 Aug 14 j 14:26	30° <del>R</del>	
conjunction	-2771 Dec 28 j 14:07	16° <del>2</del> 18'37	0°07'56	direct	-2764 Oct 03 j 04:36	29° <del>2</del> 21'51	
minimum elong	-2771 Dec 28 j 14:07	16° <del>2</del> 18'37	0°07'51		-2764 Nov 19 j 18:39	0° <del>2</del>	
behind sun begin	-2771 Dec 28 j 08:19	16° <del>2</del> 18'05					
behind sun end	-2771 Dec 28 j 19:54	16° <del>2</del> 19'08		conjunction	-2763 Jan 12 j 18:06	1° <del>2</del> 49'13	0°-26'-16
max. Earth dist.	-2771 Dec 29 j 08:22	16° <del>2</del> 20'20	31.03227 AU	minimum elong	-2763 Jan 12 j 18:06	1° <del>2</del> 49'13	0°26'21
retrograde	-2770 Apr 13 j 21:57	18° <del>2</del> 51'40		max. Earth dist.	-2763 Jan 13 j 17:06	1° <del>2</del> 51'23	30.96276 AU
opposition	-2770 Jul 03 j 20:51	17° <del>2</del> 27'05	0°05'45	retrograde	-2763 Apr 29 j 13:43	4° <del>2</del> 23'02	
min. Earth dist.	-2770 Jul 03 j 02:16	17° <del>2</del> 28'21	29.02710 AU	opposition	-2763 Jul 19 j 13:44	2° <del>2</del> 57'59	0°-30'-42
direct	-2770 Sep 20 j 07:26	16° <del>2</del> 04'19		min. Earth dist.	-2763 Jul 18 j 15:24	2° <del>2</del> 59'31	28.96004 AU
				direct	-2763 Oct 05 j 13:13	1° <del>2</del> 35'06	
conjunction	-2770 Dec 31 j 00:53	18° <del>2</del> 31'38	0°03'03				
minimum elong	-2770 Dec 31 j 00:52	18° <del>2</del> 31'38	0°02'59	conjunction	-2762 Jan 15 j 05:27	4° <del>2</del> 02'31	0°-31'-4
behind sun begin	-2770 Dec 30 j 18:27	18° <del>2</del> 31'03		minimum elong	-2762 Jan 15 j 05:27	4° <del>2</del> 02'31	0°31'10
behind sun end	-2770 Dec 31 j 07:16	18° <del>2</del> 32'13		max. Earth dist.	-2762 Jan 16 j 05:42	4° <del>2</del> 04'49	30.95681 AU
max. Earth dist.	-2770 Dec 31 j 20:36	18° <del>2</del> 33'30	31.02126 AU	retrograde	-2762 May 02 j 02:56	6° <del>2</del> 36'28	
retrograde	-2769 Apr 16 j 09:52	21° <del>2</del> 04'47		min. Earth dist.	-2762 Jul 21 j 02:32	5° <del>2</del> 13'04	28.95440 AU
opposition	-2769 Jul 06 j 09:44	19° <del>2</del> 40'06	0°00'30	opposition	-2762 Jul 22 j 02:12	5° <del>2</del> 11'26	0°-35'-48
min. Earth dist.	-2769 Jul 05 j 14:21	19° <del>2</del> 41'25	29.01565 AU	direct	-2762 Oct 08 j 01:22	3° <del>2</del> 48'35	
desc. node	-2769 Aug 10 j 23:47	18° <del>2</del> 46'15					
direct	-2769 Sep 22 j 20:14	18° <del>2</del> 17'18		conjunction	-2761 Jan 17 j 16:38	6° <del>2</del> 16'04	0°-35'-49
				minimum elong	-2761 Jan 17 j 16:38	6° <del>2</del> 16'04	0°35'55
conjunction	-2768 Jan 02 j 11:32	20° <del>2</del> 44'35	0°-1'-58	max. Earth dist.	-2761 Jan 18 j 16:21	6° <del>2</del> 18'18	30.95135 AU
minimum elong	-2768 Jan 02 j 11:32	20° <del>2</del> 44'35	0°02'05	retrograde	-2761 May 04 j 17:32	8° <del>2</del> 50'10	
behind sun begin	-2768 Jan 02 j 05:06	20° <del>2</del> 44'00		opposition	-2761 Jul 24 j 14:52	7° <del>2</del> 25'07	0°-40'-52
behind sun end	-2768 Jan 02 j 17:58	20° <del>2</del> 45'10		min. Earth dist.	-2761 Jul 23 j 15:37	7° <del>2</del> 26'44	28.94915 AU
max. Earth dist.	-2768 Jan 03 j 06:49	20° <del>2</del> 46'24	31.00973 AU	direct	-2761 Oct 10 j 10:56	6° <del>2</del> 02'18	
retrograde	-2768 Apr 17 j 23:47	23° <del>2</del> 17'50					
opposition	-2768 Jul 07 j 22:37	21° <del>2</del> 53'02	0°-4'-43	conjunction	-2760 Jan 20 j 04:19	8° <del>2</del> 29'52	0°-40'-31
min. Earth dist.	-2768 Jul 07 j 02:48	21° <del>2</del> 54'24	29.00417 AU	minimum elong	-2760 Jan 20 j 04:19	8° <del>2</del> 29'52	0°40'37
direct	-2768 Sep 24 j 07:12	20° <del>2</del> 30'12		max. Earth dist.	-2760 Jan 21 j 05:23	8° <del>2</del> 32'14	30.94602 AU
				retrograde	-2760 May 06 j 06:22	11° <del>2</del> 04'05	
conjunction	-2767 Jan 03 j 22:21	22° <del>2</del> 57'28	0°-6'-52	min. Earth dist.	-2760 Jul 25 j 03:38	9° <del>2</del> 40'41	28.94364 AU
minimum elong	-2767 Jan 03 j 22:21	22° <del>2</del> 57'28	0°06'58	opposition	-2760 Jul 26 j 03:23	9° <del>2</del> 39'03	0°-45'-51
behind sun begin	-2767 Jan 03 j 16:22	22° <del>2</del> 56'55		direct	-2760 Oct 11 j 22:40	8° <del>2</del> 16'13	
behind sun end	-2767 Jan 04 j 04:20	22° <del>2</del> 58'00					
max. Earth dist.	-2767 Jan 04 j 19:13	22° <del>2</del> 59'26	30.99828 AU	conjunction	-2759 Jan 21 j 16:02	10° <del>2</del> 43'52	0°-45'-10
retrograde	-2767 Apr 20 j 11:32	25° <del>2</del> 30'48		minimum elong	-2759 Jan 21 j 16:02	10° <del>2</del> 43'52	0°45'15
opposition	-2767 Jul 10 j 11:24	24° <del>2</del> 05'55	0°-9'-57	max. Earth dist.	-2759 Jan 22 j 16:08	10° <del>2</del> 46'09	30.94022 AU
min. Earth dist.	-2767 Jul 09 j 15:18	24° <del>2</del> 07'18	28.99301 AU	retrograde	-2759 May 08 j 21:46	13° <del>2</del> 18'12	
direct	-2767 Sep 26 j 20:08	22° <del>2</del> 43'02		opposition	-2759 Jul 28 j 16:00	11° <del>2</del> 53'09	0°-50'-47
				min. Earth dist.	-2759 Jul 27 j 16:25	11° <del>2</del> 54'46	28.93751 AU
conjunction	-2766 Jan 06 j 09:12	25° <del>2</del> 10'18	0°-11'-44	direct	-2759 Oct 14 j 09:38	10° <del>2</del> 30'19	
minimum elong	-2766 Jan 06 j 09:12	25° <del>2</del> 10'18	0°11'51				
behind sun begin	-2766 Jan 06 j 04:40	25° <del>2</del> 09'53		conjunction	-2758 Jan 24 j 04:03	12° <del>2</del> 58'02	0°-49'-44
behind sun end	-2766 Jan 06 j 13:43	25° <del>2</del> 10'43		minimum elong	-2758 Jan 24 j 04:03	12° <del>2</del> 58'02	0°49'50

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Attention, astronomical year style is used: The year -2758 in astronomical counting style is the year 2759 BCE in historical counting style.

max. Earth dist.	-2758 Jan 25 j 04:58	13°☾00'23	30.93341 AU	max. Earth dist.	-2750 Feb 12 j 06:50	0°☾53'04	30.87782 AU
retrograde	-2758 May 11 j 11:08	15°☾32'26		retrograde	-2750 May 29 j 19:18	3°☾25'27	
min. Earth dist.	-2758 Jul 30 j 05:17	14°☾08'57	28.93018 AU	min. Earth dist.	-2750 Aug 17 j 05:51	2°☾01'43	28.87735 AU
opposition	-2758 Jul 31 j 04:28	14°☾07'21	0°-55'-39	opposition	-2750 Aug 18 j 06:04	2°☾00'02	-1°-30'-56
direct	-2758 Oct 16 j 22:53	12°☾44'30		direct	-2750 Nov 03 j 15:21	0°☾36'49	
conjunction	-2757 Jan 26 j 16:01	15°☾12'15	0°-54'-15	conjunction	-2749 Feb 13 j 18:12	3°☾04'58	-1°-26'-50
minimum elong	-2757 Jan 26 j 16:01	15°☾12'15	0°54'20	minimum elong	-2749 Feb 13 j 18:12	3°☾04'58	1°26'55
max. Earth dist.	-2757 Jan 27 j 16:11	15°☾14'32	30.92568 AU	max. Earth dist.	-2749 Feb 14 j 20:33	3°☾07'27	30.87508 AU
retrograde	-2757 May 14 j 01:30	17°☾46'43		retrograde	-2749 Jun 01 j 08:37	5°☾39'47	
opposition	-2757 Aug 02 j 16:58	16°☾21'34	-1°00'-25	opposition	-2749 Aug 20 j 18:05	4°☾14'23	-1°-34'-48
min. Earth dist.	-2757 Aug 01 j 17:12	16°☾23'13	28.92205 AU	min. Earth dist.	-2749 Aug 19 j 18:13	4°☾16'03	28.87497 AU
direct	-2757 Oct 19 j 10:28	14°☾58'40		direct	-2749 Nov 06 j 03:41	2°☾51'12	
conjunction	-2756 Jan 29 j 03:58	17°☾26'26	0°-58'-40	conjunction	-2748 Feb 16 j 06:54	5°☾19'27	-1°-30'-23
minimum elong	-2756 Jan 29 j 03:57	17°☾26'26	0°58'46	minimum elong	-2748 Feb 16 j 06:54	5°☾19'27	1°30'28
max. Earth dist.	-2756 Jan 30 j 04:30	17°☾28'45	30.91710 AU	max. Earth dist.	-2748 Feb 17 j 08:26	5°☾21'51	30.87293 AU
retrograde	-2756 May 15 j 12:59	20°☾00'58		retrograde	-2748 Jun 02 j 23:38	7°☾54'20	
min. Earth dist.	-2756 Aug 03 j 06:32	18°☾37'20	28.91333 AU	min. Earth dist.	-2748 Aug 21 j 05:55	6°☾30'39	28.87287 AU
opposition	-2756 Aug 04 j 05:27	18°☾35'44	-1°-5'-6	opposition	-2748 Aug 22 j 06:04	6°☾28'58	-1°-38'-32
direct	-2756 Oct 20 j 22:14	17°☾12'47		direct	-2748 Nov 07 j 14:57	5°☾05'46	
conjunction	-2755 Jan 30 j 16:08	19°☾40'34	-1°-3'00	conjunction	-2747 Feb 17 j 20:01	7°☾34'08	-1°-33'-48
minimum elong	-2755 Jan 30 j 16:07	19°☾40'34	1°03'05	minimum elong	-2747 Feb 17 j 20:00	7°☾34'08	1°33'52
max. Earth dist.	-2755 Jan 31 j 16:53	19°☾42'54	30.90841 AU	max. Earth dist.	-2747 Feb 18 j 21:31	7°☾36'32	30.87052 AU
retrograde	-2755 May 18 j 02:52	22°☾15'06		retrograde	-2747 Jun 05 j 12:43	10°☾09'04	
opposition	-2755 Aug 06 j 17:32	20°☾49'49	-1°-9'-42	opposition	-2747 Aug 24 j 17:58	8°☾43'44	-1°-42'-6
min. Earth dist.	-2755 Aug 05 j 17:37	20°☾51'29	28.90477 AU	min. Earth dist.	-2747 Aug 23 j 19:07	8°☾45'20	28.87025 AU
direct	-2755 Oct 23 j 10:02	19°☾26'47		direct	-2747 Nov 10 j 02:33	7°☾20'32	
conjunction	-2754 Feb 02 j 04:14	21°☾54'36	-1°-7'-15	conjunction	-2746 Feb 20 j 09:14	9°☾49'01	-1°-37'-4
minimum elong	-2754 Feb 02 j 04:14	21°☾54'36	1°07'20	minimum elong	-2746 Feb 20 j 09:14	9°☾49'01	1°37'09
max. Earth dist.	-2754 Feb 03 j 04:47	21°☾56'55	30.89998 AU	max. Earth dist.	-2746 Feb 21 j 10:13	9°☾51'22	30.86751 AU
retrograde	-2754 May 20 j 14:38	24°☾29'11		retrograde	-2746 Jun 08 j 04:02	12°☾23'58	
min. Earth dist.	-2754 Aug 08 j 06:48	23°☾05'26	28.89688 AU	min. Earth dist.	-2746 Aug 26 j 06:35	11°☾00'17	28.86677 AU
opposition	-2754 Aug 09 j 05:50	23°☾03'50	-1°-14'-10	opposition	-2746 Aug 27 j 05:53	10°☾58'39	-1°-45'-32
direct	-2754 Oct 25 j 19:49	21°☾40'45		direct	-2746 Nov 12 j 14:43	9°☾35'25	
conjunction	-2753 Feb 04 j 16:22	24°☾08'35	-1°-11'-23	conjunction	-2745 Feb 22 j 22:21	12°☾04'00	-1°-40'-12
minimum elong	-2753 Feb 04 j 16:22	24°☾08'35	1°11'28	minimum elong	-2745 Feb 22 j 22:20	12°☾04'00	1°40'16
max. Earth dist.	-2753 Feb 05 j 17:59	24°☾11'00	30.89255 AU	max. Earth dist.	-2745 Feb 23 j 22:28	12°☾06'16	30.86337 AU
retrograde	-2753 May 23 j 02:36	26°☾43'12		retrograde	-2745 Jun 10 j 16:09	14°☾38'59	
opposition	-2753 Aug 11 j 17:56	25°☾17'48	-1°-18'-33	opposition	-2745 Aug 29 j 17:57	13°☾13'39	-1°-48'-47
min. Earth dist.	-2753 Aug 10 j 17:41	25°☾19'30	28.89005 AU	min. Earth dist.	-2745 Aug 28 j 20:14	13°☾15'10	28.86219 AU
direct	-2753 Oct 28 j 08:03	23°☾54'40		direct	-2745 Nov 15 j 01:04	11°☾50'22	
conjunction	-2752 Feb 07 j 04:36	26°☾22'33	-1°-15'-25	conjunction	-2744 Feb 25 j 11:48	14°☾19'01	-1°-43'-11
minimum elong	-2752 Feb 07 j 04:35	26°☾22'33	1°15'31	minimum elong	-2744 Feb 25 j 11:47	14°☾19'01	1°43'15
max. Earth dist.	-2752 Feb 08 j 05:29	26°☾24'54	30.88632 AU	max. Earth dist.	-2744 Feb 26 j 12:03	14°☾21'18	30.85836 AU
retrograde	-2752 May 24 j 15:48	28°☾57'13			-2744 Mar 14 j 20:16	15°☾	
min. Earth dist.	-2752 Aug 12 j 06:20	27°☾33'26	28.88464 AU	retrograde	-2744 Jun 12 j 04:34	16°☾53'59	
opposition	-2752 Aug 13 j 06:04	27°☾31'47	-1°-22'-48	min. Earth dist.	-2744 Aug 30 j 07:33	15°☾30'11	28.85678 AU
direct	-2752 Oct 29 j 17:12	26°☾08'36		opposition	-2744 Aug 31 j 05:39	15°☾28'38	-1°-51'-53
conjunction	-2751 Feb 08 j 17:06	28°☾36'34	-1°-19'-21		-2744 Sep 17 j 13:32	15°☾R☾	
minimum elong	-2751 Feb 08 j 17:06	28°☾36'34	1°19'26	direct	-2744 Nov 16 j 13:36	14°☾05'17	
max. Earth dist.	-2751 Feb 09 j 19:18	28°☾39'02	30.88148 AU		-2743 Jan 13 j 03:21	15°☾	
retrograde	-2751 Mar 19 j 15:09	0°☾		conjunction	-2743 Feb 27 j 01:09	16°☾34'00	-1°-46'00
opposition	-2751 May 27 j 04:30	1°☾11'16		minimum elong	-2743 Feb 27 j 01:08	16°☾34'00	1°46'04
min. Earth dist.	-2751 Aug 07 j 06:15	30°☾R☾		max. Earth dist.	-2743 Feb 27 j 23:55	16°☾36'08	30.85267 AU
opposition	-2751 Aug 15 j 18:04	29°☾45'50	-1°-26'-56	retrograde	-2743 Jun 14 j 17:25	19°☾08'57	
min. Earth dist.	-2751 Aug 14 j 17:44	29°☾47'32	28.88040 AU	opposition	-2743 Sep 02 j 17:27	17°☾43'34	-1°-54'-49
direct	-2751 Nov 01 j 04:48	28°☾22'39		min. Earth dist.	-2743 Sep 01 j 20:32	17°☾45'02	28.85108 AU
	-2750 Jan 19 j 09:41	0°☾		direct	-2743 Nov 18 j 23:00	16°☾20'08	
conjunction	-2750 Feb 11 j 05:31	0°☾50'41	-1°-23'-9	conjunction	-2742 Mar 01 j 14:35	18°☾48'55	-1°-48'-39
minimum elong	-2750 Feb 11 j 05:31	0°☾50'41	1°23'14	minimum elong	-2742 Mar 01 j 14:35	18°☾48'55	1°48'44

Attention, astronomical year style is used: The year -2742 in astronomical counting style is the year 2743 BCE in historical counting style.

max. Earth dist.	-2742 Mar 02 j 14:06	18° $\approx$ 51'08	30.84693 AU	conjunction	-2734 Mar 20 j 03:56	6° $\times$ 48'07	-2°-3'-40
retrograde	-2742 Jun 17 j 05:23	21° $\approx$ 23'49		minimum elong	-2734 Mar 20 j 03:57	6° $\times$ 48'07	2°03'42
min. Earth dist.	-2742 Sep 04 j 07:54	19° $\approx$ 59'54	28.84555 AU	max. Earth dist.	-2734 Mar 20 j 23:17	6° $\times$ 49'55	30.83637 AU
opposition	-2742 Sep 05 j 04:59	19° $\approx$ 58'25	-1°-57'-34	retrograde	-2734 Jul 05 j 17:18	9° $\times$ 22'44	
direct	-2742 Nov 21 j 10:49	18° $\approx$ 34'55		opposition	-2734 Sep 22 j 23:59	7° $\times$ 57'30	-2°-12'-50
				min. Earth dist.	-2734 Sep 22 j 06:52	7° $\times$ 58'42	28.83832 AU
conjunction	-2741 Mar 04 j 03:55	21° $\approx$ 03'46	-1°-51'-9	direct	-2734 Dec 09 j 07:00	6° $\times$ 33'41	
minimum elong	-2741 Mar 04 j 03:54	21° $\approx$ 03'45	1°51'13				
max. Earth dist.	-2741 Mar 05 j 02:07	21° $\approx$ 05'51	30.84177 AU	conjunction	-2733 Mar 22 j 18:13	9° $\times$ 03'20	-2°-4'-43
retrograde	-2741 Jun 19 j 18:55	23° $\approx$ 38'38		minimum elong	-2733 Mar 22 j 18:13	9° $\times$ 03'20	2°04'46
opposition	-2741 Sep 07 j 16:32	22° $\approx$ 13'12	-2°00'-9	max. Earth dist.	-2733 Mar 23 j 13:38	9° $\times$ 05'09	30.83682 AU
min. Earth dist.	-2741 Sep 06 j 19:53	22° $\approx$ 14'39	28.84097 AU	retrograde	-2733 Jul 08 j 04:56	11° $\times$ 37'53	
direct	-2741 Nov 23 j 21:43	20° $\approx$ 49'37		opposition	-2733 Sep 25 j 11:11	10° $\times$ 12'40	-2°-13'-51
				min. Earth dist.	-2733 Sep 24 j 18:27	10° $\times$ 13'52	28.83829 AU
conjunction	-2740 Mar 05 j 17:25	23° $\approx$ 18'33	-1°-53'-28	direct	-2733 Dec 11 j 19:17	8° $\times$ 48'49	
minimum elong	-2740 Mar 05 j 17:24	23° $\approx$ 18'33	1°53'32				
max. Earth dist.	-2740 Mar 06 j 16:27	23° $\approx$ 20'42	30.83761 AU	conjunction	-2732 Mar 24 j 08:23	11° $\times$ 18'32	-2°-5'-34
retrograde	-2740 Jun 21 j 07:07	25° $\approx$ 53'23		minimum elong	-2732 Mar 24 j 08:23	11° $\times$ 18'32	2°05'37
min. Earth dist.	-2740 Sep 08 j 07:51	24° $\approx$ 29'22	28.83742 AU	max. Earth dist.	-2732 Mar 25 j 01:42	11° $\times$ 20'09	30.83643 AU
opposition	-2740 Sep 09 j 04:02	24° $\approx$ 27'56	-2°-2'-32	retrograde	-2732 Jul 09 j 17:39	13° $\times$ 53'00	
direct	-2740 Nov 25 j 10:05	23° $\approx$ 04'18		opposition	-2732 Sep 26 j 22:25	12° $\times$ 27'48	-2°-14'-40
				min. Earth dist.	-2732 Sep 26 j 06:43	12° $\times$ 28'55	28.83754 AU
conjunction	-2739 Mar 08 j 06:57	25° $\approx$ 33'19	-1°-55'-37	direct	-2732 Dec 13 j 06:04	11° $\times$ 03'51	
minimum elong	-2739 Mar 08 j 06:57	25° $\approx$ 33'19	1°55'41				
max. Earth dist.	-2739 Mar 09 j 04:54	25° $\approx$ 35'22	30.83477 AU	conjunction	-2731 Mar 26 j 22:44	13° $\times$ 33'39	-2°-6'-15
retrograde	-2739 Jun 23 j 21:31	28° $\approx$ 08'06		minimum elong	-2731 Mar 26 j 22:44	13° $\times$ 33'39	2°06'17
opposition	-2739 Sep 11 j 15:19	26° $\approx$ 42'40	-2°-4'-44	max. Earth dist.	-2731 Mar 27 j 16:12	13° $\times$ 35'17	30.83529 AU
min. Earth dist.	-2739 Sep 10 j 18:49	26° $\approx$ 44'07	28.83534 AU	retrograde	-2731 Jul 12 j 05:00	16° $\times$ 08'00	
direct	-2739 Nov 27 j 21:06	25° $\approx$ 18'58		opposition	-2731 Sep 29 j 09:26	14° $\times$ 42'48	-2°-15'-17
				min. Earth dist.	-2731 Sep 28 j 18:48	14° $\times$ 43'51	28.83616 AU
conjunction	-2738 Mar 10 j 20:34	27° $\approx$ 48'05	-1°-57'-36	direct	-2731 Dec 15 j 18:06	13° $\times$ 18'47	
minimum elong	-2738 Mar 10 j 20:34	27° $\approx$ 48'05	1°57'39				
max. Earth dist.	-2738 Mar 11 j 18:43	27° $\approx$ 50'10	30.83326 AU	conjunction	-2730 Mar 29 j 12:55	15° $\times$ 48'39	-2°-6'-43
	-2738 May 19 j 20:17	0° $\times$		minimum elong	-2730 Mar 29 j 12:55	15° $\times$ 48'39	2°06'45
retrograde	-2738 Jun 26 j 10:43	0° $\times$ 22'51		max. Earth dist.	-2730 Mar 30 j 04:41	15° $\times$ 50'07	30.83398 AU
	-2738 Aug 03 j 13:38	30° $\approx$		retrograde	-2730 Jul 14 j 18:42	18° $\times$ 22'53	
min. Earth dist.	-2738 Sep 13 j 07:16	28° $\approx$ 58'49	28.83455 AU	opposition	-2730 Oct 01 j 20:24	16° $\times$ 57'41	-2°-15'-41
opposition	-2738 Sep 14 j 02:46	28° $\approx$ 57'26	-2°-6'-45	min. Earth dist.	-2730 Oct 01 j 05:55	16° $\times$ 58'43	28.83497 AU
direct	-2738 Nov 30 j 09:21	27° $\approx$ 33'43		direct	-2730 Dec 18 j 05:27	15° $\times$ 33'34	
	-2737 Mar 12 j 02:53	0° $\times$					
conjunction	-2737 Mar 13 j 10:06	0° $\times$ 02'56	-1°-59'-23	conjunction	-2729 Apr 01 j 03:02	18° $\times$ 03'30	-2°-7'-1
minimum elong	-2737 Mar 13 j 10:06	0° $\times$ 02'56	1°59'27	minimum elong	-2729 Apr 01 j 03:02	18° $\times$ 03'30	2°07'03
max. Earth dist.	-2737 Mar 14 j 07:54	0° $\times$ 04'58	30.83319 AU	max. Earth dist.	-2729 Apr 01 j 18:43	18° $\times$ 04'58	30.83293 AU
retrograde	-2737 Jun 29 j 01:50	2° $\times$ 37'40		retrograde	-2729 Jul 17 j 06:43	20° $\times$ 37'38	
opposition	-2737 Sep 16 j 14:05	1° $\times$ 12'17	-2°-8'-34	opposition	-2729 Oct 04 j 07:23	19° $\times$ 12'26	-2°-15'-54
min. Earth dist.	-2737 Sep 15 j 18:00	1° $\times$ 13'42	28.83501 AU	min. Earth dist.	-2729 Oct 03 j 18:17	19° $\times$ 13'22	28.83426 AU
	-2737 Nov 06 j 21:26	30° $\approx$		direct	-2729 Dec 20 j 18:07	17° $\times$ 48'14	
direct	-2737 Dec 02 j 22:11	29° $\approx$ 48'33					
	-2737 Dec 28 j 13:18	0° $\times$		conjunction	-2728 Apr 02 j 17:18	20° $\times$ 18'15	-2°-7'-6
conjunction	-2736 Mar 14 j 23:55	2° $\times$ 17'52	-2°-1'00	minimum elong	-2728 Apr 02 j 17:19	20° $\times$ 18'15	2°07'07
minimum elong	-2736 Mar 14 j 23:55	2° $\times$ 17'52	2°01'03	max. Earth dist.	-2728 Apr 03 j 08:03	20° $\times$ 19'38	30.83277 AU
max. Earth dist.	-2736 Mar 15 j 21:03	2° $\times$ 19'51	30.83400 AU	retrograde	-2728 Jul 18 j 20:45	22° $\times$ 52'15	
retrograde	-2736 Jun 30 j 14:10	4° $\times$ 52'35		opposition	-2728 Oct 05 j 18:04	21° $\times$ 27'04	-2°-15'-53
min. Earth dist.	-2736 Sep 17 j 06:56	3° $\times$ 28'33	28.83619 AU	min. Earth dist.	-2728 Oct 05 j 04:36	21° $\times$ 28'02	28.83462 AU
opposition	-2736 Sep 18 j 01:23	3° $\times$ 27'15	-2°-10'-11	direct	-2728 Dec 22 j 07:19	20° $\times$ 02'49	
direct	-2736 Dec 04 j 08:46	2° $\times$ 03'30					
				conjunction	-2727 Apr 05 j 07:34	22° $\times$ 32'56	-2°-7'00
conjunction	-2735 Mar 17 j 14:01	4° $\times$ 32'56	-2°-2'-25	minimum elong	-2727 Apr 05 j 07:34	22° $\times$ 32'56	2°07'02
minimum elong	-2735 Mar 17 j 14:01	4° $\times$ 32'56	2°02'29	max. Earth dist.	-2727 Apr 05 j 21:38	22° $\times$ 34'14	30.83368 AU
max. Earth dist.	-2735 Mar 18 j 11:05	4° $\times$ 34'55	30.83534 AU	retrograde	-2727 Jul 21 j 08:51	25° $\times$ 06'49	
retrograde	-2735 Jul 03 j 03:53	7° $\times$ 07'36		opposition	-2727 Oct 08 j 04:58	23° $\times$ 41'40	-2°-15'-41
opposition	-2735 Sep 20 j 12:37	5° $\times$ 42'20	-2°-11'-37	min. Earth dist.	-2727 Oct 07 j 17:02	23° $\times$ 42'31	28.83631 AU
min. Earth dist.	-2735 Sep 19 j 18:00	5° $\times$ 43'39	28.83746 AU	direct	-2727 Dec 24 j 18:22	22° $\times$ 17'22	
direct	-2735 Dec 06 j 21:13	4° $\times$ 18'34					
				conjunction	-2726 Apr 07 j 21:44	24° $\times$ 47'34	-2°-6'-43
				minimum elong	-2726 Apr 07 j 21:44	24° $\times$ 47'34	2°06'44
				max. Earth dist.	-2726 Apr 08 j 11:46	24° $\times$ 48'53	30.83616 AU

Attention, astronomical year style is used: The year -2726 in astronomical counting style is the year 2727 BCE in historical counting style.

retrograde	-2726 Jul 23 j 22:34	27° <del>✕</del> 21'22		retrograde	-2718 Aug 11 j 00:15	15° <del>∇</del> 20'08	
opposition	-2726 Oct 10 j 15:40	25° <del>✕</del> 56'16	-2°-15'-16	opposition	-2718 Oct 28 j 05:11	13° <del>∇</del> 55'36	-2°-4'-36
min. Earth dist.	-2726 Oct 10 j 03:16	25° <del>✕</del> 57'09	28.83947 AU	min. Earth dist.	-2718 Oct 28 j 00:57	13° <del>∇</del> 55'55	28.88021 AU
direct	-2726 Dec 27 j 07:13	24° <del>✕</del> 31'57		direct	-2717 Jan 14 j 03:23	12° <del>∇</del> 31'01	
conjunction	-2725 Apr 10 j 11:56	27° <del>✕</del> 02'15	-2°-6'-14	conjunction	-2717 Apr 29 j 08:06	15° <del>∇</del> 02'03	-1°-55'-31
minimum elong	-2725 Apr 10 j 11:56	27° <del>✕</del> 02'15	2°06'16	minimum elong	-2717 Apr 29 j 08:06	15° <del>∇</del> 02'03	1°55'32
max. Earth dist.	-2725 Apr 11 j 00:33	27° <del>✕</del> 03'26	30.84011 AU	max. Earth dist.	-2717 Apr 29 j 13:01	15° <del>∇</del> 02'31	30.88075 AU
retrograde	-2725 Jul 26 j 11:51	29° <del>✕</del> 35'57		retrograde	-2717 Aug 13 j 13:39	17° <del>∇</del> 34'43	
opposition	-2725 Oct 13 j 02:25	28° <del>✕</del> 10'56	-2°-14'-38	opposition	-2717 Oct 30 j 15:29	16° <del>∇</del> 10'12	-2°-2'-23
min. Earth dist.	-2725 Oct 12 j 15:17	28° <del>✕</del> 11'44	28.84420 AU	min. Earth dist.	-2717 Oct 30 j 11:18	16° <del>∇</del> 10'30	28.88371 AU
direct	-2725 Dec 29 j 17:08	26° <del>✕</del> 46'36		direct	-2716 Jan 16 j 17:28	14° <del>∇</del> 45'33	
conjunction	-2724 Apr 12 j 02:23	29° <del>✕</del> 17'01	-2°-5'-33	conjunction	-2716 Apr 30 j 22:32	17° <del>∇</del> 16'37	-1°-53'-23
minimum elong	-2724 Apr 12 j 02:23	29° <del>✕</del> 17'01	2°05'34	minimum elong	-2716 Apr 30 j 22:32	17° <del>∇</del> 16'37	1°53'22
max. Earth dist.	-2724 Apr 12 j 15:16	29° <del>✕</del> 18'13	30.84549 AU	max. Earth dist.	-2716 May 01 j 01:47	17° <del>∇</del> 16'55	30.88447 AU
	-2724 May 01 j 12:45	0° <del>∇</del>		retrograde	-2716 Aug 15 j 01:57	19° <del>∇</del> 49'06	
retrograde	-2724 Jul 27 j 23:12	1° <del>∇</del> 50'38		opposition	-2716 Nov 01 j 02:00	18° <del>∇</del> 24'37	-2°00'00
opposition	-2724 Oct 14 j 13:05	0° <del>∇</del> 25'43	-2°-13'-48	min. Earth dist.	-2716 Oct 31 j 23:18	18° <del>∇</del> 24'48	28.88776 AU
min. Earth dist.	-2724 Oct 14 j 02:11	0° <del>∇</del> 26'30	28.84994 AU	direct	-2715 Jan 18 j 05:08	16° <del>∇</del> 59'52	
	-2724 Oct 29 j 20:13	30° <del>R</del> <del>✕</del>		conjunction	-2715 May 03 j 12:58	19° <del>∇</del> 30'59	-1°-51'-4
direct	-2724 Dec 31 j 05:26	29° <del>✕</del> 01'23		minimum elong	-2715 May 03 j 12:58	19° <del>∇</del> 31'00	1°51'03
	-2723 Mar 01 j 16:02	0° <del>∇</del>		max. Earth dist.	-2715 May 03 j 16:16	19° <del>∇</del> 31'18	30.88892 AU
conjunction	-2723 Apr 14 j 16:44	1° <del>∇</del> 31'55	-2°-4'-41	retrograde	-2715 Aug 17 j 12:59	22° <del>∇</del> 03'16	
minimum elong	-2723 Apr 14 j 16:44	1° <del>∇</del> 31'55	2°04'42	opposition	-2715 Nov 03 j 12:18	20° <del>∇</del> 38'50	-1°-57'-26
max. Earth dist.	-2723 Apr 15 j 03:39	1° <del>∇</del> 32'56	30.85165 AU	min. Earth dist.	-2715 Nov 03 j 09:50	20° <del>∇</del> 39'01	28.89261 AU
retrograde	-2723 Jul 30 j 11:43	4° <del>∇</del> 05'27		direct	-2714 Jan 20 j 18:15	19° <del>∇</del> 14'03	
opposition	-2723 Oct 16 j 23:44	2° <del>∇</del> 40'38	-2°-12'-46	conjunction	-2714 May 06 j 03:10	21° <del>∇</del> 45'12	-1°-48'-35
min. Earth dist.	-2723 Oct 16 j 13:50	2° <del>∇</del> 41'20	28.85633 AU	minimum elong	-2714 May 06 j 03:11	21° <del>∇</del> 45'12	1°48'34
direct	-2722 Jan 02 j 15:31	1° <del>∇</del> 16'18		max. Earth dist.	-2714 May 06 j 04:37	21° <del>∇</del> 45'20	30.89446 AU
conjunction	-2722 Apr 17 j 07:19	3° <del>∇</del> 46'58	-2°-3'-37	retrograde	-2714 Aug 20 j 01:23	24° <del>∇</del> 17'19	
minimum elong	-2722 Apr 17 j 07:20	3° <del>∇</del> 46'58	2°03'37	opposition	-2714 Nov 05 j 22:40	22° <del>∇</del> 52'56	-1°-54'-42
max. Earth dist.	-2722 Apr 17 j 18:23	3° <del>∇</del> 48'00	30.85804 AU	min. Earth dist.	-2714 Nov 05 j 20:54	22° <del>∇</del> 53'04	28.89885 AU
retrograde	-2722 Aug 01 j 23:13	6° <del>∇</del> 20'23		direct	-2713 Jan 23 j 04:54	21° <del>∇</del> 28'06	
opposition	-2722 Oct 19 j 10:28	4° <del>∇</del> 55'40	-2°-11'-31	conjunction	-2713 May 08 j 17:30	23° <del>∇</del> 59'19	-1°-45'-56
min. Earth dist.	-2722 Oct 19 j 01:48	4° <del>∇</del> 56'17	28.86255 AU	minimum elong	-2713 May 08 j 17:31	23° <del>∇</del> 59'19	1°45'56
direct	-2721 Jan 05 j 02:32	3° <del>∇</del> 31'19		max. Earth dist.	-2713 May 08 j 19:22	23° <del>∇</del> 59'30	30.90137 AU
conjunction	-2721 Apr 19 j 21:45	6° <del>∇</del> 02'05	-2°-2'-21	retrograde	-2713 Aug 22 j 12:00	26° <del>∇</del> 31'16	
minimum elong	-2721 Apr 19 j 21:45	6° <del>∇</del> 02'05	2°02'22	opposition	-2713 Nov 08 j 09:04	25° <del>∇</del> 06'58	-1°-51'-47
max. Earth dist.	-2721 Apr 20 j 06:41	6° <del>∇</del> 02'55	30.86410 AU	min. Earth dist.	-2713 Nov 08 j 08:14	25° <del>∇</del> 07'02	28.90628 AU
retrograde	-2721 Aug 04 j 12:16	8° <del>∇</del> 35'25		direct	-2712 Jan 25 j 16:17	23° <del>∇</del> 42'07	
opposition	-2721 Oct 21 j 21:12	7° <del>∇</del> 10'46	-2°-10'-5	conjunction	-2712 May 10 j 07:47	26° <del>∇</del> 13'24	-1°-43'-8
min. Earth dist.	-2721 Oct 21 j 13:03	7° <del>∇</del> 11'21	28.86820 AU	minimum elong	-2712 May 10 j 07:48	26° <del>∇</del> 13'24	1°43'06
direct	-2720 Jan 07 j 13:34	5° <del>∇</del> 46'23		max. Earth dist.	-2712 May 10 j 07:48	26° <del>∇</del> 13'24	30.90957 AU
conjunction	-2720 Apr 21 j 12:30	8° <del>∇</del> 17'15	-2°00'-55	retrograde	-2712 Aug 24 j 00:00	28° <del>∇</del> 45'13	
minimum elong	-2720 Apr 21 j 12:30	8° <del>∇</del> 17'15	2°00'55	opposition	-2712 Nov 09 j 19:17	27° <del>∇</del> 21'01	-1°-48'-41
max. Earth dist.	-2720 Apr 21 j 20:50	8° <del>∇</del> 18'01	30.86923 AU	min. Earth dist.	-2712 Nov 09 j 18:37	27° <del>∇</del> 21'04	28.91498 AU
retrograde	-2720 Aug 05 j 23:16	10° <del>∇</del> 50'26		direct	-2711 Jan 27 j 03:18	25° <del>∇</del> 56'08	
opposition	-2720 Oct 23 j 07:53	9° <del>∇</del> 25'50	-2°-8'-26	conjunction	-2711 May 12 j 22:12	28° <del>∇</del> 27'32	-1°-40'-10
min. Earth dist.	-2720 Oct 23 j 01:37	9° <del>∇</del> 26'17	28.87284 AU	minimum elong	-2711 May 12 j 22:13	28° <del>∇</del> 27'32	1°40'09
direct	-2719 Jan 09 j 02:26	8° <del>∇</del> 01'24		max. Earth dist.	-2711 May 12 j 22:11	28° <del>∇</del> 27'32	30.91869 AU
conjunction	-2719 Apr 24 j 03:09	10° <del>∇</del> 32'20	-1°-59'-18		-2711 Jun 26 j 07:54	0° <del>✕</del>	
minimum elong	-2719 Apr 24 j 03:09	10° <del>∇</del> 32'20	1°59'18	retrograde	-2711 Aug 26 j 10:15	0° <del>✕</del> 59'13	
max. Earth dist.	-2719 Apr 24 j 09:45	10° <del>∇</del> 32'57	30.87359 AU		-2711 Oct 28 j 10:19	30° <del>R</del> <del>∇</del>	
retrograde	-2719 Aug 08 j 12:35	13° <del>∇</del> 05'21		opposition	-2711 Nov 12 j 05:45	29° <del>∇</del> 35'08	-1°-45'-26
opposition	-2719 Oct 25 j 18:30	11° <del>∇</del> 40'48	-2°-6'-37	min. Earth dist.	-2711 Nov 12 j 06:42	29° <del>∇</del> 35'04	28.92433 AU
min. Earth dist.	-2719 Oct 25 j 12:19	11° <del>∇</del> 41'15	28.87674 AU	direct	-2710 Jan 29 j 15:02	28° <del>∇</del> 10'16	
direct	-2718 Jan 11 j 15:47	10° <del>∇</del> 16'18			-2710 Apr 26 j 13:12	0° <del>✕</del>	
conjunction	-2718 Apr 26 j 17:34	12° <del>∇</del> 47'17	-1°-57'-30	conjunction	-2710 May 15 j 12:21	0° <del>✕</del> 41'46	-1°-37'-2
minimum elong	-2718 Apr 26 j 17:34	12° <del>∇</del> 47'17	1°57'30	minimum elong	-2710 May 15 j 12:22	0° <del>✕</del> 41'46	1°37'00
max. Earth dist.	-2718 Apr 26 j 23:08	12° <del>∇</del> 47'48	30.87720 AU	max. Earth dist.	-2710 May 15 j 10:46	0° <del>✕</del> 41'37	30.92831 AU

Attention, astronomical year style is used: The year -2710 in astronomical counting style is the year 2711 BCE in historical counting style.

retrograde	-2710 Aug 28 j 23:10	3°♃13'19		retrograde	-2702 Sep 15 j 17:09	21°♃04'25	
opposition	-2710 Nov 14 j 16:03	1°♃49'20	-1°-42'-1	opposition	-2702 Dec 02 j 02:33	19°♃40'56	-1°-9'-47
min. Earth dist.	-2710 Nov 14 j 17:01	1°♃49'16	28.93382 AU	min. Earth dist.	-2702 Dec 02 j 12:00	19°♃40'15	28.98669 AU
direct	-2709 Feb 01 j 03:25	0°♃24'29		direct	-2701 Feb 19 j 05:33	18°♃15'42	
conjunction	-2709 May 18 j 02:47	2°♃56'04	-1°-33'-46	conjunction	-2701 Jun 05 j 19:12	20°♃47'36	-1°-3'-9
minimum elong	-2709 May 18 j 02:47	2°♃56'04	1°33'45	minimum elong	-2701 Jun 05 j 19:13	20°♃47'36	1°03'08
max. Earth dist.	-2709 May 18 j 00:11	2°♃55'50	30.93754 AU	max. Earth dist.	-2701 Jun 05 j 08:05	20°♃46'34	30.99014 AU
retrograde	-2709 Aug 31 j 10:28	5°♃27'30		retrograde	-2701 Sep 18 j 04:57	23°♃17'35	
opposition	-2709 Nov 17 j 02:27	4°♃03'38	-1°-38'-27	opposition	-2701 Dec 04 j 12:34	21°♃54'09	-1°-5'-15
min. Earth dist.	-2709 Nov 17 j 05:34	4°♃03'24	28.94272 AU	min. Earth dist.	-2701 Dec 04 j 21:35	21°♃53'30	28.99471 AU
direct	-2708 Feb 03 j 14:37	2°♃38'45		direct	-2700 Feb 21 j 17:00	20°♃28'53	
conjunction	-2708 May 19 j 17:16	5°♃10'26	-1°-30'-22	conjunction	-2700 Jun 07 j 08:54	23°♃00'49	0°-58'-52
minimum elong	-2708 May 19 j 17:16	5°♃10'26	1°30'20	minimum elong	-2700 Jun 07 j 08:55	23°♃00'49	0°58'49
max. Earth dist.	-2708 May 19 j 13:31	5°♃10'05	30.94606 AU	max. Earth dist.	-2700 Jun 06 j 21:25	22°♃59'45	30.99880 AU
retrograde	-2708 Sep 01 j 23:40	7°♃41'43		retrograde	-2700 Sep 19 j 14:33	25°♃30'38	
opposition	-2708 Nov 18 j 12:50	6°♃17'55	-1°-34'-44	opposition	-2700 Dec 05 j 22:52	24°♃07'17	-1°00'-36
min. Earth dist.	-2708 Nov 18 j 16:14	6°♃17'41	28.95056 AU	min. Earth dist.	-2700 Dec 06 j 09:25	24°♃06'32	29.00403 AU
direct	-2707 Feb 05 j 04:57	4°♃53'02		direct	-2699 Feb 23 j 04:11	22°♃42'01	
conjunction	-2707 May 22 j 07:31	7°♃24'47	-1°-26'-49	conjunction	-2699 Jun 09 j 22:21	25°♃13'59	0°-54'-28
minimum elong	-2707 May 22 j 07:32	7°♃24'47	1°26'48	minimum elong	-2699 Jun 09 j 22:22	25°♃13'59	0°54'26
max. Earth dist.	-2707 May 22 j 01:55	7°♃24'16	30.95335 AU	max. Earth dist.	-2699 Jun 09 j 10:24	25°♃12'52	31.00880 AU
retrograde	-2707 Sep 04 j 11:39	9°♃55'54		retrograde	-2699 Sep 22 j 02:13	27°♃43'39	
opposition	-2707 Nov 20 j 23:17	8°♃32'10	-1°-30'-53	opposition	-2699 Dec 08 j 09:01	26°♃20'23	0°-55'-52
min. Earth dist.	-2707 Nov 21 j 04:26	8°♃31'48	28.95737 AU	min. Earth dist.	-2699 Dec 08 j 19:20	26°♃19'39	29.01436 AU
direct	-2706 Feb 07 j 17:02	7°♃07'14		direct	-2698 Feb 25 j 18:05	24°♃55'08	
conjunction	-2706 May 24 j 21:50	9°♃39'02	-1°-23'-9	conjunction	-2698 Jun 12 j 11:51	27°♃27'09	0°-50'00
minimum elong	-2706 May 24 j 21:50	9°♃39'02	1°23'07	minimum elong	-2698 Jun 12 j 11:51	27°♃27'09	0°49'57
max. Earth dist.	-2706 May 24 j 15:48	9°♃38'29	30.95976 AU	max. Earth dist.	-2698 Jun 11 j 22:44	27°♃25'56	31.01950 AU
retrograde	-2706 Sep 06 j 22:52	12°♃09'57		retrograde	-2698 Sep 24 j 13:38	29°♃56'41	
opposition	-2706 Nov 23 j 09:33	10°♃46'18	-1°-26'-54	opposition	-2698 Dec 10 j 19:12	28°♃33'31	0°-51'-3
min. Earth dist.	-2706 Nov 23 j 15:20	10°♃45'53	28.96326 AU	min. Earth dist.	-2698 Dec 11 j 06:55	28°♃32'41	29.02532 AU
direct	-2705 Feb 10 j 06:31	9°♃21'19		direct	-2697 Feb 28 j 05:29	27°♃08'15	
conjunction	-2705 May 27 j 11:53	11°♃53'08	-1°-19'-22	conjunction	-2697 Jun 15 j 01:25	29°♃40'20	0°-45'-28
minimum elong	-2705 May 27 j 11:53	11°♃53'08	1°19'21	minimum elong	-2697 Jun 15 j 01:26	29°♃40'20	0°45'25
max. Earth dist.	-2705 May 27 j 03:37	11°♃52'22	30.96544 AU	max. Earth dist.	-2697 Jun 14 j 12:09	29°♃39'07	31.03048 AU
retrograde	-2705 Sep 09 j 11:30	14°♃23'52		retrograde	-2697 Jun 23 j 21:32	0°♂	
opposition	-2705 Nov 25 j 19:51	13°♃00'15	-1°-22'-47	retrograde	-2697 Sep 27 j 01:00	2°♂09'43	
min. Earth dist.	-2705 Nov 26 j 02:39	12°♃59'46	28.96873 AU	opposition	-2697 Dec 13 j 05:28	0°♂46'39	0°-46'-10
direct	-2704 Feb 12 j 18:11	11°♃35'12		min. Earth dist.	-2697 Dec 13 j 17:44	0°♂45'48	29.03597 AU
conjunction	-2704 May 29 j 02:03	14°♃07'04	-1°-15'-28	direct	-2696 Jan 11 j 10:28	30°♂	
minimum elong	-2704 May 29 j 02:03	14°♃07'04	1°15'25	direct	-2696 Mar 01 j 18:49	29°♂21'25	
max. Earth dist.	-2704 May 28 j 17:55	14°♃06'18	30.97081 AU	direct	-2696 Apr 20 j 03:37	0°♂	
retrograde	-2704 Jun 22 j 07:33	15°♂		conjunction	-2696 Jun 16 j 14:53	1°♂53'32	0°-40'-51
opposition	-2704 Sep 10 j 21:27	16°♂37'35		minimum elong	-2696 Jun 16 j 14:53	1°♂53'32	0°40'47
opposition	-2704 Nov 27 j 06:04	15°♂14'00	-1°-18'-34	max. Earth dist.	-2696 Jun 15 j 23:31	1°♂52'07	31.04082 AU
min. Earth dist.	-2704 Nov 27 j 14:05	15°♂13'26	28.97403 AU	retrograde	-2696 Sep 28 j 13:47	4°♂22'46	
direct	-2704 Dec 05 j 12:40	15°♂		opposition	-2696 Dec 14 j 15:48	2°♂59'47	0°-41'-12
direct	-2703 Feb 14 j 06:24	13°♂48'54		min. Earth dist.	-2696 Dec 15 j 04:58	2°♂58'51	29.04597 AU
direct	-2703 Apr 23 j 11:26	15°♂		direct	-2695 Mar 04 j 07:06	1°♂34'32	
conjunction	-2703 May 31 j 15:53	16°♂20'46	-1°-11'-28	conjunction	-2695 Jun 19 j 04:26	4°♂06'41	0°-36'-11
minimum elong	-2703 May 31 j 15:54	16°♂20'46	1°11'26	minimum elong	-2695 Jun 19 j 04:26	4°♂06'41	0°36'09
max. Earth dist.	-2703 May 31 j 05:52	16°♂19'50	30.97641 AU	max. Earth dist.	-2695 Jun 18 j 13:09	4°♂05'16	31.05029 AU
retrograde	-2703 Sep 13 j 08:21	18°♂51'06		retrograde	-2695 Sep 30 j 23:38	6°♂35'45	
opposition	-2703 Nov 29 j 16:16	17°♂27'34	-1°-14'-14	opposition	-2695 Dec 17 j 02:16	5°♂12'51	0°-36'-11
min. Earth dist.	-2703 Nov 30 j 00:20	17°♂26'59	28.97994 AU	min. Earth dist.	-2695 Dec 17 j 16:44	5°♂11'50	29.05486 AU
direct	-2702 Feb 16 j 18:04	16°♂02'23		direct	-2694 Mar 06 j 20:01	3°♂47'35	
conjunction	-2702 Jun 03 j 05:34	18°♂34'16	-1°-7'-22	conjunction	-2694 Jun 21 j 17:34	6°♂19'44	0°-31'-29
minimum elong	-2702 Jun 03 j 05:34	18°♂34'16	1°07'19	minimum elong	-2694 Jun 21 j 17:34	6°♂19'44	0°31'25
max. Earth dist.	-2702 Jun 02 j 19:48	18°♂33'22	30.98268 AU	max. Earth dist.	-2694 Jun 21 j 00:14	6°♂18'07	31.05874 AU

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Attention, astronomical year style is used: The year -2694 in astronomical counting style is the year 2695 BCE in historical counting style.

retrograde	-2694 Oct 03 j 10:53	8°II48'38		min. Earth dist.	-2686 Jan 04 j 07:07	22°II50'39	29.11856 AU
opposition	-2694 Dec 19 j 12:35	7°II25'47	0°-31'-8	direct	-2686 Mar 24 j 20:51	21°II26'30	
min. Earth dist.	-2694 Dec 20 j 03:17	7°II24'45	29.06280 AU				
direct	-2693 Mar 09 j 08:05	6°II00'29		conjunction	-2686 Jul 09 j 23:39	23°II58'39	0°07'11
				minimum elong	-2686 Jul 09 j 23:39	23°II58'39	0°07'16
conjunction	-2693 Jun 24 j 06:57	8°II32'38	0°-26'-43	behind sun begin	-2686 Jul 09 j 17:39	23°II58'07	
minimum elong	-2693 Jun 24 j 06:57	8°II32'38	0°26'41	behind sun end	-2686 Jul 10 j 05:40	23°II59'11	
max. Earth dist.	-2693 Jun 23 j 13:35	8°II31'02	31.06617 AU	max. Earth dist.	-2686 Jul 09 j 03:14	23°II56'46	31.12398 AU
retrograde	-2693 Oct 05 j 19:47	11°II01'22		retrograde	-2686 Oct 20 j 21:51	26°II26'26	
opposition	-2693 Dec 21 j 22:54	9°II38'34	0°-26'-2	opposition	-2685 Jan 05 j 23:21	25°II04'02	0°10'10
min. Earth dist.	-2693 Dec 22 j 15:19	9°II37'25	29.06983 AU	min. Earth dist.	-2685 Jan 06 j 18:30	25°II02'42	29.12988 AU
direct	-2692 Mar 10 j 19:42	8°II13'13		direct	-2685 Mar 27 j 09:44	23°II38'40	
conjunction	-2692 Jun 25 j 20:02	10°II45'22	0°-21'-56	conjunction	-2685 Jul 12 j 11:56	26°II10'50	0°12'01
minimum elong	-2692 Jun 25 j 20:02	10°II45'22	0°21'53	minimum elong	-2685 Jul 12 j 11:56	26°II10'50	0°12'05
max. Earth dist.	-2692 Jun 25 j 01:06	10°II43'37	31.07302 AU	behind sun begin	-2685 Jul 12 j 07:32	26°II10'26	
retrograde	-2692 Oct 07 j 07:00	13°II13'55		behind sun end	-2685 Jul 12 j 16:20	26°II11'13	
opposition	-2692 Dec 23 j 09:11	11°II51'10	0°-20'-54	max. Earth dist.	-2685 Jul 11 j 14:01	26°II08'48	31.13547 AU
min. Earth dist.	-2692 Dec 24 j 01:18	11°II50'02	29.07645 AU	retrograde	-2685 Oct 23 j 09:19	28°II38'31	
direct	-2691 Mar 13 j 07:26	10°II25'46		opposition	-2684 Jan 08 j 09:41	27°II16'14	0°15'20
				min. Earth dist.	-2684 Jan 09 j 04:41	27°II14'54	29.14137 AU
conjunction	-2691 Jun 28 j 08:54	12°II57'53	0°-17'-8	direct	-2684 Mar 28 j 21:29	25°II50'53	
minimum elong	-2691 Jun 28 j 08:54	12°II57'53	0°17'05	max. Earth dist.	-2684 Jul 13 j 02:52	28°II21'06	31.14666 AU
max. Earth dist.	-2691 Jun 27 j 13:43	12°II56'07	31.07952 AU				
retrograde	-2691 Oct 09 j 15:46	15°II26'18		conjunction	-2684 Jul 14 j 00:22	28°II23'05	0°16'50
opposition	-2691 Dec 25 j 19:36	14°II03'34	0°-15'-45	minimum elong	-2684 Jul 14 j 00:22	28°II23'05	0°16'55
min. Earth dist.	-2691 Dec 26 j 13:15	14°II02'19	29.08311 AU		-2684 Aug 30 j 03:36	0°☾	
direct	-2690 Mar 15 j 18:49	12°II38'08		retrograde	-2684 Oct 24 j 18:51	0°☾50'40	
					-2684 Dec 21 j 11:46	30°RII	
conjunction	-2690 Jun 30 j 21:39	15°II10'14	0°-12'-19	opposition	-2683 Jan 09 j 20:28	29°II28'29	0°20'29
minimum elong	-2690 Jun 30 j 21:39	15°II10'14	0°12'15	min. Earth dist.	-2683 Jan 10 j 16:56	29°II27'03	29.15226 AU
behind sun begin	-2690 Jun 30 j 17:21	15°II09'51		direct	-2683 Mar 31 j 09:07	28°II03'11	
behind sun end	-2690 Jul 01 j 01:58	15°II10'37			-2683 Jun 30 j 12:49	0°☾	
max. Earth dist.	-2690 Jun 30 j 02:02	15°II08'25	31.08645 AU				
retrograde	-2690 Oct 12 j 02:17	17°II38'29		conjunction	-2683 Jul 16 j 12:26	0°☾35'22	0°21'38
opposition	-2690 Dec 28 j 05:44	16°II15'47	0°-10'-34	minimum elong	-2683 Jul 16 j 12:25	0°☾35'22	0°21'42
min. Earth dist.	-2690 Dec 28 j 23:02	16°II14'34	29.09030 AU	max. Earth dist.	-2683 Jul 15 j 13:36	0°☾33'15	31.15710 AU
direct	-2689 Mar 18 j 08:14	14°II50'19		retrograde	-2683 Oct 27 j 06:08	3°☾02'52	
				opposition	-2682 Jan 12 j 07:06	1°☾40'45	0°25'36
conjunction	-2689 Jul 03 j 10:19	17°II22'25	0°-7'-29	min. Earth dist.	-2682 Jan 13 j 03:08	1°☾39'21	29.16217 AU
minimum elong	-2689 Jul 03 j 10:19	17°II22'25	0°07'26	direct	-2682 Apr 02 j 20:51	0°☾15'28	
behind sun begin	-2689 Jul 03 j 04:20	17°II21'53		max. Earth dist.	-2682 Jul 18 j 01:32	2°☾45'29	31.16630 AU
behind sun end	-2689 Jul 03 j 16:18	17°II22'57					
max. Earth dist.	-2689 Jul 02 j 13:55	17°II20'32	31.09403 AU	conjunction	-2682 Jul 19 j 00:40	2°☾47'38	0°26'24
retrograde	-2689 Oct 14 j 12:57	19°II50'32		minimum elong	-2682 Jul 19 j 00:40	2°☾47'38	0°26'28
opposition	-2689 Dec 30 j 16:07	18°II27'53	0°-5'-23	retrograde	-2682 Oct 29 j 14:24	5°☾15'02	
min. Earth dist.	-2689 Dec 31 j 10:18	18°II26'36	29.09852 AU	opposition	-2681 Jan 14 j 17:47	3°☾52'57	0°30'40
direct	-2688 Mar 19 j 19:20	17°II02'24		min. Earth dist.	-2681 Jan 15 j 15:29	3°☾51'27	29.17085 AU
				direct	-2681 Apr 05 j 08:04	2°☾27'40	
conjunction	-2688 Jul 04 j 22:53	19°II34'30	0°-2'-38				
minimum elong	-2688 Jul 04 j 22:54	19°II34'30	0°02'34	conjunction	-2681 Jul 21 j 12:50	4°☾59'49	0°31'07
behind sun begin	-2688 Jul 04 j 16:21	19°II33'55		minimum elong	-2681 Jul 21 j 12:50	4°☾59'49	0°31'11
behind sun end	-2688 Jul 05 j 05:27	19°II35'05		max. Earth dist.	-2681 Jul 20 j 13:02	4°☾57'36	31.17436 AU
max. Earth dist.	-2688 Jul 04 j 02:56	19°II32'39	31.10283 AU	retrograde	-2681 Nov 01 j 00:18	7°☾27'05	
retrograde	-2688 Oct 15 j 23:30	22°II02'29		opposition	-2680 Jan 17 j 04:31	6°☾05'03	0°35'42
opposition	-2687 Jan 01 j 02:28	20°II39'54	0°00'-12	min. Earth dist.	-2680 Jan 18 j 02:02	6°☾03'33	29.17821 AU
min. Earth dist.	-2687 Jan 01 j 20:35	20°II38'38	29.10786 AU	direct	-2680 Apr 06 j 20:51	4°☾39'45	
asc. node	-2687 Jan 16 j 05:11	20°II14'53		max. Earth dist.	-2680 Jul 22 j 00:07	7°☾09'33	31.18110 AU
direct	-2687 Mar 22 j 08:35	19°II14'27					
				conjunction	-2680 Jul 23 j 00:47	7°☾11'50	0°35'48
conjunction	-2687 Jul 07 j 11:18	21°II46'33	0°02'20	minimum elong	-2680 Jul 23 j 00:47	7°☾11'50	0°35'53
minimum elong	-2687 Jul 07 j 11:17	21°II46'33	0°02'24	retrograde	-2680 Nov 02 j 10:37	9°☾39'00	
behind sun begin	-2687 Jul 07 j 04:44	21°II45'59		opposition	-2679 Jan 18 j 15:20	8°☾16'58	0°40'40
behind sun end	-2687 Jul 07 j 17:51	21°II47'08		min. Earth dist.	-2679 Jan 19 j 13:51	8°☾15'24	29.18462 AU
max. Earth dist.	-2687 Jul 06 j 14:03	21°II44'36	31.11286 AU	direct	-2679 Apr 09 j 07:23	6°☾51'38	
retrograde	-2687 Oct 18 j 12:15	24°II14'26					
opposition	-2686 Jan 03 j 12:51	22°II51'56	0°04'59	conjunction	-2679 Jul 25 j 12:40	9°☾23'40	0°40'25

Planetary Phenomena of Neptune from -2900 through -2400 (UT), Astrodienst AG 14-Nov-2015 16:06, page 15

Attention, astronomical year style is used: The year -2679 in astronomical counting style is the year 2680 BCE in historical counting style.

minimum elong	-2679 Jul 25 j 12:40	9° $\overline{23}$ '40	0°40'29	opposition	-2670 Feb 07 j 17:44	27° $\overline{58}$ '42	1°21'45
max. Earth dist.	-2679 Jul 24 j 12:20	9° $\overline{21}$ '24	31.18712 AU	min. Earth dist.	-2670 Feb 08 j 17:06	27° $\overline{57}$ '06	29.24975 AU
retrograde	-2679 Nov 04 j 20:28	11° $\overline{50}$ '42		direct	-2670 Apr 29 j 19:28	26° $\overline{33}$ '35	
opposition	-2678 Jan 21 j 02:06	10° $\overline{28}$ '40	0°45'34				
min. Earth dist.	-2678 Jan 22 j 00:43	10° $\overline{27}$ '06	29.19034 AU	conjunction	-2670 Aug 14 j 17:50	29° $\overline{05}$ '16	1°18'28
direct	-2678 Apr 11 j 21:16	9° $\overline{03}$ '19		minimum elong	-2670 Aug 14 j 17:50	29° $\overline{05}$ '16	1°18'32
max. Earth dist.	-2678 Jul 26 j 22:40	11° $\overline{32}$ '54	31.19267 AU	max. Earth dist.	-2670 Aug 13 j 17:18	29° $\overline{02}$ '59	31.25215 AU
					-2670 Sep 08 j 17:08	0° $\Omega$	
conjunction	-2678 Jul 28 j 00:12	11° $\overline{35}$ '16	0°44'58	retrograde	-2670 Nov 24 j 16:18	1° $\Omega$ 31'49	
minimum elong	-2678 Jul 28 j 00:12	11° $\overline{35}$ '16	0°45'03	opposition	-2669 Feb 10 j 05:02	0° $\Omega$ 10'08	1°25'48
retrograde	-2678 Nov 07 j 08:21	14° $\overline{02}$ '11		min. Earth dist.	-2669 Feb 11 j 04:28	0° $\Omega$ 08'32	29.25591 AU
opposition	-2677 Jan 23 j 12:51	12° $\overline{40}$ '09	0°50'24		-2669 Feb 16 j 08:56	30° $\overline{R}$ $\overline{3}$	
min. Earth dist.	-2677 Jan 24 j 11:33	12° $\overline{38}$ '35	29.19599 AU	direct	-2669 May 02 j 08:56	28° $\overline{45}$ '04	
direct	-2677 Apr 14 j 09:41	11° $\overline{14}$ '46			-2669 Jul 12 j 07:12	0° $\Omega$	
max. Earth dist.	-2677 Jul 29 j 11:16	13° $\overline{44}$ '23	31.19833 AU	max. Earth dist.	-2669 Aug 16 j 02:57	1° $\Omega$ 14'18	31.25755 AU
conjunction	-2677 Jul 30 j 11:49	13° $\overline{46}$ '39	0°49'27	conjunction	-2669 Aug 17 j 04:43	1° $\Omega$ 16'42	1°22'12
minimum elong	-2677 Jul 30 j 11:48	13° $\overline{46}$ '39	0°49'32	minimum elong	-2669 Aug 17 j 04:42	1° $\Omega$ 16'42	1°22'16
retrograde	-2677 Nov 09 j 17:15	16° $\overline{13}$ '28		retrograde	-2669 Nov 27 j 04:36	3° $\Omega$ 43'14	
opposition	-2676 Jan 25 j 23:41	14° $\overline{51}$ '26	0°55'09	opposition	-2668 Feb 12 j 16:22	2° $\Omega$ 21'34	1°29'43
min. Earth dist.	-2676 Jan 26 j 22:58	14° $\overline{49}$ '49	29.20188 AU	min. Earth dist.	-2668 Feb 13 j 15:47	2° $\Omega$ 19'58	29.26075 AU
direct	-2676 Apr 15 j 22:52	13° $\overline{26}$ '02		direct	-2668 May 03 j 20:40	0° $\Omega$ 56'30	
conjunction	-2676 Jul 31 j 23:08	15° $\overline{57}$ '52	0°53'52	conjunction	-2668 Aug 18 j 15:39	3° $\Omega$ 28'06	1°25'49
minimum elong	-2676 Jul 31 j 23:08	15° $\overline{57}$ '52	0°53'56	minimum elong	-2668 Aug 18 j 15:39	3° $\Omega$ 28'06	1°25'53
max. Earth dist.	-2676 Jul 30 j 21:39	15° $\overline{55}$ '30	31.20462 AU	max. Earth dist.	-2668 Aug 17 j 14:49	3° $\Omega$ 25'47	31.26162 AU
retrograde	-2676 Nov 11 j 04:41	18° $\overline{24}$ '35		retrograde	-2668 Nov 28 j 13:48	5° $\Omega$ 54'36	
opposition	-2675 Jan 27 j 10:33	17° $\overline{02}$ '35	0°59'49	opposition	-2667 Feb 14 j 03:53	4° $\Omega$ 32'55	1°33'31
min. Earth dist.	-2675 Jan 28 j 08:56	17° $\overline{01}$ '02	29.20873 AU	min. Earth dist.	-2667 Feb 15 j 03:59	4° $\Omega$ 31'16	29.26417 AU
direct	-2675 Apr 18 j 11:10	15° $\overline{37}$ '11		direct	-2667 May 06 j 09:17	3° $\Omega$ 07'53	
max. Earth dist.	-2675 Aug 02 j 10:02	18° $\overline{06}$ '43	31.21185 AU	max. Earth dist.	-2667 Aug 20 j 00:19	5° $\Omega$ 36'58	31.26450 AU
conjunction	-2675 Aug 03 j 10:22	18° $\overline{08}$ '59	0°58'12	conjunction	-2667 Aug 21 j 02:09	5° $\Omega$ 39'23	1°29'18
minimum elong	-2675 Aug 03 j 10:22	18° $\overline{08}$ '59	0°58'16	minimum elong	-2667 Aug 21 j 02:08	5° $\Omega$ 39'23	1°29'22
retrograde	-2675 Nov 13 j 14:04	20° $\overline{35}$ '38		retrograde	-2667 Dec 01 j 01:32	8° $\Omega$ 05'51	
opposition	-2674 Jan 29 j 21:33	19° $\overline{13}$ '40	1°04'24	opposition	-2666 Feb 16 j 15:13	6° $\Omega$ 44'09	1°37'10
min. Earth dist.	-2674 Jan 30 j 20:44	19° $\overline{12}$ '04	29.21650 AU	min. Earth dist.	-2666 Feb 17 j 14:33	6° $\Omega$ 42'33	29.26662 AU
direct	-2674 Apr 20 j 23:24	17° $\overline{48}$ '19		direct	-2666 May 08 j 22:11	5° $\Omega$ 19'06	
				max. Earth dist.	-2666 Aug 22 j 12:00	7° $\Omega$ 48'12	31.26645 AU
conjunction	-2674 Aug 05 j 21:31	20° $\overline{20}$ '04	1°02'27	conjunction	-2666 Aug 23 j 12:48	7° $\Omega$ 50'32	1°32'39
minimum elong	-2674 Aug 05 j 21:31	20° $\overline{20}$ '04	1°02'31	minimum elong	-2666 Aug 23 j 12:48	7° $\Omega$ 50'32	1°32'43
max. Earth dist.	-2674 Aug 04 j 20:35	20° $\overline{17}$ '45	31.22009 AU	retrograde	-2666 Dec 03 j 11:18	10° $\Omega$ 16'56	
retrograde	-2674 Nov 16 j 00:59	22° $\overline{46}$ '41		opposition	-2665 Feb 19 j 02:35	8° $\Omega$ 55'13	1°40'41
opposition	-2673 Feb 01 j 08:17	21° $\overline{24}$ '47	1°08'54	min. Earth dist.	-2665 Feb 20 j 02:50	8° $\Omega$ 53'33	29.26839 AU
min. Earth dist.	-2673 Feb 02 j 06:27	21° $\overline{23}$ '15	29.22503 AU	direct	-2665 May 11 j 11:29	7° $\Omega$ 30'09	
direct	-2673 Apr 23 j 11:24	19° $\overline{59}$ '29					
max. Earth dist.	-2673 Aug 07 j 08:09	22° $\overline{28}$ '56	31.22873 AU				
				conjunction	-2665 Aug 25 j 23:10	10° $\Omega$ 01'29	1°35'52
conjunction	-2673 Aug 08 j 08:46	22° $\overline{31}$ '14	1°06'36	minimum elong	-2665 Aug 25 j 23:10	10° $\Omega$ 01'29	1°35'56
minimum elong	-2673 Aug 08 j 08:45	22° $\overline{31}$ '14	1°06'40	max. Earth dist.	-2665 Aug 24 j 22:01	9° $\Omega$ 59'08	31.26816 AU
retrograde	-2673 Nov 18 j 09:44	24° $\overline{57}$ '49		retrograde	-2665 Dec 05 j 21:49	12° $\Omega$ 27'51	
opposition	-2672 Feb 03 j 19:24	23° $\overline{35}$ '59	1°13'17	opposition	-2664 Feb 21 j 14:00	11° $\Omega$ 06'06	1°44'03
min. Earth dist.	-2672 Feb 04 j 18:39	23° $\overline{34}$ '23	29.23382 AU	min. Earth dist.	-2664 Feb 22 j 12:53	11° $\Omega$ 04'32	29.27017 AU
direct	-2672 Apr 24 j 22:03	22° $\overline{10}$ '45		direct	-2664 May 13 j 00:36	9° $\Omega$ 41'01	
				max. Earth dist.	-2664 Aug 26 j 08:59	12° $\Omega$ 09'58	31.27004 AU
conjunction	-2672 Aug 09 j 19:46	24° $\overline{42}$ '30	1°10'40	conjunction	-2664 Aug 27 j 09:23	12° $\Omega$ 12'15	1°38'57
minimum elong	-2672 Aug 09 j 19:46	24° $\overline{42}$ '30	1°10'44	minimum elong	-2664 Aug 27 j 09:23	12° $\Omega$ 12'15	1°39'00
max. Earth dist.	-2672 Aug 08 j 19:13	24° $\overline{40}$ '12	31.23738 AU	retrograde	-2664 Dec 07 j 05:58	14° $\Omega$ 38'36	
retrograde	-2672 Nov 19 j 19:35	27° $\overline{09}$ '04		opposition	-2663 Feb 23 j 01:38	13° $\Omega$ 16'49	1°47'16
opposition	-2671 Feb 05 j 06:32	25° $\overline{47}$ '18	1°17'34	min. Earth dist.	-2663 Feb 24 j 00:59	13° $\Omega$ 15'13	29.27256 AU
min. Earth dist.	-2671 Feb 06 j 05:12	25° $\overline{45}$ '44	29.24216 AU	direct	-2663 May 15 j 11:48	11° $\Omega$ 51'45	
direct	-2671 Apr 27 j 09:58	24° $\overline{22}$ '08					
max. Earth dist.	-2671 Aug 11 j 05:45	26° $\overline{51}$ '31	31.24525 AU				
				conjunction	-2663 Aug 29 j 19:32	14° $\Omega$ 22'53	1°41'53
conjunction	-2671 Aug 12 j 06:49	26° $\overline{53}$ '51	1°14'37	minimum elong	-2663 Aug 29 j 19:32	14° $\Omega$ 22'53	1°41'57
minimum elong	-2671 Aug 12 j 06:49	26° $\overline{53}$ '51	1°14'41	max. Earth dist.	-2663 Aug 28 j 19:52	14° $\Omega$ 20'40	31.27287 AU
retrograde	-2671 Nov 22 j 06:20	29° $\overline{20}$ '25			-2663 Sep 15 j 11:48	15° $\Omega$	

Attention, astronomical year style is used: The year -2663 in astronomical counting style is the year 2664 BCE in historical counting style.

retrograde	-2663 Dec 09 j 15:04	16° $\Omega$ 49'13		conjunction	-2655 Sep 16 j 03:03	1° $\Upsilon$ 48'30	1°59'48
opposition	-2662 Feb 25 j 13:02	15° $\Omega$ 27'26	1°50'20	minimum elong	-2655 Sep 16 j 03:03	1° $\Upsilon$ 48'30	1°59'50
min. Earth dist.	-2662 Feb 26 j 11:06	15° $\Omega$ 25'55	29.27586 AU	retrograde	-2655 Dec 27 j 03:18	4° $\Upsilon$ 15'10	
	-2662 Mar 14 j 13:32	15° $\Upsilon$ $\Omega$		opposition	-2654 Mar 15 j 11:54	2° $\Upsilon$ 53'20	2°08'47
direct	-2662 May 17 j 23:58	14° $\Omega$ 02'24		min. Earth dist.	-2654 Mar 16 j 08:06	2° $\Upsilon$ 51'58	29.30078 AU
	-2662 Jul 18 j 08:13	15° $\Omega$		direct	-2654 Jun 04 j 21:40	1° $\Upsilon$ 28'44	
max. Earth dist.	-2662 Aug 31 j 06:02	16° $\Omega$ 31'15	31.27662 AU				
				conjunction	-2654 Sep 18 j 12:48	3° $\Upsilon$ 59'12	2°01'18
conjunction	-2662 Sep 01 j 05:37	16° $\Omega$ 33'27	1°44'41	minimum elong	-2654 Sep 18 j 12:48	3° $\Upsilon$ 59'12	2°01'20
minimum elong	-2662 Sep 01 j 05:37	16° $\Omega$ 33'27	1°44'44	max. Earth dist.	-2654 Sep 17 j 16:45	3° $\Upsilon$ 57'19	31.29873 AU
retrograde	-2662 Dec 12 j 01:30	18° $\Omega$ 59'49		retrograde	-2654 Dec 29 j 12:42	6° $\Upsilon$ 25'53	
opposition	-2661 Feb 28 j 00:37	17° $\Omega$ 38'01	1°53'14	opposition	-2653 Mar 17 j 23:58	5° $\Upsilon$ 04'01	2°10'18
min. Earth dist.	-2661 Feb 28 j 22:38	17° $\Omega$ 36'31	29.28017 AU	min. Earth dist.	-2653 Mar 18 j 19:02	5° $\Upsilon$ 02'43	29.29948 AU
direct	-2661 May 20 j 09:37	16° $\Omega$ 13'02		direct	-2653 Jun 07 j 10:38	3° $\Upsilon$ 39'25	
conjunction	-2661 Sep 03 j 15:41	18° $\Omega$ 44'02	1°47'19	conjunction	-2653 Sep 20 j 22:16	6° $\Upsilon$ 09'46	2°02'38
minimum elong	-2661 Sep 03 j 15:40	18° $\Omega$ 44'01	1°47'22	minimum elong	-2653 Sep 20 j 22:16	6° $\Upsilon$ 09'46	2°02'40
max. Earth dist.	-2661 Sep 02 j 17:29	18° $\Omega$ 41'57	31.28123 AU	max. Earth dist.	-2653 Sep 20 j 02:16	6° $\Upsilon$ 07'53	31.29712 AU
retrograde	-2661 Dec 14 j 10:40	21° $\Omega$ 10'25		retrograde	-2653 Dec 31 j 23:09	8° $\Upsilon$ 36'31	
opposition	-2660 Mar 01 j 12:17	19° $\Omega$ 48'38	1°55'58	opposition	-2652 Mar 19 j 12:08	7° $\Upsilon$ 14'35	2°11'37
min. Earth dist.	-2660 Mar 02 j 09:41	19° $\Omega$ 47'11	29.28494 AU	min. Earth dist.	-2652 Mar 20 j 07:02	7° $\Upsilon$ 13'18	29.29789 AU
direct	-2660 May 21 j 22:22	18° $\Omega$ 23'44		direct	-2652 Jun 08 j 20:57	5° $\Upsilon$ 50'00	
max. Earth dist.	-2660 Sep 04 j 02:53	20° $\Omega$ 52'31	31.28615 AU				
				conjunction	-2652 Sep 22 j 07:46	8° $\Upsilon$ 20'14	2°03'47
conjunction	-2660 Sep 05 j 01:36	20° $\Omega$ 54'39	1°49'48	minimum elong	-2652 Sep 22 j 07:46	8° $\Upsilon$ 20'14	2°03'48
minimum elong	-2660 Sep 05 j 01:36	20° $\Omega$ 54'39	1°49'51	max. Earth dist.	-2652 Sep 21 j 13:27	8° $\Upsilon$ 18'31	31.29557 AU
retrograde	-2660 Dec 15 j 22:39	23° $\Omega$ 21'05		retrograde	-2651 Jan 02 j 08:01	10° $\Upsilon$ 47'02	
opposition	-2659 Mar 04 j 00:02	21° $\Omega$ 59'19	1°58'32	opposition	-2651 Mar 22 j 00:21	9° $\Upsilon$ 25'03	2°12'45
min. Earth dist.	-2659 Mar 04 j 20:47	21° $\Omega$ 57'55	29.28996 AU	min. Earth dist.	-2651 Mar 22 j 18:17	9° $\Upsilon$ 23'50	29.29651 AU
direct	-2659 May 24 j 08:22	20° $\Omega$ 34'29		direct	-2651 Jun 11 j 09:36	8° $\Upsilon$ 00'30	
conjunction	-2659 Sep 07 j 11:32	23° $\Omega$ 05'21	1°52'08	conjunction	-2651 Sep 24 j 16:58	10° $\Upsilon$ 30'38	2°04'45
minimum elong	-2659 Sep 07 j 11:32	23° $\Omega$ 05'21	1°52'11	minimum elong	-2651 Sep 24 j 16:58	10° $\Upsilon$ 30'38	2°04'46
max. Earth dist.	-2659 Sep 06 j 14:18	23° $\Omega$ 03'22	31.29089 AU	max. Earth dist.	-2651 Sep 23 j 22:30	10° $\Upsilon$ 28'53	31.29454 AU
retrograde	-2659 Dec 18 j 08:11	25° $\Omega$ 31'51		retrograde	-2650 Jan 04 j 19:42	12° $\Upsilon$ 57'30	
opposition	-2658 Mar 06 j 11:56	24° $\Omega$ 10'05	2°00'56	opposition	-2650 Mar 24 j 12:29	11° $\Upsilon$ 35'28	2°13'42
min. Earth dist.	-2658 Mar 07 j 09:04	24° $\Omega$ 08'39	29.29438 AU	min. Earth dist.	-2650 Mar 25 j 05:14	11° $\Upsilon$ 34'20	29.29599 AU
direct	-2658 May 26 j 20:06	22° $\Omega$ 45'19		direct	-2650 Jun 13 j 19:06	10° $\Upsilon$ 10'58	
				max. Earth dist.	-2650 Sep 26 j 09:50	12° $\Upsilon$ 39'27	31.29440 AU
conjunction	-2658 Sep 09 j 21:25	25° $\Omega$ 16'07	1°54'18	conjunction	-2650 Sep 27 j 02:23	12° $\Upsilon$ 41'00	2°05'33
minimum elong	-2658 Sep 09 j 21:25	25° $\Omega$ 16'07	1°54'20	minimum elong	-2650 Sep 27 j 02:23	12° $\Upsilon$ 41'00	2°05'33
max. Earth dist.	-2658 Sep 08 j 23:29	25° $\Omega$ 14'03	31.29488 AU	retrograde	-2649 Jan 07 j 05:07	15° $\Upsilon$ 07'58	
retrograde	-2658 Dec 20 j 20:27	27° $\Omega$ 42'39		opposition	-2649 Mar 27 j 00:42	13° $\Upsilon$ 45'55	2°14'27
opposition	-2657 Mar 08 j 23:40	26° $\Omega$ 20'54	2°03'10	min. Earth dist.	-2649 Mar 27 j 17:11	13° $\Upsilon$ 44'48	29.29627 AU
min. Earth dist.	-2657 Mar 09 j 19:47	26° $\Omega$ 19'32	29.29790 AU	direct	-2649 Jun 16 j 06:11	12° $\Upsilon$ 21'29	
direct	-2657 May 29 j 08:24	24° $\Omega$ 56'11					
max. Earth dist.	-2657 Sep 11 j 10:36	27° $\Omega$ 24'58	31.29770 AU				
				conjunction	-2649 Sep 29 j 11:37	14° $\Upsilon$ 51'27	2°06'10
conjunction	-2657 Sep 12 j 07:28	27° $\Omega$ 26'55	1°56'18	minimum elong	-2649 Sep 29 j 11:37	14° $\Upsilon$ 51'27	2°06'11
minimum elong	-2657 Sep 12 j 07:27	27° $\Omega$ 26'55	1°56'20	max. Earth dist.	-2649 Sep 28 j 19:07	14° $\Upsilon$ 49'54	31.29524 AU
retrograde	-2657 Dec 23 j 07:04	29° $\Omega$ 53'30		retrograde	-2648 Jan 09 j 17:50	17° $\Upsilon$ 18'30	
opposition	-2656 Mar 10 j 11:50	28° $\Omega$ 31'44	2°05'13	opposition	-2648 Mar 28 j 13:00	15° $\Upsilon$ 56'27	2°15'01
min. Earth dist.	-2656 Mar 11 j 08:41	28° $\Omega$ 30'19	29.30015 AU	min. Earth dist.	-2648 Mar 29 j 03:43	15° $\Upsilon$ 55'27	29.29746 AU
direct	-2656 May 30 j 21:11	27° $\Omega$ 07'05		direct	-2648 Jun 17 j 17:58	14° $\Upsilon$ 32'06	
conjunction	-2656 Sep 13 j 17:12	29° $\Omega$ 37'44	1°58'08	conjunction	-2648 Sep 30 j 20:50	17° $\Upsilon$ 02'01	2°06'36
minimum elong	-2656 Sep 13 j 17:12	29° $\Omega$ 37'44	1°58'10	minimum elong	-2648 Sep 30 j 20:50	17° $\Upsilon$ 02'01	2°06'36
max. Earth dist.	-2656 Sep 12 j 20:07	29° $\Omega$ 35'45	31.29931 AU	max. Earth dist.	-2648 Sep 30 j 06:00	17° $\Upsilon$ 00'37	31.29662 AU
	-2656 Sep 23 j 14:59	0° $\Upsilon$		retrograde	-2647 Jan 11 j 05:18	19° $\Upsilon$ 29'12	
retrograde	-2656 Dec 24 j 18:06	2° $\Upsilon$ 04'21		opposition	-2647 Mar 31 j 01:31	18° $\Upsilon$ 07'07	2°15'23
opposition	-2655 Mar 12 j 23:52	0° $\Upsilon$ 42'34	2°07'05	min. Earth dist.	-2647 Mar 31 j 16:26	18° $\Upsilon$ 06'07	29.29897 AU
min. Earth dist.	-2655 Mar 13 j 19:22	0° $\Upsilon$ 41'15	29.30106 AU	direct	-2647 Jun 20 j 05:52	16° $\Upsilon$ 42'53	
	-2655 Apr 09 j 08:25	30° $\Upsilon$ $\Omega$					
direct	-2655 Jun 02 j 10:10	29° $\Omega$ 17'56		conjunction	-2647 Oct 03 j 06:05	19° $\Upsilon$ 12'43	2°06'51
	-2655 Jul 24 j 06:15	0° $\Upsilon$		minimum elong	-2647 Oct 03 j 06:05	19° $\Upsilon$ 12'43	2°06'52
max. Earth dist.	-2655 Sep 15 j 06:22	1° $\Upsilon$ 46'33	31.29950 AU	max. Earth dist.	-2647 Oct 02 j 15:37	19° $\Upsilon$ 11'21	31.29818 AU
				retrograde	-2646 Jan 13 j 16:46	21° $\Upsilon$ 40'01	



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Attention, astronomical year style is used: The year -2646 in astronomical counting style is the year 2647 BCE in historical counting style.

opposition	-2646 Apr 02 j 13:46	20° $\mathring{M}$ 17'57	2°15'33	max. Earth dist.	-2639 Oct 19 j 23:16	6° $\mathring{A}$ 38'59	31.27377 AU
min. Earth dist.	-2646 Apr 03 j 02:59	20° $\mathring{M}$ 17'04	29.30030 AU	retrograde	-2638 Jan 31 j 06:01	9° $\mathring{A}$ 07'54	
direct	-2646 Jun 22 j 17:56	18° $\mathring{M}$ 53'48		opposition	-2638 Apr 20 j 19:33	7° $\mathring{A}$ 45'19	2°09'59
				min. Earth dist.	-2638 Apr 21 j 04:23	7° $\mathring{A}$ 44'44	29.27241 AU
conjunction	-2646 Oct 05 j 15:25	21° $\mathring{M}$ 23'35	2°06'55	direct	-2638 Jul 10 j 15:17	6° $\mathring{A}$ 21'27	
minimum elong	-2646 Oct 05 j 15:26	21° $\mathring{M}$ 23'35	2°06'55				
max. Earth dist.	-2646 Oct 05 j 01:32	21° $\mathring{M}$ 22'16	31.29915 AU	conjunction	-2638 Oct 22 j 17:01	8° $\mathring{A}$ 50'21	2°00'59
retrograde	-2645 Jan 16 j 03:11	23° $\mathring{M}$ 50'59		minimum elong	-2638 Oct 22 j 17:02	8° $\mathring{A}$ 50'21	2°00'58
opposition	-2645 Apr 05 j 02:26	22° $\mathring{M}$ 28'55	2°15'32	max. Earth dist.	-2638 Oct 22 j 09:06	8° $\mathring{A}$ 49'36	31.26848 AU
min. Earth dist.	-2645 Apr 05 j 16:03	22° $\mathring{M}$ 28'00	29.30092 AU	retrograde	-2637 Feb 02 j 17:36	11° $\mathring{A}$ 18'32	
direct	-2645 Jun 25 j 05:41	21° $\mathring{M}$ 04'51		opposition	-2637 Apr 23 j 08:16	9° $\mathring{A}$ 55'54	2°08'27
max. Earth dist.	-2645 Oct 07 j 11:50	23° $\mathring{M}$ 33'20	31.29926 AU	min. Earth dist.	-2637 Apr 23 j 14:51	9° $\mathring{A}$ 55'27	29.26744 AU
				direct	-2637 Jul 13 j 03:13	8° $\mathring{A}$ 32'04	
conjunction	-2645 Oct 08 j 00:42	23° $\mathring{M}$ 34'33	2°06'48				
minimum elong	-2645 Oct 08 j 00:42	23° $\mathring{M}$ 34'33	2°06'48	conjunction	-2637 Oct 25 j 01:57	11° $\mathring{A}$ 00'53	1°59'27
retrograde	-2644 Jan 18 j 13:45	26° $\mathring{M}$ 02'04		minimum elong	-2637 Oct 25 j 01:57	11° $\mathring{A}$ 00'53	1°59'26
opposition	-2644 Apr 06 j 15:06	24° $\mathring{M}$ 39'58	2°15'19	max. Earth dist.	-2637 Oct 24 j 18:58	11° $\mathring{A}$ 00'14	31.26392 AU
min. Earth dist.	-2644 Apr 07 j 03:27	24° $\mathring{M}$ 39'08	29.30032 AU	retrograde	-2636 Feb 05 j 04:53	13° $\mathring{A}$ 29'14	
direct	-2644 Jun 26 j 19:15	23° $\mathring{M}$ 15'58		opposition	-2636 Apr 24 j 21:15	12° $\mathring{A}$ 06'32	2°06'43
				min. Earth dist.	-2636 Apr 25 j 03:37	12° $\mathring{A}$ 06'06	29.26332 AU
conjunction	-2644 Oct 09 j 10:01	25° $\mathring{M}$ 45'35	2°06'30	direct	-2636 Jul 14 j 14:49	10° $\mathring{A}$ 42'47	
minimum elong	-2644 Oct 09 j 10:02	25° $\mathring{M}$ 45'35	2°06'30				
max. Earth dist.	-2644 Oct 08 j 21:00	25° $\mathring{M}$ 44'21	31.29799 AU	conjunction	-2636 Oct 26 j 11:01	13° $\mathring{A}$ 11'31	1°57'44
retrograde	-2643 Jan 20 j 00:53	28° $\mathring{M}$ 13'13		minimum elong	-2636 Oct 26 j 11:01	13° $\mathring{A}$ 11'31	1°57'43
opposition	-2643 Apr 09 j 03:51	26° $\mathring{M}$ 51'04	2°14'54	max. Earth dist.	-2636 Oct 26 j 05:41	13° $\mathring{A}$ 11'01	31.26024 AU
min. Earth dist.	-2643 Apr 09 j 16:07	26° $\mathring{M}$ 50'14	29.29843 AU	retrograde	-2635 Feb 06 j 16:03	15° $\mathring{A}$ 40'01	
direct	-2643 Jun 29 j 05:50	25° $\mathring{M}$ 27'07		opposition	-2635 Apr 27 j 10:00	14° $\mathring{A}$ 17'18	2°04'48
				min. Earth dist.	-2635 Apr 27 j 14:36	14° $\mathring{A}$ 16'59	29.25977 AU
conjunction	-2643 Oct 11 j 19:24	27° $\mathring{M}$ 56'37	2°06'01	direct	-2635 Jul 17 j 03:52	12° $\mathring{A}$ 53'38	
minimum elong	-2643 Oct 11 j 19:24	27° $\mathring{M}$ 56'37	2°06'01				
max. Earth dist.	-2643 Oct 11 j 07:48	27° $\mathring{M}$ 55'31	31.29532 AU	conjunction	-2635 Oct 28 j 19:57	15° $\mathring{A}$ 22'19	1°55'51
	-2643 Dec 15 j 04:18	0° $\mathring{A}$		minimum elong	-2635 Oct 28 j 19:58	15° $\mathring{A}$ 22'19	1°55'50
retrograde	-2642 Jan 22 j 09:38	0° $\mathring{A}$ 24'21		max. Earth dist.	-2635 Oct 28 j 14:50	15° $\mathring{A}$ 21'50	31.25688 AU
	-2642 Mar 03 j 02:03	30° $\mathring{R}$ $\mathring{M}$		retrograde	-2634 Feb 09 j 03:50	17° $\mathring{A}$ 50'59	
opposition	-2642 Apr 11 j 16:35	29° $\mathring{M}$ 02'09	2°14'18	opposition	-2634 Apr 29 j 22:57	16° $\mathring{A}$ 28'14	2°02'42
min. Earth dist.	-2642 Apr 12 j 04:12	29° $\mathring{M}$ 01'22	29.29486 AU	min. Earth dist.	-2634 Apr 30 j 03:06	16° $\mathring{A}$ 27'57	29.25644 AU
direct	-2642 Jul 01 j 18:42	27° $\mathring{M}$ 38'13		direct	-2634 Jul 19 j 14:07	15° $\mathring{A}$ 04'40	
	-2642 Oct 10 j 20:07	0° $\mathring{A}$					
conjunction	-2642 Oct 14 j 04:36	0° $\mathring{A}$ 07'36	2°05'22	conjunction	-2634 Oct 31 j 05:05	17° $\mathring{A}$ 33'17	1°53'48
minimum elong	-2642 Oct 14 j 04:37	0° $\mathring{A}$ 07'36	2°05'21	minimum elong	-2634 Oct 31 j 05:05	17° $\mathring{A}$ 33'17	1°53'46
max. Earth dist.	-2642 Oct 13 j 16:27	0° $\mathring{A}$ 06'27	31.29109 AU	max. Earth dist.	-2634 Oct 31 j 01:51	17° $\mathring{A}$ 32'59	31.25344 AU
retrograde	-2641 Jan 24 j 21:07	2° $\mathring{A}$ 35'25		retrograde	-2633 Feb 11 j 13:13	20° $\mathring{A}$ 02'08	
opposition	-2641 Apr 14 j 05:15	1° $\mathring{A}$ 13'08	2°13'30	opposition	-2633 May 02 j 11:55	18° $\mathring{A}$ 39'22	2°00'25
min. Earth dist.	-2641 Apr 14 j 16:00	1° $\mathring{A}$ 12'25	29.29001 AU	min. Earth dist.	-2633 May 02 j 15:06	18° $\mathring{A}$ 39'09	29.25264 AU
	-2641 Jun 07 j 23:06	30° $\mathring{R}$ $\mathring{M}$		direct	-2633 Jul 22 j 02:37	17° $\mathring{A}$ 15'53	
direct	-2641 Jul 04 j 04:44	29° $\mathring{M}$ 49'13					
	-2641 Jul 29 j 22:16	0° $\mathring{A}$		conjunction	-2633 Nov 02 j 14:09	19° $\mathring{A}$ 44'28	1°51'35
conjunction	-2641 Oct 16 j 13:55	2° $\mathring{A}$ 18'29	2°04'32	minimum elong	-2633 Nov 02 j 14:10	19° $\mathring{A}$ 44'28	1°51'33
minimum elong	-2641 Oct 16 j 13:55	2° $\mathring{A}$ 18'29	2°04'32	max. Earth dist.	-2633 Nov 02 j 10:39	19° $\mathring{A}$ 44'08	31.24944 AU
max. Earth dist.	-2641 Oct 16 j 03:29	2° $\mathring{A}$ 17'30	31.28570 AU	retrograde	-2632 Feb 14 j 01:37	22° $\mathring{A}$ 13'29	
retrograde	-2640 Jan 27 j 06:45	4° $\mathring{A}$ 46'23		opposition	-2632 May 04 j 01:01	20° $\mathring{A}$ 50'42	1°57'57
opposition	-2640 Apr 15 j 18:09	3° $\mathring{A}$ 24'00	2°12'31	min. Earth dist.	-2632 May 04 j 03:07	20° $\mathring{A}$ 50'33	29.24823 AU
min. Earth dist.	-2640 Apr 16 j 04:45	3° $\mathring{A}$ 23'17	29.28417 AU	direct	-2632 Jul 23 j 12:18	19° $\mathring{A}$ 27'17	
direct	-2640 Jul 05 j 16:41	2° $\mathring{A}$ 00'06					
				conjunction	-2632 Nov 03 j 23:24	21° $\mathring{A}$ 55'48	1°49'12
conjunction	-2640 Oct 17 j 22:52	4° $\mathring{A}$ 29'12	2°03'31	minimum elong	-2632 Nov 03 j 23:24	21° $\mathring{A}$ 55'48	1°49'10
minimum elong	-2640 Oct 17 j 22:52	4° $\mathring{A}$ 29'12	2°03'31	max. Earth dist.	-2632 Nov 03 j 21:35	21° $\mathring{A}$ 55'38	31.24444 AU
max. Earth dist.	-2640 Oct 17 j 12:33	4° $\mathring{A}$ 28'14	31.27976 AU	retrograde	-2631 Feb 15 j 12:01	24° $\mathring{A}$ 25'00	
retrograde	-2639 Jan 28 j 19:00	6° $\mathring{A}$ 57'12		opposition	-2631 May 06 j 14:13	23° $\mathring{A}$ 02'10	1°55'19
opposition	-2639 Apr 18 j 06:52	5° $\mathring{A}$ 34'43	2°11'21	min. Earth dist.	-2631 May 06 j 16:16	23° $\mathring{A}$ 02'01	29.24253 AU
min. Earth dist.	-2639 Apr 18 j 15:43	5° $\mathring{A}$ 34'07	29.27814 AU	direct	-2631 Jul 25 j 23:56	21° $\mathring{A}$ 38'49	
direct	-2639 Jul 08 j 04:05	4° $\mathring{A}$ 10'49					
				conjunction	-2631 Nov 06 j 08:40	24° $\mathring{A}$ 07'15	1°46'39
conjunction	-2639 Oct 20 j 08:00	6° $\mathring{A}$ 39'49	2°02'20	minimum elong	-2631 Nov 06 j 08:41	24° $\mathring{A}$ 07'15	1°46'38
minimum elong	-2639 Oct 20 j 08:01	6° $\mathring{A}$ 39'49	2°02'20	max. Earth dist.	-2631 Nov 06 j 06:43	24° $\mathring{A}$ 07'04	31.23817 AU
				retrograde	-2630 Feb 18 j 00:47	26° $\mathring{A}$ 36'36	
conjunction	-2639 Oct 20 j 08:00	6° $\mathring{A}$ 39'49	2°02'20	opposition	-2630 May 09 j 03:09	25° $\mathring{A}$ 13'43	1°52'32

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Attention, astronomical year style is used: The year -2630 in astronomical counting style is the year 2631 BCE in historical counting style.

min. Earth dist.	-2630 May 09 j 03:46	25°♄13'40	29.23546 AU	min. Earth dist.	-2622 May 27 j 05:05	12°♃45'10	29.16621 AU
direct	-2630 Jul 28 j 10:41	23°♄50'24		direct	-2622 Aug 15 j 08:14	11°♃21'35	
conjunction	-2630 Nov 08 j 18:03	26°♄18'47	1°43'58	conjunction	-2622 Nov 25 j 19:46	13°♃49'18	1°17'26
minimum elong	-2630 Nov 08 j 18:03	26°♄18'47	1°43'56	minimum elong	-2622 Nov 25 j 19:46	13°♃49'18	1°17'23
max. Earth dist.	-2630 Nov 08 j 17:10	26°♄18'42	31.23034 AU	max. Earth dist.	-2622 Nov 26 j 02:43	13°♃49'57	31.16267 AU
retrograde	-2629 Feb 20 j 12:29	28°♄48'16		retrograde	-2622 Dec 28 j 03:09	15°♃	
opposition	-2629 May 11 j 16:26	27°♄25'17	1°49'34	retrograde	-2621 Mar 10 j 09:25	16°♃19'55	
min. Earth dist.	-2629 May 11 j 17:22	27°♄25'14	29.22691 AU	retrograde	-2621 May 27 j 17:51	15°♃♃	
direct	-2629 Jul 30 j 21:13	26°♄02'00		opposition	-2621 May 30 j 00:49	14°♃56'17	1°20'40
conjunction	-2629 Nov 11 j 03:14	28°♄30'17	1°41'08	min. Earth dist.	-2621 May 29 j 16:23	14°♃56'51	29.16021 AU
minimum elong	-2629 Nov 11 j 03:14	28°♄30'17	1°41'06	direct	-2621 Aug 17 j 18:22	13°♃33'12	
max. Earth dist.	-2629 Nov 11 j 03:00	28°♄30'15	31.22132 AU	direct	-2621 Oct 31 j 15:40	15°♃	
retrograde	-2629 Dec 23 j 09:56	0°♃		conjunction	-2621 Nov 28 j 05:07	16°♃00'53	1°13'33
retrograde	-2628 Feb 23 j 00:38	0°♃59'54		minimum elong	-2621 Nov 28 j 05:07	16°♃00'53	1°13'30
retrograde	-2628 Apr 28 j 17:07	30°♃		max. Earth dist.	-2621 Nov 28 j 13:21	16°♃01'40	31.15664 AU
opposition	-2628 May 13 j 05:34	29°♄36'49	1°46'28	retrograde	-2620 Mar 11 j 21:10	18°♃31'42	
min. Earth dist.	-2628 May 13 j 04:36	29°♄36'53	29.21726 AU	opposition	-2620 May 31 j 14:06	17°♃08'01	1°16'26
direct	-2628 Aug 01 j 09:08	28°♄13'31		min. Earth dist.	-2620 May 31 j 05:51	17°♃08'35	29.15406 AU
direct	-2628 Oct 24 j 22:35	0°♃		direct	-2620 Aug 19 j 04:11	15°♃45'00	
conjunction	-2628 Nov 12 j 12:27	0°♃41'42	1°38'09	conjunction	-2620 Nov 29 j 14:44	18°♃12'39	1°09'33
minimum elong	-2628 Nov 12 j 12:27	0°♃41'42	1°38'07	minimum elong	-2620 Nov 29 j 14:45	18°♃12'39	1°09'30
max. Earth dist.	-2628 Nov 12 j 12:45	0°♃41'43	31.21134 AU	max. Earth dist.	-2620 Nov 29 j 23:47	18°♃13'31	31.15035 AU
retrograde	-2627 Feb 24 j 12:50	3°♃11'26		retrograde	-2619 Mar 14 j 10:12	20°♃43'38	
opposition	-2627 May 15 j 18:39	1°♃48'14	1°43'12	opposition	-2619 Jun 03 j 03:05	19°♃19'55	1°12'06
min. Earth dist.	-2627 May 15 j 17:46	1°♃48'17	29.20715 AU	min. Earth dist.	-2619 Jun 02 j 17:06	19°♃20'36	29.14733 AU
direct	-2627 Aug 03 j 21:08	0°♃24'56		direct	-2619 Aug 21 j 15:26	17°♃56'57	
conjunction	-2627 Nov 14 j 21:41	2°♃53'00	1°35'02	conjunction	-2619 Dec 02 j 00:25	20°♃24'35	1°05'27
minimum elong	-2627 Nov 14 j 21:41	2°♃53'00	1°34'59	minimum elong	-2619 Dec 02 j 00:25	20°♃24'35	1°05'23
max. Earth dist.	-2627 Nov 14 j 23:40	2°♃53'12	31.20129 AU	max. Earth dist.	-2619 Dec 02 j 09:35	20°♃25'27	31.14312 AU
retrograde	-2626 Feb 27 j 00:51	5°♃22'51		retrograde	-2618 Mar 16 j 23:31	22°♃55'45	
opposition	-2626 May 18 j 07:38	3°♃59'32	1°39'48	opposition	-2618 Jun 05 j 16:23	21°♃31'58	1°07'40
min. Earth dist.	-2626 May 18 j 04:56	3°♃59'43	29.19713 AU	min. Earth dist.	-2618 Jun 05 j 06:45	21°♃32'38	29.13957 AU
direct	-2626 Aug 06 j 10:36	2°♃36'15		direct	-2618 Aug 24 j 02:23	20°♃09'03	
conjunction	-2626 Nov 17 j 06:42	5°♃04'13	1°31'46	conjunction	-2618 Dec 04 j 10:10	22°♃36'39	1°01'15
minimum elong	-2626 Nov 17 j 06:42	5°♃04'13	1°31'43	minimum elong	-2618 Dec 04 j 10:11	22°♃36'39	1°01'11
max. Earth dist.	-2626 Nov 17 j 08:58	5°♃04'26	31.19161 AU	max. Earth dist.	-2618 Dec 04 j 20:44	22°♃37'39	31.13479 AU
retrograde	-2625 Mar 01 j 12:18	7°♃34'12		retrograde	-2617 Mar 19 j 12:28	25°♃07'57	
opposition	-2625 May 20 j 20:43	6°♃10'47	1°36'15	opposition	-2617 Jun 08 j 05:36	23°♃44'08	1°03'08
min. Earth dist.	-2625 May 20 j 17:19	6°♃11'01	29.18794 AU	min. Earth dist.	-2617 Jun 07 j 18:33	23°♃44'52	29.13048 AU
direct	-2625 Aug 08 j 21:04	4°♃47'30		direct	-2617 Aug 26 j 15:17	22°♃21'13	
conjunction	-2625 Nov 19 j 15:59	7°♃15'23	1°28'23	conjunction	-2617 Dec 06 j 19:57	24°♃48'47	0°56'57
minimum elong	-2625 Nov 19 j 15:59	7°♃15'24	1°28'20	minimum elong	-2617 Dec 06 j 19:57	24°♃48'47	0°56'54
max. Earth dist.	-2625 Nov 19 j 20:27	7°♃15'49	31.18297 AU	max. Earth dist.	-2617 Dec 07 j 06:10	24°♃49'45	31.12519 AU
retrograde	-2624 Mar 02 j 22:06	9°♃45'30		retrograde	-2616 Mar 21 j 01:14	27°♃20'14	
opposition	-2624 May 22 j 09:46	8°♃22'01	1°32'33	opposition	-2616 Jun 09 j 18:51	25°♃56'19	0°58'30
min. Earth dist.	-2624 May 22 j 04:57	8°♃22'21	29.17975 AU	min. Earth dist.	-2616 Jun 09 j 07:45	25°♃57'04	29.12037 AU
direct	-2624 Aug 10 j 10:13	6°♃58'46		direct	-2616 Aug 28 j 01:44	24°♃33'25	
conjunction	-2624 Nov 21 j 01:05	9°♃26'35	1°24'52	conjunction	-2616 Dec 08 j 05:51	27°♃00'55	0°52'35
minimum elong	-2624 Nov 21 j 01:05	9°♃26'36	1°24'48	minimum elong	-2616 Dec 08 j 05:51	27°♃00'55	0°52'31
max. Earth dist.	-2624 Nov 21 j 05:40	9°♃27'02	31.17543 AU	max. Earth dist.	-2616 Dec 08 j 17:47	27°♃02'03	31.11464 AU
retrograde	-2623 Mar 05 j 10:45	11°♃56'52		retrograde	-2615 Mar 23 j 12:18	29°♃32'30	
opposition	-2623 May 24 j 22:47	10°♃33'19	1°28'43	opposition	-2615 Jun 12 j 07:59	28°♃08'29	0°53'47
min. Earth dist.	-2623 May 24 j 16:32	10°♃33'44	29.17267 AU	min. Earth dist.	-2615 Jun 11 j 19:59	28°♃09'18	29.10940 AU
direct	-2623 Aug 12 j 20:41	9°♃10'07		direct	-2615 Aug 30 j 15:18	26°♃45'35	
conjunction	-2623 Nov 23 j 10:26	11°♃37'53	1°21'13	conjunction	-2615 Dec 10 j 15:36	29°♃13'02	0°48'08
minimum elong	-2623 Nov 23 j 10:26	11°♃37'53	1°21'10	minimum elong	-2615 Dec 10 j 15:36	29°♃13'02	0°48'04
max. Earth dist.	-2623 Nov 23 j 16:59	11°♃38'30	31.16873 AU	max. Earth dist.	-2615 Dec 11 j 03:17	29°♃14'08	31.10363 AU
retrograde	-2622 Mar 07 j 20:56	14°♃08'19		retrograde	-2615 Dec 31 j 14:39	0°♃	
opposition	-2622 May 27 j 11:44	12°♃44'43	1°24'45	retrograde	-2614 Mar 26 j 01:40	1°♃44'45	

Attention, astronomical year style is used: The year -2614 in astronomical counting style is the year 2615 BCE in historical counting style.

opposition	-2614 Jun 14 j 20:57	0° <del>2</del> 20'38	0°48'59	behind sun end	-2607 Dec 28 j 05:45	16° <del>2</del> 53'09	
min. Earth dist.	-2614 Jun 14 j 07:55	0° <del>2</del> 21'31	29.09844 AU	max. Earth dist.	-2607 Dec 28 j 20:11	16° <del>2</del> 54'32	31.03992 AU
	-2614 Jun 27 j 15:53	30° <del>R</del>		retrograde	-2606 Apr 13 j 06:25	19° <del>2</del> 25'39	
direct	-2614 Sep 02 j 02:23	28° <del>M</del> 57'43		min. Earth dist.	-2606 Jul 02 j 09:56	18° <del>2</del> 02'29	29.03638 AU
	-2614 Nov 03 j 05:39	0° <del>2</del>		opposition	-2606 Jul 03 j 04:55	18° <del>2</del> 01'11	0°08'31
				direct	-2606 Sep 19 j 18:23	16° <del>2</del> 38'29	
conjunction	-2614 Dec 13 j 01:30	1° <del>2</del> 25'07	0°43'37				
minimum elong	-2614 Dec 13 j 01:31	1° <del>2</del> 25'07	0°43'33	conjunction	-2606 Dec 30 j 11:20	19° <del>2</del> 05'53	0°05'39
max. Earth dist.	-2614 Dec 13 j 15:00	1° <del>2</del> 26'24	31.09282 AU	minimum elong	-2606 Dec 30 j 11:20	19° <del>2</del> 05'53	0°05'34
retrograde	-2613 Mar 28 j 11:56	3° <del>2</del> 56'58		behind sun begin	-2606 Dec 30 j 05:09	19° <del>2</del> 05'20	
opposition	-2613 Jun 17 j 10:05	2° <del>2</del> 32'46	0°44'08	behind sun end	-2606 Dec 30 j 17:31	19° <del>2</del> 06'27	
min. Earth dist.	-2613 Jun 16 j 20:34	2° <del>2</del> 33'42	29.08797 AU	max. Earth dist.	-2606 Dec 31 j 06:09	19° <del>2</del> 07'40	31.03222 AU
direct	-2613 Sep 04 j 14:20	1° <del>2</del> 09'52		retrograde	-2605 Apr 15 j 21:12	21° <del>2</del> 38'59	
				opposition	-2605 Jul 05 j 17:59	20° <del>2</del> 14'28	0°03'18
conjunction	-2613 Dec 15 j 11:17	3° <del>2</del> 37'12	0°39'02	min. Earth dist.	-2605 Jul 04 j 22:30	20° <del>2</del> 15'47	29.02814 AU
minimum elong	-2613 Dec 15 j 11:17	3° <del>2</del> 37'13	0°38'58	direct	-2605 Sep 22 j 05:43	18° <del>2</del> 51'46	
max. Earth dist.	-2613 Dec 16 j 01:19	3° <del>2</del> 38'32	31.08294 AU				
retrograde	-2612 Mar 30 j 00:08	6° <del>2</del> 09'13		conjunction	-2604 Jan 01 j 22:10	21° <del>2</del> 19'10	0°00'44
opposition	-2612 Jun 18 j 23:05	4° <del>2</del> 44'57	0°39'12	minimum elong	-2604 Jan 01 j 22:12	21° <del>2</del> 19'10	0°00'40
min. Earth dist.	-2612 Jun 18 j 07:47	4° <del>2</del> 45'59	29.07859 AU	behind sun begin	-2604 Jan 01 j 15:47	21° <del>2</del> 18'35	
direct	-2612 Sep 06 j 00:48	3° <del>2</del> 22'03		behind sun end	-2604 Jan 02 j 04:37	21° <del>2</del> 19'44	
				max. Earth dist.	-2604 Jan 02 j 18:07	21° <del>2</del> 21'02	31.02326 AU
conjunction	-2612 Dec 16 j 21:18	5° <del>2</del> 49'23	0°34'24	desc. node	-2604 Feb 23 j 17:16	23° <del>2</del> 07'17	
minimum elong	-2612 Dec 16 j 21:19	5° <del>2</del> 49'23	0°34'20	retrograde	-2604 Apr 17 j 08:17	23° <del>2</del> 52'23	
max. Earth dist.	-2612 Dec 17 j 12:32	5° <del>2</del> 50'49	31.07402 AU	min. Earth dist.	-2604 Jul 06 j 11:49	22° <del>2</del> 29'06	29.01852 AU
retrograde	-2611 Apr 01 j 11:36	8° <del>2</del> 21'32		opposition	-2604 Jul 07 j 07:04	22° <del>2</del> 27'47	0°-1'-54
opposition	-2611 Jun 21 j 12:00	6° <del>2</del> 57'13	0°34'12	direct	-2604 Sep 23 j 17:56	21° <del>2</del> 05'04	
min. Earth dist.	-2611 Jun 20 j 20:46	6° <del>2</del> 58'15	29.07027 AU				
direct	-2611 Sep 08 j 10:13	5° <del>2</del> 34'21		conjunction	-2603 Jan 03 j 09:09	23° <del>2</del> 32'26	0°-4'-14
				minimum elong	-2603 Jan 03 j 09:09	23° <del>2</del> 32'26	0°04'19
conjunction	-2611 Dec 19 j 07:23	8° <del>2</del> 01'40	0°29'42	behind sun begin	-2603 Jan 03 j 02:49	23° <del>2</del> 31'52	
minimum elong	-2611 Dec 19 j 07:23	8° <del>2</del> 01'40	0°29'39	behind sun end	-2603 Jan 03 j 15:28	23° <del>2</del> 33'01	
max. Earth dist.	-2611 Dec 19 j 23:41	8° <del>2</del> 03'12	31.06632 AU	max. Earth dist.	-2603 Jan 04 j 04:52	23° <del>2</del> 34'18	31.01319 AU
retrograde	-2610 Apr 04 j 00:41	10° <del>2</del> 33'59		retrograde	-2603 Apr 19 j 21:16	26° <del>2</del> 05'45	
min. Earth dist.	-2610 Jun 23 j 07:40	9° <del>2</del> 10'48	29.06296 AU	opposition	-2603 Jul 09 j 19:49	24° <del>2</del> 41'04	0°-7'-7
opposition	-2610 Jun 24 j 00:54	9° <del>2</del> 09'38	0°29'09	min. Earth dist.	-2603 Jul 08 j 23:36	24° <del>2</del> 42'27	29.00797 AU
direct	-2610 Sep 10 j 21:16	7° <del>2</del> 46'48		direct	-2603 Sep 26 j 05:31	23° <del>2</del> 18'18	
conjunction	-2610 Dec 21 j 17:20	10° <del>2</del> 14'07	0°24'57	conjunction	-2602 Jan 05 j 20:04	25° <del>2</del> 45'39	0°-9'-5
minimum elong	-2610 Dec 21 j 17:20	10° <del>2</del> 14'07	0°24'53	minimum elong	-2602 Jan 05 j 20:04	25° <del>2</del> 45'39	0°09'10
max. Earth dist.	-2610 Dec 22 j 10:02	10° <del>2</del> 15'42	31.05937 AU	behind sun begin	-2602 Jan 05 j 14:36	25° <del>2</del> 45'10	
retrograde	-2609 Apr 06 j 14:08	12° <del>2</del> 46'37		behind sun end	-2602 Jan 06 j 01:33	25° <del>2</del> 46'09	
opposition	-2609 Jun 26 j 14:02	11° <del>2</del> 22'14	0°24'03	max. Earth dist.	-2602 Jan 06 j 16:22	25° <del>2</del> 47'34	31.00222 AU
min. Earth dist.	-2609 Jun 25 j 20:57	11° <del>2</del> 23'23	29.05638 AU	retrograde	-2602 Apr 22 j 09:02	28° <del>2</del> 19'03	
direct	-2609 Sep 13 j 07:23	9° <del>2</del> 59'26		opposition	-2602 Jul 12 j 08:46	26° <del>2</del> 54'16	0°-12'-19
				min. Earth dist.	-2602 Jul 11 j 13:07	26° <del>2</del> 55'37	28.99689 AU
conjunction	-2609 Dec 24 j 03:41	12° <del>2</del> 26'47	0°20'10	direct	-2602 Sep 28 j 16:13	25° <del>2</del> 31'28	
minimum elong	-2609 Dec 24 j 03:41	12° <del>2</del> 26'47	0°20'06				
max. Earth dist.	-2609 Dec 24 j 22:02	12° <del>2</del> 28'31	31.05306 AU	conjunction	-2601 Jan 08 j 06:56	27° <del>2</del> 58'47	0°-13'-56
retrograde	-2608 Apr 08 j 03:34	14° <del>2</del> 59'26		minimum elong	-2601 Jan 08 j 06:55	27° <del>2</del> 58'47	0°14'02
min. Earth dist.	-2608 Jun 27 j 08:25	13° <del>2</del> 36'17	29.05009 AU	behind sun begin	-2601 Jan 08 j 03:38	27° <del>2</del> 58'30	
opposition	-2608 Jun 28 j 02:55	13° <del>2</del> 35'01	0°18'54	behind sun end	-2601 Jan 08 j 10:13	27° <del>2</del> 59'05	
direct	-2608 Sep 14 j 18:56	12° <del>2</del> 12'16		max. Earth dist.	-2601 Jan 09 j 04:02	28° <del>2</del> 00'47	30.99123 AU
					-2601 Mar 10 j 19:39	0° <del>2</del>	
conjunction	-2608 Dec 25 j 14:01	14° <del>2</del> 39'38	0°15'21	retrograde	-2601 Apr 24 j 21:26	0° <del>2</del> 32'17	
minimum elong	-2608 Dec 25 j 14:01	14° <del>2</del> 39'38	0°15'16		-2601 Jun 10 j 10:44	30° <del>R</del>	
behind sun begin	-2608 Dec 25 j 11:48	14° <del>2</del> 39'26		opposition	-2601 Jul 14 j 21:31	29° <del>2</del> 07'24	0°-17'-31
behind sun end	-2608 Dec 25 j 16:14	14° <del>2</del> 39'50		min. Earth dist.	-2601 Jul 14 j 00:15	29° <del>2</del> 08'52	28.98607 AU
max. Earth dist.	-2608 Dec 26 j 08:01	14° <del>2</del> 41'20	31.04675 AU	direct	-2601 Oct 01 j 03:57	27° <del>2</del> 44'33	
retrograde	-2607 Apr 10 j 17:23	17° <del>2</del> 12'28			-2600 Jan 05 j 12:25	0° <del>2</del>	
opposition	-2607 Jun 30 j 16:00	15° <del>2</del> 48'01	0°13'43				
min. Earth dist.	-2607 Jun 29 j 21:35	15° <del>2</del> 49'17	29.04367 AU	conjunction	-2600 Jan 10 j 17:53	0° <del>2</del> 11'52	0°-18'-46
direct	-2607 Sep 17 j 04:57	14° <del>2</del> 25'18		minimum elong	-2600 Jan 10 j 17:53	0° <del>2</del> 11'52	0°18'51
				max. Earth dist.	-2600 Jan 11 j 15:03	0° <del>2</del> 13'52	30.98063 AU
conjunction	-2607 Dec 28 j 00:40	16° <del>2</del> 52'41	0°10'30	retrograde	-2600 Apr 26 j 09:53	2° <del>2</del> 45'28	
minimum elong	-2607 Dec 28 j 00:40	16° <del>2</del> 52'41	0°10'26	opposition	-2600 Jul 16 j 10:15	1° <del>2</del> 20'30	0°-22'-41
behind sun begin	-2607 Dec 27 j 19:35	16° <del>2</del> 52'14		min. Earth dist.	-2600 Jul 15 j 13:22	1° <del>2</del> 21'57	28.97602 AU

Attention, astronomical year style is used: The year -2600 in astronomical counting style is the year 2601 BCE in historical counting style.

	-2600 Sep 20 j 18:54	30°R♁		conjunction	-2591 Jan 30 j 02:04	20°♁15'11	-1°00'-21
direct	-2600 Oct 02 j 13:46	29°♁57'37		minimum elong	-2591 Jan 30 j 02:04	20°♁15'11	1°00'26
	-2600 Oct 14 j 08:04	0°♁		max. Earth dist.	-2591 Jan 31 j 02:05	20°♁17'27	30.91589 AU
				retrograde	-2591 May 17 j 09:55	22°♁49'45	
conjunction	-2599 Jan 12 j 05:05	2°♁24'58	0°-23'-35	min. Earth dist.	-2591 Aug 05 j 04:27	21°♁26'10	28.91218 AU
minimum elong	-2599 Jan 12 j 05:05	2°♁24'58	0°23'40	opposition	-2591 Aug 06 j 03:15	21°♁24'35	-1°-6'-52
max. Earth dist.	-2599 Jan 13 j 03:45	2°♁27'06	30.97107 AU	direct	-2591 Oct 22 j 18:20	20°♁01'40	
retrograde	-2599 Apr 28 j 22:43	4°♁58'39					
opposition	-2599 Jul 18 j 22:49	3°♁33'38	0°-27'-48	conjunction	-2590 Feb 01 j 14:13	22°♁29'31	-1°-4'-37
min. Earth dist.	-2599 Jul 18 j 00:30	3°♁35'10	28.96697 AU	minimum elong	-2590 Feb 01 j 14:12	22°♁29'31	1°04'41
direct	-2599 Oct 05 j 01:10	2°♁10'44		max. Earth dist.	-2590 Feb 02 j 15:06	22°♁31'52	30.90700 AU
				retrograde	-2590 May 19 j 22:29	25°♁04'08	
conjunction	-2598 Jan 14 j 16:05	4°♁38'06	0°-28'-21	opposition	-2590 Aug 08 j 15:31	23°♁38'54	-1°-11'-22
minimum elong	-2598 Jan 14 j 16:05	4°♁38'06	0°28'26	min. Earth dist.	-2590 Aug 07 j 15:54	23°♁40'32	28.90304 AU
max. Earth dist.	-2598 Jan 15 j 14:26	4°♁40'13	30.96254 AU	direct	-2590 Oct 25 j 05:39	22°♁15'54	
retrograde	-2598 May 01 j 12:41	7°♁11'55					
opposition	-2598 Jul 21 j 11:29	5°♁46'52	0°-32'-54	conjunction	-2589 Feb 04 j 02:21	24°♁43'47	-1°-8'-47
min. Earth dist.	-2598 Jul 20 j 13:11	5°♁48'24	28.95913 AU	minimum elong	-2589 Feb 04 j 02:20	24°♁43'47	1°08'52
direct	-2598 Oct 07 j 11:01	4°♁23'57		max. Earth dist.	-2589 Feb 05 j 02:21	24°♁46'02	30.89782 AU
				retrograde	-2589 May 22 j 11:51	27°♁18'26	
conjunction	-2597 Jan 17 j 03:26	6°♁51'23	0°-33'-6	min. Earth dist.	-2589 Aug 10 j 04:49	25°♁54'43	28.89411 AU
minimum elong	-2597 Jan 17 j 03:26	6°♁51'23	0°33'11	opposition	-2589 Aug 11 j 03:49	25°♁53'07	-1°-15'-46
max. Earth dist.	-2597 Jan 18 j 03:28	6°♁53'39	30.95521 AU	direct	-2589 Oct 27 j 16:03	24°♁30'02	
retrograde	-2597 May 04 j 02:17	9°♁25'19					
min. Earth dist.	-2597 Jul 23 j 01:01	8°♁01'50	28.95230 AU	conjunction	-2588 Feb 06 j 14:40	26°♁57'57	-1°-12'-50
opposition	-2597 Jul 24 j 00:04	8°♁00'14	0°-37'-57	minimum elong	-2588 Feb 06 j 14:40	26°♁57'57	1°12'55
direct	-2597 Oct 09 j 23:47	6°♁37'21		max. Earth dist.	-2588 Feb 07 j 15:58	27°♁00'20	30.88905 AU
				retrograde	-2588 May 24 j 00:38	29°♁32'37	
conjunction	-2596 Jan 19 j 14:43	9°♁04'50	0°-37'-48	opposition	-2588 Aug 12 j 15:56	28°♁07'14	-1°-20'-4
minimum elong	-2596 Jan 19 j 14:43	9°♁04'50	0°37'53	min. Earth dist.	-2588 Aug 11 j 16:31	28°♁08'52	28.88574 AU
max. Earth dist.	-2596 Jan 20 j 14:15	9°♁07'04	30.94888 AU	direct	-2588 Oct 29 j 04:44	26°♁44'05	
retrograde	-2596 May 05 j 17:24	11°♁38'54					
opposition	-2596 Jul 25 j 12:41	10°♁13'50	0°-42'-57	conjunction	-2587 Feb 08 j 02:58	29°♁12'03	-1°-16'-48
min. Earth dist.	-2596 Jul 24 j 13:08	10°♁15'27	28.94635 AU	minimum elong	-2587 Feb 08 j 02:58	29°♁12'02	1°16'53
direct	-2596 Oct 11 j 10:36	8°♁50'57		max. Earth dist.	-2587 Feb 09 j 03:23	29°♁14'21	30.88117 AU
					-2587 Mar 01 j 15:29	0°≈	
conjunction	-2595 Jan 21 j 02:22	11°♁18'31	0°-42'-26	retrograde	-2587 May 26 j 14:50	1°≈46'44	
minimum elong	-2595 Jan 21 j 02:22	11°♁18'31	0°42'32	min. Earth dist.	-2587 Aug 14 j 04:15	0°≈22'56	28.87859 AU
max. Earth dist.	-2595 Jan 22 j 03:02	11°♁20'51	30.94300 AU	opposition	-2587 Aug 15 j 03:54	0°≈21'18	-1°-24'-14
retrograde	-2595 May 08 j 05:34	13°♁52'42			-2587 Aug 28 j 00:20	30°R♁	
min. Earth dist.	-2595 Jul 27 j 01:52	12°♁29'15	28.94060 AU	direct	-2587 Oct 31 j 15:20	28°♁58'05	
opposition	-2595 Jul 28 j 01:08	12°♁27'38	0°-47'-53		-2586 Jan 01 j 04:15	0°≈	
direct	-2595 Oct 13 j 22:15	11°♁04'47					
				conjunction	-2586 Feb 10 j 15:24	1°≈26'06	-1°-20'-38
conjunction	-2594 Jan 23 j 14:04	13°♁32'26	0°-47'-2	minimum elong	-2586 Feb 10 j 15:23	1°≈26'06	1°20'42
minimum elong	-2594 Jan 23 j 14:04	13°♁32'26	0°47'06	max. Earth dist.	-2586 Feb 11 j 16:54	1°≈28'30	30.87454 AU
max. Earth dist.	-2594 Jan 24 j 14:29	13°♁34'45	30.93729 AU	retrograde	-2586 May 29 j 03:27	4°≈00'49	
retrograde	-2594 May 10 j 20:15	16°♁06'44		opposition	-2586 Aug 17 j 15:57	2°≈35'21	-1°-28'-16
opposition	-2594 Jul 30 j 13:40	14°♁41'40	0°-52'-45	min. Earth dist.	-2586 Aug 16 j 16:27	2°≈36'59	28.87274 AU
min. Earth dist.	-2594 Jul 29 j 13:38	14°♁43'20	28.93478 AU	direct	-2586 Nov 03 j 03:15	1°≈12'06	
direct	-2594 Oct 16 j 09:53	13°♁18'50					
				conjunction	-2585 Feb 13 j 03:44	3°≈40'10	-1°-24'-21
conjunction	-2593 Jan 26 j 01:50	15°♁46'33	0°-51'-33	minimum elong	-2585 Feb 13 j 03:44	3°≈40'10	1°24'26
minimum elong	-2593 Jan 26 j 01:49	15°♁46'33	0°51'38	max. Earth dist.	-2585 Feb 14 j 04:59	3°≈42'33	30.86949 AU
max. Earth dist.	-2593 Jan 27 j 02:30	15°♁48'53	30.93104 AU	retrograde	-2585 May 31 j 18:48	6°≈14'55	
retrograde	-2593 May 13 j 09:13	18°♁20'59		min. Earth dist.	-2585 Aug 19 j 03:36	4°≈51'08	28.86844 AU
min. Earth dist.	-2593 Aug 01 j 03:20	16°♁57'29	28.92822 AU	opposition	-2585 Aug 20 j 03:56	4°≈49'26	-1°-32'-11
opposition	-2593 Aug 02 j 02:20	16°♁55'54	0°-57'-33	direct	-2585 Nov 05 j 15:31	3°≈26'09	
direct	-2593 Oct 18 j 20:39	15°♁33'03					
				conjunction	-2584 Feb 15 j 16:22	5°≈54'19	-1°-27'-57
conjunction	-2592 Jan 28 j 13:58	18°♁00'50	0°-55'-59	minimum elong	-2584 Feb 15 j 16:22	5°≈54'19	1°28'00
minimum elong	-2592 Jan 28 j 13:57	18°♁00'50	0°56'03	max. Earth dist.	-2584 Feb 16 j 18:00	5°≈56'44	30.86571 AU
max. Earth dist.	-2592 Jan 29 j 14:45	18°♁03'11	30.92403 AU	retrograde	-2584 Jun 02 j 07:24	8°≈29'06	
retrograde	-2592 May 14 j 21:48	20°♁35'21		opposition	-2584 Aug 21 j 15:51	7°≈03'37	-1°-35'-57
opposition	-2592 Aug 03 j 14:43	19°♁10'14	-1°-2'-15	min. Earth dist.	-2584 Aug 20 j 16:27	7°≈05'16	28.86535 AU
min. Earth dist.	-2592 Aug 02 j 14:49	19°♁11'53	28.92070 AU	direct	-2584 Nov 07 j 02:33	5°≈40'20	
direct	-2592 Oct 20 j 08:30	17°♁47'21					

Attention, astronomical year style is used: The year -2583 in astronomical counting style is the year 2584 BCE in historical counting style.

conjunction	-2583 Feb 17 j 05:10	8°08'35"	-1°-31'-25"	direct	-2576 Nov 24 j 21:27	23°38'05"	
minimum elong	-2583 Feb 17 j 05:09	8°08'35"	1°31'30"				
max. Earth dist.	-2583 Feb 18 j 06:59	8°11'01"	30.86318 AU	conjunction	-2575 Mar 07 j 15:25	26°07'03"	-1°-53'-46"
retrograde	-2583 Jun 04 j 21:00	10°43'25"		minimum elong	-2575 Mar 07 j 15:25	26°07'03"	1°53'50"
min. Earth dist.	-2583 Aug 23 j 03:24	9°19'40"	28.86323 AU	max. Earth dist.	-2575 Mar 08 j 13:56	26°09'10"	30.83741 AU
opposition	-2583 Aug 24 j 03:42	9°17'58"	-1°-39'-35"	retrograde	-2575 Jun 23 j 06:59	28°41'53"	
direct	-2583 Nov 09 j 14:18	7°54'41"		min. Earth dist.	-2575 Sep 10 j 05:55	27°17'50"	28.83725 AU
				opposition	-2575 Sep 11 j 01:43	27°16'26"	-2°-2'-48"
conjunction	-2582 Feb 19 j 17:51	10°23'01"	-1°-34'-44"	direct	-2575 Nov 27 j 09:07	25°52'48"	
minimum elong	-2582 Feb 19 j 17:51	10°23'01"	1°34'48"				
max. Earth dist.	-2582 Feb 20 j 19:02	10°25'24"	30.86122 AU	conjunction	-2574 Mar 10 j 04:50	28°21'50"	-1°-55'-49"
retrograde	-2582 Jun 07 j 09:54	12°57'55"		minimum elong	-2574 Mar 10 j 04:49	28°21'50"	1°55'52"
opposition	-2582 Aug 26 j 15:43	11°32'30"	-1°-43'-4"	max. Earth dist.	-2574 Mar 11 j 03:14	28°23'56"	30.83456 AU
min. Earth dist.	-2582 Aug 25 j 16:36	11°34'07"	28.86153 AU		-2574 Apr 26 j 08:26	0°	
direct	-2582 Nov 12 j 00:04	10°09'13"		retrograde	-2574 Jun 25 j 21:00	0°56'38"	
					-2574 Aug 27 j 04:32	30°	
conjunction	-2581 Feb 22 j 07:01	12°37'40"	-1°-37'-55"	opposition	-2574 Sep 13 j 13:04	29°31'11"	-2°-4'-54"
minimum elong	-2581 Feb 22 j 07:00	12°37'40"	1°38'00"	min. Earth dist.	-2574 Sep 12 j 16:29	29°32'38"	28.83505 AU
max. Earth dist.	-2581 Feb 23 j 08:45	12°40'05"	30.85951 AU	direct	-2574 Nov 29 j 21:32	28°07'30"	
	-2581 May 13 j 02:41	15°			-2573 Feb 24 j 08:39	0°	
retrograde	-2581 Jun 09 j 23:09	15°12'36"					
	-2581 Jul 08 j 03:11	15°		conjunction	-2573 Mar 12 j 18:22	0°36'37"	-1°-57'-42"
min. Earth dist.	-2581 Aug 28 j 03:59	13°48'52"	28.85967 AU	minimum elong	-2573 Mar 12 j 18:22	0°36'37"	1°57'46"
opposition	-2581 Aug 29 j 03:31	13°47'12"	-1°-46'-23"	max. Earth dist.	-2573 Mar 13 j 16:02	0°38'39"	30.83294 AU
direct	-2581 Nov 14 j 11:20	12°23'55"		retrograde	-2573 Jun 28 j 10:23	3°11'22"	
				min. Earth dist.	-2573 Sep 15 j 05:04	1°47'19"	28.83426 AU
conjunction	-2580 Feb 24 j 20:12	14°52'28"	-1°-40'-58"	opposition	-2573 Sep 16 j 00:27	1°45'56"	-2°-6'-49"
minimum elong	-2580 Feb 24 j 20:12	14°52'28"	1°41'01"	direct	-2573 Dec 02 j 07:57	0°22'14"	
max. Earth dist.	-2580 Feb 25 j 20:27	14°54'45"	30.85729 AU				
	-2580 Feb 28 j 04:10	15°		conjunction	-2572 Mar 14 j 08:12	2°51'26"	-1°-59'-24"
retrograde	-2580 Jun 11 j 12:18	17°27'26"		minimum elong	-2572 Mar 14 j 08:11	2°51'26"	1°59'27"
opposition	-2580 Aug 30 j 15:30	16°02'04"	-1°-49'-33"	max. Earth dist.	-2572 Mar 15 j 06:18	2°53'31"	30.83287 AU
min. Earth dist.	-2580 Aug 29 j 17:11	16°03'38"	28.85715 AU	retrograde	-2572 Jun 29 j 23:14	5°26'09"	
	-2580 Oct 11 j 02:53	15°		opposition	-2572 Sep 17 j 11:43	4°00'46"	-2°-8'-32"
direct	-2580 Nov 15 j 21:31	14°38'45"		min. Earth dist.	-2572 Sep 16 j 15:46	4°02'10"	28.83480 AU
	-2580 Dec 21 j 01:47	15°		direct	-2572 Dec 03 j 19:42	2°37'01"	
conjunction	-2579 Feb 26 j 09:40	17°07'24"	-1°-43'-51"	conjunction	-2571 Mar 16 j 21:51	5°06'19"	-2°00'-56"
minimum elong	-2579 Feb 26 j 09:40	17°07'24"	1°43'55"	minimum elong	-2571 Mar 16 j 21:51	5°06'19"	2°00'59"
max. Earth dist.	-2579 Feb 27 j 10:25	17°09'44"	30.85420 AU	max. Earth dist.	-2571 Mar 17 j 18:39	5°08'17"	30.83401 AU
retrograde	-2579 Jun 14 j 00:41	19°42'22"		retrograde	-2571 Jul 02 j 11:16	7°41'01"	
min. Earth dist.	-2579 Sep 01 j 05:12	18°18'33"	28.85358 AU	opposition	-2571 Sep 19 j 23:01	6°15'41"	-2°-10'-4"
opposition	-2579 Sep 02 j 03:15	18°17'00"	-1°-52'-33"	min. Earth dist.	-2571 Sep 19 j 04:08	6°17'01"	28.83659 AU
direct	-2579 Nov 18 j 09:43	16°53'38"		direct	-2571 Dec 06 j 05:46	4°51'56"	
conjunction	-2578 Feb 28 j 23:00	19°22'22"	-1°-46'-34"	conjunction	-2570 Mar 19 j 11:49	7°21'21"	-2°-2'-16"
minimum elong	-2578 Feb 28 j 22:59	19°22'22"	1°46'37"	minimum elong	-2570 Mar 19 j 11:48	7°21'21"	2°02'18"
max. Earth dist.	-2578 Mar 01 j 22:04	19°24'32"	30.85028 AU	max. Earth dist.	-2570 Mar 20 j 09:18	7°23'22"	30.83624 AU
retrograde	-2578 Jun 16 j 14:59	21°57'19"		retrograde	-2570 Jul 04 j 23:11	9°55'59"	
opposition	-2578 Sep 04 j 15:03	20°31'56"	-1°-55'-23"	opposition	-2570 Sep 22 j 10:15	8°30'44"	-2°-11'-23"
min. Earth dist.	-2578 Sep 03 j 17:27	20°33'28"	28.84941 AU	min. Earth dist.	-2570 Sep 21 j 15:37	8°32'03"	28.83910 AU
direct	-2578 Nov 20 j 20:15	19°08'30"		direct	-2570 Dec 08 j 17:01	7°06'58"	
conjunction	-2577 Mar 03 j 12:24	21°37'19"	-1°-49'-8"	conjunction	-2569 Mar 22 j 01:42	9°36'30"	-2°-3'-24"
minimum elong	-2577 Mar 03 j 12:24	21°37'19"	1°49'12"	minimum elong	-2569 Mar 22 j 01:42	9°36'30"	2°03'27"
max. Earth dist.	-2577 Mar 04 j 11:55	21°39'32"	30.84580 AU	max. Earth dist.	-2569 Mar 22 j 21:26	9°38'21"	30.83897 AU
retrograde	-2577 Jun 19 j 03:37	24°12'14"		retrograde	-2569 Jul 07 j 13:20	12°11'07"	
min. Earth dist.	-2577 Sep 06 j 05:59	22°48'18"	28.84486 AU	opposition	-2569 Sep 24 j 21:32	10°45'55"	-2°-12'-30"
opposition	-2577 Sep 07 j 02:46	22°46'50"	-1°-58'-2"	min. Earth dist.	-2569 Sep 24 j 03:37	10°47'11"	28.84186 AU
direct	-2577 Nov 23 j 08:35	21°23'20"		direct	-2569 Dec 11 j 02:53	9°22'07"	
conjunction	-2576 Mar 05 j 01:54	23°52'13"	-1°-51'-32"	conjunction	-2568 Mar 23 j 16:02	11°51'47"	-2°-4'-22"
minimum elong	-2576 Mar 05 j 01:53	23°52'13"	1°51'35"	minimum elong	-2568 Mar 23 j 16:02	11°51'47"	2°04'23"
max. Earth dist.	-2576 Mar 06 j 00:23	23°54'20"	30.84139 AU	max. Earth dist.	-2568 Mar 24 j 11:46	11°53'38"	30.84142 AU
retrograde	-2576 Jun 20 j 18:52	26°27'05"		retrograde	-2568 Jul 09 j 01:05	14°26'20"	
opposition	-2576 Sep 08 j 14:09	25°01'40"	-2°00'-30"	opposition	-2568 Sep 26 j 08:43	13°01'11"	-2°-13'-25"
min. Earth dist.	-2576 Sep 07 j 17:09	25°03'08"	28.84069 AU	min. Earth dist.	-2568 Sep 25 j 16:04	13°02'22"	28.84398 AU



Attention, astronomical year style is used: The year -2551 in astronomical counting style is the year 2552 BCE in historical counting style.

conjunction	-2551 May 02 j 20:38	20° $\Upsilon$ 05'39	-1°-51'-36	conjunction	-2543 May 21 j 14:33	7° $\Upsilon$ 58'04	-1°-28'-12
minimum elong	-2551 May 02 j 20:38	20° $\Upsilon$ 05'39	1°51'35	minimum elong	-2543 May 21 j 14:33	7° $\Upsilon$ 58'04	1°28'10
max. Earth dist.	-2551 May 02 j 23:30	20° $\Upsilon$ 05'55	30.88899 AU	max. Earth dist.	-2543 May 21 j 11:39	7° $\Upsilon$ 57'48	30.94722 AU
retrograde	-2551 Aug 17 j 00:09	22° $\Upsilon$ 38'07		retrograde	-2543 Sep 03 j 21:16	10° $\Upsilon$ 29'15	
opposition	-2551 Nov 02 j 23:53	21° $\Upsilon$ 13'41	-1°-58'-4	opposition	-2543 Nov 20 j 10:11	9° $\Upsilon$ 05'25	-1°-32'-24
min. Earth dist.	-2551 Nov 02 j 20:57	21° $\Upsilon$ 13'54	28.89186 AU	min. Earth dist.	-2543 Nov 20 j 13:27	9° $\Upsilon$ 05'11	28.95275 AU
direct	-2550 Jan 20 j 02:21	19° $\Upsilon$ 48'59		direct	-2542 Feb 07 j 03:14	7° $\Upsilon$ 40'30	
conjunction	-2550 May 05 j 10:58	22° $\Upsilon$ 20'06	-1°-49'-13	conjunction	-2542 May 24 j 04:37	10° $\Upsilon$ 12'09	-1°-24'-38
minimum elong	-2550 May 05 j 10:58	22° $\Upsilon$ 20'06	1°49'12	minimum elong	-2542 May 24 j 04:37	10° $\Upsilon$ 12'09	1°24'36
max. Earth dist.	-2550 May 05 j 14:01	22° $\Upsilon$ 20'23	30.89257 AU	max. Earth dist.	-2542 May 23 j 23:25	10° $\Upsilon$ 11'40	30.95675 AU
retrograde	-2550 Aug 19 j 09:38	24° $\Upsilon$ 52'23		retrograde	-2542 Sep 06 j 09:08	12° $\Upsilon$ 43'11	
opposition	-2550 Nov 05 j 10:18	23° $\Upsilon$ 27'59	-1°-55'-26	opposition	-2542 Nov 22 j 20:32	11° $\Upsilon$ 19'27	-1°-28'-31
min. Earth dist.	-2550 Nov 05 j 08:31	23° $\Upsilon$ 28'06	28.89564 AU	min. Earth dist.	-2542 Nov 23 j 00:46	11° $\Upsilon$ 19'09	28.96184 AU
direct	-2549 Jan 22 j 14:34	22° $\Upsilon$ 03'12		direct	-2541 Feb 09 j 14:26	9° $\Upsilon$ 54'30	
conjunction	-2549 May 08 j 01:16	24° $\Upsilon$ 34'21	-1°-46'-40	conjunction	-2541 May 26 j 18:59	12° $\Upsilon$ 26'14	-1°-20'-56
minimum elong	-2549 May 08 j 01:16	24° $\Upsilon$ 34'21	1°46'39	minimum elong	-2541 May 26 j 18:59	12° $\Upsilon$ 26'14	1°20'54
max. Earth dist.	-2549 May 08 j 02:28	24° $\Upsilon$ 34'27	30.89690 AU	max. Earth dist.	-2541 May 26 j 13:33	12° $\Upsilon$ 25'44	30.96531 AU
retrograde	-2549 Aug 21 j 22:00	27° $\Upsilon$ 06'26		retrograde	-2541 Sep 08 j 18:55	14° $\Upsilon$ 57'06	
opposition	-2549 Nov 07 j 20:28	25° $\Upsilon$ 42'04	-1°-52'-38	opposition	-2541 Nov 25 j 06:51	13° $\Upsilon$ 33'27	-1°-24'-30
min. Earth dist.	-2549 Nov 07 j 18:43	25° $\Upsilon$ 42'11	28.90044 AU	min. Earth dist.	-2541 Nov 25 j 12:37	13° $\Upsilon$ 33'02	28.96980 AU
direct	-2548 Jan 25 j 02:01	24° $\Upsilon$ 17'13		direct	-2540 Feb 12 j 02:38	12° $\Upsilon$ 08'29	
conjunction	-2548 May 09 j 15:38	26° $\Upsilon$ 48'24	-1°-43'-59	conjunction	-2540 May 28 j 09:07	14° $\Upsilon$ 40'15	-1°-17'-7
minimum elong	-2548 May 09 j 15:38	26° $\Upsilon$ 48'24	1°43'57	minimum elong	-2540 May 28 j 09:07	14° $\Upsilon$ 40'15	1°17'05
max. Earth dist.	-2548 May 09 j 16:46	26° $\Upsilon$ 48'31	30.90225 AU	max. Earth dist.	-2540 May 28 j 01:23	14° $\Upsilon$ 39'32	30.97296 AU
retrograde	-2548 Aug 23 j 08:02	29° $\Upsilon$ 20'19		retrograde	-2540 Jun 06 j 06:24	15° $\Upsilon$	
opposition	-2548 Nov 09 j 06:53	27° $\Upsilon$ 56'00	-1°-49'-40	retrograde	-2540 Sep 10 j 07:17	17° $\Upsilon$ 10'56	
min. Earth dist.	-2548 Nov 09 j 06:40	27° $\Upsilon$ 56'01	28.90645 AU	opposition	-2540 Nov 26 j 17:09	15° $\Upsilon$ 47'21	-1°-20'-21
direct	-2547 Jan 26 j 12:45	26° $\Upsilon$ 31'06		min. Earth dist.	-2540 Nov 26 j 23:12	15° $\Upsilon$ 46'55	28.97702 AU
conjunction	-2547 May 12 j 05:40	29° $\Upsilon$ 02'20	-1°-41'-7	direct	-2540 Dec 26 j 06:27	15° $\Upsilon$	
minimum elong	-2547 May 12 j 05:41	29° $\Upsilon$ 02'20	1°41'06	direct	-2539 Feb 13 j 13:56	14° $\Upsilon$ 22'20	
max. Earth dist.	-2547 May 12 j 05:49	29° $\Upsilon$ 02'21	30.90911 AU	direct	-2539 Apr 03 j 02:49	15° $\Upsilon$	
retrograde	-2547 Jun 07 j 17:02	0° $\Upsilon$		conjunction	-2539 May 30 j 23:05	16° $\Upsilon$ 54'08	-1°-13'-11
opposition	-2547 Aug 25 j 20:26	1° $\Upsilon$ 34'05		minimum elong	-2539 May 30 j 23:06	16° $\Upsilon$ 54'08	1°13'09
min. Earth dist.	-2547 Nov 11 j 17:06	0° $\Upsilon$ 09'50	-1°-46'-31	max. Earth dist.	-2539 May 30 j 15:05	16° $\Upsilon$ 53'24	30.97984 AU
direct	-2547 Nov 11 j 16:28	0° $\Upsilon$ 09'52	28.91397 AU	retrograde	-2539 Sep 12 j 16:28	19° $\Upsilon$ 24'39	
retrograde	-2547 Nov 17 j 11:26	30° $\Upsilon$		opposition	-2539 Nov 29 j 03:30	18° $\Upsilon$ 01'07	-1°-16'-6
direct	-2546 Jan 29 j 02:19	28° $\Upsilon$ 44'53		min. Earth dist.	-2539 Nov 29 j 11:26	18° $\Upsilon$ 00'33	28.98365 AU
conjunction	-2546 May 14 j 19:51	1° $\Upsilon$ 16'12	-1°-38'-7	direct	-2538 Feb 16 j 00:38	16° $\Upsilon$ 36'03	
minimum elong	-2546 May 14 j 19:51	1° $\Upsilon$ 16'12	1°38'06	conjunction	-2538 Jun 02 j 13:00	19° $\Upsilon$ 07'52	-1°-9'-9
max. Earth dist.	-2546 May 14 j 19:14	1° $\Upsilon$ 16'09	30.91736 AU	minimum elong	-2538 Jun 02 j 13:00	19° $\Upsilon$ 07'52	1°09'08
retrograde	-2546 Aug 28 j 07:52	3° $\Upsilon$ 47'48		max. Earth dist.	-2538 Jun 02 j 03:34	19° $\Upsilon$ 06'59	30.98650 AU
opposition	-2546 Nov 14 j 03:22	2° $\Upsilon$ 23'38	-1°-43'-13	retrograde	-2538 Sep 15 j 03:45	21° $\Upsilon$ 38'11	
min. Earth dist.	-2546 Nov 14 j 04:19	2° $\Upsilon$ 23'34	28.92290 AU	opposition	-2538 Dec 01 j 13:31	20° $\Upsilon$ 14'42	-1°-11'-45
direct	-2545 Jan 31 j 13:53	0° $\Upsilon$ 58'41		min. Earth dist.	-2538 Dec 01 j 21:23	20° $\Upsilon$ 14'09	28.99022 AU
conjunction	-2545 May 17 j 10:07	3° $\Upsilon$ 30'05	-1°-34'-57	direct	-2537 Feb 18 j 14:29	18° $\Upsilon$ 49'35	
minimum elong	-2545 May 17 j 10:07	3° $\Upsilon$ 30'05	1°34'56	conjunction	-2537 Jun 05 j 02:54	21° $\Upsilon$ 21'26	-1°-5'-2
max. Earth dist.	-2545 May 17 j 09:01	3° $\Upsilon$ 29'59	30.92696 AU	minimum elong	-2537 Jun 05 j 02:54	21° $\Upsilon$ 21'26	1°04'59
retrograde	-2545 Aug 30 j 20:27	6° $\Upsilon$ 01'32		max. Earth dist.	-2537 Jun 04 j 16:39	21° $\Upsilon$ 20'29	30.99315 AU
opposition	-2545 Nov 16 j 13:34	4° $\Upsilon$ 37'29	-1°-39'-46	retrograde	-2537 Sep 17 j 14:07	23° $\Upsilon$ 51'34	
min. Earth dist.	-2545 Nov 16 j 14:30	4° $\Upsilon$ 37'25	28.93272 AU	opposition	-2537 Dec 03 j 23:48	22° $\Upsilon$ 28'07	-1°-7'-17
direct	-2544 Feb 03 j 03:11	3° $\Upsilon$ 12'33		min. Earth dist.	-2537 Dec 04 j 09:18	22° $\Upsilon$ 27'26	28.99714 AU
conjunction	-2544 May 19 j 00:15	5° $\Upsilon$ 44'02	-1°-31'-39	direct	-2536 Feb 21 j 02:06	21° $\Upsilon$ 02'56	
minimum elong	-2544 May 19 j 00:15	5° $\Upsilon$ 44'02	1°31'37	conjunction	-2536 Jun 06 j 16:34	23° $\Upsilon$ 34'48	-1°00'-48
max. Earth dist.	-2544 May 18 j 21:27	5° $\Upsilon$ 43'47	30.93705 AU	minimum elong	-2536 Jun 06 j 16:34	23° $\Upsilon$ 34'48	1°00'46
retrograde	-2544 Sep 01 j 09:10	8° $\Upsilon$ 15'21		max. Earth dist.	-2536 Jun 06 j 05:51	23° $\Upsilon$ 33'49	31.00046 AU
opposition	-2544 Nov 17 j 23:51	6° $\Upsilon$ 51'24	-1°-36'-9	retrograde	-2536 Sep 19 j 01:35	26° $\Upsilon$ 04'45	
min. Earth dist.	-2544 Nov 18 j 02:18	6° $\Upsilon$ 51'14	28.94293 AU	opposition	-2536 Dec 05 j 09:55	24° $\Upsilon$ 41'22	-1°-2'-43
direct	-2543 Feb 04 j 14:17	5° $\Upsilon$ 26'29		min. Earth dist.	-2536 Dec 05 j 19:12	24° $\Upsilon$ 40'43	29.00477 AU
				direct	-2535 Feb 22 j 15:31	23° $\Upsilon$ 16'09	

Attention, astronomical year style is used: The year -2535 in astronomical counting style is the year 2536 BCE in historical counting style.

conjunction	-2535 Jun 09 j 06:06	25°♄48'02	0°-56'-30	direct	-2527 Mar 12 j 14:59	11°♁00'32		
minimum elong	-2535 Jun 09 j 06:06	25°♄48'02	0°56'27					
max. Earth dist.	-2535 Jun 08 j 18:05	25°♄46'56	31.00867 AU	conjunction	-2527 Jun 27 j 17:04	13°♁32'38	0°-19'-36	
retrograde	-2535 Sep 21 j 13:45	28°♄17'49		minimum elong	-2527 Jun 27 j 17:04	13°♁32'38	0°19'33	
opposition	-2535 Dec 07 j 20:07	26°♄54'29	0°-58'-4	max. Earth dist.	-2527 Jun 26 j 22:48	13°♁30'57	31.08844 AU	
min. Earth dist.	-2535 Dec 08 j 06:26	26°♄53'45	29.01367 AU	retrograde	-2527 Oct 09 j 03:17	16°♁01'12		
direct	-2534 Feb 25 j 03:20	25°♄29'15		opposition	-2527 Dec 25 j 06:29	14°♁38'31	0°-18'-24	
				min. Earth dist.	-2527 Dec 25 j 22:41	14°♁37'23	29.09200 AU	
conjunction	-2534 Jun 11 j 19:38	28°♄01'10	0°-52'-6	direct	-2526 Mar 15 j 04:26	13°♁13'13		
minimum elong	-2534 Jun 11 j 19:38	28°♄01'10	0°52'04	max. Earth dist.	-2526 Jun 29 j 10:17	15°♁43'29	31.09505 AU	
max. Earth dist.	-2534 Jun 11 j 07:57	28°♄00'05	31.01821 AU					
	-2534 Aug 12 j 00:53	0°♁		conjunction	-2526 Jun 30 j 06:02	15°♁45'19	0°-14'-48	
retrograde	-2534 Sep 24 j 01:07	0°♁30'47		minimum elong	-2526 Jun 30 j 06:01	15°♁45'19	0°14'45	
	-2534 Nov 06 j 18:05	30°♄		behind sun begin	-2526 Jun 30 j 03:34	15°♁45'06		
opposition	-2534 Dec 10 j 06:19	29°♄07'32	0°-53'-20	behind sun end	-2526 Jun 30 j 08:29	15°♁45'32		
min. Earth dist.	-2534 Dec 10 j 17:02	29°♄06'47	29.02364 AU	retrograde	-2526 Oct 11 j 14:37	18°♁13'42		
direct	-2533 Feb 27 j 17:17	27°♄42'18		opposition	-2526 Dec 27 j 16:53	16°♁51'03	0°-13'-15	
	-2533 Jun 07 j 23:12	0°♁		min. Earth dist.	-2526 Dec 28 j 10:19	16°♁49'50	29.09838 AU	
				direct	-2525 Mar 17 j 16:36	15°♁25'42		
conjunction	-2533 Jun 14 j 09:05	0°♁14'16	0°-47'-38					
minimum elong	-2533 Jun 14 j 09:05	0°♁14'16	0°47'35	conjunction	-2525 Jul 02 j 18:57	17°♁57'47	0°-10'00	
max. Earth dist.	-2533 Jun 13 j 19:41	0°♁13'02	31.02880 AU	minimum elong	-2525 Jul 02 j 18:58	17°♁57'47	0°09'56	
retrograde	-2533 Sep 26 j 12:33	2°♁43'44		behind sun begin	-2525 Jul 02 j 13:41	17°♁57'19		
opposition	-2533 Dec 12 j 16:27	1°♁20'35	0°-48'-31	behind sun end	-2525 Jul 03 j 00:15	17°♁58'15		
min. Earth dist.	-2533 Dec 13 j 03:37	1°♁19'48	29.03469 AU	max. Earth dist.	-2525 Jul 01 j 23:25	17°♁55'58	31.10123 AU	
	-2532 Feb 13 j 07:33	30°♄		retrograde	-2525 Oct 14 j 00:55	20°♁26'00		
direct	-2532 Mar 01 j 04:36	29°♄55'21		opposition	-2525 Dec 30 j 03:12	19°♁03'22	0°-8'-6	
	-2532 Mar 17 j 22:29	0°♁		min. Earth dist.	-2525 Dec 30 j 21:09	19°♁02'06	29.10442 AU	
				direct	-2524 Mar 19 j 06:53	17°♁37'58		
conjunction	-2532 Jun 15 j 22:39	2°♁27'22	0°-43'-6	max. Earth dist.	-2524 Jul 03 j 10:32	20°♁08'05	31.10741 AU	
minimum elong	-2532 Jun 15 j 22:39	2°♁27'22	0°43'03					
max. Earth dist.	-2532 Jun 15 j 09:39	2°♁26'10	31.04014 AU	conjunction	-2524 Jul 04 j 07:36	20°♁10'02	0°-5'-12	
retrograde	-2532 Sep 27 j 22:46	4°♁56'41		minimum elong	-2524 Jul 04 j 07:36	20°♁10'02	0°05'09	
opposition	-2532 Dec 14 j 02:47	3°♁33'39	0°-43'-38	behind sun begin	-2524 Jul 04 j 01:14	20°♁09'28		
min. Earth dist.	-2532 Dec 14 j 15:09	3°♁32'47	29.04609 AU	behind sun end	-2524 Jul 04 j 13:58	20°♁10'36		
direct	-2531 Mar 03 j 16:53	2°♁08'27		retrograde	-2524 Oct 15 j 12:07	22°♁38'06		
				opposition	-2524 Dec 31 j 13:34	21°♁15'30	0°-2'-57	
conjunction	-2531 Jun 18 j 11:50	4°♁40'30	0°-38'-29	min. Earth dist.	-2523 Jan 01 j 07:40	21°♁14'14	29.11094 AU	
minimum elong	-2531 Jun 18 j 11:50	4°♁40'31	0°38'26	direct	-2523 Mar 21 j 18:32	19°♁50'04		
max. Earth dist.	-2531 Jun 17 j 20:57	4°♁39'08	31.05161 AU					
retrograde	-2531 Sep 30 j 11:09	7°♁09'41		conjunction	-2523 Jul 06 j 20:04	22°♁22'06	0°00'-19	
opposition	-2531 Dec 16 j 13:02	5°♁46'45	0°-38'-40	minimum elong	-2523 Jul 06 j 20:05	22°♁22'06	0°00'15	
min. Earth dist.	-2531 Dec 17 j 01:28	5°♁45'53	29.05736 AU	behind sun begin	-2523 Jul 06 j 13:35	22°♁21'32		
direct	-2530 Mar 06 j 04:11	4°♁21'33		behind sun end	-2523 Jul 07 j 02:35	22°♁22'41		
max. Earth dist.	-2530 Jun 20 j 10:16	6°♁52'16	31.06245 AU	max. Earth dist.	-2523 Jul 05 j 23:51	22°♁20'14	31.11420 AU	
				asc. node	-2523 Jul 31 j 02:17	23°♁15'05		
conjunction	-2530 Jun 21 j 01:20	6°♁53'39	0°-33'-49	retrograde	-2523 Oct 17 j 21:43	24°♁50'01		
minimum elong	-2530 Jun 21 j 01:21	6°♁53'39	0°33'47	opposition	-2522 Jan 03 j 00:00	23°♁27'28	0°02'12	
retrograde	-2530 Oct 02 j 19:57	9°♁22'42		min. Earth dist.	-2522 Jan 03 j 18:56	23°♁26'08	29.11815 AU	
opposition	-2530 Dec 18 j 23:22	7°♁59'51	0°-33'-40	direct	-2522 Mar 24 j 07:38	22°♁02'01		
min. Earth dist.	-2530 Dec 19 j 13:46	7°♁58'50	29.06775 AU	max. Earth dist.	-2522 Jul 08 j 10:49	24°♁32'03	31.12200 AU	
direct	-2529 Mar 08 j 15:05	6°♁34'39						
				conjunction	-2522 Jul 09 j 08:28	24°♁34'03	0°04'35	
conjunction	-2529 Jun 23 j 14:42	9°♁06'46	0°-29'-7	minimum elong	-2522 Jul 09 j 08:27	24°♁34'03	0°04'38	
minimum elong	-2529 Jun 23 j 14:43	9°♁06'46	0°29'04	behind sun begin	-2522 Jul 09 j 02:02	24°♁33'29		
max. Earth dist.	-2529 Jun 22 j 22:01	9°♁05'13	31.07235 AU	behind sun end	-2522 Jul 09 j 14:52	24°♁34'37		
retrograde	-2529 Oct 05 j 06:41	11°♁35'39		retrograde	-2522 Oct 20 j 09:31	27°♁01'50		
opposition	-2529 Dec 21 j 09:43	10°♁12'53	0°-28'-36	opposition	-2521 Jan 05 j 10:11	25°♁39'21	0°07'21	
min. Earth dist.	-2529 Dec 22 j 00:06	10°♁11'52	29.07698 AU	min. Earth dist.	-2521 Jan 06 j 04:34	25°♁38'03	29.12655 AU	
direct	-2528 Mar 10 j 04:10	8°♁47'39		direct	-2521 Mar 26 j 19:19	24°♁13'54		
max. Earth dist.	-2528 Jun 24 j 10:26	11°♁18'10	31.08089 AU					
				conjunction	-2521 Jul 11 j 20:56	26°♁45'57	0°09'22	
conjunction	-2528 Jun 25 j 03:56	11°♁19'47	0°-24'-22	minimum elong	-2521 Jul 11 j 20:56	26°♁45'57	0°09'26	
minimum elong	-2528 Jun 25 j 03:56	11°♁19'47	0°24'20	behind sun begin	-2521 Jul 11 j 15:29	26°♁45'28		
retrograde	-2528 Oct 06 j 16:34	13°♁48'30		behind sun end	-2521 Jul 12 j 02:23	26°♁46'26		
opposition	-2528 Dec 22 j 20:14	12°♁25'47	0°-23'-31	max. Earth dist.	-2521 Jul 10 j 23:52	26°♁44'00	31.13092 AU	
min. Earth dist.	-2528 Dec 23 j 12:22	12°♁24'39	29.08501 AU	retrograde	-2521 Oct 22 j 17:54	29°♁13'37		



Planetary Phenomena of Neptune from -2900 through -2400 (UT), Astrodienst AG 14-Nov-2015 16:06, page 25

Attention, astronomical year style is used: The year -2520 in astronomical counting style is the year 2521 BCE in historical counting style.

opposition	-2520 Jan 07 j 20:44	27°II51'13	0°12'29	max. Earth dist.	-2513 Jul 28 j 19:29	14°☾19'17	31.19801 AU
min. Earth dist.	-2520 Jan 08 j 16:22	27°II49'51	29.13602 AU	retrograde	-2513 Nov 09 j 06:50	16°☾48'34	
direct	-2520 Mar 28 j 06:19	26°II25'48		opposition	-2512 Jan 25 j 09:50	15°☾26'34	0°52'15
max. Earth dist.	-2520 Jul 12 j 11:13	28°II55'50	31.14090 AU	min. Earth dist.	-2512 Jan 26 j 08:19	15°☾25'01	29.20096 AU
				direct	-2512 Apr 15 j 08:28	14°☾01'13	
conjunction	-2520 Jul 13 j 09:03	28°II57'52	0°14'09	max. Earth dist.	-2512 Jul 30 j 07:38	16°☾30'48	31.20285 AU
minimum elong	-2520 Jul 13 j 09:03	28°II57'52	0°14'13				
behind sun begin	-2520 Jul 13 j 06:02	28°II57'36		conjunction	-2512 Jul 31 j 08:32	16°☾33'06	0°51'10
behind sun end	-2520 Jul 13 j 12:04	28°II58'08		minimum elong	-2512 Jul 31 j 08:32	16°☾33'06	0°51'13
	-2520 Aug 11 j 01:19	0°☾		retrograde	-2512 Nov 10 j 14:52	18°☾59'54	
retrograde	-2520 Oct 24 j 04:05	1°☾25'27		opposition	-2511 Jan 26 j 20:43	17°☾37'54	0°56'56
opposition	-2519 Jan 09 j 07:07	0°☾03'08	0°17'36	min. Earth dist.	-2511 Jan 27 j 20:21	17°☾36'16	29.20590 AU
min. Earth dist.	-2519 Jan 10 j 02:06	0°☾01'49	29.14629 AU	direct	-2511 Apr 17 j 20:27	16°☾12'31	
	-2519 Jan 11 j 04:03	30°RII					
direct	-2519 Mar 30 j 18:23	28°II37'46		conjunction	-2511 Aug 02 j 19:48	18°☾44'20	0°55'30
	-2519 Jun 13 j 08:25	0°☾		minimum elong	-2511 Aug 02 j 19:48	18°☾44'20	0°55'34
				max. Earth dist.	-2511 Aug 01 j 18:24	18°☾41'58	31.20797 AU
conjunction	-2519 Jul 15 j 21:17	1°☾09'51	0°18'56	retrograde	-2511 Nov 13 j 00:32	21°☾11'01	
minimum elong	-2519 Jul 15 j 21:17	1°☾09'51	0°19'00	opposition	-2510 Jan 29 j 07:20	19°☾49'01	1°01'32
max. Earth dist.	-2519 Jul 14 j 23:20	1°☾07'49	31.15128 AU	min. Earth dist.	-2510 Jan 30 j 06:01	19°☾47'27	29.21132 AU
retrograde	-2519 Oct 26 j 13:54	3°☾37'22		direct	-2510 Apr 20 j 08:55	18°☾23'37	
opposition	-2518 Jan 11 j 17:36	2°☾15'08	0°22'42	max. Earth dist.	-2510 Aug 04 j 05:58	20°☾53'01	31.21370 AU
min. Earth dist.	-2518 Jan 12 j 13:58	2°☾13'43	29.15679 AU				
direct	-2518 Apr 02 j 03:39	0°☾49'48		conjunction	-2510 Aug 05 j 07:05	20°☾55'22	0°59'46
max. Earth dist.	-2518 Jul 17 j 11:10	3°☾19'50	31.16161 AU	minimum elong	-2510 Aug 05 j 07:04	20°☾55'21	0°59'49
				retrograde	-2510 Nov 15 j 09:51	23°☾21'58	
conjunction	-2518 Jul 18 j 09:28	3°☾21'54	0°23'41	opposition	-2509 Jan 31 j 18:16	21°☾59'58	1°06'02
minimum elong	-2518 Jul 18 j 09:28	3°☾21'54	0°23'45	min. Earth dist.	-2509 Feb 01 j 17:40	21°☾58'21	29.21768 AU
retrograde	-2518 Oct 29 j 00:18	5°☾49'21		direct	-2509 Apr 22 j 18:49	20°☾34'34	
opposition	-2517 Jan 14 j 04:10	4°☾27'12	0°27'46				
min. Earth dist.	-2517 Jan 15 j 00:23	4°☾25'48	29.16672 AU	conjunction	-2509 Aug 07 j 18:09	23°☾06'16	1°03'56
direct	-2517 Apr 04 j 16:35	3°☾01'54		minimum elong	-2509 Aug 07 j 18:09	23°☾06'16	1°04'00
				max. Earth dist.	-2509 Aug 06 j 17:29	23°☾03'58	31.22058 AU
conjunction	-2517 Jul 20 j 21:35	5°☾34'01	0°28'24	retrograde	-2509 Nov 17 j 19:07	25°☾32'48	
minimum elong	-2517 Jul 20 j 21:34	5°☾34'01	0°28'28	opposition	-2508 Feb 03 j 05:10	24°☾10'51	1°10'27
max. Earth dist.	-2517 Jul 19 j 22:04	5°☾31'50	31.17103 AU	min. Earth dist.	-2508 Feb 04 j 03:40	24°☾09'18	29.22507 AU
retrograde	-2517 Oct 31 j 11:37	8°☾01'22		direct	-2508 Apr 24 j 07:42	22°☾45'29	
opposition	-2516 Jan 16 j 14:53	6°☾39'17	0°32'47	max. Earth dist.	-2508 Aug 08 j 04:06	25°☾14'48	31.22850 AU
min. Earth dist.	-2516 Jan 17 j 12:06	6°☾37'49	29.17577 AU				
direct	-2516 Apr 06 j 04:09	5°☾14'00		conjunction	-2508 Aug 09 j 05:10	25°☾17'08	1°08'01
max. Earth dist.	-2516 Jul 21 j 10:28	7°☾43'57	31.17946 AU	minimum elong	-2508 Aug 09 j 05:10	25°☾17'08	1°08'04
				retrograde	-2508 Nov 19 j 05:53	27°☾43'39	
conjunction	-2516 Jul 22 j 09:42	7°☾46'06	0°33'04	opposition	-2507 Feb 04 j 16:08	26°☾21'44	1°14'46
minimum elong	-2516 Jul 22 j 09:42	7°☾46'06	0°33'07	min. Earth dist.	-2507 Feb 05 j 14:50	26°☾20'10	29.23359 AU
retrograde	-2516 Nov 01 j 21:49	10°☾13'22		direct	-2507 Apr 26 j 17:50	24°☾56'26	
opposition	-2515 Jan 18 j 01:41	8°☾51'20	0°37'44				
min. Earth dist.	-2515 Jan 18 j 23:25	8°☾49'49	29.18358 AU	conjunction	-2507 Aug 11 j 16:07	27°☾28'04	1°12'00
direct	-2515 Apr 08 j 17:50	7°☾26'03		minimum elong	-2507 Aug 11 j 16:06	27°☾28'04	1°12'04
				max. Earth dist.	-2507 Aug 10 j 16:06	27°☾25'49	31.23727 AU
conjunction	-2515 Jul 24 j 21:29	9°☾58'07	0°37'41	retrograde	-2507 Nov 21 j 15:42	29°☾54'33	
minimum elong	-2515 Jul 24 j 21:29	9°☾58'07	0°37'45	opposition	-2506 Feb 07 j 03:10	28°☾32'42	1°18'58
max. Earth dist.	-2515 Jul 23 j 20:42	9°☾55'49	31.18665 AU	min. Earth dist.	-2506 Feb 08 j 01:57	28°☾31'08	29.24243 AU
retrograde	-2515 Nov 04 j 09:16	12°☾25'16		direct	-2506 Apr 29 j 06:15	27°☾07'28	
opposition	-2514 Jan 20 j 12:23	11°☾03'15	0°42'39	max. Earth dist.	-2506 Aug 13 j 02:00	29°☾36'45	31.24608 AU
min. Earth dist.	-2514 Jan 21 j 10:20	11°☾01'44	29.19029 AU				
direct	-2514 Apr 11 j 05:18	9°☾37'58		conjunction	-2506 Aug 14 j 03:00	29°☾39'05	1°15'53
max. Earth dist.	-2514 Jul 26 j 09:15	12°☾07'44	31.19273 AU	minimum elong	-2506 Aug 14 j 03:00	29°☾39'05	1°15'56
					-2506 Aug 23 j 11:43	0°♁	
conjunction	-2514 Jul 27 j 09:26	12°☾09'59	0°42'15	retrograde	-2506 Nov 24 j 03:32	2°♁05'34	
minimum elong	-2514 Jul 27 j 09:26	12°☾09'59	0°42'18	opposition	-2505 Feb 09 j 14:11	0°♁43'47	1°23'03
retrograde	-2514 Nov 06 j 19:14	14°☾37'01		min. Earth dist.	-2505 Feb 10 j 12:43	0°♁42'15	29.25118 AU
opposition	-2513 Jan 22 j 23:07	13°☾15'01	0°47'29		-2505 Mar 09 j 11:08	30°R☾	
min. Earth dist.	-2513 Jan 23 j 22:09	13°☾13'25	29.19588 AU	direct	-2505 May 01 j 17:03	29°☾18'37	
direct	-2513 Apr 13 j 19:33	11°☾49'42			-2505 Jun 22 j 09:51	0°♁	
conjunction	-2513 Jul 29 j 21:05	14°☾21'39	0°46'44	conjunction	-2505 Aug 16 j 14:02	1°♁50'13	1°19'39
minimum elong	-2513 Jul 29 j 21:05	14°☾21'39	0°46'49	minimum elong	-2505 Aug 16 j 14:01	1°♁50'13	1°19'43

Attention, astronomical year style is used: The year -2505 in astronomical counting style is the year 2506 BCE in historical counting style.

max. Earth dist.	-2505 Aug 15 j 14:05	1° $\Omega$ 47'59	31.25439 AU	conjunction	-2497 Sep 03 j 01:59	19° $\Omega$ 18'36	1°45'14
retrograde	-2505 Nov 26 j 14:00	4° $\Omega$ 16'42		minimum elong	-2497 Sep 03 j 01:59	19° $\Omega$ 18'36	1°45'16
opposition	-2504 Feb 12 j 01:34	2° $\Omega$ 54'59	1°27'01	retrograde	-2497 Dec 13 j 22:26	21° $\Omega$ 44'58	
min. Earth dist.	-2504 Feb 13 j 00:53	2° $\Omega$ 53'23	29.25910 AU	opposition	-2496 Feb 29 j 21:11	20° $\Omega$ 23'11	1°53'46
direct	-2504 May 03 j 06:39	1° $\Omega$ 29'52		min. Earth dist.	-2496 Mar 01 j 18:55	20° $\Omega$ 21'43	29.28779 AU
max. Earth dist.	-2504 Aug 16 j 23:38	3° $\Omega$ 59'06	31.26176 AU	direct	-2496 May 21 j 04:35	18° $\Omega$ 58'15	
conjunction	-2504 Aug 18 j 00:41	4° $\Omega$ 01'27	1°23'19	conjunction	-2496 Sep 04 j 11:59	21° $\Omega$ 29'12	1°47'47
minimum elong	-2504 Aug 18 j 00:41	4° $\Omega$ 01'27	1°23'21	minimum elong	-2496 Sep 04 j 11:59	21° $\Omega$ 29'12	1°47'48
retrograde	-2504 Nov 28 j 02:09	6° $\Omega$ 27'55		max. Earth dist.	-2496 Sep 03 j 13:44	21° $\Omega$ 27'07	31.28834 AU
opposition	-2503 Feb 13 j 12:51	5° $\Omega$ 06'14	1°30'51	retrograde	-2496 Dec 15 j 08:49	23° $\Omega$ 55'35	
min. Earth dist.	-2503 Feb 14 j 11:24	5° $\Omega$ 04'41	29.26592 AU	opposition	-2495 Mar 03 j 08:55	22° $\Omega$ 33'49	1°56'25
direct	-2503 May 05 j 19:15	3° $\Omega$ 41'11		min. Earth dist.	-2495 Mar 04 j 06:46	22° $\Omega$ 32'20	29.29175 AU
max. Earth dist.	-2503 Aug 19 j 11:08	6° $\Omega$ 10'26	31.26778 AU	direct	-2495 May 23 j 17:44	21° $\Omega$ 08'56	
conjunction	-2503 Aug 20 j 11:36	6° $\Omega$ 12'43	1°26'51	conjunction	-2495 Sep 06 j 21:52	23° $\Omega$ 39'49	1°50'11
minimum elong	-2503 Aug 20 j 11:36	6° $\Omega$ 12'43	1°26'54	minimum elong	-2495 Sep 06 j 21:52	23° $\Omega$ 39'49	1°50'14
retrograde	-2503 Nov 30 j 10:57	8° $\Omega$ 39'11		max. Earth dist.	-2495 Sep 05 j 23:12	23° $\Omega$ 37'42	31.29268 AU
opposition	-2502 Feb 16 j 00:11	7° $\Omega$ 17'31	1°34'34	retrograde	-2495 Dec 17 j 20:44	26° $\Omega$ 06'14	
min. Earth dist.	-2502 Feb 17 j 00:01	7° $\Omega$ 15'53	29.27134 AU	opposition	-2494 Mar 05 j 20:22	24° $\Omega$ 44'29	1°58'54
direct	-2502 May 08 j 07:11	5° $\Omega$ 52'30		min. Earth dist.	-2494 Mar 06 j 16:51	24° $\Omega$ 43'05	29.29631 AU
conjunction	-2502 Aug 22 j 22:21	8° $\Omega$ 23'59	1°30'15	direct	-2494 May 26 j 05:27	23° $\Omega$ 19'40	
minimum elong	-2502 Aug 22 j 22:21	8° $\Omega$ 23'59	1°30'17	max. Earth dist.	-2494 Sep 08 j 10:23	25° $\Omega$ 48'30	31.29723 AU
max. Earth dist.	-2502 Aug 21 j 21:15	8° $\Omega$ 21'38	31.27250 AU	conjunction	-2494 Sep 09 j 07:53	25° $\Omega$ 50'31	1°52'25
retrograde	-2502 Dec 02 j 21:09	10° $\Omega$ 50'24		minimum elong	-2494 Sep 09 j 07:53	25° $\Omega$ 50'31	1°52'27
opposition	-2501 Feb 18 j 11:34	9° $\Omega$ 28'46	1°38'08	retrograde	-2494 Dec 20 j 06:22	28° $\Omega$ 16'59	
min. Earth dist.	-2501 Feb 19 j 10:33	9° $\Omega$ 27'11	29.27535 AU	opposition	-2493 Mar 08 j 08:19	26° $\Omega$ 55'14	2°01'12
direct	-2501 May 10 j 20:09	8° $\Omega$ 03'46		min. Earth dist.	-2493 Mar 09 j 05:30	26° $\Omega$ 53'48	29.30085 AU
max. Earth dist.	-2501 Aug 24 j 07:59	10° $\Omega$ 32'50	31.27578 AU	direct	-2493 May 28 j 17:22	25° $\Omega$ 30'30	
conjunction	-2501 Aug 25 j 08:58	10° $\Omega$ 35'10	1°33'31	conjunction	-2493 Sep 11 j 17:40	28° $\Omega$ 01'17	1°54'30
minimum elong	-2501 Aug 25 j 08:57	10° $\Omega$ 35'10	1°33'35	minimum elong	-2493 Sep 11 j 17:40	28° $\Omega$ 01'17	1°54'33
retrograde	-2501 Dec 05 j 06:50	13° $\Omega$ 01'35		max. Earth dist.	-2493 Sep 10 j 20:17	27° $\Omega$ 59'16	31.30159 AU
opposition	-2500 Feb 20 j 23:08	11° $\Omega$ 39'55	1°41'34	retrograde	-2493 Nov 11 j 23:27	0° $\Upsilon$	
min. Earth dist.	-2500 Feb 21 j 22:59	11° $\Omega$ 38'17	29.27823 AU	retrograde	-2493 Dec 22 j 17:22	0° $\Upsilon$ 27'47	
direct	-2500 May 12 j 06:34	10° $\Omega$ 14'56		opposition	-2492 Feb 02 j 18:55	30° $\Upsilon$ $\Omega$	
conjunction	-2500 Aug 26 j 19:28	12° $\Omega$ 46'15	1°36'40	opposition	-2492 Mar 09 j 20:14	29° $\Omega$ 06'04	2°03'20
minimum elong	-2500 Aug 26 j 19:27	12° $\Omega$ 46'15	1°36'43	min. Earth dist.	-2492 Mar 10 j 16:06	29° $\Omega$ 04'43	29.30485 AU
max. Earth dist.	-2500 Aug 25 j 18:56	12° $\Omega$ 43'57	31.27823 AU	direct	-2492 May 30 j 06:43	27° $\Omega$ 41'24	
retrograde	-2500 Nov 09 j 12:49	15° $\Omega$		max. Earth dist.	-2492 Sep 07 j 18:24	0° $\Upsilon$	
retrograde	-2500 Dec 06 j 15:37	15° $\Omega$ 12'38		max. Earth dist.	-2492 Sep 12 j 06:33	0° $\Upsilon$ 10'09	31.30505 AU
opposition	-2499 Jan 03 j 09:35	15° $\Upsilon$ $\Omega$		conjunction	-2492 Sep 13 j 03:35	0° $\Upsilon$ 12'07	1°56'25
min. Earth dist.	-2499 Feb 22 j 10:32	13° $\Omega$ 50'57	1°44'51	minimum elong	-2492 Sep 13 j 03:35	0° $\Upsilon$ 12'07	1°56'27
direct	-2499 Feb 23 j 09:37	13° $\Omega$ 49'22	29.28034 AU	retrograde	-2492 Dec 24 j 03:51	2° $\Upsilon$ 38'41	
max. Earth dist.	-2499 May 14 j 19:48	12° $\Omega$ 25'57		opposition	-2491 Mar 12 j 08:15	1° $\Upsilon$ 16'58	2°05'18
conjunction	-2499 Aug 28 j 04:46	14° $\Omega$ 54'50	31.28012 AU	min. Earth dist.	-2491 Mar 13 j 04:45	1° $\Upsilon$ 15'34	29.30793 AU
conjunction	-2499 Aug 29 j 05:42	14° $\Omega$ 57'10	1°39'40	direct	-2491 Jun 01 j 17:40	29° $\Omega$ 52'21	
minimum elong	-2499 Aug 29 j 05:42	14° $\Omega$ 57'10	1°39'43	direct	-2491 Jun 23 j 12:31	0° $\Upsilon$	
retrograde	-2499 Aug 30 j 11:53	15° $\Omega$		conjunction	-2491 Sep 15 j 13:29	2° $\Upsilon$ 22'59	1°58'10
retrograde	-2499 Dec 09 j 01:47	17° $\Omega$ 23'32		minimum elong	-2491 Sep 15 j 13:28	2° $\Upsilon$ 22'59	1°58'12
opposition	-2498 Feb 24 j 22:03	16° $\Omega$ 01'49	1°47'59	max. Earth dist.	-2491 Sep 14 j 17:04	2° $\Upsilon$ 21'04	31.30745 AU
min. Earth dist.	-2498 Feb 25 j 21:09	16° $\Omega$ 00'14	29.28234 AU	retrograde	-2491 Dec 26 j 12:52	4° $\Upsilon$ 49'37	
direct	-2498 Apr 08 j 02:57	15° $\Upsilon$ $\Omega$		opposition	-2490 Mar 14 j 20:18	3° $\Upsilon$ 27'53	2°07'05
direct	-2498 May 17 j 05:51	14° $\Omega$ 36'49		min. Earth dist.	-2490 Mar 15 j 15:57	3° $\Upsilon$ 26'33	29.30953 AU
conjunction	-2498 Jun 24 j 12:49	15° $\Omega$		direct	-2490 Jun 04 j 06:41	2° $\Upsilon$ 03'19	
conjunction	-2498 Aug 31 j 15:57	17° $\Omega$ 07'57	1°42'31	conjunction	-2490 Sep 17 j 23:16	4° $\Upsilon$ 33'52	1°59'45
minimum elong	-2498 Aug 31 j 15:57	17° $\Omega$ 07'57	1°42'33	minimum elong	-2490 Sep 17 j 23:16	4° $\Upsilon$ 33'52	1°59'46
max. Earth dist.	-2498 Aug 30 j 16:24	17° $\Omega$ 05'44	31.28215 AU	max. Earth dist.	-2490 Sep 17 j 02:19	4° $\Upsilon$ 31'54	31.30825 AU
retrograde	-2498 Dec 11 j 10:49	19° $\Omega$ 34'18		retrograde	-2490 Dec 28 j 23:18	7° $\Upsilon$ 00'32	
opposition	-2497 Feb 27 j 09:35	18° $\Omega$ 12'33	1°50'57	retrograde	-2489 Mar 17 j 08:27	5° $\Upsilon$ 38'46	2°08'40
min. Earth dist.	-2497 Feb 28 j 08:20	18° $\Omega$ 10'59	29.28459 AU	opposition	-2489 Mar 18 j 04:08	5° $\Upsilon$ 37'26	29.30970 AU
direct	-2497 May 19 j 17:46	16° $\Omega$ 47'34		min. Earth dist.	-2489 Jun 06 j 16:52	4° $\Upsilon$ 14'14	
max. Earth dist.	-2497 Sep 02 j 02:00	19° $\Omega$ 16'21	31.28478 AU	direct			

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Attention, astronomical year style is used: The year -2489 in astronomical counting style is the year 2490 BCE in historical counting style.

conjunction	-2489 Sep 20 j 09:08	6° $\mathring{\mu}$ 44'42	2°01'09	retrograde	-2480 Jan 17 j 21:49	26° $\mathring{\mu}$ 36'09	
minimum elong	-2489 Sep 20 j 09:08	6° $\mathring{\mu}$ 44'42	2°01'11	opposition	-2480 Apr 05 j 22:59	25° $\mathring{\mu}$ 14'01	2°14'36
max. Earth dist.	-2489 Sep 19 j 13:27	6° $\mathring{\mu}$ 42'51	31.30767 AU	min. Earth dist.	-2480 Apr 06 j 12:12	25° $\mathring{\mu}$ 13'08	29.29593 AU
retrograde	-2489 Dec 31 j 08:37	9° $\mathring{\mu}$ 11'25		direct	-2480 Jun 26 j 02:53	23° $\mathring{\mu}$ 49'54	
opposition	-2488 Mar 18 j 20:44	7° $\mathring{\mu}$ 49'36	2°10'05				
min. Earth dist.	-2488 Mar 19 j 16:11	7° $\mathring{\mu}$ 48'17	29.30837 AU	conjunction	-2480 Oct 08 j 21:05	26° $\mathring{\mu}$ 19'34	2°05'53
direct	-2488 Jun 08 j 04:56	6° $\mathring{\mu}$ 25'05		minimum elong	-2480 Oct 08 j 21:05	26° $\mathring{\mu}$ 19'34	2°05'52
				max. Earth dist.	-2480 Oct 08 j 08:28	26° $\mathring{\mu}$ 18'22	31.29420 AU
conjunction	-2488 Sep 21 j 18:39	8° $\mathring{\mu}$ 55'25	2°02'23	retrograde	-2479 Jan 19 j 07:33	28° $\mathring{\mu}$ 47'04	
minimum elong	-2488 Sep 21 j 18:38	8° $\mathring{\mu}$ 55'25	2°02'24	opposition	-2479 Apr 08 j 11:34	27° $\mathring{\mu}$ 24'55	2°14'18
max. Earth dist.	-2488 Sep 20 j 22:23	8° $\mathring{\mu}$ 53'31	31.30578 AU	min. Earth dist.	-2479 Apr 09 j 00:16	27° $\mathring{\mu}$ 24'04	29.29531 AU
retrograde	-2487 Jan 01 j 20:14	11° $\mathring{\mu}$ 22'12		direct	-2479 Jun 28 j 14:33	26° $\mathring{\mu}$ 00'53	
opposition	-2487 Mar 21 j 08:52	10° $\mathring{\mu}$ 00'19	2°11'19				
min. Earth dist.	-2487 Mar 22 j 03:29	9° $\mathring{\mu}$ 59'04	29.30603 AU	conjunction	-2479 Oct 11 j 06:16	28° $\mathring{\mu}$ 30'27	2°05'30
direct	-2487 Jun 10 j 15:53	8° $\mathring{\mu}$ 35'49		minimum elong	-2479 Oct 11 j 06:16	28° $\mathring{\mu}$ 30'27	2°05'30
max. Earth dist.	-2487 Sep 23 j 09:36	11° $\mathring{\mu}$ 04'17	31.30298 AU	max. Earth dist.	-2479 Oct 10 j 17:14	28° $\mathring{\mu}$ 29'14	31.29320 AU
					-2479 Nov 22 j 16:04	0° $\mathring{\mu}$	
conjunction	-2487 Sep 24 j 04:18	11° $\mathring{\mu}$ 06'02	2°03'27	retrograde	-2478 Jan 21 j 19:26	0° $\mathring{\mu}$ 58'06	
minimum elong	-2487 Sep 24 j 04:18	11° $\mathring{\mu}$ 06'02	2°03'29		-2478 Mar 26 j 21:58	30° $\mathring{\mu}$	
retrograde	-2486 Jan 04 j 06:18	13° $\mathring{\mu}$ 32'51		opposition	-2478 Apr 11 j 00:04	29° $\mathring{\mu}$ 35'55	2°13'48
opposition	-2486 Mar 23 j 21:00	12° $\mathring{\mu}$ 10'54	2°12'22	min. Earth dist.	-2478 Apr 11 j 11:47	29° $\mathring{\mu}$ 35'08	29.29382 AU
min. Earth dist.	-2486 Mar 24 j 15:49	12° $\mathring{\mu}$ 09'38	29.30298 AU	direct	-2478 Jul 01 j 00:58	28° $\mathring{\mu}$ 11'57	
direct	-2486 Jun 13 j 04:31	10° $\mathring{\mu}$ 46'24			-2478 Sep 25 j 02:44	0° $\mathring{\mu}$	
conjunction	-2486 Sep 26 j 13:40	13° $\mathring{\mu}$ 16'31	2°04'20	conjunction	-2478 Oct 13 j 15:39	0° $\mathring{\mu}$ 41'27	2°04'57
minimum elong	-2486 Sep 26 j 13:40	13° $\mathring{\mu}$ 16'31	2°04'21	minimum elong	-2478 Oct 13 j 15:40	0° $\mathring{\mu}$ 41'27	2°04'56
max. Earth dist.	-2486 Sep 25 j 18:51	13° $\mathring{\mu}$ 14'45	31.29995 AU	max. Earth dist.	-2478 Oct 13 j 04:11	0° $\mathring{\mu}$ 40'22	31.29106 AU
retrograde	-2485 Jan 06 j 18:10	15° $\mathring{\mu}$ 43'23		retrograde	-2477 Jan 24 j 06:01	3° $\mathring{\mu}$ 09'12	
opposition	-2485 Mar 26 j 09:12	14° $\mathring{\mu}$ 21'22	2°13'13	opposition	-2477 Apr 13 j 12:55	1° $\mathring{\mu}$ 46'59	2°13'06
min. Earth dist.	-2485 Mar 27 j 02:14	14° $\mathring{\mu}$ 20'13	29.30008 AU	min. Earth dist.	-2477 Apr 14 j 00:45	1° $\mathring{\mu}$ 46'11	29.29100 AU
direct	-2485 Jun 15 j 16:04	12° $\mathring{\mu}$ 56'53		direct	-2477 Jul 03 j 12:27	0° $\mathring{\mu}$ 23'03	
conjunction	-2485 Sep 28 j 22:58	15° $\mathring{\mu}$ 26'54	2°05'03	conjunction	-2477 Oct 16 j 00:47	2° $\mathring{\mu}$ 52'27	2°04'13
minimum elong	-2485 Sep 28 j 22:58	15° $\mathring{\mu}$ 26'54	2°05'04	minimum elong	-2477 Oct 16 j 00:47	2° $\mathring{\mu}$ 52'27	2°04'13
max. Earth dist.	-2485 Sep 28 j 05:38	15° $\mathring{\mu}$ 25'17	31.29722 AU	max. Earth dist.	-2477 Oct 15 j 13:07	2° $\mathring{\mu}$ 51'21	31.28767 AU
retrograde	-2484 Jan 09 j 03:57	17° $\mathring{\mu}$ 53'51		retrograde	-2476 Jan 26 j 18:14	5° $\mathring{\mu}$ 20'19	
opposition	-2484 Mar 27 j 21:37	16° $\mathring{\mu}$ 31'46	2°13'53	opposition	-2476 Apr 15 j 01:41	3° $\mathring{\mu}$ 58'02	2°12'14
min. Earth dist.	-2484 Mar 28 j 14:46	16° $\mathring{\mu}$ 30'37	29.29781 AU	min. Earth dist.	-2476 Apr 15 j 11:54	3° $\mathring{\mu}$ 57'21	29.28689 AU
direct	-2484 Jun 17 j 04:09	15° $\mathring{\mu}$ 07'20		direct	-2476 Jul 04 j 23:10	2° $\mathring{\mu}$ 34'08	
conjunction	-2484 Sep 30 j 08:15	17° $\mathring{\mu}$ 37'15	2°05'34	conjunction	-2476 Oct 17 j 10:07	5° $\mathring{\mu}$ 03'26	2°03'18
minimum elong	-2484 Sep 30 j 08:15	17° $\mathring{\mu}$ 37'15	2°05'35	minimum elong	-2476 Oct 17 j 10:07	5° $\mathring{\mu}$ 03'26	2°03'17
max. Earth dist.	-2484 Sep 29 j 15:41	17° $\mathring{\mu}$ 35'42	31.29547 AU	max. Earth dist.	-2476 Oct 16 j 23:28	5° $\mathring{\mu}$ 02'25	31.28286 AU
retrograde	-2483 Jan 10 j 15:07	20° $\mathring{\mu}$ 04'16		retrograde	-2475 Jan 28 j 05:02	7° $\mathring{\mu}$ 31'23	
opposition	-2483 Mar 30 j 09:43	18° $\mathring{\mu}$ 42'10	2°14'21	opposition	-2475 Apr 17 j 14:24	6° $\mathring{\mu}$ 09'01	2°11'10
min. Earth dist.	-2483 Mar 31 j 00:57	18° $\mathring{\mu}$ 41'08	29.29648 AU	min. Earth dist.	-2475 Apr 18 j 01:07	6° $\mathring{\mu}$ 08'18	29.28151 AU
direct	-2483 Jun 19 j 17:24	17° $\mathring{\mu}$ 17'47		direct	-2475 Jul 07 j 11:24	4° $\mathring{\mu}$ 45'08	
conjunction	-2483 Oct 02 j 17:31	19° $\mathring{\mu}$ 47'39	2°05'55	conjunction	-2475 Oct 19 j 19:18	7° $\mathring{\mu}$ 14'18	2°02'13
minimum elong	-2483 Oct 02 j 17:31	19° $\mathring{\mu}$ 47'39	2°05'57	minimum elong	-2475 Oct 19 j 19:18	7° $\mathring{\mu}$ 14'18	2°02'13
max. Earth dist.	-2483 Oct 02 j 01:42	19° $\mathring{\mu}$ 46'10	31.29455 AU	max. Earth dist.	-2475 Oct 19 j 09:17	7° $\mathring{\mu}$ 13'21	31.27711 AU
retrograde	-2482 Jan 13 j 02:02	22° $\mathring{\mu}$ 14'46		retrograde	-2474 Jan 30 j 17:01	9° $\mathring{\mu}$ 42'20	
opposition	-2482 Apr 01 j 22:05	20° $\mathring{\mu}$ 52'39	2°14'38	opposition	-2474 Apr 20 j 03:06	8° $\mathring{\mu}$ 19'52	2°09'55
min. Earth dist.	-2482 Apr 02 j 13:17	20° $\mathring{\mu}$ 51'38	29.29600 AU	min. Earth dist.	-2474 Apr 20 j 12:05	8° $\mathring{\mu}$ 19'16	29.27526 AU
direct	-2482 Jun 22 j 04:25	19° $\mathring{\mu}$ 28'21		direct	-2474 Jul 10 j 00:55	6° $\mathring{\mu}$ 56'00	
conjunction	-2482 Oct 05 j 02:42	21° $\mathring{\mu}$ 58'09	2°06'06	conjunction	-2474 Oct 22 j 04:17	9° $\mathring{\mu}$ 25'02	2°00'58
minimum elong	-2482 Oct 05 j 02:42	21° $\mathring{\mu}$ 58'09	2°06'06	minimum elong	-2474 Oct 22 j 04:18	9° $\mathring{\mu}$ 25'02	2°00'57
max. Earth dist.	-2482 Oct 04 j 12:21	21° $\mathring{\mu}$ 56'47	31.29439 AU	max. Earth dist.	-2474 Oct 21 j 18:55	9° $\mathring{\mu}$ 24'09	31.27065 AU
retrograde	-2481 Jan 15 j 11:02	24° $\mathring{\mu}$ 25'23		retrograde	-2473 Feb 02 j 04:08	11° $\mathring{\mu}$ 53'10	
opposition	-2481 Apr 04 j 10:28	23° $\mathring{\mu}$ 03'16	2°14'43	opposition	-2473 Apr 22 j 16:00	10° $\mathring{\mu}$ 30'35	2°08'29
min. Earth dist.	-2481 Apr 05 j 00:10	23° $\mathring{\mu}$ 02'20	29.29589 AU	min. Earth dist.	-2473 Apr 23 j 00:53	10° $\mathring{\mu}$ 30'00	29.26884 AU
direct	-2481 Jun 24 j 17:02	21° $\mathring{\mu}$ 39'03		direct	-2473 Jul 12 j 12:21	9° $\mathring{\mu}$ 06'44	
conjunction	-2481 Oct 07 j 11:53	24° $\mathring{\mu}$ 08'47	2°06'05	conjunction	-2473 Oct 24 j 13:22	11° $\mathring{\mu}$ 35'39	1°59'32
minimum elong	-2481 Oct 07 j 11:53	24° $\mathring{\mu}$ 08'47	2°06'06	minimum elong	-2473 Oct 24 j 13:22	11° $\mathring{\mu}$ 35'39	1°59'32
max. Earth dist.	-2481 Oct 06 j 21:30	24° $\mathring{\mu}$ 07'25	31.29440 AU	max. Earth dist.	-2473 Oct 24 j 05:42	11° $\mathring{\mu}$ 34'55	31.26442 AU

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Attention, astronomical year style is used: The year -2472 in astronomical counting style is the year 2473 BCE in historical counting style.

retrograde	-2472 Feb 04 j 13:27	14° <u>♁</u> 03'51		min. Earth dist.	-2464 May 12 j 12:51	0° <u>♁</u> 09'25	29.22847 AU
opposition	-2472 Apr 24 j 04:45	12° <u>♁</u> 41'12	2°06'52		-2464 May 18 j 08:59	30° <u>R</u> <u>♁</u>	
min. Earth dist.	-2472 Apr 24 j 11:51	12° <u>♁</u> 40'43	29.26282 AU	direct	-2464 Jul 31 j 17:48	28° <u>♁</u> 46'11	
direct	-2472 Jul 14 j 01:29	11° <u>♁</u> 17'21			-2464 Oct 08 j 15:38	0° <u>♁</u>	
conjunction	-2472 Oct 25 j 22:14	13° <u>♁</u> 46'10	1°57'56	conjunction	-2464 Nov 11 j 23:24	1° <u>♁</u> 14'30	1°39'11
minimum elong	-2472 Oct 25 j 22:14	13° <u>♁</u> 46'10	1°57'55	minimum elong	-2464 Nov 11 j 23:25	1° <u>♁</u> 14'30	1°39'09
max. Earth dist.	-2472 Oct 25 j 14:45	13° <u>♁</u> 45'27	31.25885 AU	max. Earth dist.	-2464 Nov 11 j 23:57	1° <u>♁</u> 14'33	31.22381 AU
retrograde	-2471 Feb 06 j 00:32	16° <u>♁</u> 14'30		retrograde	-2463 Feb 23 j 21:35	3° <u>♁</u> 44'08	
opposition	-2471 Apr 26 j 17:33	14° <u>♁</u> 51'46	2°05'05	opposition	-2463 May 15 j 01:35	2° <u>♁</u> 21'06	1°44'22
min. Earth dist.	-2471 Apr 26 j 23:43	14° <u>♁</u> 51'21	29.25774 AU	min. Earth dist.	-2463 May 15 j 00:38	2° <u>♁</u> 21'10	29.22056 AU
direct	-2471 Jul 16 j 12:17	13° <u>♁</u> 27'58		direct	-2463 Aug 03 j 07:10	0° <u>♁</u> 57'52	
conjunction	-2471 Oct 28 j 07:18	15° <u>♁</u> 56'41	1°56'10	conjunction	-2463 Nov 14 j 08:37	3° <u>♁</u> 26'06	1°36'10
minimum elong	-2471 Oct 28 j 07:19	15° <u>♁</u> 56'41	1°56'09	minimum elong	-2463 Nov 14 j 08:38	3° <u>♁</u> 26'06	1°36'08
max. Earth dist.	-2471 Oct 28 j 01:59	15° <u>♁</u> 56'10	31.25423 AU	max. Earth dist.	-2463 Nov 14 j 08:49	3° <u>♁</u> 26'07	31.21530 AU
retrograde	-2470 Feb 08 j 10:13	18° <u>♁</u> 25'09		retrograde	-2462 Feb 26 j 09:41	5° <u>♁</u> 55'52	
opposition	-2470 Apr 29 j 06:18	17° <u>♁</u> 02'22	2°03'06	opposition	-2462 May 17 j 14:43	4° <u>♁</u> 32'44	1°41'03
min. Earth dist.	-2470 Apr 29 j 11:27	17° <u>♁</u> 02'01	29.25347 AU	min. Earth dist.	-2462 May 17 j 13:20	4° <u>♁</u> 32'50	29.21149 AU
direct	-2470 Jul 19 j 00:25	15° <u>♁</u> 38'38		direct	-2462 Aug 05 j 18:49	3° <u>♁</u> 09'31	
conjunction	-2470 Oct 30 j 16:14	18° <u>♁</u> 07'16	1°54'14	conjunction	-2462 Nov 16 j 18:00	5° <u>♁</u> 37'39	1°32'59
minimum elong	-2470 Oct 30 j 16:14	18° <u>♁</u> 07'16	1°54'12	minimum elong	-2462 Nov 16 j 18:01	5° <u>♁</u> 37'39	1°32'56
max. Earth dist.	-2470 Oct 30 j 11:03	18° <u>♁</u> 06'47	31.25053 AU	max. Earth dist.	-2462 Nov 16 j 20:06	5° <u>♁</u> 37'51	31.20585 AU
retrograde	-2469 Feb 10 j 22:10	20° <u>♁</u> 35'54		retrograde	-2461 Feb 28 j 19:58	8° <u>♁</u> 07'33	
opposition	-2469 May 01 j 19:12	19° <u>♁</u> 13'05	2°00'56	opposition	-2461 May 20 j 03:56	6° <u>♁</u> 44'19	1°37'36
min. Earth dist.	-2469 May 01 j 22:46	19° <u>♁</u> 12'51	29.25009 AU	min. Earth dist.	-2461 May 20 j 01:42	6° <u>♁</u> 44'28	29.20166 AU
direct	-2469 Jul 21 j 10:24	17° <u>♁</u> 49'26		direct	-2461 Aug 08 j 07:42	5° <u>♁</u> 21'07	
conjunction	-2469 Nov 02 j 01:15	20° <u>♁</u> 18'01	1°52'07	conjunction	-2461 Nov 19 j 03:06	7° <u>♁</u> 49'08	1°29'41
minimum elong	-2469 Nov 02 j 01:15	20° <u>♁</u> 18'01	1°52'07	minimum elong	-2461 Nov 19 j 03:07	7° <u>♁</u> 49'08	1°29'39
max. Earth dist.	-2469 Nov 01 j 22:04	20° <u>♁</u> 17'43	31.24736 AU	max. Earth dist.	-2461 Nov 19 j 05:17	7° <u>♁</u> 49'20	31.19607 AU
retrograde	-2468 Feb 13 j 08:51	22° <u>♁</u> 46'49		retrograde	-2460 Mar 02 j 07:18	10° <u>♁</u> 19'09	
opposition	-2468 May 03 j 08:14	21° <u>♁</u> 23'59	1°58'36	opposition	-2460 May 21 j 17:03	8° <u>♁</u> 55'49	1°34'00
min. Earth dist.	-2468 May 03 j 11:34	21° <u>♁</u> 23'46	29.24696 AU	min. Earth dist.	-2460 May 21 j 13:25	8° <u>♁</u> 56'04	29.19195 AU
direct	-2468 Jul 22 j 21:08	20° <u>♁</u> 00'26		direct	-2460 Aug 09 j 18:23	7° <u>♁</u> 32'36	
conjunction	-2468 Nov 03 j 10:19	22° <u>♁</u> 28'57	1°49'51	conjunction	-2460 Nov 20 j 12:28	10° <u>♁</u> 00'32	1°26'16
minimum elong	-2468 Nov 03 j 10:19	22° <u>♁</u> 28'57	1°49'49	minimum elong	-2460 Nov 20 j 12:28	10° <u>♁</u> 00'32	1°26'12
max. Earth dist.	-2468 Nov 03 j 07:23	22° <u>♁</u> 28'40	31.24436 AU	max. Earth dist.	-2460 Nov 20 j 16:30	10° <u>♁</u> 00'55	31.18651 AU
retrograde	-2467 Feb 14 j 21:33	24° <u>♁</u> 57'56		retrograde	-2459 Mar 04 j 17:11	12° <u>♁</u> 30'42	
opposition	-2467 May 05 j 21:00	23° <u>♁</u> 35'05	1°56'05	opposition	-2459 May 24 j 06:02	11° <u>♁</u> 07'16	1°30'16
min. Earth dist.	-2467 May 05 j 22:31	23° <u>♁</u> 34'58	29.24374 AU	min. Earth dist.	-2459 May 24 j 02:01	11° <u>♁</u> 07'32	29.18269 AU
direct	-2467 Jul 25 j 06:58	22° <u>♁</u> 11'36		direct	-2459 Aug 12 j 05:22	9° <u>♁</u> 44'04	
conjunction	-2467 Nov 05 j 19:31	24° <u>♁</u> 40'05	1°47'25	conjunction	-2459 Nov 22 j 21:43	12° <u>♁</u> 11'55	1°22'42
minimum elong	-2467 Nov 05 j 19:32	24° <u>♁</u> 40'05	1°47'24	minimum elong	-2459 Nov 22 j 21:44	12° <u>♁</u> 11'55	1°22'40
max. Earth dist.	-2467 Nov 05 j 17:40	24° <u>♁</u> 39'55	31.24082 AU	max. Earth dist.	-2459 Nov 23 j 02:19	12° <u>♁</u> 12'21	31.17781 AU
retrograde	-2466 Feb 17 j 09:25	27° <u>♁</u> 09'15		retrograde	-2458 Mar 07 j 05:46	14° <u>♁</u> 42'13	
opposition	-2466 May 08 j 10:11	25° <u>♁</u> 46'23	1°53'24	opposition	-2458 May 26 j 19:05	13° <u>♁</u> 18'43	1°26'24
min. Earth dist.	-2466 May 08 j 12:01	25° <u>♁</u> 46'15	29.23981 AU	min. Earth dist.	-2458 May 26 j 12:54	13° <u>♁</u> 19'08	29.17439 AU
direct	-2466 Jul 27 j 18:23	24° <u>♁</u> 23'00		direct	-2458 Aug 14 j 15:31	11° <u>♁</u> 55'33	
conjunction	-2466 Nov 08 j 04:41	26° <u>♁</u> 51'25	1°44'50	conjunction	-2458 Nov 25 j 06:56	14° <u>♁</u> 23'20	1°19'02
minimum elong	-2466 Nov 08 j 04:42	26° <u>♁</u> 51'25	1°44'47	minimum elong	-2458 Nov 25 j 06:56	14° <u>♁</u> 23'20	1°18'58
max. Earth dist.	-2466 Nov 08 j 03:42	26° <u>♁</u> 51'20	31.23649 AU	max. Earth dist.	-2458 Nov 25 j 12:50	14° <u>♁</u> 23'53	31.16994 AU
retrograde	-2465 Feb 19 j 22:40	29° <u>♁</u> 20'45			-2458 Dec 11 j 13:06	15° <u>♁</u>	
opposition	-2465 May 10 j 23:17	27° <u>♁</u> 57'51	1°50'33	retrograde	-2457 Mar 09 j 17:32	16° <u>♁</u> 53'48	
min. Earth dist.	-2465 May 10 j 23:24	27° <u>♁</u> 57'50	29.23479 AU	opposition	-2457 May 29 j 08:20	15° <u>♁</u> 30'14	1°22'24
direct	-2465 Jul 30 j 07:02	26° <u>♁</u> 34'32		min. Earth dist.	-2457 May 29 j 02:01	15° <u>♁</u> 30'40	29.16695 AU
conjunction	-2465 Nov 10 j 13:59	29° <u>♁</u> 02'55	1°42'05	direct	-2457 Jun 17 j 09:25	15° <u>R</u> <u>♁</u>	
minimum elong	-2465 Nov 10 j 14:00	29° <u>♁</u> 02'55	1°42'04		-2457 Aug 17 j 02:25	14° <u>♁</u> 07'07	
max. Earth dist.	-2465 Nov 10 j 13:12	29° <u>♁</u> 02'50	31.23081 AU		-2457 Oct 13 j 10:03	15° <u>♁</u>	
retrograde	-2465 Dec 06 j 07:29	0° <u>♁</u>		conjunction	-2457 Nov 27 j 16:21	16° <u>♁</u> 34'51	1°15'14
retrograde	-2464 Feb 22 j 11:03	1° <u>♁</u> 32'25		minimum elong	-2457 Nov 27 j 16:21	16° <u>♁</u> 34'51	1°15'12
opposition	-2464 May 12 j 12:29	0° <u>♁</u> 09'27	1°47'32	max. Earth dist.	-2457 Nov 27 j 23:36	16° <u>♁</u> 35'32	31.16301 AU

Attention, astronomical year style is used: The year -2456 in astronomical counting style is the year 2457 BCE in historical counting style.

retrograde	-2456 Mar 11 j 06:49	19°M.05'29		minimum elong	-2449 Dec 14 j 22:23	4°A.11'22	0°41'13
opposition	-2456 May 30 j 21:17	17°M.41'51	1°18'17	max. Earth dist.	-2449 Dec 15 j 11:02	4°A.12'33	31.09219 AU
min. Earth dist.	-2456 May 30 j 12:59	17°M.42'25	29.16020 AU	retrograde	-2448 Mar 29 j 08:09	6°A.43'15	
direct	-2456 Aug 18 j 13:43	16°M.18'47		opposition	-2448 Jun 18 j 06:47	5°A.19'04	0°41'37
				min. Earth dist.	-2448 Jun 17 j 18:00	5°A.19'57	29.08643 AU
conjunction	-2456 Nov 29 j 01:44	18°M.46'29	1°11'19	direct	-2448 Sep 05 j 08:56	3°A.56'10	
minimum elong	-2456 Nov 29 j 01:44	18°M.46'29	1°11'15				
max. Earth dist.	-2456 Nov 29 j 09:23	18°M.47'13	31.15645 AU	conjunction	-2448 Dec 16 j 08:21	6°A.23'32	0°36'41
retrograde	-2455 Mar 13 j 19:38	21°M.17'18		minimum elong	-2448 Dec 16 j 08:22	6°A.23'32	0°36'37
opposition	-2455 Jun 02 j 10:30	19°M.53'38	1°14'02	max. Earth dist.	-2448 Dec 16 j 22:17	6°A.24'51	31.08035 AU
min. Earth dist.	-2455 Jun 02 j 02:12	19°M.54'12	29.15372 AU	retrograde	-2447 Mar 31 j 21:04	8°A.55'33	
direct	-2455 Aug 20 j 23:35	18°M.30'37		opposition	-2447 Jun 20 j 19:42	7°A.31'17	0°36'41
				min. Earth dist.	-2447 Jun 20 j 04:59	7°A.32'17	29.07483 AU
conjunction	-2455 Dec 01 j 11:17	20°M.58'18	1°07'17	direct	-2447 Sep 07 j 20:05	6°A.08'21	
minimum elong	-2455 Dec 01 j 11:17	20°M.58'18	1°07'15				
max. Earth dist.	-2455 Dec 01 j 20:39	20°M.59'11	31.14996 AU	conjunction	-2447 Dec 18 j 18:11	8°A.35'42	0°32'03
retrograde	-2454 Mar 16 j 07:38	23°M.29'16		minimum elong	-2447 Dec 18 j 18:12	8°A.35'42	0°32'00
opposition	-2454 Jun 04 j 23:37	22°M.05'34	1°09'41	max. Earth dist.	-2447 Dec 19 j 08:28	8°A.37'03	31.06915 AU
min. Earth dist.	-2454 Jun 04 j 13:50	22°M.06'14	29.14695 AU	retrograde	-2446 Apr 03 j 09:50	11°A.07'52	
direct	-2454 Aug 23 j 12:46	20°M.42'37		opposition	-2446 Jun 23 j 08:47	9°A.43'31	0°31'42
				min. Earth dist.	-2446 Jun 22 j 18:00	9°A.44'31	29.06424 AU
conjunction	-2454 Dec 03 j 20:52	23°M.10'16	1°03'10	direct	-2446 Sep 10 j 05:40	8°A.20'35	
minimum elong	-2454 Dec 03 j 20:52	23°M.10'16	1°03'06				
max. Earth dist.	-2454 Dec 04 j 05:57	23°M.11'07	31.14301 AU	conjunction	-2446 Dec 21 j 04:19	10°A.47'55	0°27'22
retrograde	-2453 Mar 18 j 21:37	25°M.41'25		minimum elong	-2446 Dec 21 j 04:19	10°A.47'55	0°27'18
opposition	-2453 Jun 07 j 12:55	24°M.17'40	1°05'13	max. Earth dist.	-2446 Dec 21 j 20:30	10°A.49'27	31.05918 AU
min. Earth dist.	-2453 Jun 07 j 02:45	24°M.18'21	29.13967 AU	retrograde	-2445 Apr 05 j 22:38	13°A.20'13	
direct	-2453 Aug 25 j 23:58	22°M.54'45		opposition	-2445 Jun 25 j 21:40	11°A.55'49	0°26'40
				min. Earth dist.	-2445 Jun 25 j 05:11	11°A.56'56	29.05484 AU
conjunction	-2453 Dec 06 j 06:42	25°M.22'23	0°58'56	direct	-2445 Sep 12 j 18:34	10°A.32'54	
minimum elong	-2453 Dec 06 j 06:42	25°M.22'23	0°58'54				
max. Earth dist.	-2453 Dec 06 j 17:30	25°M.23'24	31.13520 AU	conjunction	-2445 Dec 23 j 14:20	13°A.00'15	0°22'39
retrograde	-2452 Mar 20 j 08:44	27°M.53'42		minimum elong	-2445 Dec 23 j 14:20	13°A.00'15	0°22'35
opposition	-2452 Jun 09 j 02:11	26°M.29'54	1°00'39	max. Earth dist.	-2445 Dec 24 j 06:24	13°A.01'46	31.05042 AU
min. Earth dist.	-2452 Jun 08 j 15:29	26°M.30'37	29.13118 AU	retrograde	-2444 Apr 07 j 13:35	15°A.32'43	
direct	-2452 Aug 27 j 12:38	25°M.07'01		opposition	-2444 Jun 27 j 10:40	14°A.08'15	0°21'35
				min. Earth dist.	-2444 Jun 26 j 17:37	14°A.09'25	29.04666 AU
conjunction	-2452 Dec 07 j 16:35	27°M.34'36	0°54'38	direct	-2444 Sep 14 j 05:30	12°A.45'22	
minimum elong	-2452 Dec 07 j 16:35	27°M.34'36	0°54'34				
max. Earth dist.	-2452 Dec 08 j 02:57	27°M.35'35	31.12616 AU	conjunction	-2444 Dec 25 j 00:39	15°A.12'44	0°17'53
retrograde	-2451 Mar 03 j 13:47	0°A.		minimum elong	-2444 Dec 25 j 00:39	15°A.12'44	0°17'48
opposition	-2451 Mar 22 j 21:13	0°A.06'04		max. Earth dist.	-2444 Dec 25 j 18:39	15°A.14'26	31.04266 AU
min. Earth dist.	-2451 Apr 11 j 10:12	30°R.M.		retrograde	-2443 Apr 10 j 00:56	17°A.45'21	
direct	-2451 Jun 11 j 15:17	28°M.42'12	0°56'01	opposition	-2443 Jun 29 j 23:29	16°A.20'52	0°16'28
	-2451 Jun 11 j 03:45	28°M.42'59	29.12145 AU	min. Earth dist.	-2443 Jun 29 j 05:39	16°A.22'05	29.03924 AU
conjunction	-2451 Dec 10 j 02:36	29°M.46'52	0°50'15	direct	-2443 Sep 16 j 17:26	14°A.58'02	
minimum elong	-2451 Dec 10 j 02:36	29°M.46'52	0°50'12				
max. Earth dist.	-2451 Dec 10 j 14:13	29°M.47'58	31.11572 AU	conjunction	-2443 Dec 27 j 10:55	17°A.25'24	0°13'05
retrograde	-2451 Dec 15 j 20:57	0°A.		minimum elong	-2443 Dec 27 j 10:55	17°A.25'24	0°13'02
opposition	-2450 Mar 25 j 07:51	2°A.18'30		behind sun begin	-2443 Dec 27 j 06:58	17°A.25'03	
min. Earth dist.	-2450 Jun 14 j 04:35	0°A.54'32	0°51'17	behind sun end	-2443 Dec 27 j 14:51	17°A.25'46	
direct	-2450 Jun 13 j 17:09	0°A.55'18	29.11035 AU	max. Earth dist.	-2443 Dec 28 j 04:51	17°A.27'06	31.03568 AU
	-2450 Jul 20 j 15:58	30°R.M.		retrograde	-2442 Apr 12 j 14:35	19°A.58'12	
conjunction	-2450 Dec 12 j 12:24	1°A.59'08	0°45'47	opposition	-2442 Jul 02 j 12:29	18°A.33'41	0°11'19
minimum elong	-2450 Dec 12 j 12:24	1°A.59'08	0°45'44	min. Earth dist.	-2442 Jul 01 j 17:38	18°A.34'59	29.03249 AU
max. Earth dist.	-2450 Dec 13 j 00:16	2°A.00'16	31.10429 AU	direct	-2442 Sep 19 j 04:28	17°A.10'54	
retrograde	-2449 Mar 27 j 20:46	4°A.30'54					
opposition	-2449 Jun 16 j 17:45	3°A.06'50	0°46'29	conjunction	-2442 Dec 29 j 21:19	19°A.38'18	0°08'17
min. Earth dist.	-2449 Jun 16 j 04:40	3°A.07'43	29.09849 AU	minimum elong	-2442 Dec 29 j 21:20	19°A.38'18	0°08'12
direct	-2449 Sep 03 j 22:09	1°A.43'56		behind sun begin	-2442 Dec 29 j 15:37	19°A.37'47	
				behind sun end	-2442 Dec 30 j 03:03	19°A.38'49	
conjunction	-2449 Dec 14 j 22:22	4°A.11'22	0°41'16	max. Earth dist.	-2442 Dec 30 j 16:41	19°A.40'07	31.02892 AU
				retrograde	-2441 Apr 15 j 02:29	22°A.11'15	
				min. Earth dist.	-2441 Jul 04 j 06:51	20°A.48'00	29.02569 AU
				opposition	-2441 Jul 05 j 01:33	20°A.46'43	0°06'09
				direct	-2441 Sep 21 j 16:14	19°A.23'58	

Attention, astronomical year style is used: The year -2440 in astronomical counting style is the year 2441 BCE in historical counting style.

conjunction	-2440 Jan 01 j 08:02	21° $\overline{2}$ 51'23	0°03'27	min. Earth dist.	-2434 Jul 19 j 21:43	6° $\overline{3}$ 21'19	28.96024 AU
minimum elong	-2440 Jan 01 j 08:01	21° $\overline{2}$ 51'23	0°03'24	direct	-2434 Oct 06 j 22:16	4° $\overline{3}$ 56'53	
behind sun begin	-2440 Jan 01 j 01:38	21° $\overline{2}$ 50'48					
behind sun end	-2440 Jan 01 j 14:24	21° $\overline{2}$ 51'58		conjunction	-2433 Jan 16 j 12:54	7° $\overline{3}$ 24'17	0°-30'-17
max. Earth dist.	-2440 Jan 02 j 03:29	21° $\overline{2}$ 53'14	31.02202 AU	minimum elong	-2433 Jan 16 j 12:54	7° $\overline{3}$ 24'17	0°30'22
retrograde	-2440 Apr 16 j 16:06	24° $\overline{2}$ 24'30		max. Earth dist.	-2433 Jan 17 j 11:15	7° $\overline{3}$ 26'24	30.95562 AU
opposition	-2440 Jul 06 j 14:20	22° $\overline{2}$ 59'56	0°00'58	retrograde	-2433 May 03 j 10:51	9° $\overline{3}$ 58'06	
min. Earth dist.	-2440 Jul 05 j 18:24	23° $\overline{2}$ 01'18	29.01848 AU	min. Earth dist.	-2433 Jul 22 j 09:29	8° $\overline{3}$ 34'34	28.95195 AU
desc. node	-2440 Sep 13 j 06:58	21° $\overline{2}$ 38'50		opposition	-2433 Jul 23 j 08:04	8° $\overline{3}$ 33'00	0°-34'-56
direct	-2440 Sep 23 j 03:13	21° $\overline{2}$ 37'12		direct	-2433 Oct 09 j 09:42	7° $\overline{3}$ 10'03	
conjunction	-2439 Jan 02 j 18:50	24° $\overline{2}$ 04'38	0°-1'-30	conjunction	-2432 Jan 19 j 00:15	9° $\overline{3}$ 37'30	0°-34'-59
minimum elong	-2439 Jan 02 j 18:50	24° $\overline{2}$ 04'38	0°01'35	minimum elong	-2432 Jan 19 j 00:15	9° $\overline{3}$ 37'30	0°35'03
behind sun begin	-2439 Jan 02 j 12:24	24° $\overline{2}$ 04'04		max. Earth dist.	-2432 Jan 19 j 23:53	9° $\overline{3}$ 39'44	30.94780 AU
behind sun end	-2439 Jan 03 j 01:16	24° $\overline{2}$ 05'13		retrograde	-2432 May 04 j 23:15	12° $\overline{3}$ 11'24	
max. Earth dist.	-2439 Jan 03 j 14:33	24° $\overline{2}$ 06'30	31.01427 AU	opposition	-2432 Jul 24 j 20:31	10° $\overline{3}$ 46'17	0°-39'-56
retrograde	-2439 Apr 19 j 03:14	26° $\overline{2}$ 37'54		min. Earth dist.	-2432 Jul 23 j 22:04	10° $\overline{3}$ 47'50	28.94481 AU
min. Earth dist.	-2439 Jul 08 j 08:11	25° $\overline{2}$ 14'37	29.01028 AU	direct	-2432 Oct 10 j 21:34	9° $\overline{3}$ 23'20	
opposition	-2439 Jul 09 j 03:25	25° $\overline{2}$ 13'18	0°-4'-12	conjunction	-2431 Jan 20 j 11:39	11° $\overline{3}$ 50'49	0°-39'-37
direct	-2439 Sep 25 j 13:40	23° $\overline{2}$ 50'34		minimum elong	-2431 Jan 20 j 11:39	11° $\overline{3}$ 50'49	0°39'42
conjunction	-2438 Jan 05 j 05:43	26° $\overline{2}$ 18'00	0°-6'-22	max. Earth dist.	-2431 Jan 21 j 11:28	11° $\overline{3}$ 53'04	30.94134 AU
minimum elong	-2438 Jan 05 j 05:42	26° $\overline{2}$ 18'00	0°06'26	retrograde	-2431 May 07 j 13:07	14° $\overline{3}$ 24'50	
behind sun begin	-2438 Jan 04 j 23:38	26° $\overline{2}$ 17'27		min. Earth dist.	-2431 Jul 26 j 09:10	13° $\overline{3}$ 01'21	28.93894 AU
behind sun end	-2438 Jan 05 j 11:46	26° $\overline{2}$ 18'33		opposition	-2431 Jul 27 j 09:01	12° $\overline{3}$ 59'43	0°-44'-52
max. Earth dist.	-2438 Jan 06 j 02:10	26° $\overline{2}$ 19'56	31.00557 AU	direct	-2431 Oct 13 j 08:42	11° $\overline{3}$ 36'46	
retrograde	-2438 Apr 21 j 16:05	28° $\overline{2}$ 51'22		conjunction	-2430 Jan 22 j 22:58	14° $\overline{3}$ 04'19	0°-44'-12
opposition	-2438 Jul 11 j 16:21	27° $\overline{2}$ 26'42	0°-9'-23	minimum elong	-2430 Jan 22 j 22:57	14° $\overline{3}$ 04'19	0°44'16
min. Earth dist.	-2438 Jul 10 j 19:48	27° $\overline{2}$ 28'07	29.00097 AU	max. Earth dist.	-2430 Jan 23 j 23:17	14° $\overline{3}$ 06'37	30.93584 AU
direct	-2438 Sep 28 j 00:44	26° $\overline{2}$ 03'57		retrograde	-2430 May 10 j 00:41	16° $\overline{3}$ 38'29	
conjunction	-2437 Jan 07 j 16:38	28° $\overline{2}$ 31'22	0°-11'-11	opposition	-2430 Jul 29 j 21:40	15° $\overline{3}$ 13'21	0°-49'-44
minimum elong	-2437 Jan 07 j 16:38	28° $\overline{2}$ 31'22	0°11'16	min. Earth dist.	-2430 Jul 28 j 22:24	15° $\overline{3}$ 14'57	28.93393 AU
behind sun begin	-2437 Jan 07 j 11:52	28° $\overline{2}$ 30'57		direct	-2430 Oct 15 j 18:57	13° $\overline{3}$ 50'26	
behind sun end	-2437 Jan 07 j 21:24	28° $\overline{2}$ 31'48		conjunction	-2429 Jan 25 j 10:42	16° $\overline{3}$ 18'03	0°-48'-44
max. Earth dist.	-2437 Jan 08 j 12:43	28° $\overline{2}$ 33'16	30.99574 AU	minimum elong	-2429 Jan 25 j 10:41	16° $\overline{3}$ 18'03	0°48'49
retrograde	-2437 Feb 18 j 05:34	0° $\overline{3}$		max. Earth dist.	-2429 Jan 26 j 11:52	16° $\overline{3}$ 20'26	30.93118 AU
retrograde	-2437 Apr 24 j 05:09	1° $\overline{3}$ 04'51		retrograde	-2429 May 12 j 14:16	18° $\overline{3}$ 52'20	
min. Earth dist.	-2437 Jul 02 j 00:08	30° $\overline{R}$		min. Earth dist.	-2429 Jul 31 j 09:38	17° $\overline{3}$ 28'54	28.92943 AU
opposition	-2437 Jul 13 j 09:28	29° $\overline{2}$ 41'27	28.99081 AU	opposition	-2429 Aug 01 j 10:04	17° $\overline{3}$ 27'13	0°-54'-33
opposition	-2437 Jul 14 j 05:20	29° $\overline{2}$ 40'05	0°-14'-33	direct	-2429 Oct 18 j 05:34	16° $\overline{3}$ 04'19	
direct	-2437 Sep 30 j 10:30	28° $\overline{2}$ 17'17		conjunction	-2428 Jan 27 j 22:30	18° $\overline{3}$ 32'02	0°-53'-11
direct	-2437 Dec 21 j 04:58	0° $\overline{3}$		minimum elong	-2428 Jan 27 j 22:29	18° $\overline{3}$ 32'02	0°53'16
conjunction	-2436 Jan 10 j 03:45	0° $\overline{3}$ 44'42	0°-16'00	max. Earth dist.	-2428 Jan 28 j 23:08	18° $\overline{3}$ 34'22	30.92663 AU
minimum elong	-2436 Jan 10 j 03:45	0° $\overline{3}$ 44'42	0°16'04	retrograde	-2428 May 14 j 03:30	21° $\overline{3}$ 06'27	
behind sun begin	-2436 Jan 10 j 03:10	0° $\overline{3}$ 44'39		opposition	-2428 Aug 02 j 22:40	19° $\overline{3}$ 41'20	0°-59'-16
behind sun end	-2436 Jan 10 j 04:20	0° $\overline{3}$ 44'45		min. Earth dist.	-2428 Aug 01 j 23:13	19° $\overline{3}$ 42'58	28.92488 AU
max. Earth dist.	-2436 Jan 11 j 01:09	0° $\overline{3}$ 46'43	30.98529 AU	direct	-2428 Oct 19 j 14:50	18° $\overline{3}$ 18'28	
retrograde	-2436 Apr 25 j 18:00	3° $\overline{3}$ 18'15		conjunction	-2427 Jan 29 j 10:34	20° $\overline{3}$ 46'16	0°-57'-34
opposition	-2436 Jul 15 j 18:05	1° $\overline{3}$ 53'24	0°-19'-42	minimum elong	-2427 Jan 29 j 10:34	20° $\overline{3}$ 46'16	0°57'39
min. Earth dist.	-2436 Jul 14 j 21:08	1° $\overline{3}$ 54'50	28.98016 AU	max. Earth dist.	-2427 Jan 30 j 12:11	20° $\overline{3}$ 48'41	30.92173 AU
direct	-2436 Oct 01 j 23:33	0° $\overline{3}$ 30'33		retrograde	-2427 May 16 j 16:35	23° $\overline{3}$ 20'47	
conjunction	-2435 Jan 11 j 14:42	2° $\overline{3}$ 57'57	0°-20'-47	min. Earth dist.	-2427 Aug 04 j 11:00	21° $\overline{3}$ 57'21	28.91959 AU
minimum elong	-2435 Jan 11 j 14:41	2° $\overline{3}$ 57'57	0°20'53	opposition	-2427 Aug 05 j 11:05	21° $\overline{3}$ 55'40	-1°-3'-54
max. Earth dist.	-2435 Jan 12 j 11:31	2° $\overline{3}$ 59'55	30.97466 AU	direct	-2427 Oct 22 j 03:11	20° $\overline{3}$ 32'48	
retrograde	-2435 Apr 28 j 08:26	5° $\overline{3}$ 31'35		conjunction	-2426 Jan 31 j 22:41	23° $\overline{3}$ 00'40	-1°-1'-52
min. Earth dist.	-2435 Jul 17 j 09:44	4° $\overline{3}$ 08'05	28.96982 AU	minimum elong	-2426 Jan 31 j 22:41	23° $\overline{3}$ 00'40	1°01'56
opposition	-2435 Jul 18 j 06:46	4° $\overline{3}$ 06'38	0°-24'-49	max. Earth dist.	-2426 Feb 01 j 23:03	23° $\overline{3}$ 02'58	30.91598 AU
direct	-2435 Oct 04 j 10:09	2° $\overline{3}$ 43'43		retrograde	-2426 May 19 j 07:24	25° $\overline{3}$ 35'17	
conjunction	-2434 Jan 14 j 01:52	5° $\overline{3}$ 11'08	0°-25'-33	opposition	-2426 Aug 07 j 23:42	24° $\overline{3}$ 10'10	-1°-8'-27
minimum elong	-2434 Jan 14 j 01:52	5° $\overline{3}$ 11'08	0°25'38	min. Earth dist.	-2426 Aug 07 j 00:11	24° $\overline{3}$ 11'47	28.91343 AU
max. Earth dist.	-2434 Jan 15 j 00:23	5° $\overline{3}$ 13'15	30.96459 AU	direct	-2426 Oct 24 j 13:16	22° $\overline{3}$ 47'15	
retrograde	-2434 Apr 30 j 20:13	7° $\overline{3}$ 44'50					
opposition	-2434 Jul 20 j 19:26	6° $\overline{3}$ 19'49	0°-29'-54				

Attention, astronomical year style is used: The year -2425 in astronomical counting style is the year 2426 BCE in historical counting style.

conjunction	-2425 Feb 03 j 11:01	25°☾15'12	-1°-6'-4	direct	-2418 Nov 11 j 10:36	10°☾42'09	
minimum elong	-2425 Feb 03 j 11:01	25°☾15'12	1°06'09				
max. Earth dist.	-2425 Feb 04 j 12:17	25°☾17'35	30.90916 AU	conjunction	-2417 Feb 21 j 15:14	13°☾10'30	-1°-35'-36
retrograde	-2425 May 21 j 20:01	27°☾49'52		minimum elong	-2417 Feb 21 j 15:13	13°☾10'30	1°35'40
opposition	-2425 Aug 10 j 12:10	26°☾24'42	-1°-12'-54	max. Earth dist.	-2417 Feb 22 j 16:01	13°☾12'50	30.85956 AU
min. Earth dist.	-2425 Aug 09 j 12:43	26°☾26'20	28.90606 AU		-2417 Apr 16 j 10:04	15°☾	
direct	-2425 Oct 27 j 01:15	25°☾01'46		retrograde	-2417 Jun 09 j 06:14	15°☾45'23	
					-2417 Aug 03 j 17:16	15°☾	
conjunction	-2424 Feb 05 j 23:23	27°☾29'45	-1°-10'-10	opposition	-2417 Aug 28 j 12:50	14°☾19'58	-1°-43'-56
minimum elong	-2424 Feb 05 j 23:22	27°☾29'45	1°10'14	min. Earth dist.	-2417 Aug 27 j 13:32	14°☾21'36	28.85965 AU
max. Earth dist.	-2424 Feb 06 j 23:35	27°☾32'02	30.90141 AU	direct	-2417 Nov 13 j 19:55	12°☾56'39	
	-2424 May 06 j 21:32	0°☾			-2416 Feb 13 j 00:35	15°☾	
retrograde	-2424 May 23 j 11:32	0°☾04'27					
	-2424 Jun 09 j 02:14	30°☾		conjunction	-2416 Feb 24 j 04:23	15°☾25'07	-1°-38'-42
min. Earth dist.	-2424 Aug 11 j 00:57	28°☾40'51	28.89804 AU	minimum elong	-2416 Feb 24 j 04:23	15°☾25'07	1°38'45
opposition	-2424 Aug 12 j 00:25	28°☾39'14	-1°-17'-14	max. Earth dist.	-2416 Feb 25 j 06:04	15°☾27'32	30.85750 AU
direct	-2424 Oct 28 j 13:28	27°☾16'13		retrograde	-2416 Jun 10 j 18:47	18°☾00'02	
				min. Earth dist.	-2416 Aug 29 j 01:27	16°☾36'15	28.85773 AU
conjunction	-2423 Feb 07 j 11:47	29°☾44'15	-1°-14'-10	opposition	-2416 Aug 30 j 00:33	16°☾34'38	-1°-47'-10
minimum elong	-2423 Feb 07 j 11:47	29°☾44'15	1°14'15	direct	-2416 Nov 15 j 07:30	15°☾11'19	
max. Earth dist.	-2423 Feb 08 j 12:41	29°☾46'36	30.89308 AU				
	-2423 Feb 14 j 10:55	0°☾		conjunction	-2415 Feb 25 j 17:29	17°☾39'53	-1°-41'-39
retrograde	-2423 May 26 j 00:18	2°☾18'58		minimum elong	-2415 Feb 25 j 17:29	17°☾39'53	1°41'43
opposition	-2423 Aug 14 j 12:43	0°☾53'41	-1°-21'-26	max. Earth dist.	-2415 Feb 26 j 17:54	17°☾42'11	30.85563 AU
min. Earth dist.	-2423 Aug 13 j 13:53	0°☾55'16	28.88976 AU	retrograde	-2415 Jun 13 j 10:00	20°☾14'50	
	-2423 Sep 18 j 09:05	30°☾		opposition	-2415 Sep 01 j 12:26	18°☾49'28	-1°-50'-14
direct	-2423 Oct 31 j 02:08	29°☾30'37		min. Earth dist.	-2415 Aug 31 j 13:34	18°☾51'04	28.85582 AU
	-2423 Dec 11 j 13:04	0°☾		direct	-2415 Nov 17 j 18:56	17°☾26'08	
conjunction	-2422 Feb 10 j 00:03	1°☾58'40	-1°-18'-3	conjunction	-2414 Feb 28 j 06:46	19°☾54'48	-1°-44'-27
minimum elong	-2422 Feb 10 j 00:03	1°☾58'40	1°18'07	minimum elong	-2414 Feb 28 j 06:46	19°☾54'48	1°44'29
max. Earth dist.	-2422 Feb 11 j 00:44	2°☾01'00	30.88500 AU	max. Earth dist.	-2414 Mar 01 j 07:30	19°☾57'07	30.85328 AU
retrograde	-2422 May 28 j 14:16	4°☾33'25		retrograde	-2414 Jun 15 j 22:47	22°☾29'46	
min. Earth dist.	-2422 Aug 16 j 01:08	3°☾09'43	28.88202 AU	min. Earth dist.	-2414 Sep 03 j 02:38	21°☾05'56	28.85312 AU
opposition	-2422 Aug 17 j 00:53	3°☾08'04	-1°-25'-32	opposition	-2414 Sep 04 j 00:22	21°☾04'24	-1°-53'-8
direct	-2422 Nov 02 j 14:08	1°☾44'56		direct	-2414 Nov 20 j 07:08	19°☾41'03	
conjunction	-2421 Feb 12 j 12:32	4°☾13'01	-1°-21'-49	conjunction	-2413 Mar 02 j 20:17	22°☾09'48	-1°-47'-5
minimum elong	-2421 Feb 12 j 12:32	4°☾13'01	1°21'53	minimum elong	-2413 Mar 02 j 20:17	22°☾09'48	1°47'08
max. Earth dist.	-2421 Feb 13 j 13:20	4°☾15'21	30.87750 AU	max. Earth dist.	-2413 Mar 03 j 19:54	22°☾12'02	30.85019 AU
retrograde	-2421 May 31 j 02:20	6°☾47'47		retrograde	-2413 Jun 18 j 13:45	24°☾44'46	
opposition	-2421 Aug 19 j 12:58	5°☾22'23	-1°-29'-30	opposition	-2413 Sep 06 j 12:03	23°☾19'24	-1°-55'-52
min. Earth dist.	-2421 Aug 18 j 14:06	5°☾23'59	28.87514 AU	min. Earth dist.	-2413 Sep 05 j 14:08	23°☾20'56	28.84959 AU
direct	-2421 Nov 05 j 01:18	3°☾59'12		direct	-2413 Nov 22 j 19:18	21°☾55'59	
conjunction	-2420 Feb 15 j 01:11	6°☾27'20	-1°-25'-28	conjunction	-2412 Mar 04 j 09:52	24°☾24'50	-1°-49'-33
minimum elong	-2420 Feb 15 j 01:11	6°☾27'20	1°25'31	minimum elong	-2412 Mar 04 j 09:51	24°☾24'50	1°49'36
max. Earth dist.	-2420 Feb 16 j 02:31	6°☾29'43	30.87120 AU	max. Earth dist.	-2412 Mar 05 j 08:50	24°☾26'59	30.84609 AU
retrograde	-2420 Jun 01 j 16:30	9°☾02'07		retrograde	-2412 Jun 20 j 02:49	26°☾59'46	
min. Earth dist.	-2420 Aug 20 j 00:55	7°☾38'22	28.86945 AU	opposition	-2412 Sep 07 j 23:53	25°☾34'23	-1°-58'-25
opposition	-2420 Aug 21 j 00:55	7°☾36'41	-1°-33'-19	min. Earth dist.	-2412 Sep 07 j 03:29	25°☾35'49	28.84518 AU
direct	-2420 Nov 06 j 13:02	6°☾13'27		direct	-2412 Nov 24 j 07:06	24°☾10'54	
conjunction	-2419 Feb 16 j 13:40	8°☾41'39	-1°-28'-59	conjunction	-2411 Mar 06 j 23:20	26°☾39'48	-1°-51'-51
minimum elong	-2419 Feb 16 j 13:40	8°☾41'39	1°29'03	minimum elong	-2411 Mar 06 j 23:20	26°☾39'48	1°51'55
max. Earth dist.	-2419 Feb 17 j 14:29	8°☾43'59	30.86602 AU	max. Earth dist.	-2411 Mar 07 j 22:07	26°☾41'57	30.84149 AU
retrograde	-2419 Jun 04 j 04:07	11°☾16'28		retrograde	-2411 Jun 22 j 17:13	29°☾14'42	
opposition	-2419 Aug 23 j 13:00	9°☾51'01	-1°-37'00	opposition	-2411 Sep 10 j 11:26	27°☾49'17	-2°00'-48
min. Earth dist.	-2419 Aug 22 j 13:51	9°☾52'39	28.86506 AU	min. Earth dist.	-2411 Sep 09 j 14:30	27°☾50'46	28.84045 AU
direct	-2419 Nov 08 j 22:49	8°☾27'45		direct	-2411 Nov 26 j 19:44	26°☾25'44	
conjunction	-2418 Feb 19 j 02:28	10°☾56'01	-1°-32'-22	conjunction	-2410 Mar 09 j 12:50	28°☾54'42	-1°-54'00
minimum elong	-2418 Feb 19 j 02:28	10°☾56'01	1°32'25	minimum elong	-2410 Mar 09 j 12:50	28°☾54'42	1°54'03
max. Earth dist.	-2418 Feb 20 j 04:22	10°☾58'28	30.86225 AU	max. Earth dist.	-2410 Mar 10 j 10:36	28°☾56'45	30.83676 AU
retrograde	-2418 Jun 06 j 16:17	13°☾30'52			-2410 Apr 08 j 09:55	0°☾	
min. Earth dist.	-2418 Aug 25 j 00:57	12°☾07'06	28.86187 AU	retrograde	-2410 Jun 25 j 04:44	1°☾29'33	
opposition	-2418 Aug 26 j 00:51	12°☾05'26	-1°-40'-33	opposition	-2410 Sep 12 j 23:00	0°☾04'07	-2°-2'-59

Attention, astronomical year style is used: The year -2410 in astronomical counting style is the year 2411 BCE in historical counting style.

min. Earth dist.	-2410 Sep 12 j 03:27	0° $\Upsilon$ 05'30	28.83605 AU	direct	-2402 Dec 17 j 02:51	16° $\Upsilon$ 39'16	
	-2410 Sep 15 j 09:26	30° $\Upsilon$ 38'38					
direct	-2410 Nov 29 j 06:07	28° $\Upsilon$ 40'30		conjunction	-2401 Mar 30 j 17:32	19° $\Upsilon$ 09'08	-2°-5'-6
	-2409 Feb 08 j 01:48	0° $\Upsilon$		minimum elong	-2401 Mar 30 j 17:32	19° $\Upsilon$ 09'08	2°05'07
				max. Earth dist.	-2401 Mar 31 j 10:55	19° $\Upsilon$ 10'45	30.83991 AU
conjunction	-2409 Mar 12 j 02:32	1° $\Upsilon$ 09'32	-1°-55'-57	retrograde	-2401 Jul 16 j 02:31	21° $\Upsilon$ 43'32	
minimum elong	-2409 Mar 12 j 02:32	1° $\Upsilon$ 09'32	1°56'01	opposition	-2401 Oct 03 j 04:07	20° $\Upsilon$ 18'24	-2°-13'-57
max. Earth dist.	-2409 Mar 13 j 00:52	1° $\Upsilon$ 11'38	30.83266 AU	min. Earth dist.	-2401 Oct 02 j 13:07	20° $\Upsilon$ 19'28	28.84253 AU
retrograde	-2409 Jun 27 j 16:52	3° $\Upsilon$ 44'19		direct	-2401 Dec 19 j 13:36	18° $\Upsilon$ 54'29	
opposition	-2409 Sep 15 j 10:21	2° $\Upsilon$ 18'52	-2°-5'00				
min. Earth dist.	-2409 Sep 14 j 14:25	2° $\Upsilon$ 20'17	28.83234 AU	conjunction	-2400 Apr 01 j 07:56	21° $\Upsilon$ 24'25	-2°-5'-24
direct	-2409 Dec 01 j 18:17	0° $\Upsilon$ 55'11		minimum elong	-2400 Apr 01 j 07:56	21° $\Upsilon$ 24'25	2°05'25
				max. Earth dist.	-2400 Apr 02 j 01:06	21° $\Upsilon$ 26'01	30.84171 AU
conjunction	-2408 Mar 13 j 16:05	3° $\Upsilon$ 24'17	-1°-57'-45	retrograde	-2400 Jul 17 j 15:49	23° $\Upsilon$ 58'42	
minimum elong	-2408 Mar 13 j 16:05	3° $\Upsilon$ 24'17	1°57'47	opposition	-2400 Oct 04 j 15:07	22° $\Upsilon$ 33'36	-2°-14'-10
max. Earth dist.	-2408 Mar 14 j 13:00	3° $\Upsilon$ 26'15	30.82945 AU	min. Earth dist.	-2400 Oct 04 j 00:19	22° $\Upsilon$ 34'39	28.84381 AU
retrograde	-2408 Jun 29 j 05:54	5° $\Upsilon$ 59'02		direct	-2400 Dec 21 j 02:30	21° $\Upsilon$ 09'37	
opposition	-2408 Sep 16 j 21:40	4° $\Upsilon$ 33'35	-2°-6'-49				
min. Earth dist.	-2408 Sep 16 j 02:29	4° $\Upsilon$ 34'57	28.82990 AU				
direct	-2408 Dec 03 j 03:29	3° $\Upsilon$ 09'50					
conjunction	-2407 Mar 16 j 05:48	5° $\Upsilon$ 39'02	-1°-59'-21				
minimum elong	-2407 Mar 16 j 05:48	5° $\Upsilon$ 39'02	1°59'23				
max. Earth dist.	-2407 Mar 17 j 03:34	5° $\Upsilon$ 41'04	30.82765 AU				
retrograde	-2407 Jul 01 j 17:22	8° $\Upsilon$ 13'44					
opposition	-2407 Sep 19 j 08:56	6° $\Upsilon$ 48'18	-2°-8'-26				
min. Earth dist.	-2407 Sep 18 j 13:47	6° $\Upsilon$ 49'39	28.82884 AU				
direct	-2407 Dec 05 j 15:08	5° $\Upsilon$ 24'30					
conjunction	-2406 Mar 18 j 19:20	7° $\Upsilon$ 53'47	-2°00'-47				
minimum elong	-2406 Mar 18 j 19:20	7° $\Upsilon$ 53'47	2°00'49				
max. Earth dist.	-2406 Mar 19 j 15:50	7° $\Upsilon$ 55'42	30.82742 AU				
retrograde	-2406 Jul 04 j 07:13	10° $\Upsilon$ 28'27					
opposition	-2406 Sep 21 j 20:14	9° $\Upsilon$ 03'03	-2°-9'-51				
min. Earth dist.	-2406 Sep 21 j 01:10	9° $\Upsilon$ 04'24	28.82941 AU				
direct	-2406 Dec 08 j 02:21	7° $\Upsilon$ 39'13					
conjunction	-2405 Mar 21 j 09:14	10° $\Upsilon$ 08'37	-2°-2'-1				
minimum elong	-2405 Mar 21 j 09:14	10° $\Upsilon$ 08'37	2°02'03				
max. Earth dist.	-2405 Mar 22 j 06:16	10° $\Upsilon$ 10'35	30.82861 AU				
retrograde	-2405 Jul 06 j 19:11	12° $\Upsilon$ 43'14					
opposition	-2405 Sep 24 j 07:23	11° $\Upsilon$ 17'53	-2°-11'-5				
min. Earth dist.	-2405 Sep 23 j 13:19	11° $\Upsilon$ 19'10	28.83122 AU				
direct	-2405 Dec 10 j 13:44	9° $\Upsilon$ 54'02					
conjunction	-2404 Mar 22 j 23:09	12° $\Upsilon$ 23'34	-2°-3'-4				
minimum elong	-2404 Mar 22 j 23:09	12° $\Upsilon$ 23'34	2°03'07				
max. Earth dist.	-2404 Mar 23 j 19:08	12° $\Upsilon$ 25'26	30.83106 AU				
retrograde	-2404 Jul 08 j 10:06	14° $\Upsilon$ 58'08					
opposition	-2404 Sep 25 j 18:32	13° $\Upsilon$ 32'51	-2°-12'-6				
min. Earth dist.	-2404 Sep 25 j 00:13	13° $\Upsilon$ 34'09	28.83409 AU				
direct	-2404 Dec 12 j 01:32	12° $\Upsilon$ 09'00					
conjunction	-2403 Mar 25 j 13:02	14° $\Upsilon$ 38'38	-2°-3'-56				
minimum elong	-2403 Mar 25 j 13:02	14° $\Upsilon$ 38'38	2°03'58				
max. Earth dist.	-2403 Mar 26 j 08:37	14° $\Upsilon$ 40'28	30.83409 AU				
retrograde	-2403 Jul 10 j 23:29	17° $\Upsilon$ 13'11					
opposition	-2403 Sep 28 j 05:49	15° $\Upsilon$ 47'57	-2°-12'-55				
min. Earth dist.	-2403 Sep 27 j 13:04	15° $\Upsilon$ 49'08	28.83729 AU				
direct	-2403 Dec 14 j 13:40	14° $\Upsilon$ 24'06					
conjunction	-2402 Mar 28 j 03:15	16° $\Upsilon$ 53'51	-2°-4'-37				
minimum elong	-2402 Mar 28 j 03:15	16° $\Upsilon$ 53'51	2°04'39				
max. Earth dist.	-2402 Mar 28 j 22:10	16° $\Upsilon$ 55'37	30.83732 AU				
retrograde	-2402 Jul 13 j 13:59	19° $\Upsilon$ 28'20					
opposition	-2402 Sep 30 j 16:52	18° $\Upsilon$ 03'10	-2°-13'-32				
min. Earth dist.	-2402 Sep 29 j 23:59	18° $\Upsilon$ 04'21	28.84028 AU				