

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -5900 in astronomical counting style is the year 5901 BCE in historical counting style.

evening set	-5900 Feb 16 j 17:16	23° ♁ 20'51		minimum elong	-5895 Aug 15 j 11:31	8° ♁ 05'41	1°26'29
				morning rise	-5895 Aug 28 j 00:09	10° ♁ 53'04	
conjunction	-5900 Mar 01 j 08:36	26° ♁ 30'48	-1°27'13	retrograde	-5895 Dec 27 j 17:19	28° ♁ 17'20	
minimum elong	-5900 Mar 01 j 08:37	26° ♁ 30'48	1°27'33	opposition	-5894 Feb 26 j 14:14	23° ♁ 25'48	2°09'49
max. Earth dist.	-5900 Mar 03 j 03:25	26° ♁ 55'42	6.08262 AU	min. Earth dist.	-5894 Feb 27 j 18:19	23° ♁ 16'52	4.32340 AU
morning rise	-5900 Mar 15 j 01:50	29° ♁ 41'35		direct	-5894 Apr 29 j 22:53	18° ♁ 26'56	
	-5900 Mar 16 j 09:50	0° ♁			-5894 Aug 03 j 19:45	0° ♁	
	-5900 May 30 j 15:14	15° ♁		evening set	-5894 Sep 03 j 00:54	6° ♁ 33'42	
retrograde	-5900 Jul 22 j 06:33	19° ♁ 11'30		max. Earth dist.	-5894 Sep 14 j 01:31	9° ♁ 03'30	6.28304 AU
	-5900 Sep 13 j 04:13	15° ♁					
opposition	-5900 Sep 19 j 16:05	14° ♁ 07'00	-2°00'31	conjunction	-5894 Sep 15 j 12:19	9° ♁ 23'17	1°24'33
min. Earth dist.	-5900 Sep 18 j 16:59	14° ♁ 14'54	4.12585 AU	minimum elong	-5894 Sep 15 j 12:21	9° ♁ 23'18	1°24'52
direct	-5900 Nov 17 j 10:06	9° ♁ 06'38		morning rise	-5894 Sep 27 j 22:40	12° ♁ 12'32	
	-5899 Jan 19 j 13:40	15° ♁			-5894 Oct 10 j 10:18	15° ♁	
evening set	-5899 Mar 24 j 06:24	28° ♁ 01'17			-5893 Jan 17 j 11:04	0° ♁	
	-5899 Apr 01 j 23:55	0° ♁		retrograde	-5893 Jan 30 j 06:08	0° ♁ 15'11	
					-5893 Feb 12 j 00:34	30° ♁	
conjunction	-5899 Apr 07 j 00:34	1° ♁ 08'32	-1°07'57	opposition	-5893 Apr 01 j 09:37	25° ♁ 22'12	1°48'54
minimum elong	-5899 Apr 07 j 00:38	1° ♁ 08'34	1°08'09	min. Earth dist.	-5893 Apr 02 j 07:26	25° ♁ 15'16	4.23766 AU
max. Earth dist.	-5899 Apr 08 j 06:24	1° ♁ 25'28	6.17352 AU	direct	-5893 Jun 01 j 22:12	20° ♁ 26'17	
morning rise	-5899 Apr 20 j 18:37	4° ♁ 15'32			-5893 Aug 25 j 07:56	0° ♁	
retrograde	-5899 Aug 24 j 12:05	22° ♁ 50'21		evening set	-5893 Oct 04 j 18:32	8° ♁ 47'56	
opposition	-5899 Oct 22 j 19:49	17° ♁ 48'48	-1°12'40	max. Earth dist.	-5893 Oct 16 j 10:19	11° ♁ 29'47	6.18784 AU
min. Earth dist.	-5899 Oct 22 j 07:31	17° ♁ 52'58	4.22369 AU				
direct	-5899 Dec 21 j 16:58	12° ♁ 45'51		conjunction	-5893 Oct 17 j 07:47	11° ♁ 42'15	0°57'08
	-5898 Apr 22 j 13:52	0° ♁		minimum elong	-5893 Oct 17 j 07:51	11° ♁ 42'17	0°57'17
evening set	-5898 Apr 28 j 12:21	1° ♁ 18'27		morning rise	-5893 Oct 29 j 22:05	14° ♁ 37'15	
					-5892 Jan 16 j 12:32	0° ♁	
conjunction	-5898 May 12 j 04:17	4° ♁ 20'45	-0°26'37	retrograde	-5892 Mar 05 j 09:55	3° ♁ 30'29	
minimum elong	-5898 May 12 j 04:19	4° ♁ 20'46	0°26'37		-5892 Apr 24 j 08:09	30° ♁	
max. Earth dist.	-5898 May 12 j 10:27	4° ♁ 24'11	6.27153 AU	opposition	-5892 May 05 j 14:08	28° ♁ 34'19	0°52'01
morning rise	-5898 May 25 j 18:15	7° ♁ 21'53		min. Earth dist.	-5892 May 05 j 20:56	28° ♁ 32'08	4.13895 AU
retrograde	-5898 Sep 25 j 09:16	25° ♁ 06'04		direct	-5892 Jul 04 j 19:45	23° ♁ 40'42	
opposition	-5898 Nov 23 j 20:28	20° ♁ 08'25	-0°04'01		-5892 Sep 08 j 12:30	0° ♁	
min. Earth dist.	-5898 Nov 24 j 00:02	20° ♁ 07'14	4.31284 AU	evening set	-5892 Nov 05 j 19:05	12° ♁ 21'41	
asc. node	-5898 Dec 15 j 23:00	17° ♁ 22'14					
direct	-5897 Jan 24 j 01:16	15° ♁ 04'26		conjunction	-5892 Nov 18 j 14:41	15° ♁ 22'44	0°10'10
	-5897 May 16 j 22:38	0° ♁		minimum elong	-5892 Nov 18 j 14:42	15° ♁ 22'44	0°10'06
evening set	-5897 Jun 01 j 04:08	3° ♁ 17'12		behind sun begin	-5892 Nov 18 j 08:11	15° ♁ 18'55	
				behind sun end	-5892 Nov 18 j 21:13	15° ♁ 26'34	
conjunction	-5897 Jun 14 j 13:02	6° ♁ 13'35	0°21'50	max. Earth dist.	-5892 Nov 18 j 17:07	15° ♁ 24'09	6.09543 AU
minimum elong	-5897 Jun 14 j 13:00	6° ♁ 13'34	0°22'01	morning rise	-5892 Dec 01 j 12:35	18° ♁ 25'11	
max. Earth dist.	-5897 Jun 13 j 21:01	6° ♁ 04'46	6.34545 AU		-5891 Jan 24 j 01:22	0° ♁	
morning rise	-5897 Jun 27 j 18:35	9° ♁ 08'16		desc. node	-5891 Feb 03 j 09:15	1° ♁ 51'18	
	-5897 Jul 25 j 08:15	15° ♁		retrograde	-5891 Apr 10 j 23:27	8° ♁ 07'11	
retrograde	-5897 Oct 26 j 10:42	26° ♁ 21'02		opposition	-5891 Jun 10 j 19:23	3° ♁ 07'04	-0°25'23
opposition	-5897 Dec 25 j 08:32	21° ♁ 26'53	1°03'40	min. Earth dist.	-5891 Jun 10 j 09:39	3° ♁ 10'16	4.06050 AU
min. Earth dist.	-5897 Dec 26 j 01:07	21° ♁ 21'29	4.36688 AU		-5891 Jul 06 j 14:35	30° ♁	
direct	-5896 Feb 25 j 11:51	16° ♁ 23'27		direct	-5891 Aug 08 j 19:19	28° ♁ 14'11	
	-5896 Jun 11 j 21:02	0° ♁			-5891 Sep 10 j 15:31	0° ♁	
evening set	-5896 Jul 02 j 11:00	4° ♁ 24'33			-5891 Dec 01 j 01:20	15° ♁	
max. Earth dist.	-5896 Jul 14 j 01:16	6° ♁ 57'30	6.37472 AU	evening set	-5891 Dec 10 j 13:57	17° ♁ 14'00	
conjunction	-5896 Jul 15 j 10:13	7° ♁ 15'41	1°03'01	conjunction	-5891 Dec 23 j 17:08	20° ♁ 20'54	-0°41'40
minimum elong	-5896 Jul 15 j 10:10	7° ♁ 15'39	1°03'21	minimum elong	-5891 Dec 23 j 17:05	20° ♁ 20'52	0°41'55
morning rise	-5896 Jul 28 j 06:07	10° ♁ 05'12		max. Earth dist.	-5891 Dec 24 j 17:58	20° ♁ 35'39	6.03795 AU
retrograde	-5896 Nov 25 j 16:19	27° ♁ 11'24		morning rise	-5890 Jan 05 j 23:51	23° ♁ 29'40	
opposition	-5895 Jan 25 j 01:23	22° ♁ 19'31	1°52'30		-5890 Feb 03 j 10:06	0° ♁	
min. Earth dist.	-5895 Jan 26 j 04:09	22° ♁ 10'56	4.37086 AU	retrograde	-5890 May 17 j 22:11	13° ♁ 39'40	
direct	-5895 Mar 28 j 16:24	17° ♁ 17'57		min. Earth dist.	-5890 Jul 16 j 05:46	8° ♁ 44'05	4.03093 AU
	-5895 Jul 09 j 06:53	0° ♁		opposition	-5890 Jul 17 j 05:45	8° ♁ 36'02	-1°35'20
evening set	-5895 Aug 02 j 20:33	5° ♁ 17'14		direct	-5890 Sep 13 j 09:22	3° ♁ 41'41	
max. Earth dist.	-5895 Aug 13 j 19:10	7° ♁ 43'11	6.35170 AU	evening set	-5889 Jan 15 j 22:03	22° ♁ 52'39	
conjunction	-5895 Aug 15 j 11:33	8° ♁ 05'42	1°26'07	conjunction	-5889 Jan 29 j 08:31	26° ♁ 02'35	-1°18'40

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 2

Attention, astronomical year style is used: The year -5889 in astronomical counting style is the year 5890 BCE in historical counting style.

minimum elong	-5889 Jan 29 j 08:28	26° X 02'33	1°19'01	retrograde	-5884 Nov 30 j 03:38	1° G 41'58	
max. Earth dist.	-5889 Jan 31 j 01:47	26° X 26'57	6.03763 AU		-5883 Jan 02 j 14:39	30° R II	
morning rise	-5889 Feb 11 j 21:59	29° X 14'03		opposition	-5883 Jan 29 j 14:49	26°II50'16	1°57'06
	-5889 Feb 15 j 04:45	0° Z		min. Earth dist.	-5883 Jan 30 j 17:17	26°II41'47	4.36559 AU
retrograde	-5889 Jun 23 j 05:54	19° Z 16'59		direct	-5883 Apr 02 j 04:18	21°II49'06	
opposition	-5889 Aug 21 j 23:36	14° Z 11'46	-2°09'29		-5883 Jun 20 j 15:37	0° G	
min. Earth dist.	-5889 Aug 20 j 20:23	14° Z 21'03	4.06125 AU	evening set	-5883 Aug 07 j 07:12	9° G 49'28	
direct	-5889 Oct 19 j 03:19	9° Z 14'21		max. Earth dist.	-5883 Aug 18 j 06:14	12° G 16'00	6.34385 AU
evening set	-5888 Feb 21 j 20:55	28° Z 22'19					
	-5888 Feb 28 j 22:02	0° \approx		conjunction	-5883 Aug 19 j 21:23	12° G 37'54	1°27'29
				minimum elong	-5883 Aug 19 j 21:21	12° G 37'53	1°27'50
conjunction	-5888 Mar 06 j 12:51	1° \approx 31'59	-1°26'18	morning rise	-5883 Sep 01 j 09:16	15° G 25'18	
minimum elong	-5888 Mar 06 j 12:52	1° \approx 32'00	1°26'38		-5883 Nov 18 j 06:22	0° Ω	
max. Earth dist.	-5888 Mar 08 j 06:49	1° \approx 56'18	6.09472 AU	retrograde	-5882 Jan 01 j 10:40	2° Ω 54'01	
morning rise	-5888 Mar 20 j 06:28	4° \approx 42'22			-5882 Feb 15 j 10:09	30° R G	
	-5888 May 07 j 00:09	15° \approx		opposition	-5882 Mar 03 j 07:53	28° G 02'28	2°09'12
retrograde	-5888 Jul 26 j 23:51	24° \approx 04'54		min. Earth dist.	-5882 Mar 04 j 11:51	27° G 53'34	4.31357 AU
min. Earth dist.	-5888 Sep 23 j 10:45	19° \approx 08'27	4.13930 AU	direct	-5882 May 04 j 15:08	23° G 04'05	
opposition	-5888 Sep 24 j 09:17	19° \approx 00'45	-1°55'53		-5882 Jul 15 j 04:09	0° Ω	
	-5888 Oct 28 j 18:24	15° R \approx		evening set	-5882 Sep 07 j 12:09	11° Ω 12'18	
direct	-5888 Nov 22 j 05:48	13° \approx 59'59					
	-5888 Dec 17 j 00:35	15° \approx		conjunction	-5882 Sep 19 j 23:25	14° Ω 02'17	1°22'10
	-5887 Mar 16 j 10:39	0° X		minimum elong	-5882 Sep 19 j 23:28	14° Ω 02'18	1°22'27
evening set	-5887 Mar 29 j 06:35	2° X 51'41		max. Earth dist.	-5882 Sep 18 j 13:31	13° Ω 42'58	6.27208 AU
					-5882 Sep 24 j 04:46	15° Ω	
conjunction	-5887 Apr 12 j 00:40	5° X 58'21	-1°03'10	morning rise	-5882 Oct 02 j 10:06	16° Ω 52'06	
minimum elong	-5887 Apr 12 j 00:45	5° X 58'23	1°03'20		-5882 Dec 06 j 21:24	0° R	
max. Earth dist.	-5887 Apr 13 j 02:11	6° X 12'48	6.18733 AU	retrograde	-5881 Feb 04 j 02:33	5° R 00'46	
morning rise	-5887 Apr 25 j 18:34	9° X 04'40		opposition	-5881 Apr 06 j 07:33	0° R 07'22	1°42'47
retrograde	-5887 Aug 29 j 01:42	27° X 32'03		min. Earth dist.	-5881 Apr 07 j 02:37	0° R 01'17	4.22626 AU
opposition	-5887 Oct 27 j 08:40	22° X 31'01	-1°03'47		-5881 Apr 07 j 06:40	30° R Ω	
min. Earth dist.	-5887 Oct 26 j 23:28	22° X 34'08	4.23644 AU	direct	-5881 Jun 06 j 15:41	25° Ω 11'52	
direct	-5887 Dec 26 j 11:11	17° X 27'50			-5881 Aug 03 j 05:50	0° R	
	-5886 Apr 05 j 13:05	0° Y		evening set	-5881 Oct 09 j 08:24	13° R 35'02	
evening set	-5886 May 03 j 07:33	5° Y 57'49					
				conjunction	-5881 Oct 21 j 22:23	16° R 30'05	0°51'25
conjunction	-5886 May 16 j 22:58	8° Y 59'26	-0°19'54	minimum elong	-5881 Oct 21 j 22:26	16° R 30'07	0°51'32
minimum elong	-5886 May 16 j 23:00	8° Y 59'27	0°19'52	max. Earth dist.	-5881 Oct 21 j 05:25	16° R 20'13	6.17718 AU
max. Earth dist.	-5886 May 17 j 02:39	9° Y 01'29	6.28241 AU	morning rise	-5881 Nov 03 j 13:20	19° R 25'53	
morning rise	-5886 May 30 j 11:55	11° Y 59'44			-5881 Dec 22 j 17:04	0° Ω	
retrograde	-5886 Sep 29 j 18:09	29° Y 38'49		retrograde	-5880 Mar 10 j 11:40	8° Ω 25'06	
asc. node	-5886 Oct 26 j 02:04	28° Y 31'35		opposition	-5880 May 10 j 15:10	3° Ω 28'27	0°41'49
opposition	-5886 Nov 28 j 06:58	24° Y 41'44	0°06'01	min. Earth dist.	-5880 May 10 j 20:21	3° Ω 26'46	4.12969 AU
min. Earth dist.	-5886 Nov 28 j 11:45	24° Y 40'09	4.32109 AU		-5880 Jun 09 j 15:33	30° R R	
direct	-5885 Jan 28 j 13:56	19° Y 37'47		direct	-5880 Jul 09 j 17:52	28° R 35'02	
	-5885 Apr 29 j 08:17	0° Z			-5880 Aug 08 j 12:36	0° Ω	
evening set	-5885 Jun 05 j 18:55	7° Z 49'08		evening set	-5880 Nov 10 j 13:25	17° Ω 17'25	
max. Earth dist.	-5885 Jun 18 j 06:40	10° Z 33'52	6.35042 AU				
				conjunction	-5880 Nov 23 j 09:49	20° Ω 19'09	0°02'48
conjunction	-5885 Jun 19 j 02:28	10° Z 44'47	0°28'22	minimum elong	-5880 Nov 23 j 09:49	20° Ω 19'09	0°02'42
minimum elong	-5885 Jun 19 j 02:26	10° Z 44'46	0°28'34	behind sun begin	-5880 Nov 23 j 01:44	20° Ω 14'24	
morning rise	-5885 Jul 02 j 06:50	13° Z 38'46		behind sun end	-5880 Nov 23 j 17:54	20° Ω 23'54	
	-5885 Jul 08 j 11:54	15° Z		max. Earth dist.	-5880 Nov 23 j 14:15	20° Ω 21'44	6.08834 AU
	-5885 Oct 07 j 23:58	0°II		morning rise	-5880 Dec 06 j 09:01	23° Ω 22'28	
retrograde	-5885 Oct 30 j 21:49	0°II49'57		desc. node	-5880 Dec 14 j 04:57	25° Ω 12'00	
	-5885 Nov 22 j 17:06	30° R Z			-5879 Jan 04 j 12:41	0° R	
opposition	-5885 Dec 29 j 19:35	25° Z 56'15	1°12'04	retrograde	-5879 Apr 16 j 01:10	13° R 08'29	
min. Earth dist.	-5885 Dec 30 j 14:43	25° Z 50'02	4.36840 AU	opposition	-5879 Jun 15 j 20:56	8° R 07'47	-0°36'16
direct	-5884 Mar 01 j 01:51	20° Z 53'03		min. Earth dist.	-5879 Jun 15 j 08:14	8° R 11'59	4.05631 AU
	-5884 May 24 j 18:58	0°II		direct	-5879 Aug 13 j 16:56	3° R 14'47	
evening set	-5884 Jul 06 j 22:41	8°II54'07			-5879 Nov 13 j 16:10	15° R	
max. Earth dist.	-5884 Jul 18 j 10:28	11°II25'53	6.37255 AU	evening set	-5879 Dec 15 j 12:44	22° R 15'36	
conjunction	-5884 Jul 19 j 20:44	11°II44'49	1°07'35	conjunction	-5879 Dec 28 j 17:01	25° R 22'59	-0°48'06
minimum elong	-5884 Jul 19 j 20:40	11°II44'47	1°07'55	minimum elong	-5879 Dec 28 j 16:57	25° R 22'57	0°48'22
morning rise	-5884 Aug 01 j 15:23	14°II33'55		max. Earth dist.	-5879 Dec 29 j 21:07	25° R 39'40	6.03689 AU
	-5884 Oct 27 j 22:38	0° G		morning rise	-5878 Jan 11 j 00:36	28° R 32'11	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 3

Attention, astronomical year style is used: The year -5878 in astronomical counting style is the year 5879 BCE in historical counting style.

	-5878 Jan 17 j 06:28	0°♌	opposition	-5872 Jan 03 j 06:44	0°♊25'53	1°20'02
retrograde	-5878 May 23 j 00:20	18°♌42'37	min. Earth dist.	-5872 Jan 04 j 02:09	0°♊19'35	4.37058 AU
min. Earth dist.	-5878 Jul 21 j 05:46	13°♌46'38 4.03316 AU		-5872 Jan 06 j 14:36	30°♋♌	
opposition	-5878 Jul 22 j 05:36	13°♌38'36 -1°42'39	direct	-5872 Mar 05 j 13:43	25°♋♌22'54	
direct	-5878 Sep 18 j 09:08	8°♌43'52		-5872 May 02 j 15:46	0°♊	
evening set	-5877 Jan 20 j 23:53	27°♌54'52	evening set	-5872 Jul 11 j 10:17	13°♊23'18	
	-5877 Jan 29 j 20:54	0°♌	max. Earth dist.	-5872 Jul 22 j 19:01	15°♊53'36	6.37186 AU
conjunction	-5877 Feb 03 j 11:09	1°♌04'54 -1°21'38	conjunction	-5872 Jul 24 j 06:54	16°♊13'27	1°11'45
minimum elong	-5877 Feb 03 j 11:06	1°♌04'53 1°21'59	minimum elong	-5872 Jul 24 j 06:50	16°♊13'25	1°12'05
max. Earth dist.	-5877 Feb 05 j 05:02	1°♌29'34 6.04274 AU	morning rise	-5872 Aug 06 j 00:27	19°♊02'05	
morning rise	-5877 Feb 17 j 01:24	4°♌16'24		-5872 Sep 29 j 14:01	0°♋	
retrograde	-5877 Jun 28 j 02:57	24°♌15'30	retrograde	-5872 Dec 04 j 16:29	6°♋11'20	
opposition	-5877 Aug 26 j 19:23	19°♌10'19 -2°10'25	opposition	-5871 Feb 03 j 04:20	1°♋19'43	2°00'59
min. Earth dist.	-5877 Aug 25 j 15:58	19°♌19'40 4.06898 AU	min. Earth dist.	-5871 Feb 04 j 08:13	1°♋10'48	4.36203 AU
direct	-5877 Oct 23 j 23:32	14°♌12'26		-5871 Feb 13 j 16:38	30°♋♌	
	-5876 Feb 12 j 08:11	0°♌	direct	-5871 Apr 06 j 19:13	26°♊18'51	
evening set	-5876 Feb 26 j 22:53	3°♌19'18		-5871 May 28 j 02:26	0°♋	
conjunction	-5876 Mar 11 j 15:17	6°♌28'47 -1°24'46	evening set	-5871 Aug 11 j 16:44	14°♋19'20	
minimum elong	-5876 Mar 11 j 15:20	6°♌28'48 1°25'05	max. Earth dist.	-5871 Aug 22 j 15:16	16°♋45'53	6.33733 AU
max. Earth dist.	-5876 Mar 13 j 06:09	6°♌51'14 6.10433 AU	conjunction	-5871 Aug 24 j 06:14	17°♋07'42	1°28'19
morning rise	-5876 Mar 25 j 09:18	9°♌38'51	minimum elong	-5871 Aug 24 j 06:13	17°♋07'42	1°28'41
	-5876 Apr 18 j 06:49	15°♌	morning rise	-5871 Sep 05 j 17:33	19°♋55'07	
retrograde	-5876 Jul 31 j 16:52	28°♌55'02		-5871 Oct 24 j 10:57	0°♌	
min. Earth dist.	-5876 Sep 28 j 04:37	23°♌58'07 4.14973 AU	retrograde	-5870 Jan 06 j 00:37	7°♌27'50	
opposition	-5876 Sep 29 j 00:52	23°♌51'12 -1°50'34	opposition	-5870 Mar 08 j 00:35	2°♌36'04	2°07'48
direct	-5876 Nov 27 j 01:35	18°♌49'58	min. Earth dist.	-5870 Mar 09 j 03:01	2°♌27'40	4.30441 AU
	-5875 Feb 26 j 18:59	0°♋		-5870 Mar 29 j 14:36	30°♋♌	
evening set	-5875 Apr 03 j 05:37	7°♋39'51	direct	-5870 May 09 j 04:41	27°♋38'04	
conjunction	-5875 Apr 16 j 23:54	10°♋46'07 -0°58'00		-5870 Jun 18 j 10:24	0°♌	
minimum elong	-5875 Apr 16 j 23:58	10°♋46'09 0°58'10	evening set	-5870 Sep 08 j 10:11	15°♌	
max. Earth dist.	-5875 Apr 17 j 23:46	10°♋59'36 6.19808 AU	max. Earth dist.	-5870 Sep 11 j 22:21	15°♌47'31	
morning rise	-5875 Apr 30 j 17:21	13°♋51'50		-5870 Sep 23 j 02:01	18°♌19'53	6.26096 AU
	-5875 Jul 27 j 02:34	0°♎	conjunction	-5870 Sep 24 j 09:39	18°♌37'57	1°19'17
retrograde	-5875 Sep 02 j 13:55	2°♎12'48	minimum elong	-5870 Sep 24 j 09:42	18°♌37'59	1°19'32
	-5875 Oct 09 j 20:17	30°♋♌	morning rise	-5870 Oct 06 j 20:31	21°♌28'21	
opposition	-5875 Oct 31 j 21:04	27°♋12'19 -0°54'35		-5870 Nov 15 j 09:46	0°♎	
min. Earth dist.	-5875 Oct 31 j 13:06	27°♋15'00 4.24655 AU	retrograde	-5869 Feb 08 j 23:51	9°♎43'10	
direct	-5875 Dec 31 j 02:13	22°♋08'57	opposition	-5869 Apr 11 j 04:25	4°♎49'25	1°36'02
	-5874 Mar 17 j 07:35	0°♎	min. Earth dist.	-5869 Apr 11 j 23:00	4°♎43'30	4.21358 AU
evening set	-5874 May 08 j 02:36	10°♎37'03		-5869 Jun 03 j 14:19	30°♋♌	
conjunction	-5874 May 21 j 17:04	13°♎37'58 -0°13'05	direct	-5869 Jun 11 j 10:15	29°♌54'15	
minimum elong	-5874 May 21 j 17:06	13°♎37'59 0°13'01	evening set	-5869 Jun 19 j 05:14	0°♎	
behind sun begin	-5874 May 21 j 12:15	13°♎35'18		-5869 Oct 13 j 21:50	18°♎19'42	
behind sun end	-5874 May 21 j 21:56	13°♎40'39	conjunction	-5869 Oct 26 j 12:29	21°♎15'37	0°45'23
max. Earth dist.	-5874 May 21 j 16:13	13°♎37'30 6.29121 AU	minimum elong	-5869 Oct 26 j 12:32	21°♎15'39	0°45'29
morning rise	-5874 Jun 04 j 05:13	16°♎37'32	max. Earth dist.	-5869 Oct 25 j 20:56	21°♎06'34	6.16411 AU
	-5874 Aug 12 j 06:29	0°♏	morning rise	-5869 Nov 08 j 04:33	24°♎12'27	
asc. node	-5874 Sep 05 j 00:48	2°♏50'57		-5869 Dec 03 j 21:03	0°♏	
retrograde	-5874 Oct 04 j 05:09	4°♏12'13	retrograde	-5868 Mar 15 j 11:57	13°♏18'41	
	-5874 Nov 27 j 03:19	30°♋♎	opposition	-5868 May 15 j 15:42	8°♏21'28	0°31'20
opposition	-5874 Dec 02 j 18:01	29°♎15'36 0°16'01	min. Earth dist.	-5868 May 15 j 17:49	8°♏20'48	4.11719 AU
min. Earth dist.	-5874 Dec 03 j 01:25	29°♎13'09 4.32804 AU	direct	-5868 Jul 14 j 13:00	3°♏28'14	
direct	-5873 Feb 02 j 05:18	24°♎11'38	desc. node	-5868 Oct 23 j 15:23	17°♏00'40	
	-5873 Apr 08 j 12:32	0°♏	evening set	-5868 Nov 15 j 08:18	22°♏13'35	
evening set	-5873 Jun 10 j 09:45	12°♏21'38				
	-5873 Jun 22 j 10:06	15°♏	conjunction	-5868 Nov 28 j 05:52	25°♏16'17	-0°04'46
conjunction	-5873 Jun 23 j 16:12	15°♏16'35 0°34'44	minimum elong	-5868 Nov 28 j 05:51	25°♏16'16	0°04'53
minimum elong	-5873 Jun 23 j 16:09	15°♏16'33 0°34'57	behind sun begin	-5868 Nov 27 j 21:57	25°♏11'37	
max. Earth dist.	-5873 Jun 22 j 19:29	15°♏05'10 6.35502 AU	behind sun end	-5868 Nov 28 j 13:45	25°♏20'55	
morning rise	-5873 Jul 06 j 19:02	18°♏09'47	max. Earth dist.	-5868 Nov 28 j 14:05	25°♏21'07	6.07757 AU
	-5873 Sep 04 j 18:53	0°♊	morning rise	-5868 Dec 11 j 06:10	28°♏20'35	
retrograde	-5873 Nov 04 j 06:15	5°♊19'15		-5868 Dec 18 j 08:26	0°♎	
				-5867 Mar 05 j 22:34	15°♎	

Attention, astronomical year style is used: The year -5867 in astronomical counting style is the year 5868 BCE in historical counting style.

retrograde	-5867 Apr 21 j 07:05	18° \mathbb{M} 12'15	opposition	-5862 Dec 07 j 05:17	3° \mathbb{S} 50'13	0°25'49
	-5867 Jun 06 j 22:02	15° \mathbb{R} \mathbb{M}	min. Earth dist.	-5862 Dec 07 j 13:44	3° \mathbb{S} 47'26	4.34185 AU
opposition	-5867 Jun 20 j 23:39	13° \mathbb{M} 11'03 -0°47'00		-5861 Jan 09 j 11:42	30° \mathbb{R} \mathbb{Y}	
min. Earth dist.	-5867 Jun 20 j 10:03	13° \mathbb{M} 15'33 4.04822 AU	direct	-5861 Feb 06 j 20:02	28° \mathbb{Y} 46'22	
direct	-5867 Aug 18 j 17:01	8° \mathbb{M} 17'54		-5861 Mar 07 j 13:25	0° \mathbb{S}	
	-5867 Oct 24 j 06:54	15° \mathbb{M}		-5861 Jun 06 j 07:51	15° \mathbb{S}	
evening set	-5867 Dec 20 j 13:57	27° \mathbb{M} 21'30	evening set	-5861 Jun 14 j 23:23	16° \mathbb{S} 52'27	
	-5867 Dec 31 j 17:29	0° \mathbb{S}	max. Earth dist.	-5861 Jun 27 j 03:58	19° \mathbb{S} 32'58	6.36640 AU
conjunction	-5866 Jan 02 j 19:18	0° \mathbb{S} 29'34 -0°54'16	conjunction	-5861 Jun 28 j 04:12	19° \mathbb{S} 46'18	0°40'46
minimum elong	-5866 Jan 02 j 19:14	0° \mathbb{S} 29'31 0°54'34	minimum elong	-5861 Jun 28 j 04:09	19° \mathbb{S} 46'17	0°41'02
max. Earth dist.	-5866 Jan 04 j 01:45	0° \mathbb{S} 47'38 6.03208 AU	morning rise	-5861 Jul 11 j 05:45	22° \mathbb{S} 38'28	
morning rise	-5866 Jan 16 j 04:03	3° \mathbb{S} 39'27		-5861 Aug 15 j 08:44	0° \mathbb{II}	
retrograde	-5866 May 28 j 04:03	23° \mathbb{S} 51'23	retrograde	-5861 Nov 08 j 14:22	9° \mathbb{II} 44'23	
min. Earth dist.	-5866 Jul 26 j 06:04	18° \mathbb{S} 55'41 4.03248 AU	opposition	-5860 Jan 07 j 16:36	4° \mathbb{II} 51'19	1°27'17
opposition	-5866 Jul 27 j 07:23	18° \mathbb{S} 47'09 -1°49'21	min. Earth dist.	-5860 Jan 08 j 14:11	4° \mathbb{II} 44'20	4.37885 AU
direct	-5866 Sep 23 j 08:32	13° \mathbb{S} 52'05		-5860 Feb 27 j 21:59	30° \mathbb{R} \mathbb{S}	
	-5865 Jan 12 j 22:41	0° \mathbb{S}	direct	-5860 Mar 10 j 03:17	29° \mathbb{S} 48'32	
evening set	-5865 Jan 26 j 05:21	3° \mathbb{S} 04'29		-5860 Mar 21 j 09:31	0° \mathbb{II}	
conjunction	-5865 Feb 08 j 17:28	6° \mathbb{S} 14'45 -1°24'03	evening set	-5860 Jul 15 j 18:28	17° \mathbb{II} 46'07	
minimum elong	-5865 Feb 08 j 17:26	6° \mathbb{S} 14'43 1°24'24	max. Earth dist.	-5860 Jul 27 j 01:50	20° \mathbb{II} 15'36	6.37618 AU
max. Earth dist.	-5865 Feb 10 j 11:03	6° \mathbb{S} 39'12 6.04599 AU	conjunction	-5860 Jul 28 j 13:55	20° \mathbb{II} 35'33	1°15'21
morning rise	-5865 Feb 22 j 08:32	9° \mathbb{S} 26'25	minimum elong	-5860 Jul 28 j 13:52	20° \mathbb{II} 35'31	1°15'41
retrograde	-5865 Jul 03 j 03:53	29° \mathbb{S} 22'10	morning rise	-5860 Aug 10 j 06:06	23° \mathbb{II} 23'29	
opposition	-5865 Aug 31 j 18:15	24° \mathbb{S} 17'03 -2°10'25		-5860 Sep 10 j 10:07	0° \mathbb{S}	
min. Earth dist.	-5865 Aug 30 j 15:31	24° \mathbb{S} 26'11 4.07584 AU	retrograde	-5860 Dec 08 j 22:47	10° \mathbb{S} 32'39	
direct	-5865 Oct 29 j 00:51	19° \mathbb{S} 18'42	opposition	-5859 Feb 07 j 14:18	5° \mathbb{S} 41'07	2°03'57
	-5864 Jan 24 j 21:38	0° \mathbb{S}	min. Earth dist.	-5859 Feb 08 j 18:07	5° \mathbb{S} 32'15	4.36220 AU
evening set	-5864 Mar 03 j 04:19	8° \mathbb{S} 24'45	direct	-5859 Apr 11 j 04:49	0° \mathbb{S} 40'35	
conjunction	-5864 Mar 16 j 21:27	11° \mathbb{S} 34'05 -1°22'35	evening set	-5859 Aug 15 j 22:18	18° \mathbb{S} 40'06	
minimum elong	-5864 Mar 16 j 21:30	11° \mathbb{S} 34'07 1°22'52	max. Earth dist.	-5859 Aug 26 j 19:03	21° \mathbb{S} 05'54	6.33315 AU
max. Earth dist.	-5864 Mar 18 j 12:44	11° \mathbb{S} 56'44 6.11454 AU	conjunction	-5859 Aug 28 j 10:58	21° \mathbb{S} 28'18	1°28'35
morning rise	-5864 Mar 30 j 15:36	14° \mathbb{S} 43'48	minimum elong	-5859 Aug 28 j 10:58	21° \mathbb{S} 28'18	1°28'56
	-5864 Mar 31 j 19:59	15° \mathbb{S}	morning rise	-5859 Sep 09 j 21:53	24° \mathbb{S} 15'42	
	-5864 Jun 16 j 01:03	0° \mathbb{H}		-5859 Oct 06 j 08:52	0° \mathbb{Q}	
retrograde	-5864 Aug 05 j 12:47	3° \mathbb{H} 53'05	retrograde	-5858 Jan 10 j 12:50	11° \mathbb{Q} 51'58	
	-5864 Sep 25 j 03:28	30° \mathbb{R} \mathbb{S}	opposition	-5858 Mar 12 j 13:17	7° \mathbb{Q} 00'03	2°05'40
opposition	-5864 Oct 03 j 19:36	28° \mathbb{S} 49'43 -1°44'19	min. Earth dist.	-5858 Mar 13 j 16:46	6° \mathbb{Q} 51'19	4.29590 AU
min. Earth dist.	-5864 Oct 03 j 00:12	28° \mathbb{S} 56'20 4.16239 AU	direct	-5858 May 13 j 16:48	2° \mathbb{Q} 02'20	
direct	-5864 Dec 01 j 23:05	23° \mathbb{S} 48'14		-5858 Aug 23 j 14:27	15° \mathbb{Q}	
	-5863 Feb 05 j 11:35	0° \mathbb{H}	evening set	-5858 Sep 16 j 04:09	20° \mathbb{Q} 13'01	
evening set	-5863 Apr 08 j 07:45	12° \mathbb{H} 35'18	max. Earth dist.	-5858 Sep 27 j 08:22	22° \mathbb{Q} 46'06	6.24881 AU
conjunction	-5863 Apr 22 j 01:40	15° \mathbb{H} 40'53 -0°52'21	conjunction	-5858 Sep 28 j 15:41	23° \mathbb{Q} 04'02	1°16'02
minimum elong	-5863 Apr 22 j 01:44	15° \mathbb{H} 40'55 0°52'28	minimum elong	-5858 Sep 28 j 15:45	23° \mathbb{Q} 04'03	1°16'16
max. Earth dist.	-5863 Apr 22 j 21:53	15° \mathbb{H} 52'17 6.21253 AU	morning rise	-5858 Oct 11 j 02:58	25° \mathbb{Q} 55'06	
morning rise	-5863 May 05 j 18:49	18° \mathbb{H} 45'49		-5858 Oct 29 j 08:30	0° \mathbb{H}	
	-5863 Jun 29 j 08:08	0° \mathbb{Y}	retrograde	-5857 Feb 13 j 15:24	14° \mathbb{H} 16'44	
retrograde	-5863 Sep 07 j 03:34	6° \mathbb{Y} 58'59	opposition	-5857 Apr 15 j 21:19	9° \mathbb{H} 22'35	1°28'57
opposition	-5863 Nov 05 j 11:36	1° \mathbb{Y} 59'02 -0°44'53	min. Earth dist.	-5857 Apr 16 j 13:55	9° \mathbb{H} 17'17	4.19854 AU
min. Earth dist.	-5863 Nov 05 j 05:25	2° \mathbb{Y} 01'07 4.26166 AU	direct	-5857 Jun 15 j 22:01	4° \mathbb{H} 27'40	
	-5863 Nov 20 j 16:02	30° \mathbb{R} \mathbb{H}	evening set	-5857 Oct 18 j 08:00	22° \mathbb{H} 56'34	
direct	-5862 Jan 04 j 21:33	26° \mathbb{H} 55'31	conjunction	-5857 Oct 30 j 23:27	25° \mathbb{H} 53'33	0°39'17
	-5862 Feb 19 j 13:10	0° \mathbb{Y}	minimum elong	-5857 Oct 30 j 23:31	25° \mathbb{H} 53'35	0°39'20
evening set	-5862 May 12 j 22:40	15° \mathbb{Y} 19'44	max. Earth dist.	-5857 Oct 30 j 10:11	25° \mathbb{H} 45'47	6.14759 AU
conjunction	-5862 May 26 j 12:18	18° \mathbb{Y} 19'40 -0°06'10	morning rise	-5857 Nov 12 j 16:31	28° \mathbb{H} 51'33	
minimum elong	-5862 May 26 j 12:19	18° \mathbb{Y} 19'40 0°06'05		-5857 Nov 17 j 14:50	0° \mathbb{S}	
behind sun begin	-5862 May 26 j 04:30	18° \mathbb{Y} 15'21	retrograde	-5856 Mar 20 j 12:38	18° \mathbb{S} 06'21	
behind sun end	-5862 May 26 j 20:08	18° \mathbb{Y} 23'59	opposition	-5856 May 20 j 13:38	13° \mathbb{S} 08'37	0°20'56
max. Earth dist.	-5862 May 26 j 10:23	18° \mathbb{Y} 18'37 6.30625 AU	min. Earth dist.	-5856 May 20 j 14:50	13° \mathbb{S} 08'14	4.10036 AU
morning rise	-5862 Jun 08 j 23:05	21° \mathbb{Y} 18'05	direct	-5856 Jul 19 j 07:07	8° \mathbb{S} 15'27	
asc. node	-5862 Jul 15 j 12:28	28° \mathbb{Y} 59'37	desc. node	-5856 Sep 03 j 19:56	11° \mathbb{S} 38'23	
	-5862 Jul 20 j 17:39	0° \mathbb{S}	evening set	-5856 Nov 20 j 01:49	27° \mathbb{S} 05'41	
retrograde	-5862 Oct 08 j 13:58	8° \mathbb{S} 46'18		-5856 Dec 02 j 08:24	0° \mathbb{M}	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 5

Attention, astronomical year style is used: The year -5856 in astronomical counting style is the year 5857 BCE in historical counting style.

conjunction	-5856 Dec 03 j 00:34	0°♌09'34	-0°11'57	minimum elong	-5850 May 31 j 06:07	22°♊58'26	0°01'01
minimum elong	-5856 Dec 03 j 00:33	0°♌09'34	0°12'06	behind sun begin	-5850 May 30 j 21:52	22°♊53'54	
behind sun begin	-5856 Dec 02 j 18:58	0°♌06'16		behind sun end	-5850 May 31 j 14:22	23°♊02'58	
behind sun end	-5856 Dec 03 j 06:07	0°♌12'51		max. Earth dist.	-5850 May 31 j 00:01	22°♊55'06	6.31902 AU
max. Earth dist.	-5856 Dec 03 j 11:29	0°♌16'02	6.06213 AU	morning rise	-5850 Jun 13 j 15:47	25°♊55'52	
morning rise	-5856 Dec 16 j 02:15	3°♌15'09			-5850 Jul 02 j 12:18	0°♋	
	-5855 Feb 08 j 03:05	15°♌		retrograde	-5850 Oct 12 j 23:17	13°♋18'53	
retrograde	-5855 Apr 26 j 10:22	23°♌14'01		opposition	-5850 Dec 11 j 16:35	8°♋23'15	0°35'32
min. Earth dist.	-5855 Jun 25 j 08:55	18°♌17'41	4.03600 AU	min. Earth dist.	-5850 Dec 12 j 03:13	8°♋19'45	4.35163 AU
opposition	-5855 Jun 26 j 01:02	18°♌12'20	-0°57'13	direct	-5849 Feb 11 j 11:11	3°♋19'26	
	-5855 Jul 22 j 11:19	15°♋♌			-5849 May 20 j 05:47	15°♋	
direct	-5855 Aug 23 j 13:31	13°♌19'05		evening set	-5849 Jun 19 j 12:59	21°♋23'12	
	-5855 Sep 24 j 11:12	15°♌					
	-5855 Dec 15 j 04:21	0°♋		conjunction	-5849 Jul 02 j 16:31	24°♋16'15	0°46'40
evening set	-5855 Dec 25 j 15:28	2°♋27'10		minimum elong	-5849 Jul 02 j 16:27	24°♋16'14	0°46'56
				max. Earth dist.	-5849 Jul 01 j 15:02	24°♋02'15	6.37236 AU
conjunction	-5854 Jan 07 j 21:54	5°♋36'04	-0°59'55	morning rise	-5849 Jul 15 j 16:29	27°♋07'34	
minimum elong	-5854 Jan 07 j 21:50	5°♋36'01	1°00'15		-5849 Jul 28 j 23:30	0°♌	
max. Earth dist.	-5854 Jan 09 j 06:20	5°♋55'20	6.02402 AU	retrograde	-5849 Nov 12 j 23:05	14°♌12'03	
morning rise	-5854 Jan 21 j 07:50	8°♋46'47		opposition	-5848 Jan 12 j 03:45	9°♌19'21	1°34'15
retrograde	-5854 Jun 02 j 08:33	29°♋01'15		min. Earth dist.	-5848 Jan 13 j 02:30	9°♌12'02	4.38074 AU
min. Earth dist.	-5854 Jul 31 j 07:04	24°♋05'37	4.02959 AU	direct	-5848 Mar 14 j 16:03	4°♌16'53	
opposition	-5854 Aug 01 j 09:31	23°♋56'39	-1°55'08	evening set	-5848 Jul 20 j 04:48	22°♌13'57	
direct	-5854 Sep 28 j 10:19	19°♋01'09		max. Earth dist.	-5848 Jul 31 j 08:04	24°♌41'27	6.37359 AU
	-5854 Dec 25 j 16:20	0°♎					
evening set	-5853 Jan 31 j 11:37	8°♎15'27		conjunction	-5848 Aug 01 j 22:55	25°♌02'58	1°18'39
				minimum elong	-5848 Aug 01 j 22:52	25°♌02'56	1°19'01
conjunction	-5853 Feb 14 j 00:49	11°♎26'01	-1°25'45	morning rise	-5848 Aug 14 j 14:14	27°♌50'36	
minimum elong	-5853 Feb 14 j 00:48	11°♎26'01	1°26'07		-5848 Aug 24 j 11:05	0°♏	
max. Earth dist.	-5853 Feb 15 j 21:22	11°♎52'10	6.04851 AU	retrograde	-5848 Dec 13 j 11:56	15°♏02'15	
morning rise	-5853 Feb 27 j 16:29	14°♎37'49		opposition	-5847 Feb 12 j 04:18	10°♏10'47	2°06'28
	-5853 May 14 j 11:50	0°♏		min. Earth dist.	-5847 Feb 13 j 09:20	10°♏01'32	4.35542 AU
retrograde	-5853 Jul 08 j 05:36	4°♏29'46		direct	-5847 Apr 15 j 18:55	5°♏10'37	
	-5853 Sep 01 j 09:55	30°♋♎		evening set	-5847 Aug 20 j 07:38	23°♏11'24	
opposition	-5853 Sep 05 j 17:33	29°♎24'40	-2°09'20	max. Earth dist.	-5847 Aug 31 j 05:10	25°♏38'00	6.32267 AU
min. Earth dist.	-5853 Sep 04 j 14:54	29°♎33'46	4.08348 AU				
direct	-5853 Nov 03 j 01:42	24°♎25'50		conjunction	-5847 Sep 01 j 19:58	25°♏59'49	1°28'24
	-5852 Jan 02 j 18:31	0°♏		minimum elong	-5847 Sep 01 j 19:58	25°♏59'50	1°28'44
evening set	-5852 Mar 08 j 10:30	13°♏30'20		morning rise	-5847 Sep 14 j 06:27	28°♏47'31	
	-5852 Mar 14 j 23:02	15°♏			-5847 Sep 19 j 16:34	0°♐	
					-5847 Dec 14 j 21:45	15°♐	
conjunction	-5852 Mar 22 j 03:53	16°♏39'18	-1°19'44	retrograde	-5846 Jan 15 j 05:17	16°♐29'36	
minimum elong	-5852 Mar 22 j 03:57	16°♏39'20	1°20'00		-5846 Feb 15 j 19:23	15°♋♐	
max. Earth dist.	-5852 Mar 23 j 17:03	17°♏00'38	6.12630 AU	opposition	-5846 Mar 17 j 07:44	11°♐37'31	2°02'45
morning rise	-5852 Apr 04 j 22:21	19°♏48'33		min. Earth dist.	-5846 Mar 18 j 09:40	11°♐29'17	4.28244 AU
	-5852 May 22 j 14:23	0°♋		direct	-5846 May 18 j 07:24	6°♐40'18	
retrograde	-5852 Aug 10 j 06:17	8°♋49'52			-5846 Aug 05 j 01:12	15°♐	
opposition	-5852 Oct 08 j 13:54	3°♋46'46	-1°37'17	evening set	-5846 Sep 20 j 16:03	24°♐53'43	
min. Earth dist.	-5852 Oct 07 j 19:25	3°♋53'04	4.17666 AU	max. Earth dist.	-5846 Oct 01 j 21:52	27°♐28'17	6.23359 AU
	-5852 Nov 09 j 05:28	30°♋♏					
direct	-5852 Dec 06 j 21:11	28°♏44'49		conjunction	-5846 Oct 03 j 03:45	27°♐45'28	1°12'08
	-5851 Jan 03 j 22:24	0°♋		minimum elong	-5846 Oct 03 j 03:48	27°♐45'30	1°12'22
evening set	-5851 Apr 13 j 08:59	17°♋28'14			-5846 Oct 12 j 22:07	0°♑	
				morning rise	-5846 Oct 15 j 15:38	0°♑37'27	
conjunction	-5851 Apr 27 j 02:42	20°♋33'02	-0°46'19	retrograde	-5845 Feb 18 j 16:50	19°♑07'00	
minimum elong	-5851 Apr 27 j 02:46	20°♋33'05	0°46'24	opposition	-5845 Apr 20 j 21:11	14°♑12'29	1°20'50
max. Earth dist.	-5851 Apr 27 j 21:08	20°♋43'24	6.22806 AU	min. Earth dist.	-5845 Apr 21 j 12:29	14°♑07'35	4.18249 AU
morning rise	-5851 May 10 j 19:05	23°♋37'01		direct	-5845 Jun 20 j 18:09	9°♑17'55	
	-5851 Jun 09 j 08:25	0°♊		evening set	-5845 Oct 23 j 00:48	27°♑50'26	
retrograde	-5851 Sep 11 j 16:53	11°♊42'08			-5845 Nov 01 j 06:33	0°♒	
opposition	-5851 Nov 10 j 01:30	6°♊42'43	-0°34'55				
min. Earth dist.	-5851 Nov 09 j 21:29	6°♊44'03	4.27654 AU	conjunction	-5845 Nov 04 j 17:17	0°♒48'30	0°32'32
direct	-5850 Jan 09 j 16:19	1°♊39'03		minimum elong	-5845 Nov 04 j 17:20	0°♒48'31	0°32'33
evening set	-5850 May 17 j 17:39	19°♊59'30		max. Earth dist.	-5845 Nov 04 j 07:35	0°♒42'49	6.13252 AU
asc. node	-5850 May 24 j 02:00	21°♊23'20		morning rise	-5845 Nov 17 j 11:29	3°♒47'41	
				retrograde	-5844 Mar 25 j 17:46	23°♒10'10	
conjunction	-5850 May 31 j 06:08	22°♊58'27	0°00'54	opposition	-5844 May 25 j 17:47	18°♒11'57	0°09'45

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 6

Attention, astronomical year style is used: The year -5844 in astronomical counting style is the year 5845 BCE in historical counting style.

min. Earth dist.	-5844 May 25 j 15:43	18° Ω 12'37	4.08785 AU	conjunction	-5838 Jun 04 j 20:23	27° Υ 29'16	0°07'40
desc. node	-5844 Jul 13 j 18:12	13° Ω 29'54		minimum elong	-5838 Jun 04 j 20:23	27° Υ 29'16	0°07'49
direct	-5844 Jul 24 j 05:19	13° Ω 19'01		behind sun begin	-5838 Jun 04 j 13:02	27° Υ 25'14	
	-5844 Nov 15 j 15:04	0° \mathbb{M}		behind sun end	-5838 Jun 05 j 03:44	27° Υ 33'19	
evening set	-5844 Nov 25 j 01:14	2° \mathbb{M} 12'23		max. Earth dist.	-5838 Jun 04 j 10:53	27° Υ 24'02	6.32828 AU
					-5838 Jun 16 j 05:45	0° \mathcal{B}	
conjunction	-5844 Dec 08 j 00:59	5° \mathbb{M} 17'08	-0°19'27	morning rise	-5838 Jun 18 j 04:49	0° \mathcal{B} 25'49	
minimum elong	-5844 Dec 08 j 00:57	5° \mathbb{M} 17'07	0°19'38		-5838 Sep 04 j 23:13	15° \mathcal{B}	
max. Earth dist.	-5844 Dec 08 j 15:09	5° \mathbb{M} 25'33	6.05343 AU	retrograde	-5838 Oct 17 j 07:34	17° \mathcal{B} 45'11	
morning rise	-5844 Dec 21 j 03:58	8° \mathbb{M} 23'39			-5838 Nov 28 j 22:30	15° $\mathcal{R}\mathcal{B}$	
	-5843 Jan 19 j 01:27	15° \mathbb{M}		opposition	-5838 Dec 16 j 01:29	12° \mathcal{B} 50'04	0°44'46
retrograde	-5843 May 01 j 16:57	28° \mathbb{M} 26'44		min. Earth dist.	-5838 Dec 16 j 14:46	12° \mathcal{B} 45'43	4.35688 AU
min. Earth dist.	-5843 Jun 30 j 11:52	23° \mathbb{M} 30'40	4.03227 AU	direct	-5837 Feb 15 j 23:50	7° \mathcal{B} 46'21	
opposition	-5843 Jul 01 j 06:20	23° \mathbb{M} 24'31	-1°07'23		-5837 May 01 j 02:39	15° \mathcal{B}	
direct	-5843 Aug 28 j 16:41	18° \mathbb{M} 31'04		evening set	-5837 Jun 24 j 00:16	25° \mathcal{B} 49'19	
	-5843 Nov 27 j 02:32	0° \mathcal{A}		max. Earth dist.	-5837 Jul 05 j 21:22	28° \mathcal{B} 25'46	6.37296 AU
evening set	-5843 Dec 30 j 20:03	7° \mathcal{A} 40'20					
				conjunction	-5837 Jul 07 j 02:29	28° \mathcal{B} 41'48	0°52'10
conjunction	-5842 Jan 13 j 03:36	10° \mathcal{A} 49'36	-1°05'18	minimum elong	-5837 Jul 07 j 02:26	28° \mathcal{B} 41'45	0°52'27
minimum elong	-5842 Jan 13 j 03:32	10° \mathcal{A} 49'33	1°05'36		-5837 Jul 13 j 00:35	0° \mathbb{I}	
max. Earth dist.	-5842 Jan 14 j 16:18	11° \mathcal{A} 11'22	6.02560 AU	morning rise	-5837 Jul 20 j 01:18	1° \mathbb{I} 32'35	
morning rise	-5842 Jan 26 j 14:21	14° \mathcal{A} 00'35		retrograde	-5837 Nov 17 j 08:24	18° \mathbb{I} 37'36	
	-5842 Apr 15 j 10:04	0° \mathcal{B}		opposition	-5836 Jan 16 j 14:29	13° \mathbb{I} 45'08	1°40'36
retrograde	-5842 Jun 07 j 13:36	4° \mathcal{B} 13'06		min. Earth dist.	-5836 Jan 17 j 14:34	13° \mathbb{I} 37'23	4.37706 AU
	-5842 Jul 31 j 02:27	30° $\mathcal{R}\mathcal{A}$		direct	-5836 Mar 19 j 03:27	8° \mathbb{I} 42'52	
min. Earth dist.	-5842 Aug 05 j 08:48	29° \mathcal{A} 17'25	4.03660 AU	evening set	-5836 Jul 24 j 14:24	26° \mathbb{I} 41'06	
opposition	-5842 Aug 06 j 11:44	29° \mathcal{A} 08'17	-2°00'01	max. Earth dist.	-5836 Aug 04 j 17:13	29° \mathbb{I} 08'39	6.36583 AU
direct	-5842 Oct 03 j 12:48	24° \mathcal{A} 12'22					
	-5842 Dec 03 j 21:48	0° \mathcal{B}		conjunction	-5836 Aug 06 j 07:37	29° \mathbb{I} 29'58	1°21'28
evening set	-5841 Feb 05 j 17:34	13° \mathcal{B} 24'58		minimum elong	-5836 Aug 06 j 07:34	29° \mathbb{I} 29'57	1°21'50
					-5836 Aug 08 j 13:41	0° \mathcal{B}	
conjunction	-5841 Feb 19 j 07:18	16° \mathcal{B} 35'17	-1°26'50	morning rise	-5836 Aug 18 j 21:52	2° \mathcal{B} 17'30	
minimum elong	-5841 Feb 19 j 07:17	16° \mathcal{B} 35'17	1°27'11	retrograde	-5836 Dec 18 j 01:11	19° \mathcal{B} 33'17	
max. Earth dist.	-5841 Feb 21 j 02:50	17° \mathcal{B} 00'46	6.05991 AU	opposition	-5835 Feb 16 j 19:07	14° \mathcal{B} 41'53	2°08'13
morning rise	-5841 Mar 04 j 23:40	19° \mathcal{B} 46'46		min. Earth dist.	-5835 Feb 17 j 23:57	14° \mathcal{B} 32'43	4.34432 AU
	-5841 Apr 20 j 19:27	0° \approx		direct	-5835 Apr 20 j 08:01	9° \mathcal{B} 42'09	
retrograde	-5841 Jul 13 j 01:17	9° \approx 31'28		evening set	-5835 Aug 24 j 18:11	27° \mathcal{B} 45'22	
min. Earth dist.	-5841 Sep 09 j 11:24	4° \approx 35'31	4.09805 AU		-5835 Sep 03 j 17:31	0° \mathcal{Q}	
opposition	-5841 Sep 10 j 13:53	4° \approx 26'27	-2°07'18	max. Earth dist.	-5835 Sep 04 j 14:58	0° \mathcal{Q} 12'06	6.30905 AU
	-5841 Oct 21 j 02:26	30° $\mathcal{R}\mathcal{B}$					
direct	-5841 Nov 08 j 00:25	29° \mathcal{B} 27'05		conjunction	-5835 Sep 06 j 06:00	0° \mathcal{Q} 34'08	1°27'38
	-5841 Nov 26 j 02:48	0° \approx		minimum elong	-5835 Sep 06 j 06:01	0° \mathcal{Q} 34'09	1°27'56
	-5840 Feb 27 j 03:20	15° \approx		morning rise	-5835 Sep 18 j 16:32	3° \mathcal{Q} 22'22	
evening set	-5840 Mar 13 j 12:51	18° \approx 27'49			-5835 Nov 14 j 17:04	15° \mathcal{Q}	
				retrograde	-5834 Jan 20 j 01:59	21° \mathcal{Q} 11'11	
conjunction	-5840 Mar 27 j 06:38	21° \approx 36'11	-1°16'25	opposition	-5834 Mar 22 j 04:10	16° \mathcal{Q} 18'51	1°58'58
minimum elong	-5840 Mar 27 j 06:42	21° \approx 36'14	1°16'40	min. Earth dist.	-5834 Mar 23 j 04:58	16° \mathcal{Q} 10'58	4.26724 AU
max. Earth dist.	-5840 Mar 28 j 18:02	21° \approx 56'27	6.14282 AU		-5834 Apr 01 j 15:09	15° $\mathcal{R}\mathcal{Q}$	
morning rise	-5840 Apr 10 j 00:56	24° \approx 44'39		direct	-5834 May 23 j 00:35	11° \mathcal{Q} 22'00	
	-5840 May 03 j 17:28	0° \mathcal{H}			-5834 Jul 12 j 00:31	15° \mathcal{Q}	
retrograde	-5840 Aug 14 j 21:31	13° \mathcal{H} 36'58		evening set	-5834 Sep 25 j 05:23	29° \mathcal{Q} 38'24	
opposition	-5840 Oct 13 j 04:24	8° \mathcal{H} 34'18	-1°29'51		-5834 Sep 26 j 19:07	0° \mathbb{H}	
min. Earth dist.	-5840 Oct 12 j 12:38	8° \mathcal{H} 39'39	4.19319 AU				
direct	-5840 Dec 11 j 17:00	3° \mathcal{H} 32'00		conjunction	-5834 Oct 07 j 17:41	2° \mathbb{H} 31'00	1°07'41
evening set	-5839 Apr 18 j 05:46	22° \mathcal{H} 11'17		minimum elong	-5834 Oct 07 j 17:44	2° \mathbb{H} 31'02	1°07'53
				max. Earth dist.	-5834 Oct 06 j 15:41	2° \mathbb{H} 16'01	6.21831 AU
conjunction	-5839 May 01 j 23:02	25° \mathcal{H} 15'16	-0°40'12	morning rise	-5834 Oct 20 j 06:07	5° \mathbb{H} 23'55	
minimum elong	-5839 May 01 j 23:05	25° \mathcal{H} 15'18	0°40'16	retrograde	-5833 Feb 23 j 18:18	24° \mathbb{H} 01'05	
max. Earth dist.	-5839 May 02 j 13:28	25° \mathcal{H} 23'21	6.24328 AU	opposition	-5833 Apr 25 j 22:51	19° \mathbb{H} 06'06	1°12'00
morning rise	-5839 May 15 j 14:48	28° \mathcal{H} 18'19		min. Earth dist.	-5833 Apr 26 j 11:16	19° \mathbb{H} 02'07	4.16827 AU
	-5839 May 23 j 06:48	0° Υ		direct	-5833 Jun 25 j 14:27	14° \mathbb{H} 11'55	
retrograde	-5839 Sep 16 j 01:05	16° Υ 16'10			-5833 Oct 15 j 17:39	0° \mathcal{U}	
opposition	-5839 Nov 14 j 11:36	11° Υ 17'15	-0°25'07	evening set	-5833 Oct 27 j 19:08	2° \mathcal{U} 47'03	
min. Earth dist.	-5839 Nov 14 j 09:30	11° Υ 17'57	4.28920 AU				
direct	-5838 Jan 14 j 06:19	6° Υ 13'24		conjunction	-5833 Nov 09 j 12:23	5° \mathcal{U} 46'00	0°25'27
asc. node	-5838 Apr 03 j 00:51	14° Υ 25'37		minimum elong	-5833 Nov 09 j 12:25	5° \mathcal{U} 46'02	0°25'27
evening set	-5838 May 22 j 08:58	24° Υ 31'09		max. Earth dist.	-5833 Nov 09 j 05:42	5° \mathcal{U} 42'05	6.12060 AU

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 7

Attention, astronomical year style is used: The year -5833 in astronomical counting style is the year 5834 BCE in historical counting style.

morning rise	-5833 Nov 22 j 07:50	8° <u>♏</u> 46'14	direct	-5826 Jan 18 j 22:12	10° <u>♍</u> 48'41	
retrograde	-5832 Mar 30 j 22:45	28° <u>♏</u> 14'59	asc. node	-5826 Feb 10 j 17:17	11° <u>♍</u> 36'41	
desc. node	-5832 May 22 j 20:04	24° <u>♏</u> 19'04	evening set	-5826 May 27 j 00:32	29° <u>♍</u> 04'25	
opposition	-5832 May 30 j 22:19	23° <u>♏</u> 16'06 -0°01'37		-5826 May 31 j 05:50	0° <u>♎</u>	
min. Earth dist.	-5832 May 30 j 17:20	23° <u>♏</u> 17'44 4.07913 AU				
direct	-5832 Jul 29 j 06:17	18° <u>♏</u> 23'12	conjunction	-5826 Jun 09 j 10:56	2° <u>♎</u> 01'50 0°14'25	
	-5832 Oct 28 j 22:28	0° <u>♎</u>	minimum elong	-5826 Jun 09 j 10:54	2° <u>♎</u> 01'49 0°14'35	
evening set	-5832 Nov 30 j 00:57	7° <u>♎</u> 18'21	behind sun begin	-5826 Jun 09 j 07:34	1° <u>♎</u> 59'59	
			behind sun end	-5826 Jun 09 j 14:15	2° <u>♎</u> 03'39	
conjunction	-5832 Dec 13 j 01:55	10° <u>♎</u> 23'48 -0°26'49	max. Earth dist.	-5826 Jun 08 j 22:29	1° <u>♎</u> 54'58 6.33545 AU	
minimum elong	-5832 Dec 13 j 01:53	10° <u>♎</u> 23'47 0°27'02	morning rise	-5826 Jun 22 j 18:05	4° <u>♎</u> 57'35	
max. Earth dist.	-5832 Dec 13 j 21:03	10° <u>♎</u> 35'09 6.04864 AU		-5826 Aug 11 j 00:40	15° <u>♎</u>	
morning rise	-5832 Dec 26 j 05:55	13° <u>♎</u> 31'00	retrograde	-5826 Oct 21 j 15:36	22° <u>♎</u> 14'10	
	-5831 Jan 01 j 13:41	15° <u>♎</u>	opposition	-5826 Dec 20 j 11:31	17° <u>♎</u> 19'31 0°53'52	
	-5831 Mar 18 j 19:12	0° <u>♎</u>	min. Earth dist.	-5826 Dec 21 j 01:56	17° <u>♎</u> 14'48 4.36068 AU	
retrograde	-5831 May 06 j 23:29	3° <u>♎</u> 36'23		-5825 Jan 07 j 23:46	15° <u>♎</u>	
	-5831 Jun 25 j 12:00	30° <u>♎</u>	direct	-5825 Feb 20 j 11:28	12° <u>♎</u> 15'56	
opposition	-5831 Jul 06 j 10:20	28° <u>♎</u> 33'44 -1°16'59		-5825 Apr 05 j 06:14	15° <u>♎</u>	
min. Earth dist.	-5831 Jul 05 j 14:32	28° <u>♎</u> 40'20 4.03206 AU		-5825 Jun 27 j 02:34	0° <u>♏</u>	
direct	-5831 Sep 02 j 18:51	23° <u>♎</u> 40'04	evening set	-5825 Jun 28 j 12:27	0° <u>♏</u> 18'30	
	-5831 Nov 06 j 03:11	0° <u>♏</u>	max. Earth dist.	-5825 Jul 10 j 06:34	2° <u>♏</u> 53'27 6.37306 AU	
evening set	-5830 Jan 04 j 23:56	12° <u>♏</u> 49'36				
			conjunction	-5825 Jul 11 j 13:18	3° <u>♏</u> 10'24 0°57'27	
conjunction	-5830 Jan 18 j 08:13	15° <u>♏</u> 59'01 -1°10'07	minimum elong	-5825 Jul 11 j 13:14	3° <u>♏</u> 10'22 0°57'44	
minimum elong	-5830 Jan 18 j 08:09	15° <u>♏</u> 58'59 1°10'28	morning rise	-5825 Jul 24 j 10:47	6° <u>♏</u> 00'38	
max. Earth dist.	-5830 Jan 19 j 21:25	16° <u>♏</u> 21'03 6.02953 AU	retrograde	-5825 Nov 21 j 19:38	23° <u>♏</u> 06'23	
morning rise	-5830 Jan 31 j 20:01	19° <u>♏</u> 10'12	opposition	-5824 Jan 21 j 02:27	18° <u>♏</u> 14'16 1°46'29	
	-5830 Mar 22 j 02:21	0° <u>♏</u>	min. Earth dist.	-5824 Jan 22 j 04:01	18° <u>♏</u> 06'03 4.37370 AU	
retrograde	-5830 Jun 12 j 13:58	9° <u>♏</u> 19'57	direct	-5824 Mar 23 j 16:36	13° <u>♏</u> 12'21	
min. Earth dist.	-5830 Aug 10 j 07:50	4° <u>♏</u> 24'30 4.04455 AU		-5824 Jul 23 j 14:46	0° <u>♐</u>	
opposition	-5830 Aug 11 j 11:54	4° <u>♏</u> 14'57 -2°03'58	evening set	-5824 Jul 29 j 00:49	1° <u>♐</u> 11'25	
	-5830 Sep 18 j 12:01	30° <u>♏</u>	max. Earth dist.	-5824 Aug 09 j 01:11	3° <u>♐</u> 37'58 6.35916 AU	
direct	-5830 Oct 08 j 12:47	29° <u>♏</u> 18'36				
	-5830 Oct 28 j 16:43	0° <u>♐</u>	conjunction	-5824 Aug 10 j 16:59	4° <u>♐</u> 00'07 1°23'51	
evening set	-5829 Feb 10 j 21:51	18° <u>♐</u> 29'37	minimum elong	-5824 Aug 10 j 16:57	4° <u>♐</u> 00'06 1°24'13	
			morning rise	-5824 Aug 23 j 06:32	6° <u>♐</u> 47'36	
conjunction	-5829 Feb 24 j 12:22	21° <u>♐</u> 39'44 -1°27'17	retrograde	-5824 Dec 22 j 15:52	24° <u>♐</u> 07'12	
minimum elong	-5829 Feb 24 j 12:22	21° <u>♐</u> 39'45 1°27'37	opposition	-5823 Feb 21 j 10:59	19° <u>♐</u> 15'47 2°09'15	
max. Earth dist.	-5829 Feb 26 j 07:57	22° <u>♐</u> 05'10 6.07111 AU	min. Earth dist.	-5823 Feb 22 j 15:11	19° <u>♐</u> 06'48 4.33508 AU	
morning rise	-5829 Mar 10 j 05:02	24° <u>♐</u> 50'51	direct	-5823 Apr 24 j 21:36	14° <u>♐</u> 16'27	
	-5829 Apr 01 j 23:17	0° <u>♐</u>		-5823 Aug 18 j 14:40	0° <u>♑</u>	
retrograde	-5829 Jul 17 j 22:04	14° <u>♐</u> 28'45	evening set	-5823 Aug 29 j 04:40	2° <u>♑</u> 21'13	
min. Earth dist.	-5829 Sep 14 j 08:23	9° <u>♐</u> 32'21 4.11128 AU	max. Earth dist.	-5823 Sep 09 j 04:19	4° <u>♑</u> 49'55 6.29819 AU	
opposition	-5829 Sep 15 j 08:48	9° <u>♐</u> 24'00 -2°04'27				
direct	-5829 Nov 12 j 22:59	4° <u>♐</u> 24'13	conjunction	-5823 Sep 10 j 16:20	5° <u>♑</u> 10'19 1°26'22	
	-5828 Feb 09 j 02:18	15° <u>♐</u>	minimum elong	-5823 Sep 10 j 16:21	5° <u>♑</u> 10'20 1°26'40	
evening set	-5828 Mar 18 j 14:20	23° <u>♐</u> 22'00	morning rise	-5823 Sep 23 j 02:37	7° <u>♑</u> 58'55	
				-5823 Oct 25 j 12:01	15° <u>♑</u>	
conjunction	-5828 Apr 01 j 08:19	26° <u>♐</u> 29'52 -1°12'37	retrograde	-5822 Jan 24 j 21:42	25° <u>♑</u> 53'31	
minimum elong	-5828 Apr 01 j 08:23	26° <u>♐</u> 29'55 1°12'50	opposition	-5822 Mar 27 j 00:38	21° <u>♑</u> 00'55 1°54'27	
max. Earth dist.	-5828 Apr 02 j 17:15	26° <u>♐</u> 48'39 6.15706 AU	min. Earth dist.	-5822 Mar 27 j 23:57	20° <u>♑</u> 53'30 4.25545 AU	
morning rise	-5828 Apr 15 j 02:35	29° <u>♐</u> 37'42	direct	-5822 May 27 j 17:45	16° <u>♑</u> 04'33	
	-5828 Apr 16 j 18:05	0° <u>♑</u>		-5822 Sep 10 j 07:01	0° <u>♒</u>	
retrograde	-5828 Aug 19 j 10:18	18° <u>♑</u> 22'01	evening set	-5822 Sep 29 j 18:21	4° <u>♒</u> 22'36	
opposition	-5828 Oct 17 j 18:01	13° <u>♑</u> 19'53 -1°21'56	max. Earth dist.	-5822 Oct 11 j 06:31	7° <u>♒</u> 01'44 6.20669 AU	
min. Earth dist.	-5828 Oct 17 j 03:25	13° <u>♑</u> 24'50 4.20712 AU				
direct	-5828 Dec 16 j 09:56	8° <u>♑</u> 17'18	conjunction	-5822 Oct 12 j 06:55	7° <u>♒</u> 15'50 1°02'52	
evening set	-5827 Apr 23 j 02:23	26° <u>♑</u> 53'39	minimum elong	-5822 Oct 12 j 06:59	7° <u>♒</u> 15'52 1°03'01	
			morning rise	-5822 Oct 24 j 20:12	10° <u>♒</u> 09'34	
conjunction	-5827 May 06 j 19:07	29° <u>♑</u> 56'55 -0°33'51	retrograde	-5821 Feb 28 j 18:00	28° <u>♒</u> 53'01	
minimum elong	-5827 May 06 j 19:10	29° <u>♑</u> 56'57 0°33'54	opposition	-5821 Apr 30 j 22:57	23° <u>♒</u> 57'27 1°02'46	
max. Earth dist.	-5827 May 07 j 05:19	0° <u>♒</u> 02'37 6.25599 AU	min. Earth dist.	-5821 May 01 j 08:35	23° <u>♒</u> 54'22 4.15749 AU	
	-5827 May 07 j 00:38	0° <u>♒</u>	direct	-5821 Jun 30 j 10:26	19° <u>♒</u> 03'30	
morning rise	-5827 May 20 j 10:10	2° <u>♒</u> 59'10		-5821 Sep 28 j 05:52	0° <u>♓</u>	
retrograde	-5827 Sep 20 j 12:24	20° <u>♒</u> 50'53	evening set	-5821 Nov 01 j 11:58	7° <u>♓</u> 40'14	
opposition	-5827 Nov 18 j 22:23	15° <u>♒</u> 52'35 -0°15'09				
min. Earth dist.	-5827 Nov 18 j 23:26	15° <u>♒</u> 52'14 4.29957 AU	conjunction	-5821 Nov 14 j 06:18	10° <u>♓</u> 40'00 0°18'21	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 8

Attention, astronomical year style is used: The year -5821 in astronomical counting style is the year 5822 BCE in historical counting style.

minimum elong	-5821 Nov 14 j 06:19	10° <u>♏</u> 40'01	0°18'19	morning rise	-5815 May 25 j 04:38	7° <u>♏</u> 38'10	
max. Earth dist.	-5821 Nov 14 j 04:26	10° <u>♏</u> 38'55	6.11182 AU	retrograde	-5815 Sep 24 j 21:37	25° <u>♏</u> 24'47	
morning rise	-5821 Nov 27 j 02:41	13° <u>♏</u> 41'04		opposition	-5815 Nov 23 j 09:04	20° <u>♏</u> 27'02	-0°05'08
	-5820 Feb 18 j 07:16	0° <u>♏</u>		min. Earth dist.	-5815 Nov 23 j 11:04	20° <u>♏</u> 26'22	4.30767 AU
desc. node	-5820 Apr 02 j 05:23	3° <u>♏</u> 13'52		asc. node	-5815 Dec 21 j 17:18	17° <u>♏</u> 02'00	
retrograde	-5820 Apr 05 j 02:13	3° <u>♏</u> 14'39		direct	-5814 Jan 23 j 11:13	15° <u>♏</u> 23'07	
	-5820 May 22 j 08:48	30° <u>♏</u> <u>♏</u>			-5814 May 14 j 20:54	0° <u>♏</u>	
opposition	-5820 Jun 05 j 00:14	28° <u>♏</u> 15'14	-0°12'43	evening set	-5814 May 31 j 16:21	3° <u>♏</u> 37'26	
min. Earth dist.	-5820 Jun 04 j 17:33	28° <u>♏</u> 17'25	4.07308 AU	max. Earth dist.	-5814 Jun 13 j 09:26	6° <u>♏</u> 25'16	6.34140 AU
direct	-5820 Aug 03 j 05:12	23° <u>♏</u> 22'20					
	-5820 Oct 08 j 17:21	0° <u>♏</u>		conjunction	-5814 Jun 14 j 01:26	6° <u>♏</u> 34'06	0°21'04
evening set	-5820 Dec 04 j 22:36	12° <u>♏</u> 18'34		minimum elong	-5814 Jun 14 j 01:24	6° <u>♏</u> 34'05	0°21'15
	-5820 Dec 16 j 07:05	15° <u>♏</u>		morning rise	-5814 Jun 27 j 07:26	9° <u>♏</u> 29'06	
					-5814 Jul 23 j 03:50	15° <u>♏</u>	
conjunction	-5820 Dec 18 j 00:23	15° <u>♏</u> 24'32	-0°33'49	retrograde	-5814 Oct 26 j 02:24	26° <u>♏</u> 43'16	
minimum elong	-5820 Dec 18 j 00:20	15° <u>♏</u> 24'30	0°34'03	opposition	-5814 Dec 24 j 22:19	21° <u>♏</u> 49'04	1°02'38
max. Earth dist.	-5820 Dec 18 j 21:01	15° <u>♏</u> 36'46	6.04563 AU	min. Earth dist.	-5814 Dec 25 j 15:07	21° <u>♏</u> 43'35	4.36420 AU
morning rise	-5820 Dec 31 j 05:38	18° <u>♏</u> 32'20		direct	-5813 Feb 25 j 01:44	16° <u>♏</u> 45'38	
	-5819 Feb 21 j 15:58	0° <u>♏</u>			-5813 Jun 10 j 14:29	0° <u>♏</u>	
retrograde	-5819 May 12 j 00:39	8° <u>♏</u> 39'15		evening set	-5813 Jul 03 j 00:28	4° <u>♏</u> 47'26	
opposition	-5819 Jul 11 j 10:56	3° <u>♏</u> 36'07	-1°25'44	max. Earth dist.	-5813 Jul 14 j 16:14	7° <u>♏</u> 21'11	6.37367 AU
min. Earth dist.	-5819 Jul 10 j 12:57	3° <u>♏</u> 43'28	4.03255 AU				
	-5819 Aug 10 j 20:03	30° <u>♏</u> <u>♏</u>		conjunction	-5813 Jul 16 j 00:06	7° <u>♏</u> 38'46	1°02'23
direct	-5819 Sep 07 j 16:56	28° <u>♏</u> 42'08		minimum elong	-5813 Jul 16 j 00:02	7° <u>♏</u> 38'44	1°02'43
	-5819 Oct 05 j 13:12	0° <u>♏</u>		morning rise	-5813 Jul 28 j 20:15	10° <u>♏</u> 28'26	
evening set	-5818 Jan 10 j 01:07	17° <u>♏</u> 51'53		retrograde	-5813 Nov 26 j 05:31	27° <u>♏</u> 34'44	
				opposition	-5812 Jan 25 j 14:53	22° <u>♏</u> 42'46	1°51'44
conjunction	-5818 Jan 23 j 10:25	21° <u>♏</u> 01'32	-1°14'18	min. Earth dist.	-5812 Jan 26 j 16:15	22° <u>♏</u> 34'38	4.37158 AU
minimum elong	-5818 Jan 23 j 10:22	21° <u>♏</u> 01'29	1°14'40	direct	-5812 Mar 28 j 04:17	17° <u>♏</u> 41'10	
max. Earth dist.	-5818 Jan 25 j 01:37	21° <u>♏</u> 24'42	6.03333 AU		-5812 Jul 06 j 23:57	0° <u>♏</u>	
morning rise	-5818 Feb 05 j 22:51	24° <u>♏</u> 12'47		evening set	-5812 Aug 02 j 10:38	5° <u>♏</u> 40'16	
	-5818 Mar 03 j 05:58	0° <u>♏</u>		max. Earth dist.	-5812 Aug 13 j 10:44	8° <u>♏</u> 06'56	6.35422 AU
retrograde	-5818 Jun 17 j 13:25	14° <u>♏</u> 19'45					
min. Earth dist.	-5818 Aug 15 j 06:03	9° <u>♏</u> 23'48	4.05129 AU	conjunction	-5812 Aug 15 j 01:49	8° <u>♏</u> 28'43	1°25'45
opposition	-5818 Aug 16 j 08:58	9° <u>♏</u> 14'38	-2°06'55	minimum elong	-5812 Aug 15 j 01:47	8° <u>♏</u> 28'42	1°26'06
direct	-5818 Oct 13 j 11:27	4° <u>♏</u> 17'47		morning rise	-5812 Aug 27 j 14:30	11° <u>♏</u> 16'02	
evening set	-5817 Feb 15 j 23:53	23° <u>♏</u> 27'49		retrograde	-5812 Dec 27 j 06:45	28° <u>♏</u> 38'56	
				opposition	-5811 Feb 26 j 02:34	23° <u>♏</u> 47'28	2°09'29
conjunction	-5817 Mar 01 j 15:04	26° <u>♏</u> 37'49	-1°27'05	min. Earth dist.	-5811 Feb 27 j 07:12	23° <u>♏</u> 38'22	4.32743 AU
minimum elong	-5817 Mar 01 j 15:05	26° <u>♏</u> 37'50	1°27'25	direct	-5811 Apr 29 j 12:34	18° <u>♏</u> 48'33	
max. Earth dist.	-5817 Mar 03 j 09:39	27° <u>♏</u> 02'35	6.08013 AU		-5811 Aug 01 j 16:09	0° <u>♏</u>	
morning rise	-5817 Mar 15 j 08:16	29° <u>♏</u> 48'43		evening set	-5811 Sep 02 j 14:19	6° <u>♏</u> 54'14	
	-5817 Mar 16 j 03:51	0° <u>♏</u>		max. Earth dist.	-5811 Sep 13 j 13:40	9° <u>♏</u> 23'11	6.28818 AU
	-5817 May 30 j 00:10	15° <u>♏</u>					
retrograde	-5817 Jul 22 j 14:59	19° <u>♏</u> 20'29		conjunction	-5811 Sep 15 j 01:40	9° <u>♏</u> 43'37	1°24'35
	-5817 Sep 14 j 16:07	15° <u>♏</u>		minimum elong	-5811 Sep 15 j 01:42	9° <u>♏</u> 43'38	1°24'53
min. Earth dist.	-5817 Sep 19 j 01:16	14° <u>♏</u> 24'12	4.12176 AU	morning rise	-5811 Sep 27 j 12:07	12° <u>♏</u> 32'40	
opposition	-5817 Sep 20 j 01:16	14° <u>♏</u> 16'01	-2°00'49		-5811 Oct 08 j 11:32	15° <u>♏</u>	
direct	-5817 Nov 17 j 17:23	9° <u>♏</u> 15'47			-5810 Jan 10 j 19:50	0° <u>♏</u>	
	-5816 Jan 18 j 22:41	15° <u>♏</u>		retrograde	-5810 Jan 29 j 15:43	0° <u>♏</u> 32'56	
evening set	-5816 Mar 23 j 14:06	28° <u>♏</u> 11'42			-5810 Feb 17 j 12:59	30° <u>♏</u> <u>♏</u>	
	-5816 Mar 31 j 13:03	0° <u>♏</u>		opposition	-5810 Mar 31 j 20:02	25° <u>♏</u> 39'57	1°49'15
conjunction	-5816 Apr 06 j 08:12	1° <u>♏</u> 19'10	-1°08'23	min. Earth dist.	-5810 Apr 01 j 17:24	25° <u>♏</u> 33'09	4.24355 AU
minimum elong	-5816 Apr 06 j 08:17	1° <u>♏</u> 19'13	1°08'34	direct	-5810 Jun 01 j 08:55	20° <u>♏</u> 43'57	
max. Earth dist.	-5816 Apr 07 j 13:11	1° <u>♏</u> 35'39	6.16827 AU		-5810 Aug 23 j 09:37	0° <u>♏</u>	
morning rise	-5816 Apr 20 j 02:28	4° <u>♏</u> 26'29		evening set	-5810 Oct 04 j 06:13	9° <u>♏</u> 03'59	
retrograde	-5816 Aug 24 j 00:26	23° <u>♏</u> 04'10					
opposition	-5816 Oct 22 j 07:00	18° <u>♏</u> 02'30	-1°13'36	conjunction	-5810 Oct 16 j 19:27	11° <u>♏</u> 58'01	0°57'40
min. Earth dist.	-5816 Oct 21 j 19:14	18° <u>♏</u> 06'29	4.21787 AU	minimum elong	-5810 Oct 16 j 19:30	11° <u>♏</u> 58'03	0°57'48
direct	-5816 Dec 21 j 03:53	12° <u>♏</u> 59'38		max. Earth dist.	-5810 Oct 15 j 22:41	11° <u>♏</u> 45'59	6.19398 AU
	-5815 Apr 20 j 19:35	0° <u>♏</u>		morning rise	-5810 Oct 29 j 09:21	14° <u>♏</u> 52'37	
evening set	-5815 Apr 27 j 22:08	1° <u>♏</u> 33'59		retrograde	-5809 Jan 14 j 07:20	0° <u>♏</u>	
					-5809 Mar 05 j 18:30	3° <u>♏</u> 43'02	
conjunction	-5815 May 11 j 14:28	4° <u>♏</u> 36'40	-0°27'21		-5809 Apr 26 j 09:08	30° <u>♏</u> <u>♏</u>	
minimum elong	-5815 May 11 j 14:31	4° <u>♏</u> 36'42	0°27'20	opposition	-5809 May 05 j 22:31	28° <u>♏</u> 47'01	0°53'09
max. Earth dist.	-5815 May 11 j 22:34	4° <u>♏</u> 41'11	6.26573 AU	min. Earth dist.	-5809 May 06 j 06:58	28° <u>♏</u> 44'18	4.14470 AU
				direct	-5809 Jul 05 j 06:37	23° <u>♏</u> 53'20	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 9

Attention, astronomical year style is used: The year -5809 in astronomical counting style is the year 5810 BCE in historical counting style.

	-5809 Sep 07 j 18:49	0°♎		conjunction	-5803 May 16 j 11:38	9°♑22'19	-0°20'33
evening set	-5809 Nov 06 j 04:47	12°♊32'46		minimum elong	-5803 May 16 j 11:40	9°♑22'20	0°20'31
				max. Earth dist.	-5803 May 16 j 15:50	9°♑24'39	6.28020 AU
conjunction	-5809 Nov 18 j 23:56	15°♊33'27	0°11'07	morning rise	-5803 May 30 j 00:59	12°♑22'50	
minimum elong	-5809 Nov 18 j 23:57	15°♊33'28	0°11'03		-5803 Sep 24 j 05:24	0°♎	
behind sun begin	-5809 Nov 18 j 17:51	15°♊29'53		retrograde	-5803 Sep 29 j 09:21	0°♎02'39	
behind sun end	-5809 Nov 19 j 06:03	15°♊37'02			-5803 Oct 04 j 12:37	30°♑	
max. Earth dist.	-5809 Nov 18 j 23:42	15°♊33'19	6.10004 AU	asc. node	-5803 Oct 31 j 11:51	28°♑23'52	
morning rise	-5809 Dec 01 j 21:40	18°♊35'36		opposition	-5803 Nov 27 j 21:27	25°♑05'23	0°04'57
	-5808 Jan 23 j 13:43	0°♌		min. Earth dist.	-5803 Nov 28 j 01:47	25°♑03'57	4.32152 AU
desc. node	-5808 Feb 11 j 08:53	3°♌15'45		direct	-5802 Jan 28 j 04:43	20°♑01'26	
retrograde	-5808 Apr 10 j 04:43	8°♌15'27			-5802 Apr 26 j 21:27	0°♎	
opposition	-5808 Jun 10 j 02:10	3°♌15'29	-0°23'47	evening set	-5802 Jun 05 j 07:54	8°♎11'55	
min. Earth dist.	-5808 Jun 09 j 16:31	3°♌18'39	4.06344 AU				
	-5808 Jul 07 j 07:56	30°♑		conjunction	-5802 Jun 18 j 15:47	11°♎07'32	0°27'35
direct	-5808 Aug 08 j 02:32	28°♊22'32		minimum elong	-5802 Jun 18 j 15:45	11°♎07'31	0°27'47
	-5808 Sep 08 j 15:04	0°♌		max. Earth dist.	-5802 Jun 17 j 23:02	10°♎58'19	6.35369 AU
	-5808 Nov 29 j 19:47	15°♌		morning rise	-5802 Jul 01 j 20:10	14°♎01'25	
evening set	-5808 Dec 09 j 21:36	17°♌21'40			-5802 Jul 06 j 07:39	15°♎	
					-5802 Oct 02 j 23:27	0°♐	
conjunction	-5808 Dec 23 j 00:36	20°♌28'25	-0°40'38	retrograde	-5802 Oct 30 j 09:05	1°♐11'10	
minimum elong	-5808 Dec 23 j 00:33	20°♌28'23	0°40'52		-5802 Nov 26 j 19:18	30°♑	
max. Earth dist.	-5808 Dec 24 j 01:00	20°♌42'55	6.03894 AU	opposition	-5802 Dec 29 j 08:33	26°♎17'19	1°10'52
morning rise	-5807 Jan 05 j 06:50	23°♌36'59		min. Earth dist.	-5802 Dec 30 j 01:46	26°♎11'43	4.37420 AU
	-5807 Feb 02 j 03:42	0°♑		direct	-5801 Mar 01 j 13:48	21°♎14'05	
retrograde	-5807 May 17 j 05:57	13°♑46'53			-5801 May 23 j 12:31	0°♐	
opposition	-5807 Jul 16 j 13:02	8°♑43'21	-1°34'01	evening set	-5801 Jul 07 j 10:36	9°♐12'42	
min. Earth dist.	-5807 Jul 15 j 14:49	8°♑50'49	4.02957 AU	max. Earth dist.	-5801 Jul 18 j 22:31	11°♐44'19	6.38043 AU
direct	-5807 Sep 12 j 17:52	3°♑49'03					
evening set	-5806 Jan 15 j 05:08	23°♑00'38		conjunction	-5801 Jul 20 j 08:38	12°♐03'07	1°06'50
				minimum elong	-5801 Jul 20 j 08:34	12°♐03'05	1°07'09
conjunction	-5806 Jan 28 j 15:23	26°♑10'38	-1°18'01	morning rise	-5801 Aug 02 j 03:32	14°♐51'59	
minimum elong	-5806 Jan 28 j 15:20	26°♑10'36	1°18'22		-5801 Oct 25 j 20:58	0°♑	
max. Earth dist.	-5806 Jan 30 j 07:53	26°♑34'33	6.03409 AU	retrograde	-5801 Nov 30 j 14:15	1°♑56'59	
morning rise	-5806 Feb 11 j 04:47	29°♑22'14			-5800 Jan 05 j 13:09	30°♑	
	-5806 Feb 13 j 21:23	0°♒		opposition	-5800 Jan 30 j 00:56	27°♐05'11	1°56'05
retrograde	-5806 Jun 22 j 14:31	19°♒27'12		min. Earth dist.	-5800 Jan 31 j 04:18	26°♐56'25	4.37466 AU
min. Earth dist.	-5806 Aug 20 j 04:47	14°♒31'31	4.05599 AU	direct	-5800 Apr 01 j 16:52	22°♐03'50	
opposition	-5806 Aug 21 j 08:34	14°♒22'04	-2°09'00		-5800 Jun 18 j 20:14	0°♑	
direct	-5806 Oct 18 j 10:30	9°♒24'47		evening set	-5800 Aug 06 j 16:50	10°♑01'10	
evening set	-5805 Feb 21 j 05:21	28°♒34'37		max. Earth dist.	-5800 Aug 17 j 15:23	12°♑27'05	6.35316 AU
	-5805 Feb 27 j 08:59	0°♓					
				conjunction	-5800 Aug 19 j 07:12	12°♑49'17	1°27'03
conjunction	-5805 Mar 06 j 21:08	1°♓44'33	-1°26'14	minimum elong	-5800 Aug 19 j 07:10	12°♑49'17	1°27'24
minimum elong	-5805 Mar 06 j 21:10	1°♓44'34	1°26'33	morning rise	-5800 Aug 31 j 19:08	15°♑36'20	
max. Earth dist.	-5805 Mar 08 j 13:59	2°♓08'16	6.08825 AU		-5800 Nov 16 j 12:33	0°♒	
morning rise	-5805 Mar 20 j 14:50	4°♓55'16		retrograde	-5800 Dec 31 j 15:25	3°♒01'27	
	-5805 May 06 j 03:44	15°♓			-5799 Feb 15 j 18:03	30°♑	
retrograde	-5805 Jul 27 j 12:21	24°♓21'07		opposition	-5799 Mar 02 j 14:17	28°♑09'51	2°08'53
opposition	-5805 Sep 24 j 21:00	19°♓16'55	-1°56'14	min. Earth dist.	-5799 Mar 03 j 18:11	28°♑00'59	4.32227 AU
min. Earth dist.	-5805 Sep 23 j 22:39	19°♓24'34	4.13244 AU	direct	-5799 May 03 j 21:58	23°♑11'15	
	-5805 Nov 01 j 20:36	15°♑			-5799 Jul 13 j 21:34	0°♒	
direct	-5805 Nov 22 j 17:12	14°♓16'16		evening set	-5799 Sep 06 j 19:41	11°♒17'09	
	-5805 Dec 13 j 17:20	15°♓		max. Earth dist.	-5799 Sep 17 j 20:03	13°♒46'59	6.27933 AU
	-5804 Mar 14 j 12:27	0°♒					
evening set	-5804 Mar 28 j 17:09	3°♒10'04		conjunction	-5799 Sep 19 j 06:55	14°♒06'49	1°22'21
				minimum elong	-5799 Sep 19 j 06:58	14°♒06'51	1°22'37
conjunction	-5804 Apr 11 j 11:30	6°♒17'05	-1°03'34		-5799 Sep 23 j 04:23	15°♒	
minimum elong	-5804 Apr 11 j 11:34	6°♒17'07	1°03'44	morning rise	-5799 Oct 01 j 17:24	16°♒56'17	
max. Earth dist.	-5804 Apr 12 j 15:52	6°♒33'10	6.18114 AU		-5799 Dec 05 j 21:39	0°♑	
morning rise	-5804 Apr 25 j 05:23	9°♒23'43		retrograde	-5798 Feb 03 j 07:23	5°♑02'04	
retrograde	-5804 Aug 28 j 15:35	27°♒53'46		opposition	-5798 Apr 05 j 11:29	0°♑08'49	1°43'33
opposition	-5804 Oct 26 j 22:29	22°♒52'40	-1°04'36	min. Earth dist.	-5798 Apr 06 j 09:10	0°♑01'54	4.23123 AU
min. Earth dist.	-5804 Oct 26 j 11:25	22°♒56'24	4.23191 AU		-5798 Apr 06 j 15:09	30°♒	
direct	-5804 Dec 25 j 22:28	17°♒49'38		direct	-5798 Jun 05 j 22:22	25°♒13'06	
	-5803 Apr 03 j 05:55	0°♑			-5798 Aug 02 j 09:00	0°♑	
evening set	-5803 May 02 j 20:14	6°♑20'33		evening set	-5798 Oct 08 j 14:26	13°♑35'32	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 10

Attention, astronomical year style is used: The year -5798 in astronomical counting style is the year 5799 BCE in historical counting style.

max. Earth dist.	-5798 Oct 20 j 07:44	16° \mathbb{M} 18'32	6.17938 AU	morning rise	-5792 Apr 30 j 07:46	14° \mathbb{H} 18'56	
					-5792 Jul 22 j 19:19	0° \mathbb{Y}	
conjunction	-5798 Oct 21 j 04:14	16° \mathbb{M} 30'26	0°52'18	retrograde	-5792 Sep 02 j 05:40	2° \mathbb{Y} 40'48	
minimum elong	-5798 Oct 21 j 04:17	16° \mathbb{M} 30'28	0°52'25		-5792 Oct 13 j 13:15	30° \mathbb{R} \mathbb{H}	
morning rise	-5798 Nov 02 j 19:09	19° \mathbb{M} 26'05		opposition	-5792 Oct 31 j 13:22	27° \mathbb{H} 40'06	-0°55'11
	-5798 Dec 21 j 22:53	0° $\underline{\mathbb{A}}$		min. Earth dist.	-5792 Oct 31 j 04:20	27° \mathbb{H} 43'09	4.24686 AU
retrograde	-5797 Mar 10 j 13:59	8° $\underline{\mathbb{A}}$ 24'17		direct	-5792 Dec 30 j 18:10	22° \mathbb{H} 36'47	
opposition	-5797 May 10 j 18:13	3° $\underline{\mathbb{A}}$ 27'48	0°43'31		-5791 Mar 14 j 08:39	0° \mathbb{Y}	
min. Earth dist.	-5797 May 11 j 00:09	3° $\underline{\mathbb{A}}$ 25'53	4.12885 AU	evening set	-5791 May 07 j 16:50	11° \mathbb{Y} 03'56	
	-5797 Jun 09 j 15:45	30° \mathbb{R} \mathbb{M}					
direct	-5797 Jul 09 j 20:44	28° \mathbb{M} 34'16		conjunction	-5791 May 21 j 07:33	14° \mathbb{Y} 04'47	-0°13'39
	-5797 Aug 08 j 19:59	0° $\underline{\mathbb{A}}$		minimum elong	-5791 May 21 j 07:34	14° \mathbb{Y} 04'48	0°13'35
evening set	-5797 Nov 10 j 19:14	17° $\underline{\mathbb{A}}$ 18'01		behind sun begin	-5791 May 21 j 03:12	14° \mathbb{Y} 02'23	
				behind sun end	-5791 May 21 j 11:55	14° \mathbb{Y} 07'12	
conjunction	-5797 Nov 23 j 15:35	20° $\underline{\mathbb{A}}$ 19'52	0°04'04	max. Earth dist.	-5791 May 21 j 09:57	14° \mathbb{Y} 06'07	6.29430 AU
minimum elong	-5797 Nov 23 j 15:35	20° $\underline{\mathbb{A}}$ 19'52	0°03'57	morning rise	-5791 Jun 03 j 19:37	17° \mathbb{Y} 04'14	
behind sun begin	-5797 Nov 23 j 07:36	20° $\underline{\mathbb{A}}$ 15'10			-5791 Aug 08 j 23:45	0° \mathbb{B}	
behind sun end	-5797 Nov 23 j 23:34	20° $\underline{\mathbb{A}}$ 24'34		asc. node	-5791 Sep 09 j 18:50	3° \mathbb{B} 42'13	
max. Earth dist.	-5797 Nov 23 j 18:40	20° $\underline{\mathbb{A}}$ 21'39	6.08456 AU	retrograde	-5791 Oct 03 j 18:55	4° \mathbb{B} 37'47	
morning rise	-5797 Dec 06 j 14:27	23° $\underline{\mathbb{A}}$ 23'14			-5791 Nov 29 j 23:38	30° \mathbb{R} \mathbb{Y}	
desc. node	-5797 Dec 24 j 00:19	27° $\underline{\mathbb{A}}$ 24'43		opposition	-5791 Dec 02 j 08:56	29° \mathbb{Y} 41'04	0°15'00
	-5796 Jan 04 j 15:47	0° \mathbb{M}		min. Earth dist.	-5791 Dec 02 j 14:52	29° \mathbb{Y} 39'06	4.33341 AU
retrograde	-5796 Apr 15 j 08:21	13° \mathbb{M} 10'53		direct	-5790 Feb 01 j 19:36	24° \mathbb{Y} 37'10	
opposition	-5796 Jun 15 j 02:03	8° \mathbb{M} 10'25	-0°34'25		-5790 Apr 05 j 11:49	0° \mathbb{B}	
min. Earth dist.	-5796 Jun 14 j 15:32	8° \mathbb{M} 13'53	4.04973 AU	evening set	-5790 Jun 09 j 22:54	12° \mathbb{B} 44'47	
direct	-5796 Aug 12 j 23:00	3° \mathbb{M} 17'24			-5790 Jun 20 j 05:32	15° \mathbb{B}	
	-5796 Nov 12 j 14:39	15° \mathbb{M}		max. Earth dist.	-5790 Jun 22 j 08:11	15° \mathbb{B} 27'52	6.36218 AU
evening set	-5796 Dec 14 j 19:52	22° \mathbb{M} 21'14					
				conjunction	-5790 Jun 23 j 05:17	15° \mathbb{B} 39'28	0°33'57
conjunction	-5796 Dec 28 j 00:01	25° \mathbb{M} 28'59	-0°46'59	minimum elong	-5790 Jun 23 j 05:14	15° \mathbb{B} 39'27	0°34'11
minimum elong	-5796 Dec 27 j 23:57	25° \mathbb{M} 28'57	0°47'16	morning rise	-5790 Jul 06 j 08:26	18° \mathbb{B} 32'28	
max. Earth dist.	-5796 Dec 29 j 02:53	25° \mathbb{M} 44'58	6.02827 AU		-5790 Sep 02 j 03:38	0° \mathbb{I}	
morning rise	-5795 Jan 10 j 07:36	28° \mathbb{M} 38'34		retrograde	-5790 Nov 03 j 18:50	5° \mathbb{I} 39'32	
	-5795 Jan 16 j 02:08	0° \mathbb{X}		opposition	-5789 Jan 02 j 19:17	0° \mathbb{I} 46'04	1°18'50
retrograde	-5795 May 22 j 09:29	18° \mathbb{X} 52'43		min. Earth dist.	-5789 Jan 03 j 15:05	0° \mathbb{I} 39'38	4.37887 AU
opposition	-5795 Jul 21 j 14:25	13° \mathbb{X} 48'52	-1°41'25		-5789 Jan 08 j 17:43	30° \mathbb{R} \mathbb{B}	
min. Earth dist.	-5795 Jul 20 j 14:03	13° \mathbb{X} 57'04	4.02346 AU	direct	-5789 Mar 06 j 03:49	25° \mathbb{B} 43'00	
direct	-5795 Sep 17 j 15:49	8° \mathbb{X} 54'17			-5789 Apr 30 j 22:12	0° \mathbb{I}	
evening set	-5794 Jan 20 j 09:45	28° \mathbb{X} 08'54		evening set	-5789 Jul 11 j 21:12	13° \mathbb{I} 40'28	
	-5794 Jan 28 j 06:29	0° \mathbb{Z}		max. Earth dist.	-5789 Jul 23 j 07:28	16° \mathbb{I} 11'15	6.38071 AU
conjunction	-5794 Feb 02 j 20:57	1° \mathbb{Z} 19'24	-1°21'02	conjunction	-5789 Jul 24 j 18:08	16° \mathbb{I} 30'22	1°11'01
minimum elong	-5794 Feb 02 j 20:54	1° \mathbb{Z} 19'22	1°21'22	minimum elong	-5789 Jul 24 j 18:05	16° \mathbb{I} 30'20	1°11'21
max. Earth dist.	-5794 Feb 04 j 14:25	1° \mathbb{Z} 43'53	6.03291 AU	morning rise	-5789 Aug 06 j 11:41	19° \mathbb{I} 18'41	
morning rise	-5794 Feb 16 j 11:16	4° \mathbb{Z} 31'24			-5789 Sep 28 j 13:40	0° \mathbb{D}	
retrograde	-5794 Jun 27 j 16:26	24° \mathbb{Z} 34'45		retrograde	-5789 Dec 04 j 23:49	6° \mathbb{D} 24'55	
min. Earth dist.	-5794 Aug 25 j 04:29	19° \mathbb{Z} 39'00	4.05986 AU	opposition	-5788 Feb 03 j 13:23	1° \mathbb{D} 33'16	2°00'03
opposition	-5794 Aug 26 j 08:13	19° \mathbb{Z} 29'31	-2°10'00	min. Earth dist.	-5788 Feb 04 j 16:44	1° \mathbb{D} 24'32	4.37073 AU
direct	-5794 Oct 23 j 12:12	14° \mathbb{Z} 31'45			-5788 Feb 15 j 22:20	30° \mathbb{R} \mathbb{I}	
	-5793 Feb 10 j 06:01	0° \approx		direct	-5788 Apr 06 j 04:27	26° \mathbb{I} 32'19	
evening set	-5793 Feb 26 j 11:26	3° \approx 41'26			-5788 May 25 j 21:16	0° \mathbb{D}	
				evening set	-5788 Aug 11 j 01:55	14° \mathbb{D} 30'17	
conjunction	-5793 Mar 12 j 04:02	6° \approx 51'19	-1°24'40	max. Earth dist.	-5788 Aug 21 j 22:46	16° \mathbb{D} 55'39	6.34516 AU
minimum elong	-5793 Mar 12 j 04:04	6° \approx 51'20	1°24'58				
max. Earth dist.	-5793 Mar 13 j 22:12	7° \approx 15'43	6.09691 AU	conjunction	-5788 Aug 23 j 15:23	17° \mathbb{D} 18'22	1°27'58
morning rise	-5793 Mar 25 j 21:59	10° \approx 01'45		minimum elong	-5788 Aug 23 j 15:22	17° \mathbb{D} 18'21	1°28'19
	-5793 Apr 17 j 00:33	15° \approx		morning rise	-5788 Sep 05 j 02:51	20° \mathbb{D} 05'32	
retrograde	-5793 Aug 01 j 09:02	29° \approx 20'50			-5788 Oct 22 j 23:40	0° \mathbb{Q}	
opposition	-5793 Sep 29 j 16:29	24° \approx 16'55	-1°50'44	retrograde	-5787 Jan 05 j 07:46	7° \mathbb{Q} 35'25	
min. Earth dist.	-5793 Sep 28 j 18:39	24° \approx 24'22	4.14468 AU	opposition	-5787 Mar 07 j 06:51	2° \mathbb{Q} 43'43	2°07'39
direct	-5793 Nov 27 j 15:26	19° \approx 15'52		min. Earth dist.	-5787 Mar 08 j 11:28	2° \mathbb{Q} 34'38	4.31066 AU
	-5792 Feb 25 j 04:56	0° \mathbb{H}			-5787 Mar 30 j 01:29	30° \mathbb{R} \mathbb{D}	
evening set	-5792 Apr 02 j 19:54	8° \mathbb{H} 06'41		direct	-5787 May 08 j 13:36	27° \mathbb{D} 45'31	
					-5787 Jun 16 j 15:47	0° \mathbb{Q}	
conjunction	-5792 Apr 16 j 14:02	11° \mathbb{H} 13'02	-0°58'17		-5787 Sep 07 j 06:47	15° \mathbb{Q}	
minimum elong	-5792 Apr 16 j 14:07	11° \mathbb{H} 13'04	0°58'25	evening set	-5787 Sep 11 j 05:59	15° \mathbb{Q} 53'42	
max. Earth dist.	-5792 Apr 17 j 14:44	11° \mathbb{H} 27'00	6.19566 AU	max. Earth dist.	-5787 Sep 22 j 07:30	18° \mathbb{Q} 24'40	6.26509 AU

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 11

Attention, astronomical year style is used: The year -5787 in astronomical counting style is the year 5788 BCE in historical counting style.

conjunction	-5787 Sep 23 j 17:22	18° Ω 43'59	1°19'33	morning rise	-5781 Mar 31 j 02:23	15° \approx 01'41	
minimum elong	-5787 Sep 23 j 17:25	18° Ω 44'01	1°19'48		-5781 Jun 14 j 09:39	0° \mathbb{H}	
morning rise	-5787 Oct 06 j 04:10	21° Ω 34'11		retrograde	-5781 Aug 06 j 00:05	4° \mathbb{H} 11'45	
	-5787 Nov 14 j 06:28	0° \mathbb{H}			-5781 Sep 27 j 23:43	30° $\mathbb{R}\approx$	
retrograde	-5786 Feb 08 j 03:29	9° \mathbb{H} 47'19		opposition	-5781 Oct 04 j 08:30	29° \approx 08'07	-1°44'38
opposition	-5786 Apr 10 j 09:03	4° \mathbb{H} 53'42	1°36'55	min. Earth dist.	-5781 Oct 03 j 12:06	29° \approx 15'04	4.16158 AU
min. Earth dist.	-5786 Apr 11 j 04:08	4° \mathbb{H} 47'37	4.21542 AU	direct	-5781 Dec 02 j 11:23	24° \approx 06'36	
	-5786 Jun 06 j 11:17	30° $\mathbb{R}\Omega$			-5780 Feb 04 j 03:38	0° \mathbb{H}	
direct	-5786 Jun 10 j 14:44	29° Ω 58'23		evening set	-5780 Apr 07 j 18:19	12° \mathbb{H} 53'03	
	-5786 Jun 14 j 18:08	0° \mathbb{H}					
evening set	-5786 Oct 13 j 05:01	18° \mathbb{H} 24'15		conjunction	-5780 Apr 21 j 12:22	15° \mathbb{H} 58'37	-0°52'47
				minimum elong	-5780 Apr 21 j 12:26	15° \mathbb{H} 58'40	0°52'54
conjunction	-5786 Oct 25 j 19:35	21° \mathbb{H} 20'09	0°46'16	max. Earth dist.	-5780 Apr 22 j 10:36	16° \mathbb{H} 11'09	6.21248 AU
minimum elong	-5786 Oct 25 j 19:38	21° \mathbb{H} 20'11	0°46'22	morning rise	-5780 May 05 j 05:25	19° \mathbb{H} 03'32	
max. Earth dist.	-5786 Oct 25 j 02:28	21° \mathbb{H} 10'11	6.16354 AU		-5780 Jun 27 j 03:11	0° \mathbb{Y}	
morning rise	-5786 Nov 07 j 11:27	24° \mathbb{H} 16'56		retrograde	-5780 Sep 06 j 16:18	7° \mathbb{Y} 17'04	
	-5786 Dec 02 j 19:25	0° $\underline{\Omega}$		opposition	-5780 Nov 05 j 00:16	2° \mathbb{Y} 16'56	-0°45'48
retrograde	-5785 Mar 15 j 19:11	13° $\underline{\Omega}$ 23'20		min. Earth dist.	-5780 Nov 04 j 17:53	2° \mathbb{Y} 19'05	4.26186 AU
opposition	-5785 May 15 j 21:00	8° $\underline{\Omega}$ 26'19	0°32'58		-5780 Nov 22 j 15:32	30° $\mathbb{R}\mathbb{H}$	
min. Earth dist.	-5785 May 16 j 01:17	8° $\underline{\Omega}$ 24'56	4.11424 AU	direct	-5779 Jan 04 j 09:53	27° \mathbb{H} 13'26	
direct	-5785 Jul 14 j 19:45	3° $\underline{\Omega}$ 33'00			-5779 Feb 16 j 15:09	0° \mathbb{Y}	
desc. node	-5785 Nov 01 j 16:38	19° $\underline{\Omega}$ 05'18		evening set	-5779 May 12 j 09:22	15° \mathbb{Y} 37'05	
evening set	-5785 Nov 15 j 16:07	22° $\underline{\Omega}$ 20'16					
				conjunction	-5779 May 25 j 23:04	18° \mathbb{Y} 37'03	-0°06'55
conjunction	-5785 Nov 28 j 13:34	25° $\underline{\Omega}$ 23'08	-0°03'36	minimum elong	-5779 May 25 j 23:05	18° \mathbb{Y} 37'03	0°06'51
minimum elong	-5785 Nov 28 j 13:34	25° $\underline{\Omega}$ 23'08	0°03'44	behind sun begin	-5779 May 25 j 15:26	18° \mathbb{Y} 32'50	
behind sun begin	-5785 Nov 28 j 05:32	25° $\underline{\Omega}$ 18'24		behind sun end	-5779 May 26 j 06:45	18° \mathbb{Y} 41'16	
behind sun end	-5785 Nov 28 j 21:36	25° $\underline{\Omega}$ 27'52		max. Earth dist.	-5779 May 25 j 20:35	18° \mathbb{Y} 35'41	6.30626 AU
max. Earth dist.	-5785 Nov 28 j 20:18	25° $\underline{\Omega}$ 27'05	6.07280 AU	morning rise	-5779 Jun 08 j 10:13	21° \mathbb{Y} 35'36	
morning rise	-5785 Dec 11 j 13:47	28° $\underline{\Omega}$ 27'36			-5779 Jul 18 j 16:11	0° \mathbb{B}	
	-5785 Dec 18 j 03:40	0° \mathbb{M}		asc. node	-5779 Jul 21 j 07:24	0° \mathbb{B} 30'02	
	-5784 Mar 04 j 04:39	15° \mathbb{M}		retrograde	-5779 Oct 08 j 01:55	9° \mathbb{B} 04'10	
retrograde	-5784 Apr 20 j 14:21	18° \mathbb{M} 21'00		opposition	-5779 Dec 06 j 17:28	4° \mathbb{B} 07'55	0°24'38
	-5784 Jun 07 j 10:30	15° $\mathbb{R}\mathbb{M}$		min. Earth dist.	-5779 Dec 07 j 01:56	4° \mathbb{B} 05'08	4.34159 AU
opposition	-5784 Jun 20 j 07:07	13° \mathbb{M} 19'59	-0°45'21		-5778 Jan 12 j 16:34	30° $\mathbb{R}\mathbb{Y}$	
min. Earth dist.	-5784 Jun 19 j 17:17	13° \mathbb{M} 24'33	4.04249 AU	direct	-5778 Feb 06 j 07:46	29° \mathbb{Y} 04'00	
direct	-5784 Aug 17 j 23:19	8° \mathbb{M} 26'57			-5778 Mar 03 j 06:24	0° \mathbb{B}	
	-5784 Oct 22 j 17:37	15° \mathbb{M}			-5778 Jun 04 j 10:05	15° \mathbb{B}	
evening set	-5784 Dec 19 j 23:07	27° \mathbb{M} 32'51		evening set	-5778 Jun 14 j 10:32	17° \mathbb{B} 10'07	
	-5784 Dec 30 j 07:09	0° \mathbb{Z}					
				conjunction	-5778 Jun 27 j 15:46	20° \mathbb{B} 04'08	0°39'58
conjunction	-5783 Jan 02 j 04:16	0° \mathbb{Z} 41'07	-0°53'16	minimum elong	-5778 Jun 27 j 15:42	20° \mathbb{B} 04'06	0°40'13
minimum elong	-5783 Jan 02 j 04:12	0° \mathbb{Z} 41'05	0°53'34	max. Earth dist.	-5778 Jun 26 j 16:54	19° \mathbb{B} 51'33	6.36594 AU
max. Earth dist.	-5783 Jan 03 j 10:01	0° \mathbb{Z} 58'49	6.02613 AU	morning rise	-5778 Jul 10 j 17:26	22° \mathbb{B} 56'24	
morning rise	-5783 Jan 15 j 12:54	3° \mathbb{Z} 51'13			-5778 Aug 13 j 08:00	0° \mathbb{I}	
retrograde	-5783 May 27 j 14:23	24° \mathbb{Z} 05'34		retrograde	-5778 Nov 08 j 02:08	10° \mathbb{I} 02'40	
opposition	-5783 Jul 26 j 17:49	19° \mathbb{Z} 01'17	-1°48'13	opposition	-5777 Jan 07 j 04:28	5° \mathbb{I} 09'35	1°26'12
min. Earth dist.	-5783 Jul 25 j 16:14	19° \mathbb{Z} 09'56	4.02693 AU	min. Earth dist.	-5777 Jan 08 j 01:38	5° \mathbb{I} 02'44	4.37818 AU
direct	-5783 Sep 22 j 19:28	14° \mathbb{Z} 06'17		direct	-5777 Mar 10 j 14:29	0° \mathbb{I} 06'48	
	-5782 Jan 11 j 05:59	0° \mathbb{Z}		evening set	-5777 Jul 16 j 06:36	18° \mathbb{I} 04'49	
evening set	-5782 Jan 25 j 15:36	3° \mathbb{Z} 20'10		max. Earth dist.	-5777 Jul 27 j 12:31	20° \mathbb{I} 33'33	6.37539 AU
conjunction	-5782 Feb 08 j 03:46	6° \mathbb{Z} 30'38	-1°23'30	conjunction	-5777 Jul 29 j 02:13	20° \mathbb{I} 54'24	1°14'43
minimum elong	-5782 Feb 08 j 03:44	6° \mathbb{Z} 30'37	1°23'51	minimum elong	-5777 Jul 29 j 02:09	20° \mathbb{I} 54'22	1°15'03
max. Earth dist.	-5782 Feb 10 j 00:01	6° \mathbb{Z} 56'40	6.04153 AU	morning rise	-5777 Aug 10 j 18:52	23° \mathbb{I} 42'31	
morning rise	-5782 Feb 21 j 18:38	9° \mathbb{Z} 42'27			-5777 Sep 09 j 09:00	0° \mathbb{E}	
retrograde	-5782 Jul 02 j 16:44	29° \mathbb{Z} 39'52		retrograde	-5777 Dec 09 j 12:00	10° \mathbb{E} 51'54	
min. Earth dist.	-5782 Aug 30 j 03:13	24° \mathbb{Z} 44'00	4.07279 AU	opposition	-5776 Feb 08 j 02:04	6° \mathbb{E} 00'23	2°03'17
opposition	-5782 Aug 31 j 06:38	24° \mathbb{Z} 34'38	-2°10'00	min. Earth dist.	-5776 Feb 09 j 06:40	5° \mathbb{E} 51'14	4.36140 AU
direct	-5782 Oct 28 j 12:27	19° \mathbb{Z} 36'22		direct	-5776 Apr 10 j 17:08	0° \mathbb{E} 59'45	
	-5781 Jan 22 j 22:04	0° \approx		evening set	-5776 Aug 15 j 11:13	19° \mathbb{E} 00'02	
evening set	-5781 Mar 03 j 15:16	8° \approx 42'35		max. Earth dist.	-5776 Aug 26 j 08:57	21° \mathbb{E} 26'19	6.33255 AU
conjunction	-5781 Mar 17 j 08:06	11° \approx 51'54	-1°22'33	conjunction	-5776 Aug 28 j 00:18	21° \mathbb{E} 48'23	1°28'19
minimum elong	-5781 Mar 17 j 08:09	11° \approx 51'56	1°22'49	minimum elong	-5776 Aug 28 j 00:18	21° \mathbb{E} 48'23	1°28'39
max. Earth dist.	-5781 Mar 18 j 23:27	12° \approx 14'35	6.11270 AU	morning rise	-5776 Sep 09 j 11:15	24° \mathbb{E} 35'53	
	-5781 Mar 30 j 23:25	15° \approx			-5776 Oct 04 j 07:32	0° Ω	

Attention, astronomical year style is used: The year -5775 in astronomical counting style is the year 5776 BCE in historical counting style.

retrograde	-5775 Jan 09 j 23:58	12°Ω12'00		direct	-5770 Nov 02 j 10:47	24°♄37'17	
opposition	-5775 Mar 12 j 00:50	7°Ω20'11	2°05'34		-5769 Jan 01 j 00:08	0°♄	
min. Earth dist.	-5775 Mar 13 j 03:41	7°Ω11'40	4.29574 AU	evening set	-5769 Mar 08 j 17:53	13°♄40'46	
direct	-5775 May 13 j 03:43	2°Ω22'29			-5769 Mar 14 j 12:21	15°♄	
	-5775 Aug 21 j 13:04	15°Ω					
evening set	-5775 Sep 15 j 17:53	20°Ω33'48		conjunction	-5769 Mar 22 j 11:14	16°♄49'38	-1°19'54
max. Earth dist.	-5775 Sep 26 j 21:19	23°Ω06'29	6.24920 AU	minimum elong	-5769 Mar 22 j 11:17	16°♄49'40	1°20'10
				max. Earth dist.	-5769 Mar 24 j 01:09	17°♄11'25	6.12706 AU
conjunction	-5775 Sep 28 j 05:20	23°Ω24'49	1°16'10	morning rise	-5769 Apr 05 j 05:27	19°♄58'47	
minimum elong	-5775 Sep 28 j 05:23	23°Ω24'50	1°16'24		-5769 May 22 j 00:18	0°♄	
morning rise	-5775 Oct 10 j 16:40	26°Ω15'54		retrograde	-5769 Aug 10 j 16:19	9°♄00'39	
	-5775 Oct 27 j 08:15	0°♄		opposition	-5769 Oct 08 j 23:31	3°♄57'29	-1°37'57
retrograde	-5774 Feb 13 j 04:40	14°♄36'57		min. Earth dist.	-5769 Oct 08 j 05:41	4°♄03'33	4.17637 AU
opposition	-5774 Apr 15 j 09:01	9°♄42'57	1°29'28		-5769 Nov 11 j 17:34	30°♄	
min. Earth dist.	-5774 Apr 16 j 02:28	9°♄37'22	4.19950 AU	direct	-5769 Dec 07 j 07:04	28°♄55'38	
direct	-5774 Jun 15 j 11:11	4°♄48'00			-5768 Jan 02 j 03:23	0°♄	
evening set	-5774 Oct 17 j 21:29	23°♄17'03		evening set	-5768 Apr 12 j 16:13	17°♄38'44	
conjunction	-5774 Oct 30 j 12:57	26°♄13'57	0°39'49	conjunction	-5768 Apr 26 j 09:57	20°♄43'37	-0°47'01
minimum elong	-5774 Oct 30 j 13:00	26°♄13'59	0°39'52	minimum elong	-5768 Apr 26 j 10:01	20°♄43'39	0°47'05
max. Earth dist.	-5774 Oct 29 j 23:43	26°♄06'14	6.14925 AU	max. Earth dist.	-5768 Apr 27 j 04:21	20°♄53'57	6.22657 AU
morning rise	-5774 Nov 12 j 05:50	29°♄11'50		morning rise	-5768 May 10 j 02:34	23°♄47'44	
	-5774 Nov 15 j 16:59	0°♄			-5768 Jun 07 j 18:56	0°♄	
retrograde	-5773 Mar 20 j 23:18	18°♄25'23		retrograde	-5768 Sep 11 j 01:39	11°♄54'08	
opposition	-5773 May 21 j 00:48	13°♄27'51	0°21'59	opposition	-5768 Nov 09 j 11:17	6°♄54'33	-0°36'09
min. Earth dist.	-5773 May 21 j 01:34	13°♄27'36	4.10281 AU	min. Earth dist.	-5768 Nov 09 j 06:37	6°♄56'07	4.27413 AU
direct	-5773 Jul 19 j 17:49	8°♄34'46		direct	-5767 Jan 09 j 00:43	1°♄50'53	
desc. node	-5773 Sep 10 j 02:56	12°♄47'29		evening set	-5767 May 17 j 02:04	20°♄12'00	
evening set	-5773 Nov 20 j 14:27	27°♄24'25					
	-5773 Dec 01 j 13:34	0°♄		conjunction	-5767 May 30 j 14:49	23°♄11'10	-0°00'03
				minimum elong	-5767 May 30 j 14:49	23°♄11'10	0°00'04
conjunction	-5773 Dec 03 j 12:51	0°♄28'03	-0°11'09	behind sun begin	-5767 May 30 j 07:13	23°♄07'00	
minimum elong	-5773 Dec 03 j 12:50	0°♄28'02	0°11'18	behind sun end	-5767 May 30 j 22:25	23°♄15'21	
behind sun begin	-5773 Dec 03 j 06:50	0°♄24'30		max. Earth dist.	-5767 May 30 j 09:09	23°♄08'04	6.31592 AU
behind sun end	-5773 Dec 03 j 18:50	0°♄31'35		asc. node	-5767 May 31 j 01:41	23°♄17'10	
max. Earth dist.	-5773 Dec 03 j 22:55	0°♄34'00	6.06510 AU	morning rise	-5767 Jun 13 j 00:45	26°♄08'51	
morning rise	-5773 Dec 16 j 14:17	3°♄33'23			-5767 Jun 30 j 20:24	0°♄	
	-5772 Feb 07 j 01:32	15°♄		retrograde	-5767 Oct 12 j 10:53	13°♄33'20	
retrograde	-5772 Apr 25 j 20:00	23°♄30'44		opposition	-5767 Dec 11 j 03:01	8°♄37'38	0°34'11
opposition	-5772 Jun 25 j 11:44	18°♄29'09	-0°55'56	min. Earth dist.	-5767 Dec 11 j 13:59	8°♄34'02	4.34799 AU
min. Earth dist.	-5772 Jun 24 j 19:44	18°♄34'27	4.03918 AU	direct	-5766 Feb 10 j 21:26	3°♄33'48	
	-5772 Jul 24 j 21:01	15°♄			-5766 May 18 j 09:20	15°♄	
direct	-5772 Aug 23 j 01:43	13°♄35'57		evening set	-5766 Jun 18 j 23:12	21°♄38'49	
	-5772 Sep 21 j 02:30	15°♄		max. Earth dist.	-5766 Jul 01 j 00:41	24°♄17'39	6.36842 AU
	-5772 Dec 13 j 12:01	0°♄					
evening set	-5772 Dec 25 j 02:01	2°♄42'44		conjunction	-5766 Jul 02 j 03:04	24°♄32'10	0°45'49
				minimum elong	-5766 Jul 02 j 03:01	24°♄32'08	0°46'04
conjunction	-5771 Jan 07 j 08:16	5°♄51'23	-0°59'08	morning rise	-5766 Jul 15 j 03:31	27°♄23'49	
minimum elong	-5771 Jan 07 j 08:12	5°♄51'21	0°59'27		-5766 Jul 27 j 03:50	0°♄	
max. Earth dist.	-5771 Jan 08 j 17:58	6°♄11'24	6.02731 AU	retrograde	-5766 Nov 12 j 11:10	14°♄29'40	
morning rise	-5771 Jan 20 j 17:46	9°♄01'48		opposition	-5765 Jan 11 j 15:05	9°♄36'53	1°33'11
retrograde	-5771 Jun 01 j 18:59	29°♄14'56		min. Earth dist.	-5765 Jan 12 j 13:36	9°♄29'36	4.37698 AU
opposition	-5771 Jul 31 j 19:40	24°♄10'26	-1°54'08	direct	-5765 Mar 15 j 02:21	4°♄34'17	
min. Earth dist.	-5771 Jul 30 j 17:33	24°♄19'16	4.03272 AU	evening set	-5765 Jul 20 j 16:49	22°♄32'49	
direct	-5771 Sep 27 j 21:05	19°♄15'05		max. Earth dist.	-5765 Jul 31 j 22:06	25°♄01'26	6.37055 AU
	-5771 Dec 24 j 00:56	0°♄					
evening set	-5770 Jan 30 j 20:25	8°♄27'49		conjunction	-5765 Aug 02 j 11:24	25°♄22'06	1°18'04
				minimum elong	-5765 Aug 02 j 11:21	25°♄22'04	1°18'25
conjunction	-5770 Feb 13 j 09:09	11°♄38'08	-1°25'20	morning rise	-5765 Aug 15 j 02:53	28°♄09'58	
minimum elong	-5770 Feb 13 j 09:07	11°♄38'07	1°25'41		-5765 Aug 23 j 12:02	0°♄	
max. Earth dist.	-5770 Feb 15 j 04:14	12°♄03'25	6.05103 AU	retrograde	-5765 Dec 14 j 00:16	15°♄22'18	
morning rise	-5770 Feb 27 j 00:45	14°♄49'45		opposition	-5764 Feb 12 j 16:09	10°♄30'53	2°05'52
	-5770 May 12 j 13:56	0°♄		min. Earth dist.	-5764 Feb 13 j 20:39	10°♄21'48	4.35353 AU
retrograde	-5770 Jul 07 j 12:55	4°♄41'10		direct	-5764 Apr 15 j 06:11	5°♄30'42	
	-5770 Sep 02 j 04:53	30°♄		evening set	-5764 Aug 19 j 21:12	23°♄32'24	
min. Earth dist.	-5770 Sep 03 j 23:47	29°♄45'21	4.08516 AU	max. Earth dist.	-5764 Aug 30 j 17:54	25°♄58'35	6.32225 AU
opposition	-5770 Sep 05 j 03:02	29°♄36'02	-2°09'07				

Attention, astronomical year style is used: The year -5764 in astronomical counting style is the year 5765 BCE in historical counting style.

conjunction	-5764 Sep 01 j 09:34	26° Ω 20'54	1°28'11	retrograde	-5758 Jul 12 j 09:03	9° \approx 34'52	
minimum elong	-5764 Sep 01 j 09:35	26° Ω 20'54	1°28'30	opposition	-5758 Sep 09 j 20:51	4° \approx 29'55	-2°07'21
morning rise	-5764 Sep 13 j 20:23	29° Ω 08'42		min. Earth dist.	-5758 Sep 08 j 19:32	4° \approx 38'34	4.09529 AU
	-5764 Sep 17 j 16:21	0° Ω			-5758 Oct 21 j 09:02	30° \approx 3	
	-5764 Dec 10 j 21:34	15° Ω		direct	-5758 Nov 07 j 07:22	29° \approx 30'44	
retrograde	-5763 Jan 14 j 18:27	16° Ω 50'17			-5758 Nov 24 j 07:50	0° \approx	
	-5763 Feb 18 j 23:06	15° \approx 8			-5757 Feb 26 j 00:47	15° \approx	
opposition	-5763 Mar 16 j 19:37	11° Ω 58'14	2°02'44	evening set	-5757 Mar 13 j 18:03	18° \approx 32'19	
min. Earth dist.	-5763 Mar 17 j 21:33	11° Ω 49'59	4.28379 AU				
direct	-5763 May 17 j 20:00	7° Ω 00'55		conjunction	-5757 Mar 27 j 11:45	21° \approx 40'53	-1°16'45
	-5763 Aug 02 j 18:16	15° Ω		minimum elong	-5757 Mar 27 j 11:49	21° \approx 40'55	1°17'00
evening set	-5763 Sep 20 j 05:36	25° Ω 14'06		max. Earth dist.	-5757 Mar 28 j 23:19	22° \approx 01'15	6.13831 AU
				morning rise	-5757 Apr 10 j 06:09	24° \approx 49'36	
conjunction	-5763 Oct 02 j 17:27	28° Ω 05'45	1°12'22		-5757 May 03 j 12:51	0° \approx	
minimum elong	-5763 Oct 02 j 17:30	28° Ω 05'47	1°12'35	retrograde	-5757 Aug 15 j 05:14	13° \approx 44'37	
max. Earth dist.	-5763 Oct 01 j 13:02	27° Ω 49'26	6.23686 AU	opposition	-5757 Oct 13 j 12:57	8° \approx 41'55	-1°30'46
	-5763 Oct 11 j 00:30	0° \approx		min. Earth dist.	-5757 Oct 12 j 20:02	8° \approx 47'41	4.18768 AU
morning rise	-5763 Oct 15 j 05:07	0° \approx 57'32		direct	-5757 Dec 11 j 23:16	3° \approx 39'47	
retrograde	-5762 Feb 18 j 02:53	19° \approx 24'59		evening set	-5756 Apr 17 j 12:52	22° \approx 20'48	
opposition	-5762 Apr 20 j 07:58	14° \approx 30'32	1°21'30				
min. Earth dist.	-5762 Apr 20 j 22:49	14° \approx 25'48	4.18765 AU	conjunction	-5756 May 01 j 06:15	25° \approx 25'07	-0°40'59
direct	-5762 Jun 20 j 05:22	9° \approx 35'58		minimum elong	-5756 May 01 j 06:19	25° \approx 25'09	0°41'03
evening set	-5762 Oct 22 j 12:57	28° \approx 06'46		max. Earth dist.	-5756 May 01 j 20:52	25° \approx 33'18	6.23736 AU
	-5762 Oct 30 j 15:02	0° \approx		morning rise	-5756 May 14 j 22:18	28° \approx 28'33	
					-5756 May 21 j 19:31	0° \approx	
conjunction	-5762 Nov 04 j 05:03	1° \approx 04'26	0°33'13	retrograde	-5756 Sep 15 j 13:18	16° \approx 29'14	
minimum elong	-5762 Nov 04 j 05:06	1° \approx 04'27	0°33'14	opposition	-5756 Nov 13 j 22:06	11° \approx 30'15	-0°26'23
max. Earth dist.	-5762 Nov 03 j 18:28	0° \approx 58'14	6.13893 AU	min. Earth dist.	-5756 Nov 13 j 20:19	11° \approx 30'51	4.28342 AU
morning rise	-5762 Nov 16 j 23:04	4° \approx 03'13		direct	-5755 Jan 13 j 16:28	6° \approx 26'30	
retrograde	-5761 Mar 26 j 01:24	23° \approx 22'30		asc. node	-5755 Apr 09 j 18:39	16° \approx 01'56	
opposition	-5761 May 26 j 02:28	18° \approx 24'19	0°11'05	evening set	-5755 May 21 j 18:25	24° \approx 45'59	
min. Earth dist.	-5761 May 26 j 00:40	18° \approx 24'54	4.09472 AU				
desc. node	-5761 Jul 21 j 04:07	13° \approx 32'30		conjunction	-5755 Jun 04 j 06:16	27° \approx 44'30	0°06'47
direct	-5761 Jul 24 j 16:05	13° \approx 31'16		minimum elong	-5755 Jun 04 j 06:15	27° \approx 44'29	0°06'56
	-5761 Nov 15 j 07:00	0° \approx		behind sun begin	-5755 Jun 03 j 22:39	27° \approx 40'18	
evening set	-5761 Nov 25 j 10:24	2° \approx 22'15		behind sun end	-5755 Jun 04 j 13:51	27° \approx 48'40	
				max. Earth dist.	-5755 Jun 03 j 22:02	27° \approx 39'58	6.32313 AU
conjunction	-5761 Dec 08 j 09:56	5° \approx 26'35	-0°18'27		-5755 Jun 14 j 11:43	0° \approx	
minimum elong	-5761 Dec 08 j 09:55	5° \approx 26'34	0°18'37	morning rise	-5755 Jun 17 j 15:02	0° \approx 41'24	
max. Earth dist.	-5761 Dec 09 j 00:37	5° \approx 35'17	6.06000 AU		-5755 Sep 02 j 04:31	15° \approx	
morning rise	-5761 Dec 21 j 12:22	8° \approx 32'35		retrograde	-5755 Oct 16 j 19:00	18° \approx 02'43	
	-5760 Jan 18 j 18:27	15° \approx			-5755 Nov 30 j 21:04	15° \approx 8	
retrograde	-5760 Apr 30 j 23:32	28° \approx 32'42		opposition	-5755 Dec 15 j 13:06	13° \approx 07'30	0°43'32
opposition	-5760 Jun 30 j 13:08	23° \approx 30'39	-1°05'49	min. Earth dist.	-5755 Dec 16 j 00:55	13° \approx 03'38	4.35288 AU
min. Earth dist.	-5760 Jun 29 j 19:46	23° \approx 36'25	4.03774 AU	direct	-5754 Feb 15 j 09:19	8° \approx 03'48	
direct	-5760 Aug 28 j 00:54	18° \approx 37'16			-5754 Apr 28 j 19:41	15° \approx	
	-5760 Nov 26 j 00:22	0° \approx		evening set	-5754 Jun 23 j 11:45	26° \approx 07'58	
evening set	-5760 Dec 30 j 02:23	7° \approx 44'31		max. Earth dist.	-5754 Jul 05 j 10:29	28° \approx 45'22	6.37061 AU
conjunction	-5759 Jan 12 j 09:22	10° \approx 53'25	-1°04'23	conjunction	-5754 Jul 06 j 14:15	29° \approx 00'40	0°51'24
minimum elong	-5759 Jan 12 j 09:18	10° \approx 53'22	1°04'42	minimum elong	-5754 Jul 06 j 14:12	29° \approx 00'38	0°51'40
max. Earth dist.	-5759 Jan 13 j 19:27	11° \approx 13'37	6.02926 AU		-5754 Jul 11 j 01:57	0° \approx	
morning rise	-5759 Jan 25 j 19:56	14° \approx 04'07		morning rise	-5754 Jul 19 j 13:21	1° \approx 51'40	
	-5759 Apr 14 j 07:48	0° \approx		retrograde	-5754 Nov 16 j 21:39	18° \approx 57'18	
retrograde	-5759 Jun 06 j 17:34	4° \approx 15'39		opposition	-5753 Jan 16 j 02:34	14° \approx 04'50	1°39'39
	-5759 Jul 30 j 16:21	30° \approx 8		min. Earth dist.	-5753 Jan 17 j 02:26	13° \approx 57'09	4.37643 AU
opposition	-5759 Aug 05 j 17:44	29° \approx 10'54	-1°59'01	direct	-5753 Mar 19 j 15:38	9° \approx 02'35	
min. Earth dist.	-5759 Aug 04 j 14:33	29° \approx 20'07	4.03807 AU	evening set	-5753 Jul 25 j 02:46	27° \approx 00'56	
direct	-5759 Oct 02 j 18:34	24° \approx 15'05		max. Earth dist.	-5753 Aug 05 j 05:25	29° \approx 28'22	6.36700 AU
	-5759 Dec 02 j 21:38	0° \approx					
evening set	-5758 Feb 04 j 22:13	13° \approx 27'07		conjunction	-5753 Aug 06 j 20:12	29° \approx 49'53	1°20'57
				minimum elong	-5753 Aug 06 j 20:09	29° \approx 49'51	1°21'18
conjunction	-5758 Feb 18 j 11:51	16° \approx 37'24	-1°26'30		-5753 Aug 07 j 14:27	0° \approx	
minimum elong	-5758 Feb 18 j 11:51	16° \approx 37'24	1°26'50	morning rise	-5753 Aug 19 j 10:49	2° \approx 37'29	
max. Earth dist.	-5758 Feb 20 j 07:20	17° \approx 02'52	6.05924 AU	retrograde	-5753 Dec 18 j 12:43	19° \approx 52'24	
morning rise	-5758 Mar 04 j 03:53	19° \approx 348'50		opposition	-5752 Feb 17 j 06:17	15° \approx 00'58	2°07'42
	-5758 Apr 19 j 18:57	0° \approx		min. Earth dist.	-5752 Feb 18 j 10:28	14° \approx 51'59	4.34723 AU

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 14

Attention, astronomical year style is used: The year -5752 in astronomical counting style is the year 5753 BCE in historical counting style.

direct	-5752 Apr 19 j 18:48	10°♄01'08		conjunction	-5746 Feb 23 j 17:29	21°♄44'05	-1°27'02
evening set	-5752 Aug 24 j 06:18	28°♄03'34		minimum elong	-5746 Feb 23 j 17:29	21°♄44'05	1°27'21
	-5752 Sep 01 j 21:44	0°♄		max. Earth dist.	-5746 Feb 25 j 12:47	22°♄09'22	6.06521 AU
max. Earth dist.	-5752 Sep 04 j 04:57	0°♄31'08	6.31358 AU	morning rise	-5746 Mar 09 j 10:12	24°♄55'30	
					-5746 Mar 31 j 19:12	0°♄	
conjunction	-5752 Sep 05 j 18:20	0°♄52'13	1°27'31	retrograde	-5746 Jul 17 j 05:54	14°♄36'28	
minimum elong	-5752 Sep 05 j 18:21	0°♄52'13	1°27'50	opposition	-5746 Sep 14 j 17:10	9°♄31'42	-2°04'38
morning rise	-5752 Sep 18 j 04:44	3°♄40'14		min. Earth dist.	-5746 Sep 13 j 15:38	9°♄40'26	4.10424 AU
	-5752 Nov 12 j 13:25	15°♄		direct	-5746 Nov 12 j 05:13	4°♄32'04	
retrograde	-5751 Jan 19 j 11:29	21°♄26'48			-5745 Feb 07 j 15:31	15°♄	
opposition	-5751 Mar 21 j 13:35	16°♄34'32	1°59'08	evening set	-5745 Mar 18 j 21:49	23°♄32'09	
min. Earth dist.	-5751 Mar 22 j 14:39	16°♄26'35	4.27302 AU				
	-5751 Apr 03 j 04:29	15°♄♄		conjunction	-5745 Apr 01 j 15:46	26°♄40'21	-1°12'58
direct	-5751 May 22 j 11:03	11°♄37'39		minimum elong	-5745 Apr 01 j 15:50	26°♄40'24	1°13'11
	-5751 Jul 09 j 13:52	15°♄		max. Earth dist.	-5745 Apr 03 j 00:29	26°♄59'03	6.14967 AU
evening set	-5751 Sep 24 j 16:14	29°♄52'24		morning rise	-5745 Apr 15 j 10:13	29°♄48'35	
	-5751 Sep 25 j 05:32	0°♄			-5745 Apr 16 j 06:24	0°♄	
max. Earth dist.	-5751 Oct 06 j 00:33	2°♄28'42	6.22476 AU	retrograde	-5745 Aug 19 j 22:50	18°♄36'23	
				opposition	-5745 Oct 18 j 05:20	13°♄34'09	-1°22'47
conjunction	-5751 Oct 07 j 04:14	2°♄44'38	1°08'07	min. Earth dist.	-5745 Oct 17 j 14:43	13°♄39'06	4.20035 AU
minimum elong	-5751 Oct 07 j 04:18	2°♄44'40	1°08'18	direct	-5745 Dec 16 j 20:47	8°♄31'42	
morning rise	-5751 Oct 19 j 16:40	5°♄37'14		evening set	-5744 Apr 22 j 12:12	27°♄09'51	
retrograde	-5750 Feb 23 j 00:54	24°♄11'25			-5744 May 05 j 05:12	0°♄	
opposition	-5750 Apr 25 j 06:05	19°♄16'27	1°13'01				
min. Earth dist.	-5750 Apr 25 j 18:47	19°♄12'23	4.17478 AU	conjunction	-5744 May 06 j 05:17	0°♄13'28	-0°34'33
direct	-5750 Jun 24 j 23:05	14°♄22'08		minimum elong	-5744 May 06 j 05:20	0°♄13'30	0°34'36
	-5750 Oct 14 j 11:14	0°♄		max. Earth dist.	-5744 May 06 j 18:32	0°♄20'52	6.25083 AU
evening set	-5750 Oct 27 j 03:40	2°♄55'24		morning rise	-5744 May 19 j 20:29	3°♄16'01	
				retrograde	-5744 Sep 20 j 00:24	21°♄09'44	
conjunction	-5750 Nov 08 j 20:49	5°♄54'00	0°26'24	opposition	-5744 Nov 18 j 11:03	16°♄11'18	-0°16'18
minimum elong	-5750 Nov 08 j 20:51	5°♄54'01	0°26'24	min. Earth dist.	-5744 Nov 18 j 09:47	16°♄11'43	4.29681 AU
max. Earth dist.	-5750 Nov 08 j 14:24	5°♄50'14	6.12661 AU	direct	-5743 Jan 18 j 08:27	11°♄07'30	
morning rise	-5750 Nov 21 j 15:46	8°♄53'47		asc. node	-5743 Feb 16 j 21:32	12°♄26'44	
retrograde	-5749 Mar 31 j 04:06	28°♄19'39		evening set	-5743 May 26 j 12:08	29°♄23'32	
opposition	-5749 May 31 j 03:38	23°♄20'57	0°00'05		-5743 May 29 j 06:40	0°♄	
min. Earth dist.	-5749 May 31 j 00:15	23°♄22'03	4.08396 AU				
desc. node	-5749 May 31 j 13:44	23°♄17'39		conjunction	-5743 Jun 08 j 22:37	2°♄21'00	0°13'34
direct	-5749 Jul 29 j 13:33	18°♄27'59		minimum elong	-5743 Jun 08 j 22:35	2°♄20'59	0°13'44
	-5749 Oct 28 j 21:56	0°♄		behind sun begin	-5743 Jun 08 j 18:21	2°♄18'40	
evening set	-5749 Nov 30 j 07:18	7°♄21'45		behind sun end	-5743 Jun 09 j 02:50	2°♄23'19	
				max. Earth dist.	-5743 Jun 08 j 11:12	2°♄14'43	6.33564 AU
conjunction	-5749 Dec 13 j 07:44	10°♄26'52	-0°25'38	morning rise	-5743 Jun 22 j 06:08	5°♄16'51	
minimum elong	-5749 Dec 13 j 07:42	10°♄26'50	0°25'51		-5743 Aug 08 j 18:12	15°♄	
max. Earth dist.	-5749 Dec 13 j 23:53	10°♄36'26	6.05163 AU	retrograde	-5743 Oct 21 j 05:10	22°♄33'11	
morning rise	-5749 Dec 26 j 11:32	13°♄33'47		opposition	-5743 Dec 20 j 00:01	17°♄38'24	0°52'35
	-5748 Jan 01 j 14:33	15°♄		min. Earth dist.	-5743 Dec 20 j 14:10	17°♄33'47	4.36373 AU
	-5748 Mar 17 j 18:37	0°♄			-5742 Jan 10 j 06:46	15°♄♄	
retrograde	-5748 May 06 j 02:37	3°♄37'56		direct	-5742 Feb 20 j 00:51	12°♄34'49	
	-5748 Jun 24 j 21:52	30°♄♄			-5742 Apr 02 j 01:13	15°♄	
opposition	-5748 Jul 05 j 15:00	28°♄35'22	-1°15'19		-5742 Jun 25 j 06:00	0°♄	
min. Earth dist.	-5748 Jul 04 j 19:15	28°♄41'57	4.03273 AU	evening set	-5742 Jun 27 j 23:40	0°♄35'45	
direct	-5748 Sep 01 j 23:31	23°♄41'42		max. Earth dist.	-5742 Jul 09 j 19:44	3°♄11'32	6.37884 AU
	-5748 Nov 05 j 05:00	0°♄					
evening set	-5747 Jan 04 j 04:35	12°♄51'04		conjunction	-5742 Jul 11 j 00:49	3°♄27'31	0°56'36
				minimum elong	-5742 Jul 11 j 00:45	3°♄27'29	0°56'54
conjunction	-5747 Jan 17 j 12:45	16°♄00'28	-1°09'14	morning rise	-5742 Jul 23 j 22:25	6°♄17'36	
minimum elong	-5747 Jan 17 j 12:41	16°♄00'26	1°09'33	retrograde	-5742 Nov 21 j 04:25	23°♄21'02	
max. Earth dist.	-5747 Jan 19 j 01:46	16°♄22'25	6.02793 AU	opposition	-5741 Jan 20 j 12:36	18°♄28'46	1°45'19
morning rise	-5747 Jan 31 j 00:07	19°♄11'35		min. Earth dist.	-5741 Jan 21 j 12:41	18°♄21'01	4.38171 AU
	-5747 Mar 21 j 02:45	0°♄		direct	-5741 Mar 24 j 02:10	13°♄26'45	
retrograde	-5747 Jun 11 j 20:40	9°♄22'38			-5741 Jul 23 j 02:41	0°♄	
opposition	-5747 Aug 10 j 18:00	4°♄17'40	-2°03'08	evening set	-5741 Jul 29 j 10:17	1°♄22'57	
min. Earth dist.	-5747 Aug 09 j 15:22	4°♄26'43	4.04059 AU	max. Earth dist.	-5741 Aug 09 j 11:42	3°♄49'45	6.36875 AU
	-5747 Sep 18 j 10:14	30°♄♄					
direct	-5747 Oct 07 j 19:22	29°♄21'24		conjunction	-5741 Aug 11 j 02:34	4°♄11'20	1°23'16
	-5747 Oct 27 j 05:09	0°♄		minimum elong	-5741 Aug 11 j 02:32	4°♄11'18	1°23'37
evening set	-5746 Feb 10 j 03:06	18°♄33'45		morning rise	-5741 Aug 23 j 16:10	6°♄58'27	

Attention, astronomical year style is used: The year -5741 in astronomical counting style is the year 5742 BCE in historical counting style.

retrograde	-5741 Dec 22 j 22:45	24° \mathfrak{D} 14'23		evening set	-5734 Feb 15 j 08:32	23° \mathfrak{Z} 40'34	
opposition	-5740 Feb 21 j 17:37	19° \mathfrak{D} 22'59	2°08'38				
min. Earth dist.	-5740 Feb 22 j 22:55	19° \mathfrak{D} 13'40	4.34520 AU	conjunction	-5734 Feb 28 j 23:41	26° \mathfrak{Z} 51'01	-1°26'50
direct	-5740 Apr 24 j 06:32	14° \mathfrak{D} 23'29		minimum elong	-5734 Feb 28 j 23:42	26° \mathfrak{Z} 51'02	1°27'09
	-5740 Aug 17 j 13:45	0° Ω		max. Earth dist.	-5734 Mar 02 j 18:28	27° \mathfrak{Z} 15'58	6.07053 AU
evening set	-5740 Aug 28 j 11:44	2° Ω 25'17		morning rise	-5734 Mar 14 j 17:02	0° \approx 02'25	
max. Earth dist.	-5740 Sep 08 j 08:56	4° Ω 52'18	6.30774 AU		-5734 Mar 14 j 12:50	0° \approx	
					-5734 May 27 j 14:33	15° \approx	
conjunction	-5740 Sep 09 j 23:19	5° Ω 13'59	1°26'21	retrograde	-5734 Jul 22 j 04:11	19° \approx 38'17	
minimum elong	-5740 Sep 09 j 23:20	5° Ω 13'59	1°26'39		-5734 Sep 16 j 08:31	15° \approx	
morning rise	-5740 Sep 22 j 09:41	8° Ω 02'12		opposition	-5734 Sep 19 j 13:32	14° \approx 33'41	-2°00'55
	-5740 Oct 24 j 14:24	15° Ω		min. Earth dist.	-5734 Sep 18 j 13:09	14° \approx 42'01	4.11356 AU
retrograde	-5739 Jan 23 j 23:54	25° Ω 53'05		direct	-5734 Nov 17 j 05:24	9° \approx 33'34	
opposition	-5739 Mar 26 j 03:36	21° Ω 00'31	1°54'55		-5733 Jan 16 j 12:49	15° \approx	
min. Earth dist.	-5739 Mar 27 j 03:38	20° Ω 52'53	4.26359 AU	evening set	-5733 Mar 24 j 01:15	28° \approx 31'38	
direct	-5739 May 26 j 21:37	16° Ω 03'56			-5733 Mar 30 j 12:56	0° \mathfrak{H}	
	-5739 Sep 09 j 15:34	0° \mathfrak{H}					
evening set	-5739 Sep 28 j 23:03	4° \mathfrak{H} 20'10		conjunction	-5733 Apr 06 j 19:35	1° \mathfrak{H} 39'26	-1°08'38
max. Earth dist.	-5739 Oct 10 j 10:23	6° \mathfrak{H} 58'33	6.21268 AU	minimum elong	-5733 Apr 06 j 19:40	1° \mathfrak{H} 39'29	1°08'48
				max. Earth dist.	-5733 Apr 08 j 04:11	1° \mathfrak{H} 58'00	6.16231 AU
conjunction	-5739 Oct 11 j 11:35	7° \mathfrak{H} 13'06	1°03'36	morning rise	-5733 Apr 20 j 13:50	4° \mathfrak{H} 47'03	
minimum elong	-5739 Oct 11 j 11:39	7° \mathfrak{H} 13'08	1°03'46	retrograde	-5733 Aug 24 j 14:22	23° \mathfrak{H} 26'56	
morning rise	-5739 Oct 24 j 00:29	10° \mathfrak{H} 06'28		opposition	-5733 Oct 22 j 21:09	18° \mathfrak{H} 25'07	-1°14'14
retrograde	-5738 Feb 27 j 19:53	28° \mathfrak{H} 47'30		min. Earth dist.	-5733 Oct 22 j 07:13	18° \mathfrak{H} 29'50	4.21462 AU
opposition	-5738 Apr 30 j 00:02	23° \mathfrak{H} 52'11	1°04'23	direct	-5733 Dec 21 j 15:50	13° \mathfrak{H} 22'22	
min. Earth dist.	-5738 Apr 30 j 12:18	23° \mathfrak{H} 48'15	4.16070 AU		-5732 Apr 18 j 14:08	0° \mathfrak{Y}	
direct	-5738 Jun 29 j 13:40	18° \mathfrak{H} 58'07		evening set	-5732 Apr 27 j 10:39	1° \mathfrak{Y} 56'55	
	-5738 Sep 27 j 19:36	0° \mathfrak{L}					
evening set	-5738 Oct 31 j 15:25	7° \mathfrak{L} 34'50		conjunction	-5732 May 11 j 02:55	4° \mathfrak{Y} 59'37	-0°27'55
				minimum elong	-5732 May 11 j 02:57	4° \mathfrak{Y} 59'39	0°27'55
conjunction	-5738 Nov 13 j 09:24	10° \mathfrak{L} 34'29	0°19'40	max. Earth dist.	-5732 May 11 j 11:45	5° \mathfrak{Y} 04'33	6.26534 AU
minimum elong	-5738 Nov 13 j 09:26	10° \mathfrak{L} 34'30	0°19'39	morning rise	-5732 May 24 j 17:25	8° \mathfrak{Y} 01'13	
max. Earth dist.	-5738 Nov 13 j 03:38	10° \mathfrak{L} 31'05	6.11185 AU	retrograde	-5732 Sep 24 j 12:09	25° \mathfrak{Y} 47'53	
morning rise	-5738 Nov 26 j 05:43	13° \mathfrak{L} 35'28		opposition	-5732 Nov 22 j 23:07	20° \mathfrak{Y} 49'55	-0°06'10
	-5737 Feb 18 j 02:41	0° \mathfrak{M}		min. Earth dist.	-5732 Nov 23 j 00:40	20° \mathfrak{Y} 49'24	4.30996 AU
retrograde	-5737 Apr 05 j 02:56	3° \mathfrak{M} 09'06		asc. node	-5732 Dec 27 j 02:06	16° \mathfrak{Y} 53'50	
desc. node	-5737 Apr 12 j 23:04	3° \mathfrak{M} 03'16		direct	-5731 Jan 23 j 01:41	15° \mathfrak{Y} 46'00	
	-5737 May 21 j 16:41	30° \mathfrak{K} \mathfrak{L}			-5731 May 12 j 16:02	0° \mathfrak{B}	
opposition	-5737 Jun 05 j 01:31	28° \mathfrak{L} 09'54	-0°10'34	evening set	-5731 May 31 j 04:22	3° \mathfrak{B} 58'45	
min. Earth dist.	-5737 Jun 04 j 19:33	28° \mathfrak{L} 11'51	4.06983 AU				
direct	-5737 Aug 03 j 06:17	23° \mathfrak{L} 16'57		conjunction	-5731 Jun 13 j 13:47	6° \mathfrak{B} 55'18	0°20'16
	-5737 Oct 09 j 06:36	0° \mathfrak{M}		minimum elong	-5731 Jun 13 j 13:45	6° \mathfrak{B} 55'17	0°20'27
evening set	-5737 Dec 05 j 02:09	12° \mathfrak{M} 15'17		max. Earth dist.	-5731 Jun 13 j 00:42	6° \mathfrak{B} 48'06	6.34624 AU
	-5737 Dec 16 j 15:48	15° \mathfrak{M}		morning rise	-5731 Jun 26 j 19:47	9° \mathfrak{B} 50'09	
					-5731 Jul 21 j 00:10	15° \mathfrak{B}	
conjunction	-5737 Dec 18 j 03:55	15° \mathfrak{M} 21'29	-0°32'27	retrograde	-5731 Oct 25 j 12:41	27° \mathfrak{B} 02'30	
minimum elong	-5737 Dec 18 j 03:52	15° \mathfrak{M} 21'27	0°32'40	opposition	-5731 Dec 24 j 10:19	22° \mathfrak{B} 08'09	1°01'23
max. Earth dist.	-5737 Dec 18 j 23:55	15° \mathfrak{M} 33'22	6.03955 AU	min. Earth dist.	-5731 Dec 25 j 01:25	22° \mathfrak{B} 03'13	4.37103 AU
morning rise	-5737 Dec 31 j 08:49	18° \mathfrak{M} 29'28		direct	-5730 Feb 24 j 12:44	17° \mathfrak{B} 04'43	
	-5736 Feb 21 j 22:23	0° \mathfrak{J}			-5730 Jun 08 j 16:13	0° \mathfrak{I}	
retrograde	-5736 May 11 j 07:02	8° \mathfrak{J} 39'16		evening set	-5730 Jul 02 j 11:06	5° \mathfrak{I} 03'48	
opposition	-5736 Jul 10 j 15:20	3° \mathfrak{J} 36'18	-1°24'03	max. Earth dist.	-5730 Jul 14 j 02:40	7° \mathfrak{I} 37'11	6.38202 AU
min. Earth dist.	-5736 Jul 09 j 19:05	3° \mathfrak{J} 43'05	4.02408 AU				
	-5736 Aug 10 j 01:19	30° \mathfrak{K} \mathfrak{M}		conjunction	-5730 Jul 15 j 10:43	7° \mathfrak{I} 54'50	1°01'34
direct	-5736 Sep 06 j 21:39	28° \mathfrak{M} 42'25		minimum elong	-5730 Jul 15 j 10:39	7° \mathfrak{I} 54'48	1°01'53
	-5736 Oct 04 j 15:12	0° \mathfrak{J}		morning rise	-5730 Jul 28 j 07:08	10° \mathfrak{I} 44'16	
evening set	-5735 Jan 09 j 06:39	17° \mathfrak{J} 55'34		retrograde	-5730 Nov 25 j 15:12	27° \mathfrak{I} 47'35	
				opposition	-5729 Jan 25 j 00:01	22° \mathfrak{I} 55'33	1°50'36
conjunction	-5735 Jan 22 j 15:51	21° \mathfrak{J} 05'39	-1°13'25	min. Earth dist.	-5729 Jan 26 j 02:20	22° \mathfrak{I} 47'06	4.38065 AU
minimum elong	-5735 Jan 22 j 15:47	21° \mathfrak{J} 05'37	1°13'46	direct	-5729 Mar 28 j 15:38	17° \mathfrak{I} 53'49	
max. Earth dist.	-5735 Jan 24 j 06:39	21° \mathfrak{J} 28'39	6.02342 AU		-5729 Jul 06 j 11:53	0° \mathfrak{D}	
morning rise	-5735 Feb 05 j 04:23	24° \mathfrak{J} 17'25		evening set	-5729 Aug 02 j 19:03	5° \mathfrak{D} 49'56	
	-5735 Mar 02 j 01:33	0° \mathfrak{Z}		max. Earth dist.	-5729 Aug 13 j 18:47	8° \mathfrak{D} 16'03	6.36331 AU
retrograde	-5735 Jun 16 j 21:59	14° \mathfrak{Z} 28'47					
opposition	-5735 Aug 15 j 17:27	9° \mathfrak{Z} 23'44	-2°06'12	conjunction	-5729 Aug 15 j 10:28	8° \mathfrak{D} 38'08	1°25'14
min. Earth dist.	-5735 Aug 14 j 13:19	9° \mathfrak{Z} 33'18	4.04106 AU	minimum elong	-5729 Aug 15 j 10:26	8° \mathfrak{D} 38'07	1°25'33
direct	-5735 Oct 12 j 17:18	4° \mathfrak{Z} 27'03		morning rise	-5729 Aug 27 j 23:15	11° \mathfrak{D} 25'08	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 16

Attention, astronomical year style is used: The year -5729 in astronomical counting style is the year 5730 BCE in historical counting style.

retrograde	-5729 Dec 27 j 10:45	28° \mathfrak{D} 44'39		retrograde	-5723 Jun 21 j 23:27	19° \mathfrak{Z} 36'32	
opposition	-5728 Feb 26 j 08:03	23° \mathfrak{D} 53'09	2°09'01	opposition	-5723 Aug 20 j 17:36	14° \mathfrak{Z} 31'18	-2°08'19
min. Earth dist.	-5728 Feb 27 j 12:33	23° \mathfrak{D} 44'06	4.33589 AU	min. Earth dist.	-5723 Aug 19 j 13:35	14° \mathfrak{Z} 40'52	4.05120 AU
direct	-5728 Apr 28 j 18:20	18° \mathfrak{D} 54'02		direct	-5723 Oct 17 j 20:07	9° \mathfrak{Z} 34'07	
	-5728 Jul 31 j 14:41	0° Ω		evening set	-5722 Feb 20 j 13:15	28° \mathfrak{Z} 44'56	
evening set	-5728 Sep 01 j 20:55	6° Ω 57'32			-5722 Feb 25 j 22:57	0° \approx	
max. Earth dist.	-5728 Sep 12 j 19:24	9° Ω 25'43	6.29533 AU				
				conjunction	-5722 Mar 06 j 05:06	1° \approx 55'02	-1°26'03
conjunction	-5728 Sep 14 j 08:18	9° Ω 46'38	1°24'40	minimum elong	-5722 Mar 06 j 05:07	1° \approx 55'03	1°26'22
minimum elong	-5728 Sep 14 j 08:20	9° Ω 46'39	1°24'57	max. Earth dist.	-5722 Mar 08 j 00:50	2° \approx 20'26	6.08469 AU
morning rise	-5728 Sep 26 j 18:38	12° Ω 35'22		morning rise	-5722 Mar 19 j 22:37	5° \approx 05'51	
	-5728 Oct 07 j 13:41	15° Ω			-5722 May 04 j 13:05	15° \approx	
	-5727 Jan 09 j 23:22	0° \mathfrak{M}		retrograde	-5722 Jul 26 j 22:37	24° \approx 33'10	
retrograde	-5727 Jan 28 j 19:41	0° \mathfrak{M} 32'47		min. Earth dist.	-5722 Sep 23 j 07:50	19° \approx 36'51	4.13020 AU
	-5727 Feb 16 j 15:08	30° \mathfrak{R} Ω		opposition	-5722 Sep 24 j 07:19	19° \approx 28'50	-1°56'25
opposition	-5727 Mar 30 j 23:07	25° Ω 39'58	1°49'53		-5722 Nov 04 j 09:20	15° \mathfrak{R} \approx	
min. Earth dist.	-5727 Mar 31 j 22:56	25° Ω 32'24	4.24872 AU	direct	-5722 Nov 22 j 02:17	14° \approx 28'17	
direct	-5727 May 31 j 14:43	20° Ω 43'46			-5722 Dec 09 j 23:13	15° \approx	
	-5727 Aug 22 j 15:53	0° \mathfrak{M}			-5721 Mar 13 j 23:10	0° \mathfrak{H}	
evening set	-5727 Oct 03 j 11:26	9° \mathfrak{M} 03'01		evening set	-5721 Mar 29 j 01:31	3° \mathfrak{H} 21'58	
max. Earth dist.	-5727 Oct 15 j 00:23	11° \mathfrak{M} 42'54	6.19673 AU				
				conjunction	-5721 Apr 11 j 19:39	6° \mathfrak{H} 28'58	-1°03'58
conjunction	-5727 Oct 16 j 00:29	11° \mathfrak{M} 56'52	0°58'28	minimum elong	-5721 Apr 11 j 19:43	6° \mathfrak{H} 29'01	1°04'08
minimum elong	-5727 Oct 16 j 00:33	11° \mathfrak{M} 56'54	0°58'36	max. Earth dist.	-5721 Apr 12 j 23:45	6° \mathfrak{H} 44'55	6.17986 AU
morning rise	-5727 Oct 28 j 14:21	14° \mathfrak{M} 51'18		morning rise	-5721 Apr 25 j 13:45	9° \mathfrak{H} 35'43	
	-5726 Jan 13 j 17:41	0° $\underline{\Omega}$		retrograde	-5721 Aug 29 j 01:33	28° \mathfrak{H} 06'33	
retrograde	-5726 Mar 04 j 19:51	3° $\underline{\Omega}$ 40'28		opposition	-5721 Oct 27 j 09:03	23° \mathfrak{H} 05'12	-1°05'31
	-5726 Apr 25 j 03:49	30° \mathfrak{R} \mathfrak{M}		min. Earth dist.	-5721 Oct 26 j 21:43	23° \mathfrak{H} 09'02	4.23128 AU
opposition	-5726 May 05 j 00:42	28° \mathfrak{M} 44'38	0°54'47	direct	-5721 Dec 26 j 08:42	18° \mathfrak{H} 02'08	
min. Earth dist.	-5726 May 05 j 09:40	28° \mathfrak{M} 41'45	4.14492 AU		-5720 Apr 01 j 14:25	0° \mathfrak{Y}	
direct	-5726 Jul 04 j 08:42	23° \mathfrak{M} 50'50		evening set	-5720 May 02 j 04:26	6° \mathfrak{Y} 32'38	
	-5726 Sep 07 j 04:04	0° $\underline{\Omega}$					
evening set	-5726 Nov 05 j 09:44	12° $\underline{\Omega}$ 31'15		conjunction	-5720 May 15 j 20:09	9° \mathfrak{Y} 34'29	-0°21'22
				minimum elong	-5720 May 15 j 20:11	9° \mathfrak{Y} 34'30	0°21'19
conjunction	-5726 Nov 18 j 04:51	15° $\underline{\Omega}$ 31'58	0°12'23	max. Earth dist.	-5720 May 16 j 02:26	9° \mathfrak{Y} 37'58	6.27994 AU
minimum elong	-5726 Nov 18 j 04:51	15° $\underline{\Omega}$ 31'59	0°12'19	morning rise	-5720 May 29 j 09:31	12° \mathfrak{Y} 35'03	
behind sun begin	-5726 Nov 17 j 23:26	15° $\underline{\Omega}$ 28'48			-5720 Sep 16 j 06:41	0° \mathfrak{B}	
behind sun end	-5726 Nov 18 j 10:17	15° $\underline{\Omega}$ 35'10		retrograde	-5720 Sep 28 j 19:04	0° \mathfrak{B} 15'22	
max. Earth dist.	-5726 Nov 18 j 03:39	15° $\underline{\Omega}$ 31'16	6.09794 AU		-5720 Oct 11 j 06:04	30° \mathfrak{R} \mathfrak{Y}	
morning rise	-5726 Dec 01 j 02:13	18° $\underline{\Omega}$ 34'06		asc. node	-5720 Nov 07 j 02:46	27° \mathfrak{Y} 50'55	
	-5725 Jan 22 j 20:13	0° \mathfrak{M}		opposition	-5720 Nov 27 j 07:33	25° \mathfrak{Y} 17'59	0°03'38
desc. node	-5725 Feb 20 j 10:17	4° \mathfrak{M} 41'56		min. Earth dist.	-5720 Nov 27 j 11:10	25° \mathfrak{Y} 16'47	4.32130 AU
retrograde	-5725 Apr 10 j 10:14	8° \mathfrak{M} 14'45		direct	-5719 Jan 27 j 13:26	20° \mathfrak{Y} 14'04	
opposition	-5725 Jun 10 j 05:49	3° \mathfrak{M} 15'01	-0°21'49		-5719 Apr 25 j 04:01	0° \mathfrak{B}	
min. Earth dist.	-5725 Jun 09 j 22:10	3° \mathfrak{M} 17'31	4.05927 AU	evening set	-5719 Jun 04 j 16:48	8° \mathfrak{B} 24'27	
	-5725 Jul 07 j 09:56	30° \mathfrak{R} $\underline{\Omega}$		max. Earth dist.	-5719 Jun 17 j 06:44	11° \mathfrak{B} 10'13	6.35325 AU
direct	-5725 Aug 08 j 07:26	28° $\underline{\Omega}$ 22'06					
	-5725 Sep 08 j 20:42	0° \mathfrak{M}		conjunction	-5719 Jun 18 j 00:49	11° \mathfrak{B} 20'10	0°26'38
	-5725 Nov 29 j 23:02	15° \mathfrak{M}		minimum elong	-5719 Jun 18 j 00:47	11° \mathfrak{B} 20'09	0°26'50
evening set	-5725 Dec 10 j 03:21	17° \mathfrak{M} 23'20		morning rise	-5719 Jul 01 j 05:41	14° \mathfrak{B} 14'14	
					-5719 Jul 04 j 17:35	15° \mathfrak{B}	
conjunction	-5725 Dec 23 j 06:08	20° \mathfrak{M} 30'16	-0°39'24		-5719 Sep 29 j 21:37	0° \mathfrak{H}	
minimum elong	-5725 Dec 23 j 06:04	20° \mathfrak{M} 30'14	0°39'38	retrograde	-5719 Oct 29 j 20:10	1° \mathfrak{H} 24'24	
max. Earth dist.	-5725 Dec 24 j 05:20	20° \mathfrak{M} 44'04	6.03347 AU		-5719 Nov 28 j 18:12	30° \mathfrak{R} \mathfrak{B}	
morning rise	-5724 Jan 05 j 12:18	23° \mathfrak{M} 39'02		opposition	-5719 Dec 28 j 18:23	26° \mathfrak{B} 30'28	1°09'34
	-5724 Feb 02 j 04:20	0° \mathfrak{Z}		min. Earth dist.	-5719 Dec 29 j 12:25	26° \mathfrak{B} 24'36	4.37352 AU
retrograde	-5724 May 16 j 11:56	13° \mathfrak{Z} 51'07		direct	-5718 Feb 28 j 23:52	21° \mathfrak{B} 27'11	
opposition	-5724 Jul 15 j 19:22	8° \mathfrak{Z} 47'44	-1°32'29		-5718 May 21 j 16:54	0° \mathfrak{H}	
min. Earth dist.	-5724 Jul 14 j 20:21	8° \mathfrak{Z} 55'27	4.02371 AU	evening set	-5718 Jul 06 j 20:12	9° \mathfrak{H} 26'12	
direct	-5724 Sep 11 j 22:43	3° \mathfrak{Z} 53'35		max. Earth dist.	-5718 Jul 18 j 09:45	11° \mathfrak{H} 58'38	6.37963 AU
evening set	-5723 Jan 14 j 12:04	23° \mathfrak{Z} 07'09					
				conjunction	-5718 Jul 19 j 18:45	12° \mathfrak{H} 16'50	1°06'03
conjunction	-5723 Jan 27 j 22:08	26° \mathfrak{Z} 17'21	-1°17'13	minimum elong	-5718 Jul 19 j 18:41	12° \mathfrak{H} 16'48	1°06'22
minimum elong	-5723 Jan 27 j 22:04	26° \mathfrak{Z} 17'19	1°17'34	morning rise	-5718 Aug 01 j 13:48	15° \mathfrak{H} 05'50	
max. Earth dist.	-5723 Jan 29 j 14:35	26° \mathfrak{Z} 41'17	6.02855 AU		-5718 Oct 23 j 03:15	0° \mathfrak{D}	
morning rise	-5723 Feb 10 j 11:26	29° \mathfrak{Z} 29'10		retrograde	-5718 Nov 29 j 23:23	2° \mathfrak{D} 11'06	
	-5723 Feb 12 j 16:07	0° \mathfrak{Z}			-5717 Jan 07 j 05:22	30° \mathfrak{R} \mathfrak{H}	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 17

Attention, astronomical year style is used: The year -5717 in astronomical counting style is the year 5718 BCE in historical counting style.

opposition	-5717 Jan 29 j 10:25	27° Π 19'17	1°55'11	opposition	-5712 Jul 20 j 22:30	13° X 58'16	-1°40'10
min. Earth dist.	-5717 Jan 30 j 12:58	27° Π 10'47	4.37389 AU	min. Earth dist.	-5712 Jul 19 j 22:26	14° X 06'22	4.02666 AU
direct	-5717 Apr 02 j 01:02	22° Π 17'56		direct	-5712 Sep 17 j 01:41	9° X 03'46	
	-5717 Jun 17 j 22:03	0° E		evening set	-5711 Jan 19 j 16:38	28° X 16'45	
evening set	-5717 Aug 07 j 03:33	10° E 15'58			-5711 Jan 27 j 00:11	0° E	
max. Earth dist.	-5717 Aug 18 j 01:22	12° E 41'32	6.35254 AU				
				conjunction	-5711 Feb 02 j 03:39	1° E 26'59	-1°20'25
conjunction	-5717 Aug 19 j 18:03	13° E 04'13	1°26'39	minimum elong	-5711 Feb 02 j 03:36	1° E 26'58	1°20'45
minimum elong	-5717 Aug 19 j 18:01	13° E 04'12	1°26'59	max. Earth dist.	-5711 Feb 03 j 22:38	1° E 52'20	6.03585 AU
morning rise	-5717 Sep 01 j 06:19	15° E 51'25		morning rise	-5711 Feb 15 j 17:34	4° E 38'42	
	-5717 Nov 15 j 00:46	0° O		retrograde	-5711 Jun 26 j 23:59	24° E 41'10	
retrograde	-5716 Jan 01 j 02:40	3° O 16'28		opposition	-5711 Aug 25 j 15:51	19° E 35'58	-2°09'30
	-5716 Feb 18 j 06:23	30° R E		min. Earth dist.	-5711 Aug 24 j 12:05	19° E 45'26	4.06227 AU
opposition	-5716 Mar 01 j 23:44	28° E 24'58	2°08'37	direct	-5711 Oct 22 j 19:38	14° E 38'19	
min. Earth dist.	-5716 Mar 03 j 04:53	28° E 15'42	4.32187 AU		-5710 Feb 09 j 02:08	0° \approx	
direct	-5716 May 03 j 08:47	23° E 26'17		evening set	-5710 Feb 25 j 16:55	3° \approx 46'34	
	-5716 Jul 11 j 20:26	0° O					
evening set	-5716 Sep 06 j 07:05	11° O 32'57		conjunction	-5710 Mar 11 j 09:06	6° \approx 56'13	-1°24'41
max. Earth dist.	-5716 Sep 17 j 07:00	14° O 02'31	6.27926 AU	minimum elong	-5710 Mar 11 j 09:09	6° \approx 56'15	1°24'58
				max. Earth dist.	-5710 Mar 13 j 02:00	7° \approx 19'53	6.09839 AU
conjunction	-5716 Sep 18 j 18:31	14° O 22'42	1°22'25	morning rise	-5710 Mar 25 j 03:05	10° \approx 06'34	
minimum elong	-5716 Sep 18 j 18:33	14° O 22'44	1°22'41		-5710 Apr 15 j 20:57	15° \approx	
	-5716 Sep 21 j 12:06	15° O		retrograde	-5710 Jul 31 j 14:41	29° \approx 25'49	
morning rise	-5716 Oct 01 j 05:03	17° O 12'12		opposition	-5710 Sep 28 j 23:50	24° \approx 21'46	-1°51'14
	-5716 Dec 03 j 17:06	0° O		min. Earth dist.	-5710 Sep 28 j 01:43	24° \approx 29'19	4.14512 AU
retrograde	-5715 Feb 02 j 15:45	5° O 17'27		direct	-5710 Nov 26 j 22:16	19° \approx 20'46	
opposition	-5715 Apr 04 j 20:40	0° O 24'19	1°44'00		-5709 Feb 24 j 01:23	0° H	
min. Earth dist.	-5715 Apr 05 j 17:32	0° O 17'40	4.23182 AU	evening set	-5709 Apr 03 j 00:37	8° H 10'54	
	-5715 Apr 08 j 01:08	30° R O					
direct	-5715 Jun 05 j 07:06	25° O 28'35		conjunction	-5709 Apr 16 j 18:52	11° H 17'16	-0°58'56
	-5715 Jul 31 j 02:52	0° O		minimum elong	-5709 Apr 16 j 18:56	11° H 17'19	0°59'04
evening set	-5715 Oct 08 j 02:02	13° O 51'25		max. Earth dist.	-5709 Apr 17 j 20:54	11° H 32'00	6.19511 AU
				morning rise	-5709 Apr 30 j 12:28	14° H 23'10	
conjunction	-5715 Oct 20 j 15:45	16° O 46'14	0°52'50		-5709 Jul 22 j 09:00	0° Y	
minimum elong	-5715 Oct 20 j 15:48	16° O 46'16	0°52'57	retrograde	-5709 Sep 02 j 13:29	2° Y 46'05	
max. Earth dist.	-5715 Oct 19 j 19:34	16° O 34'31	6.18064 AU		-5709 Oct 14 j 14:27	30° R H	
morning rise	-5715 Nov 02 j 06:27	19° O 41'45		opposition	-5709 Oct 31 j 20:57	27° H 45'18	-0°56'28
	-5715 Dec 20 j 01:32	0° E		min. Earth dist.	-5709 Oct 31 j 12:00	27° H 48'19	4.24533 AU
retrograde	-5714 Mar 10 j 00:37	8° E 38'56		direct	-5709 Dec 31 j 01:05	22° H 42'03	
opposition	-5714 May 10 j 03:25	3° E 42'35	0°44'36		-5708 Mar 13 j 02:29	0° Y	
min. Earth dist.	-5714 May 10 j 10:27	3° E 40'19	4.13077 AU	evening set	-5708 May 06 j 22:20	11° Y 09'21	
	-5714 Jun 11 j 21:23	30° R O					
direct	-5714 Jul 09 j 07:57	28° O 49'02		conjunction	-5708 May 20 j 13:10	14° Y 10'22	-0°14'40
	-5714 Aug 05 j 12:05	0° E		minimum elong	-5708 May 20 j 13:12	14° Y 10'23	0°14'36
evening set	-5714 Nov 10 j 06:03	17° E 32'26		behind sun begin	-5708 May 20 j 09:57	14° Y 08'35	
				behind sun end	-5708 May 20 j 16:26	14° Y 12'10	
conjunction	-5714 Nov 23 j 02:11	20° E 34'06	0°04'56	max. Earth dist.	-5708 May 20 j 14:46	14° Y 11'15	6.29175 AU
minimum elong	-5714 Nov 23 j 02:11	20° E 34'06	0°04'50	morning rise	-5708 Jun 03 j 01:42	17° Y 10'04	
behind sun begin	-5714 Nov 22 j 18:17	20° E 29'27			-5708 Aug 07 j 13:11	0° E	
behind sun end	-5714 Nov 23 j 10:04	20° E 38'44		asc. node	-5708 Sep 17 j 15:58	4° E 21'38	
max. Earth dist.	-5714 Nov 23 j 04:43	20° E 35'33	6.08706 AU	retrograde	-5708 Oct 03 j 02:53	4° E 45'06	
morning rise	-5714 Dec 06 j 00:51	23° E 37'15			-5708 Nov 30 j 05:15	30° R Y	
desc. node	-5714 Dec 30 j 03:16	29° E 08'35		opposition	-5708 Dec 01 j 16:53	29° Y 48'12	0°13'27
	-5713 Jan 03 j 00:45	0° O		min. Earth dist.	-5708 Dec 01 j 22:50	29° Y 46'13	4.33013 AU
retrograde	-5713 Apr 15 j 15:39	13° O 23'17		direct	-5707 Feb 01 j 02:39	24° Y 44'13	
opposition	-5713 Jun 15 j 10:37	8° O 22'58	-0°32'59		-5707 Apr 03 j 23:28	0° E	
min. Earth dist.	-5713 Jun 14 j 23:27	8° O 26'38	4.05280 AU	evening set	-5707 Jun 09 j 05:59	12° E 52'54	
direct	-5713 Aug 13 j 07:18	3° O 30'03			-5707 Jun 18 j 21:51	15° E	
	-5713 Nov 12 j 01:58	15° O					
evening set	-5713 Dec 15 j 05:03	22° O 32'44		conjunction	-5707 Jun 22 j 12:53	15° E 47'54	0°32'55
				minimum elong	-5707 Jun 22 j 12:50	15° E 47'53	0°33'09
conjunction	-5713 Dec 28 j 08:49	25° O 40'10	-0°46'03	max. Earth dist.	-5707 Jun 21 j 17:09	15° E 37'03	6.35851 AU
minimum elong	-5713 Dec 28 j 08:45	25° O 40'08	0°46'19	morning rise	-5707 Jul 05 j 16:16	18° E 41'11	
max. Earth dist.	-5713 Dec 29 j 11:04	25° O 55'47	6.03161 AU		-5707 Aug 31 j 13:03	0° O	
morning rise	-5712 Jan 10 j 16:01	28° O 49'26		retrograde	-5707 Nov 03 j 03:45	5° O 49'39	
	-5712 Jan 15 j 16:06	0° X		opposition	-5706 Jan 02 j 03:54	0° O 56'08	1°17'30
retrograde	-5712 May 21 j 16:28	19° X 02'06		min. Earth dist.	-5706 Jan 02 j 23:12	0° O 49'53	4.37505 AU

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 18

Attention, astronomical year style is used: The year -5706 in astronomical counting style is the year 5707 BCE in historical counting style.

	-5706 Jan 09 j 09:56	30° \mathbb{R} \mathbb{B}		direct	-5701 Aug 18 j 06:51	8° \mathbb{M} 30'20	
direct	-5706 Mar 05 j 11:22	25° \mathbb{B} 53'05			-5701 Oct 22 j 18:12	15° \mathbb{M}	
	-5706 Apr 29 j 00:43	0° \mathbb{II}		evening set	-5701 Dec 20 j 04:11	27° \mathbb{M} 33'54	
evening set	-5706 Jul 11 j 06:21	13° \mathbb{II} 51'56			-5701 Dec 30 j 10:43	0° \mathbb{A}	
max. Earth dist.	-5706 Jul 22 j 15:32	16° \mathbb{II} 22'15	6.37709 AU				
				conjunction	-5700 Jan 02 j 09:01	0° \mathbb{A} 41'46	-0°52'11
conjunction	-5706 Jul 24 j 03:31	16° \mathbb{II} 42'07	1°10'15	minimum elong	-5700 Jan 02 j 08:57	0° \mathbb{A} 41'44	0°52'29
minimum elong	-5706 Jul 24 j 03:27	16° \mathbb{II} 42'05	1°10'34	max. Earth dist.	-5700 Jan 03 j 14:54	0° \mathbb{A} 59'31	6.03140 AU
morning rise	-5706 Aug 05 j 21:36	19° \mathbb{II} 30'46		morning rise	-5700 Jan 15 j 17:08	3° \mathbb{A} 51'26	
	-5706 Sep 26 j 18:33	0° \mathbb{E}		retrograde	-5700 May 26 j 18:21	24° \mathbb{A} 03'50	
retrograde	-5706 Dec 04 j 10:57	6° \mathbb{E} 38'04		opposition	-5700 Jul 25 j 21:54	18° \mathbb{A} 59'45	-1°46'52
opposition	-5705 Feb 02 j 22:53	1° \mathbb{E} 46'24	1°59'14	min. Earth dist.	-5700 Jul 24 j 21:10	19° \mathbb{A} 08'05	4.03038 AU
min. Earth dist.	-5705 Feb 04 j 02:39	1° \mathbb{E} 37'31	4.36774 AU	direct	-5700 Sep 22 j 00:15	14° \mathbb{A} 04'54	
	-5705 Feb 17 j 03:00	30° \mathbb{R} \mathbb{II}			-5699 Jan 10 j 13:22	0° \mathbb{B}	
direct	-5705 Apr 06 j 14:04	26° \mathbb{II} 45'22		evening set	-5699 Jan 24 j 18:18	3° \mathbb{B} 17'25	
	-5705 May 24 j 13:21	0° \mathbb{E}					
evening set	-5705 Aug 11 j 12:40	14° \mathbb{E} 44'40		conjunction	-5699 Feb 07 j 05:57	6° \mathbb{B} 27'39	-1°22'55
max. Earth dist.	-5705 Aug 22 j 11:12	17° \mathbb{E} 10'57	6.34331 AU	minimum elong	-5699 Feb 07 j 05:54	6° \mathbb{B} 27'37	1°23'16
				max. Earth dist.	-5699 Feb 08 j 23:45	6° \mathbb{B} 52'14	6.04272 AU
conjunction	-5705 Aug 24 j 02:36	17° \mathbb{E} 32'59	1°27'37	morning rise	-5699 Feb 20 j 20:43	9° \mathbb{B} 39'20	
minimum elong	-5705 Aug 24 j 02:35	17° \mathbb{E} 32'58	1°27'57	retrograde	-5699 Jul 01 j 19:09	29° \mathbb{B} 37'17	
morning rise	-5705 Sep 05 j 14:10	20° \mathbb{E} 20'17		min. Earth dist.	-5699 Aug 29 j 07:12	24° \mathbb{B} 41'32	4.07167 AU
	-5705 Oct 22 j 02:28	0° \mathbb{Q}		opposition	-5699 Aug 30 j 10:48	24° \mathbb{B} 32'06	-2°09'44
retrograde	-5704 Jan 05 j 17:00	7° \mathbb{Q} 50'16		direct	-5699 Oct 27 j 16:00	19° \mathbb{B} 33'59	
opposition	-5704 Mar 06 j 16:24	2° \mathbb{Q} 58'39	2°07'28		-5698 Jan 22 j 05:21	0° \mathbb{W}	
min. Earth dist.	-5704 Mar 07 j 19:51	2° \mathbb{Q} 49'56	4.31044 AU	evening set	-5698 Mar 02 j 17:32	8° \mathbb{W} 40'31	
	-5704 Mar 31 j 20:45	30° \mathbb{R} \mathbb{E}					
direct	-5704 May 07 j 22:22	28° \mathbb{E} 00'28		conjunction	-5698 Mar 16 j 10:23	11° \mathbb{W} 49'56	-1°22'45
	-5704 Jun 13 j 18:09	0° \mathbb{Q}		minimum elong	-5698 Mar 16 j 10:26	11° \mathbb{W} 49'58	1°23'01
	-5704 Sep 05 j 14:59	15° \mathbb{Q}		max. Earth dist.	-5698 Mar 18 j 02:20	12° \mathbb{W} 13'00	6.10959 AU
evening set	-5704 Sep 10 j 17:44	16° \mathbb{Q} 09'06		morning rise	-5698 Mar 30 j 04:26	14° \mathbb{W} 59'50	
max. Earth dist.	-5704 Sep 21 j 19:08	18° \mathbb{Q} 40'00	6.26672 AU		-5698 Mar 30 j 04:43	15° \mathbb{W}	
					-5698 Jun 13 j 13:48	0° \mathbb{H}	
conjunction	-5704 Sep 23 j 05:02	18° \mathbb{Q} 59'21	1°19'41	retrograde	-5698 Aug 05 j 06:45	4° \mathbb{H} 12'17	
minimum elong	-5704 Sep 23 j 05:05	18° \mathbb{Q} 59'22	1°19'56		-5698 Sep 27 j 06:55	30° \mathbb{R} \mathbb{W}	
morning rise	-5704 Oct 05 j 15:54	21° \mathbb{Q} 49'29		opposition	-5698 Oct 03 j 14:11	29° \mathbb{W} 08'40	-1°45'27
	-5704 Nov 12 j 11:52	0° \mathbb{M}		min. Earth dist.	-5698 Oct 02 j 18:25	29° \mathbb{W} 15'25	4.15690 AU
retrograde	-5703 Feb 07 j 13:58	10° \mathbb{M} 01'18		direct	-5698 Dec 01 j 16:21	24° \mathbb{W} 07'21	
opposition	-5703 Apr 09 j 18:18	5° \mathbb{M} 07'48	1°37'29		-5697 Feb 03 j 04:51	0° \mathbb{H}	
min. Earth dist.	-5703 Apr 10 j 13:50	5° \mathbb{M} 01'34	4.21891 AU	evening set	-5697 Apr 07 j 22:06	12° \mathbb{H} 55'14	
direct	-5703 Jun 10 j 01:51	0° \mathbb{M} 12'25					
evening set	-5703 Oct 12 j 15:46	18° \mathbb{M} 37'18		conjunction	-5697 Apr 21 j 16:11	16° \mathbb{H} 01'06	-0°53'36
				minimum elong	-5697 Apr 21 j 16:16	16° \mathbb{H} 01'09	0°53'42
conjunction	-5703 Oct 25 j 06:14	21° \mathbb{M} 32'57	0°46'55	max. Earth dist.	-5697 Apr 22 j 14:33	16° \mathbb{H} 13'43	6.20663 AU
minimum elong	-5703 Oct 25 j 06:18	21° \mathbb{M} 32'59	0°47'00	morning rise	-5697 May 05 j 09:32	19° \mathbb{H} 06'24	
max. Earth dist.	-5703 Oct 24 j 13:33	21° \mathbb{M} 23'14	6.16871 AU		-5697 Jun 26 j 22:50	0° \mathbb{Y}	
morning rise	-5703 Nov 06 j 21:51	24° \mathbb{M} 29'24		retrograde	-5697 Sep 06 j 23:02	7° \mathbb{Y} 22'56	
	-5703 Dec 01 j 07:40	0° \mathbb{L}		opposition	-5697 Nov 05 j 07:42	2° \mathbb{Y} 22'41	-0°47'13
retrograde	-5702 Mar 15 j 01:17	13° \mathbb{L} 32'57		min. Earth dist.	-5697 Nov 05 j 00:17	2° \mathbb{Y} 25'11	4.25570 AU
opposition	-5702 May 15 j 04:28	8° \mathbb{L} 36'04	0°34'16		-5697 Nov 23 j 18:19	30° \mathbb{R} \mathbb{H}	
min. Earth dist.	-5702 May 15 j 08:08	8° \mathbb{L} 34'53	4.12079 AU	direct	-5696 Jan 04 j 15:15	27° \mathbb{H} 19'16	
direct	-5702 Jul 14 j 03:29	3° \mathbb{L} 42'45			-5696 Feb 16 j 00:22	0° \mathbb{Y}	
desc. node	-5702 Nov 08 j 22:46	21° \mathbb{L} 02'34		evening set	-5696 May 11 j 15:31	15° \mathbb{Y} 44'47	
evening set	-5702 Nov 15 j 00:36	22° \mathbb{L} 27'48					
				conjunction	-5696 May 25 j 05:35	18° \mathbb{Y} 45'08	-0°07'57
conjunction	-5702 Nov 27 j 21:34	25° \mathbb{L} 30'10	-0°02'33	minimum elong	-5696 May 25 j 05:35	18° \mathbb{Y} 45'08	0°07'53
minimum elong	-5702 Nov 27 j 21:35	25° \mathbb{L} 30'10	0°02'40	behind sun begin	-5696 May 24 j 22:12	18° \mathbb{Y} 41'04	
behind sun begin	-5702 Nov 27 j 13:30	25° \mathbb{L} 25'25		behind sun end	-5696 May 25 j 12:57	18° \mathbb{Y} 49'13	
behind sun end	-5702 Nov 28 j 05:41	25° \mathbb{L} 34'56		max. Earth dist.	-5696 May 25 j 04:23	18° \mathbb{Y} 44'29	6.30044 AU
max. Earth dist.	-5702 Nov 28 j 03:21	25° \mathbb{L} 33'33	6.07983 AU	morning rise	-5696 Jun 07 j 17:01	21° \mathbb{Y} 44'04	
morning rise	-5702 Dec 10 j 21:24	28° \mathbb{L} 34'09			-5696 Jul 17 j 04:10	0° \mathbb{B}	
	-5702 Dec 17 j 00:18	0° \mathbb{M}		asc. node	-5696 Jul 29 j 03:04	2° \mathbb{B} 12'56	
	-5701 Mar 03 j 22:20	15° \mathbb{M}		retrograde	-5696 Oct 07 j 12:12	9° \mathbb{B} 15'02	
retrograde	-5701 Apr 20 j 18:20	18° \mathbb{M} 24'18		opposition	-5696 Dec 06 j 02:30	4° \mathbb{B} 18'43	0°23'09
	-5701 Jun 08 j 02:19	15° \mathbb{R} \mathbb{M}		min. Earth dist.	-5696 Dec 06 j 10:40	4° \mathbb{B} 16'01	4.33656 AU
opposition	-5701 Jun 20 j 12:25	13° \mathbb{M} 23'23	-0°43'36		-5695 Jan 14 j 13:44	30° \mathbb{R} \mathbb{Y}	
min. Earth dist.	-5701 Jun 19 j 23:20	13° \mathbb{M} 27'42	4.04897 AU	direct	-5695 Feb 05 j 16:17	29° \mathbb{Y} 14'51	

Attention, astronomical year style is used: The year -5695 in astronomical counting style is the year 5696 BCE in historical counting style.

	-5695 Feb 27 j 23:14	0°♄		morning rise	-5690 Dec 15 j 18:08	3°♌30'55	
	-5695 Jun 02 j 19:53	15°♄			-5689 Feb 06 j 12:04	15°♌	
evening set	-5695 Jun 13 j 19:07	17°♄22'24		retrograde	-5689 Apr 25 j 22:13	23°♌25'58	
max. Earth dist.	-5695 Jun 26 j 01:52	20°♄04'12	6.36209 AU	opposition	-5689 Jun 25 j 13:55	18°♌24'33	-0°53'57
				min. Earth dist.	-5689 Jun 24 j 23:18	18°♌29'24	4.04219 AU
conjunction	-5695 Jun 27 j 00:41	20°♄16'44	0°39'00		-5689 Jul 24 j 04:06	15°♌	
minimum elong	-5695 Jun 27 j 00:38	20°♄16'43	0°39'15	direct	-5689 Aug 23 j 05:04	13°♌31'22	
morning rise	-5695 Jul 10 j 02:51	23°♄09'21			-5689 Sep 22 j 01:34	15°♌	
	-5695 Aug 11 j 14:39	0°♄			-5689 Dec 13 j 23:57	0°♄	
retrograde	-5695 Nov 07 j 12:16	10°♄16'47		evening set	-5689 Dec 25 j 04:29	2°♄37'12	
opposition	-5694 Jan 06 j 14:14	5°♄23'35	1°24'59				
min. Earth dist.	-5694 Jan 07 j 10:38	5°♄16'58	4.37590 AU	conjunction	-5688 Jan 07 j 10:13	5°♄45'37	-0°57'58
direct	-5694 Mar 09 j 23:25	0°♄20'43		minimum elong	-5688 Jan 07 j 10:09	5°♄45'35	0°58'16
evening set	-5694 Jul 15 j 16:37	18°♄19'23		max. Earth dist.	-5688 Jan 08 j 16:55	6°♄03'52	6.02792 AU
max. Earth dist.	-5694 Jul 27 j 01:10	20°♄49'30	6.37507 AU	morning rise	-5688 Jan 20 j 19:33	8°♄55'54	
				retrograde	-5688 May 31 j 19:55	29°♄09'12	
conjunction	-5694 Jul 28 j 12:39	21°♄09'08	1°14'03	opposition	-5688 Jul 30 j 22:13	24°♄04'45	-1°52'51
minimum elong	-5694 Jul 28 j 12:36	21°♄09'06	1°14'22	min. Earth dist.	-5688 Jul 29 j 20:04	24°♄13'36	4.03069 AU
morning rise	-5694 Aug 10 j 05:27	23°♄57'21		direct	-5688 Sep 26 j 23:13	19°♄09'27	
	-5694 Sep 07 j 14:25	0°♄			-5688 Dec 23 j 13:16	0°♄	
retrograde	-5694 Dec 08 j 21:22	11°♄06'21		evening set	-5687 Jan 29 j 22:11	8°♄22'52	
opposition	-5693 Feb 07 j 11:28	6°♄14'49	2°02'33				
min. Earth dist.	-5693 Feb 08 j 15:17	6°♄05'56	4.36305 AU	conjunction	-5687 Feb 12 j 10:54	11°♄33'20	-1°24'50
direct	-5693 Apr 11 j 02:28	1°♄14'09		minimum elong	-5687 Feb 12 j 10:52	11°♄33'19	1°25'11
evening set	-5693 Aug 15 j 21:39	19°♄13'55		max. Earth dist.	-5687 Feb 14 j 06:10	11°♄58'46	6.04673 AU
max. Earth dist.	-5693 Aug 26 j 18:32	21°♄39'39	6.33601 AU	morning rise	-5687 Feb 26 j 02:13	14°♄45'05	
					-5687 May 12 j 00:08	0°♄	
conjunction	-5693 Aug 28 j 10:44	22°♄02'11	1°28'04	retrograde	-5687 Jul 06 j 18:54	4°♄39'11	
minimum elong	-5693 Aug 28 j 10:44	22°♄02'11	1°28'24		-5687 Sep 01 j 03:53	30°♄	
morning rise	-5693 Sep 09 j 21:59	24°♄49'37		min. Earth dist.	-5687 Sep 03 j 05:37	29°♄43'02	4.07888 AU
	-5693 Oct 03 j 16:37	0°♄		opposition	-5687 Sep 04 j 07:52	29°♄34'04	-2°09'02
retrograde	-5692 Jan 10 j 08:48	12°♄23'51		direct	-5687 Nov 01 j 15:10	24°♄35'28	
opposition	-5692 Mar 11 j 08:49	7°♄32'02	2°05'33		-5687 Dec 31 j 06:52	0°♄	
min. Earth dist.	-5692 Mar 12 j 11:59	7°♄23'24	4.30075 AU	evening set	-5686 Mar 07 j 21:26	13°♄41'01	
direct	-5692 May 12 j 13:00	2°♄34'09			-5686 Mar 13 j 15:09	15°♄	
	-5692 Aug 20 j 02:03	15°♄					
evening set	-5692 Sep 15 j 03:11	20°♄44'03		conjunction	-5686 Mar 21 j 14:46	16°♄50'15	-1°20'10
max. Earth dist.	-5692 Sep 26 j 07:39	23°♄17'02	6.25540 AU	minimum elong	-5686 Mar 21 j 14:49	16°♄50'17	1°20'25
				max. Earth dist.	-5686 Mar 23 j 04:56	17°♄12'12	6.11939 AU
conjunction	-5692 Sep 27 j 14:46	23°♄34'49	1°16'29	morning rise	-5686 Apr 04 j 09:11	19°♄59'50	
minimum elong	-5692 Sep 27 j 14:49	23°♄34'51	1°16'43		-5686 May 20 j 23:28	0°♄	
morning rise	-5692 Oct 10 j 01:50	26°♄25'34		retrograde	-5686 Aug 09 j 23:16	9°♄05'29	
	-5692 Oct 26 j 00:31	0°♄		min. Earth dist.	-5686 Oct 07 j 11:45	4°♄08'51	4.16837 AU
retrograde	-5691 Feb 12 j 09:29	14°♄43'31		opposition	-5686 Oct 08 j 07:06	4°♄02'16	-1°38'48
opposition	-5691 Apr 14 j 14:43	9°♄49'36	1°30'22		-5686 Nov 12 j 00:46	30°♄	
min. Earth dist.	-5691 Apr 15 j 08:14	9°♄44'01	4.20651 AU	direct	-5686 Dec 06 j 12:02	29°♄00'35	
direct	-5691 Jun 14 j 17:41	4°♄54'34			-5686 Dec 31 j 07:39	0°♄	
evening set	-5691 Oct 17 j 04:51	23°♄21'34		evening set	-5685 Apr 12 j 22:33	17°♄46'10	
conjunction	-5691 Oct 29 j 19:55	26°♄18'01	0°40'45	conjunction	-5685 Apr 26 j 16:27	20°♄51'27	-0°47'46
minimum elong	-5691 Oct 29 j 19:58	26°♄18'03	0°40'48	minimum elong	-5685 Apr 26 j 16:30	20°♄51'29	0°47'50
max. Earth dist.	-5691 Oct 29 j 05:06	26°♄09'22	6.15629 AU	max. Earth dist.	-5685 Apr 27 j 11:52	21°♄02'23	6.21926 AU
morning rise	-5691 Nov 11 j 12:35	29°♄15'27		morning rise	-5685 May 10 j 09:19	23°♄56'00	
	-5691 Nov 14 j 17:37	0°♄			-5685 Jun 07 j 08:34	0°♄	
retrograde	-5690 Mar 20 j 02:12	18°♄25'42		retrograde	-5685 Sep 11 j 13:25	12°♄05'37	
opposition	-5690 May 20 j 04:19	13°♄28'13	0°23'44	opposition	-5685 Nov 09 j 21:26	7°♄05'57	-0°37'26
min. Earth dist.	-5690 May 20 j 06:01	13°♄27'40	4.10910 AU	min. Earth dist.	-5685 Nov 09 j 16:23	7°♄07'39	4.26840 AU
direct	-5690 Jul 18 j 23:36	8°♄34'58		direct	-5684 Jan 09 j 10:17	2°♄02'27	
desc. node	-5690 Sep 18 j 22:26	14°♄19'38		evening set	-5684 May 16 j 10:49	20°♄24'57	
evening set	-5690 Nov 19 j 19:00	27°♄22'43					
	-5690 Nov 30 j 21:16	0°♄		conjunction	-5684 May 29 j 23:56	23°♄24'25	-0°01'02
conjunction	-5690 Dec 02 j 17:12	0°♄26'01	-0°09'51	minimum elong	-5684 May 29 j 23:57	23°♄24'25	0°00'55
minimum elong	-5690 Dec 02 j 17:11	0°♄26'00	0°09'59	behind sun begin	-5684 May 29 j 15:41	23°♄19'53	
behind sun begin	-5690 Dec 02 j 10:36	0°♄22'07		behind sun end	-5684 May 30 j 08:12	23°♄28'58	
behind sun end	-5690 Dec 02 j 23:46	0°♄29'53		max. Earth dist.	-5684 May 29 j 20:43	23°♄22'41	6.31258 AU
max. Earth dist.	-5690 Dec 03 j 03:03	0°♄31'50	6.07007 AU	asc. node	-5684 Jun 07 j 06:00	25°♄13'58	
				morning rise	-5684 Jun 12 j 10:11	26°♄22'22	

Attention, astronomical year style is used: The year -5684 in astronomical counting style is the year 5685 BCE in historical counting style.

	-5684 Jun 29 j 04:10	0°♄	conjunction	-5678 Dec 07 j 10:01	5°♌15'00	-0°16'51
retrograde	-5684 Oct 11 j 20:53	13°♄48'00	minimum elong	-5678 Dec 07 j 10:00	5°♌14'59	0°17'02
opposition	-5684 Dec 10 j 13:45	8°♄52'10 0°32'47	max. Earth dist.	-5678 Dec 07 j 20:52	5°♌21'25	6.05749 AU
min. Earth dist.	-5684 Dec 10 j 22:32	8°♄49'16 4.34757 AU	morning rise	-5678 Dec 20 j 12:20	8°♌21'02	
direct	-5683 Feb 10 j 06:21	3°♄48'24		-5677 Jan 18 j 14:50	15°♌	
	-5683 May 16 j 13:57	15°♄	retrograde	-5677 Apr 30 j 22:43	28°♌22'23	
evening set	-5683 Jun 18 j 08:59	21°♄53'01	opposition	-5677 Jun 30 j 12:45	23°♌20'32	-1°03'39
			min. Earth dist.	-5677 Jun 29 j 19:52	23°♌26'08	4.03197 AU
conjunction	-5683 Jul 01 j 13:04	24°♄46'22 0°44'52	direct	-5677 Aug 28 j 00:08	18°♌27'10	
minimum elong	-5683 Jul 01 j 13:01	24°♄46'20 0°45'08		-5677 Nov 26 j 17:11	0°♌	
max. Earth dist.	-5683 Jun 30 j 12:49	24°♄33'02 6.37126 AU	evening set	-5677 Dec 30 j 03:32	7°♌37'04	
morning rise	-5683 Jul 14 j 13:46	27°♄38'01				
	-5683 Jul 25 j 11:54	0°♌	conjunction	-5676 Jan 12 j 10:33	10°♌46'19	-1°03'11
retrograde	-5683 Nov 11 j 21:09	14°♌42'34	minimum elong	-5676 Jan 12 j 10:28	10°♌46'17	1°03'29
opposition	-5682 Jan 11 j 00:41	9°♌49'44 1°31'52	max. Earth dist.	-5676 Jan 13 j 20:44	11°♌06'38	6.02105 AU
min. Earth dist.	-5682 Jan 11 j 22:36	9°♌42'39 4.38270 AU	morning rise	-5676 Jan 25 j 20:47	13°♌57'20	
direct	-5682 Mar 14 j 12:50	4°♌47'10		-5676 Apr 13 j 20:31	0°♌	
evening set	-5682 Jul 20 j 01:30	22°♌43'24	retrograde	-5676 Jun 05 j 22:42	4°♌12'48	
max. Earth dist.	-5682 Jul 31 j 06:51	25°♌11'47 6.37869 AU		-5676 Jul 29 j 11:36	30°♌	
			opposition	-5676 Aug 04 j 21:23	29°♌08'08	-1°57'51
conjunction	-5682 Aug 01 j 20:14	25°♌32'27 1°17'20	min. Earth dist.	-5676 Aug 03 j 19:19	29°♌16'58	4.02813 AU
minimum elong	-5682 Aug 01 j 20:11	25°♌32'25 1°17'40	direct	-5676 Oct 01 j 21:49	24°♌12'27	
morning rise	-5682 Aug 14 j 11:59	28°♌20'05		-5676 Dec 02 j 04:38	0°♌	
	-5682 Aug 22 j 02:48	0°♌	evening set	-5675 Feb 04 j 02:01	13°♌27'59	
retrograde	-5682 Dec 13 j 06:11	15°♌29'15				
opposition	-5681 Feb 11 j 22:38	10°♌37'45 2°05'00	conjunction	-5675 Feb 17 j 15:35	16°♌38'45	-1°26'02
min. Earth dist.	-5681 Feb 13 j 02:39	10°♌28'49 4.36335 AU	minimum elong	-5675 Feb 17 j 15:34	16°♌38'45	1°26'22
direct	-5681 Apr 15 j 13:14	5°♌37'24	max. Earth dist.	-5675 Feb 19 j 11:24	17°♌04'28	6.04859 AU
evening set	-5681 Aug 20 j 03:37	23°♌36'00	morning rise	-5675 Mar 03 j 07:47	19°♌50'44	
max. Earth dist.	-5681 Aug 31 j 01:27	26°♌02'24 6.33290 AU		-5675 Apr 18 j 15:43	0°♌	
			retrograde	-5675 Jul 11 j 16:19	9°♌41'25	
conjunction	-5681 Sep 01 j 16:10	26°♌24'08 1°27'57	min. Earth dist.	-5675 Sep 08 j 01:27	4°♌45'39	4.08511 AU
minimum elong	-5681 Sep 01 j 16:11	26°♌24'08 1°28'16	opposition	-5675 Sep 09 j 04:33	4°♌36'23	-2°07'17
morning rise	-5681 Sep 14 j 02:48	29°♌11'29		-5675 Oct 22 j 16:59	30°♌	
	-5681 Sep 17 j 18:01	0°♌	direct	-5675 Nov 06 j 12:36	29°♌37'20	
	-5681 Dec 11 j 04:28	15°♌		-5675 Nov 21 j 12:02	0°♌	
retrograde	-5680 Jan 14 j 20:25	16°♌48'52		-5674 Feb 24 j 15:19	15°♌	
	-5680 Feb 18 j 19:50	15°♌	evening set	-5674 Mar 13 j 01:13	18°♌42'00	
opposition	-5680 Mar 15 j 22:01	11°♌56'55 2°02'51				
min. Earth dist.	-5680 Mar 17 j 00:59	11°♌48'22 4.29424 AU	conjunction	-5674 Mar 26 j 18:56	21°♌50'59	-1°16'57
direct	-5680 May 17 j 00:11	6°♌59'27	minimum elong	-5674 Mar 26 j 19:00	21°♌51'01	1°17'11
	-5680 Aug 02 j 04:10	15°♌	max. Earth dist.	-5674 Mar 28 j 07:23	22°♌11'55	6.12947 AU
evening set	-5680 Sep 19 j 09:24	25°♌09'52	morning rise	-5674 Apr 09 j 13:30	25°♌00'10	
				-5674 May 01 j 23:29	0°♌	
conjunction	-5680 Oct 01 j 20:57	28°♌01'03 1°12'55	retrograde	-5674 Aug 14 j 17:18	13°♌58'44	
minimum elong	-5680 Oct 01 j 21:00	28°♌01'04 1°13'08	opposition	-5674 Oct 12 j 23:52	8°♌55'50	-1°31'26
max. Earth dist.	-5680 Sep 30 j 13:26	27°♌42'59 6.24598 AU	min. Earth dist.	-5674 Oct 12 j 06:31	9°♌01'44	4.18087 AU
	-5680 Oct 10 j 12:43	0°♌	direct	-5674 Dec 11 j 10:01	3°♌53'45	
morning rise	-5680 Oct 14 j 08:35	0°♌52'24	evening set	-5673 Apr 17 j 22:14	22°♌36'11	
retrograde	-5679 Feb 17 j 02:03	19°♌16'14				
opposition	-5679 Apr 19 j 07:15	14°♌21'55 1°22'54	conjunction	-5673 May 01 j 15:53	25°♌40'46	-0°41'36
min. Earth dist.	-5679 Apr 19 j 23:35	14°♌16'41 4.19454 AU	minimum elong	-5673 May 01 j 15:56	25°♌40'48	0°41'40
direct	-5679 Jun 19 j 06:10	9°♌27'08	max. Earth dist.	-5673 May 02 j 09:55	25°♌50'53	6.23315 AU
evening set	-5679 Oct 21 j 14:14	27°♌56'36	morning rise	-5673 May 15 j 08:01	28°♌44'26	
	-5679 Oct 30 j 09:57	0°♌		-5673 May 21 j 00:18	0°♌	
			retrograde	-5673 Sep 16 j 00:11	16°♌46'29	
conjunction	-5679 Nov 03 j 06:17	0°♌54'01 0°34'31	opposition	-5673 Nov 14 j 09:58	11°♌47'16	-0°27'29
minimum elong	-5679 Nov 03 j 06:19	0°♌54'02 0°34'32	min. Earth dist.	-5673 Nov 14 j 05:45	11°♌48'41	4.28210 AU
max. Earth dist.	-5679 Nov 02 j 18:31	0°♌47'08 6.14304 AU	direct	-5672 Jan 14 j 02:11	6°♌43'34	
morning rise	-5679 Nov 15 j 23:49	3°♌52'28	asc. node	-5672 Apr 16 j 02:13	17°♌39'06	
retrograde	-5678 Mar 25 j 00:03	23°♌10'03	evening set	-5672 May 21 j 04:41	25°♌02'35	
opposition	-5678 May 25 j 00:41	18°♌12'08 0°13'23				
min. Earth dist.	-5678 May 25 j 01:13	18°♌11'57 4.09560 AU	conjunction	-5672 Jun 03 j 16:34	28°♌01'03	0°05'56
direct	-5678 Jul 23 j 15:40	13°♌19'03	minimum elong	-5672 Jun 03 j 16:33	28°♌01'03	0°06'04
desc. node	-5678 Aug 01 j 01:32	13°♌26'02	behind sun begin	-5672 Jun 03 j 08:46	27°♌56'46	
	-5678 Nov 15 j 03:31	0°♌	behind sun end	-5672 Jun 04 j 00:21	28°♌05'20	
evening set	-5678 Nov 24 j 10:54	2°♌10'43	max. Earth dist.	-5672 Jun 03 j 09:20	27°♌57'05	6.32476 AU

Attention, astronomical year style is used: The year -5672 in astronomical counting style is the year 5673 BCE in historical counting style.

	-5672 Jun 12 j 16:07	0°♄		direct	-5666 Jul 28 j 13:17	18°♄18'49	
morning rise	-5672 Jun 17 j 01:40	0°♄57'59			-5666 Oct 28 j 15:12	0°♄	
	-5672 Aug 30 j 14:17	15°♄		evening set	-5666 Nov 29 j 09:28	7°♄14'04	
retrograde	-5672 Oct 16 j 06:58	18°♄18'32					
	-5672 Dec 02 j 11:06	15°♄		conjunction	-5666 Dec 12 j 09:52	10°♄19'18	-0°24'10
opposition	-5672 Dec 15 j 00:10	13°♄23'08	0°42'12	minimum elong	-5666 Dec 12 j 09:50	10°♄19'16	0°24'22
min. Earth dist.	-5672 Dec 15 j 11:52	13°♄19'18	4.35706 AU	max. Earth dist.	-5666 Dec 13 j 01:49	10°♄28'46	6.04808 AU
direct	-5671 Feb 14 j 21:22	8°♄19'22		morning rise	-5666 Dec 25 j 13:14	13°♄26'16	
	-5671 Apr 26 j 18:39	15°♄			-5665 Jan 01 j 05:01	15°♄	
evening set	-5671 Jun 22 j 21:14	26°♄21'31			-5665 Mar 18 j 14:35	0°♄	
max. Earth dist.	-5671 Jul 04 j 21:44	28°♄59'36	6.37699 AU	retrograde	-5665 May 06 j 06:29	3°♄32'01	
					-5665 Jun 24 j 05:39	30°♄	
conjunction	-5671 Jul 06 j 00:02	29°♄14'03	0°50'29	opposition	-5665 Jul 05 j 17:01	28°♄29'42	-1°13'22
minimum elong	-5671 Jul 05 j 23:58	29°♄14'02	0°50'45	min. Earth dist.	-5665 Jul 04 j 22:48	28°♄35'46	4.02761 AU
	-5671 Jul 09 j 11:35	0°♄		direct	-5665 Sep 02 j 02:20	23°♄36'11	
morning rise	-5671 Jul 18 j 23:16	2°♄04'52			-5665 Nov 05 j 18:39	0°♄	
retrograde	-5671 Nov 16 j 04:42	19°♄08'02		evening set	-5664 Jan 04 j 07:39	12°♄47'38	
opposition	-5670 Jan 15 j 11:00	14°♄15'26	1°38'21				
min. Earth dist.	-5670 Jan 16 j 09:37	14°♄08'08	4.38449 AU	conjunction	-5664 Jan 17 j 15:33	15°♄57'15	-1°08'09
direct	-5670 Mar 18 j 23:31	9°♄13'03		minimum elong	-5664 Jan 17 j 15:29	15°♄57'12	1°08'28
evening set	-5670 Jul 24 j 10:34	27°♄08'37		max. Earth dist.	-5664 Jan 19 j 04:06	16°♄18'56	6.02209 AU
max. Earth dist.	-5670 Aug 04 j 14:05	29°♄36'11	6.37622 AU	morning rise	-5664 Jan 31 j 02:54	19°♄08'37	
					-5664 Mar 20 j 09:23	0°♄	
conjunction	-5670 Aug 06 j 04:07	29°♄57'15	1°20'16	retrograde	-5664 Jun 11 j 00:46	9°♄22'13	
minimum elong	-5670 Aug 06 j 04:04	29°♄57'14	1°20'36	opposition	-5664 Aug 09 j 22:47	4°♄17'21	-2°02'05
	-5670 Aug 06 j 09:05	0°♄		min. Earth dist.	-5664 Aug 08 j 18:48	4°♄26'51	4.03490 AU
morning rise	-5670 Aug 18 j 18:49	2°♄44'32			-5664 Sep 17 j 14:05	30°♄	
retrograde	-5670 Dec 17 j 18:10	19°♄55'59		direct	-5664 Oct 06 j 22:11	29°♄21'16	
opposition	-5669 Feb 16 j 11:24	15°♄04'34	2°06'57		-5664 Oct 26 j 10:09	0°♄	
min. Earth dist.	-5669 Feb 17 j 16:42	14°♄55'15	4.35678 AU	evening set	-5663 Feb 09 j 07:23	18°♄35'14	
direct	-5669 Apr 20 j 02:07	10°♄04'34					
evening set	-5669 Aug 24 j 11:57	28°♄04'14		conjunction	-5663 Feb 22 j 21:36	21°♄45'45	-1°26'39
	-5669 Sep 02 j 02:33	0°♄		minimum elong	-5663 Feb 22 j 21:36	21°♄45'45	1°26'58
max. Earth dist.	-5669 Sep 04 j 08:17	0°♄30'13	6.32259 AU	max. Earth dist.	-5663 Feb 24 j 17:16	22°♄11'18	6.06027 AU
				morning rise	-5663 Mar 08 j 14:16	24°♄57'22	
conjunction	-5669 Sep 05 j 23:59	0°♄52'33	1°27'24		-5663 Mar 30 j 19:07	0°♄	
minimum elong	-5669 Sep 05 j 24:00	0°♄52'34	1°27'42	retrograde	-5663 Jul 16 j 13:12	14°♄40'39	
morning rise	-5669 Sep 18 j 10:31	3°♄40'14		min. Earth dist.	-5663 Sep 12 j 22:33	9°♄44'32	4.10028 AU
	-5669 Nov 12 j 22:43	15°♄		opposition	-5663 Sep 14 j 00:12	9°♄35'45	-2°04'38
retrograde	-5668 Jan 19 j 12:33	21°♄23'16		direct	-5663 Nov 11 j 12:41	4°♄36'12	
opposition	-5668 Mar 20 j 15:15	16°♄31'03	1°59'27		-5662 Feb 06 j 12:10	15°♄	
min. Earth dist.	-5668 Mar 21 j 16:59	16°♄22'52	4.28083 AU	evening set	-5662 Mar 18 j 02:53	23°♄36'50	
	-5668 Apr 01 j 18:42	15°♄					
direct	-5668 May 21 j 13:39	11°♄33'55		conjunction	-5662 Mar 31 j 20:56	26°♄45'10	-1°13'18
	-5668 Jul 09 j 05:33	15°♄		minimum elong	-5662 Mar 31 j 21:00	26°♄45'13	1°13'30
evening set	-5668 Sep 23 j 19:50	29°♄46'59		max. Earth dist.	-5662 Apr 02 j 08:29	27°♄05'29	6.14689 AU
	-5668 Sep 24 j 18:39	0°♄		morning rise	-5662 Apr 14 j 15:18	29°♄53'30	
max. Earth dist.	-5668 Oct 05 j 03:31	2°♄22'39	6.23076 AU		-5662 Apr 15 j 02:45	0°♄	
				retrograde	-5662 Aug 19 j 06:06	18°♄42'38	
conjunction	-5668 Oct 06 j 07:52	2°♄38'57	1°08'47	opposition	-5662 Oct 17 j 13:09	13°♄40'14	-1°23'41
minimum elong	-5668 Oct 06 j 07:55	2°♄38'59	1°08'58	min. Earth dist.	-5662 Oct 16 j 20:59	13°♄45'43	4.19866 AU
morning rise	-5668 Oct 18 j 19:55	5°♄31'11		direct	-5662 Dec 16 j 02:49	8°♄37'51	
retrograde	-5667 Feb 22 j 01:23	24°♄02'49		evening set	-5661 Apr 22 j 17:43	27°♄15'47	
opposition	-5667 Apr 24 j 05:49	19°♄08'06	1°14'33		-5661 May 04 j 24:00	0°♄	
min. Earth dist.	-5667 Apr 24 j 20:55	19°♄03'16	4.17848 AU				
direct	-5667 Jun 24 j 00:59	14°♄13'41		conjunction	-5661 May 06 j 10:41	0°♄19'25	-0°35'24
	-5667 Oct 14 j 04:39	0°♄		minimum elong	-5661 May 06 j 10:45	0°♄19'26	0°35'26
evening set	-5667 Oct 26 j 06:05	2°♄46'47		max. Earth dist.	-5661 May 06 j 23:29	0°♄26'34	6.24983 AU
				morning rise	-5661 May 20 j 02:14	3°♄22'06	
conjunction	-5667 Nov 07 j 22:53	5°♄45'14	0°27'43	retrograde	-5661 Sep 20 j 09:04	21°♄16'37	
minimum elong	-5667 Nov 07 j 22:56	5°♄45'15	0°27'43	opposition	-5661 Nov 18 j 18:55	16°♄17'57	-0°17'45
max. Earth dist.	-5667 Nov 07 j 12:49	5°♄39'20	6.12771 AU	min. Earth dist.	-5661 Nov 18 j 18:01	16°♄18'15	4.29614 AU
morning rise	-5667 Nov 20 j 17:45	8°♄44'54		direct	-5660 Jan 18 j 16:19	11°♄14'07	
retrograde	-5666 Mar 30 j 03:10	28°♄10'14		asc. node	-5660 Feb 25 j 17:04	13°♄23'13	
opposition	-5666 Mar 30 j 03:20	23°♄11'47	0°02'18	evening set	-5660 May 25 j 17:56	29°♄29'56	
min. Earth dist.	-5666 May 30 j 00:31	23°♄12'42	4.08247 AU		-5660 May 28 j 00:50	0°♄	
desc. node	-5666 Jun 10 j 17:28	21°♄42'38					

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 22

Attention, astronomical year style is used: The year -5660 in astronomical counting style is the year 5661 BCE in historical counting style.

conjunction	-5660 Jun 08 j 04:53	2°♄27'34	0°12'30	desc. node	-5654 Apr 19 j 22:51	2°♍53'04	
minimum elong	-5660 Jun 08 j 04:52	2°♄27'33	0°12'40		-5654 May 21 j 21:38	30°♋♄	
behind sun begin	-5660 Jun 07 j 23:46	2°♄24'45		opposition	-5654 Jun 04 j 08:01	28°♄16'54	-0°09'00
behind sun end	-5660 Jun 08 j 09:58	2°♄30'21		min. Earth dist.	-5654 Jun 04 j 03:10	28°♄18'30	4.07242 AU
max. Earth dist.	-5660 Jun 07 j 19:12	2°♄22'14	6.33507 AU	direct	-5654 Aug 02 j 14:51	23°♄23'58	
morning rise	-5660 Jun 21 j 12:34	5°♄23'33			-5654 Oct 07 j 23:33	0°♍	
	-5660 Aug 07 j 10:05	15°♄		evening set	-5654 Dec 04 j 09:34	12°♍21'23	
retrograde	-5660 Oct 20 j 11:45	22°♄40'20			-5654 Dec 15 j 13:00	15°♍	
opposition	-5660 Dec 19 j 07:14	17°♄45'26	0°51'03				
min. Earth dist.	-5660 Dec 19 j 20:21	17°♄41'08	4.36310 AU	conjunction	-5654 Dec 17 j 10:55	15°♍27'18	-0°31'22
	-5659 Jan 10 j 15:20	15°♋♄		minimum elong	-5654 Dec 17 j 10:53	15°♍27'16	0°31'36
direct	-5659 Feb 19 j 05:58	12°♄41'49		max. Earth dist.	-5654 Dec 18 j 06:04	15°♍38'40	6.04251 AU
	-5659 Mar 31 j 06:22	15°♄		morning rise	-5654 Dec 30 j 15:35	18°♍35'01	
	-5659 Jun 23 j 23:30	0°♄			-5653 Feb 20 j 18:33	0°♋	
evening set	-5659 Jun 27 j 06:31	0°♄43'00		retrograde	-5653 May 11 j 10:52	8°♋43'07	
max. Earth dist.	-5659 Jul 09 j 01:52	3°♄18'24	6.37813 AU	opposition	-5653 Jul 10 j 21:08	3°♋40'16	-1°22'32
				min. Earth dist.	-5653 Jul 10 j 00:01	3°♋47'19	4.02732 AU
conjunction	-5659 Jul 10 j 07:53	3°♄34'55	0°55'39		-5653 Aug 11 j 02:02	30°♋♍	
minimum elong	-5659 Jul 10 j 07:49	3°♄34'53	0°55'56	direct	-5653 Sep 07 j 03:14	28°♍46'29	
morning rise	-5659 Jul 23 j 05:58	6°♄25'12			-5653 Oct 04 j 04:15	0°♋	
retrograde	-5659 Nov 20 j 13:30	23°♄28'53		evening set	-5652 Jan 09 j 11:54	17°♋58'04	
opposition	-5658 Jan 19 j 19:46	18°♄36'36	1°44'09				
min. Earth dist.	-5658 Jan 20 j 20:57	18°♄28'30	4.38087 AU	conjunction	-5652 Jan 22 j 20:41	21°♋07'50	-1°12'36
direct	-5658 Mar 23 j 09:58	13°♄34'30		minimum elong	-5652 Jan 22 j 20:37	21°♋07'47	1°12'56
	-5658 Jul 21 j 19:09	0°♄		max. Earth dist.	-5652 Jan 24 j 11:07	21°♋30'36	6.02662 AU
evening set	-5658 Jul 28 j 17:57	1°♄31'16		morning rise	-5652 Feb 05 j 08:48	24°♋19'16	
max. Earth dist.	-5658 Aug 08 j 19:32	3°♄58'07	6.36787 AU		-5652 Mar 01 j 02:56	0°♄	
				retrograde	-5652 Jun 16 j 02:26	14°♄29'34	
conjunction	-5658 Aug 10 j 10:40	4°♄19'50	1°22'41	opposition	-5652 Aug 14 j 22:55	9°♄24'29	-2°05'23
minimum elong	-5658 Aug 10 j 10:38	4°♄19'49	1°23'01	min. Earth dist.	-5652 Aug 13 j 19:15	9°♄33'54	4.04381 AU
morning rise	-5658 Aug 23 j 00:32	7°♄07'07		direct	-5652 Oct 12 j 00:31	4°♄27'54	
retrograde	-5658 Dec 22 j 05:25	24°♄23'06		evening set	-5651 Feb 14 j 11:39	23°♄39'43	
opposition	-5657 Feb 21 j 00:24	19°♄31'40	2°08'09				
min. Earth dist.	-5657 Feb 22 j 04:58	19°♄22'35	4.34452 AU	conjunction	-5651 Feb 28 j 02:39	26°♄49'59	-1°26'39
direct	-5657 Apr 24 j 12:08	14°♄32'04		minimum elong	-5651 Feb 28 j 02:39	26°♄49'59	1°26'58
	-5657 Aug 17 j 05:20	0°♄		max. Earth dist.	-5651 Mar 01 j 23:10	27°♄15'55	6.07267 AU
evening set	-5657 Aug 28 j 20:30	2°♄34'39		morning rise	-5651 Mar 13 j 19:39	0°♄01'09	
max. Earth dist.	-5657 Sep 08 j 18:10	5°♄01'55	6.30742 AU		-5651 Mar 13 j 17:39	0°♄	
					-5651 May 26 j 21:32	15°♄	
conjunction	-5657 Sep 10 j 08:15	5°♄23'27	1°26'17	retrograde	-5651 Jul 21 j 08:37	19°♄36'51	
minimum elong	-5657 Sep 10 j 08:17	5°♄23'27	1°26'35		-5651 Sep 15 j 09:06	15°♋♄	
morning rise	-5657 Sep 22 j 18:40	8°♄11'43		opposition	-5651 Sep 18 j 18:34	14°♄32'12	-2°01'12
	-5657 Oct 24 j 04:48	15°♄		min. Earth dist.	-5651 Sep 17 j 17:42	14°♄40'42	4.11497 AU
retrograde	-5656 Jan 24 j 08:03	26°♄02'08		direct	-5651 Nov 16 j 09:29	9°♄32'13	
opposition	-5656 Mar 25 j 10:20	21°♄09'43	1°55'15		-5650 Jan 15 j 20:35	15°♄	
min. Earth dist.	-5656 Mar 26 j 11:35	21°♄01'42	4.26372 AU	evening set	-5650 Mar 23 j 03:35	28°♄29'12	
direct	-5656 May 26 j 06:00	16°♄13'04			-5650 Mar 29 j 19:30	0°♄	
	-5656 Sep 08 j 06:54	0°♄					
evening set	-5656 Sep 28 j 08:14	4°♄29'50		conjunction	-5650 Apr 05 j 21:36	1°♄36'53	-1°09'12
				minimum elong	-5650 Apr 05 j 21:40	1°♄36'55	1°09'22
conjunction	-5656 Oct 10 j 20:41	7°♄22'44	1°04'06	max. Earth dist.	-5650 Apr 07 j 04:55	1°♄54'43	6.16261 AU
minimum elong	-5656 Oct 10 j 20:45	7°♄22'47	1°04'15	morning rise	-5650 Apr 19 j 15:59	4°♄44'30	
max. Earth dist.	-5656 Oct 09 j 17:53	7°♄07'16	6.21328 AU	retrograde	-5650 Aug 23 j 18:44	23°♄25'13	
morning rise	-5656 Oct 23 j 09:38	10°♄16'04		opposition	-5650 Oct 22 j 02:09	18°♄23'15	-1°15'30
retrograde	-5655 Feb 27 j 01:18	28°♄56'10		min. Earth dist.	-5650 Oct 21 j 12:27	18°♄27'54	4.21387 AU
opposition	-5655 Apr 29 j 06:37	24°♄00'57	1°05'28	direct	-5650 Dec 20 j 20:30	13°♄20'32	
min. Earth dist.	-5655 Apr 29 j 18:04	23°♄57'16	4.16201 AU		-5649 Apr 18 j 20:15	0°♄	
direct	-5655 Jun 28 j 20:13	19°♄06'50		evening set	-5649 Apr 27 j 12:57	1°♄54'54	
	-5655 Sep 26 j 11:26	0°♄					
evening set	-5655 Oct 31 j 00:06	7°♄43'29		conjunction	-5649 May 11 j 05:32	4°♄57'47	-0°29'00
				minimum elong	-5649 May 11 j 05:35	4°♄57'48	0°29'00
conjunction	-5655 Nov 12 j 17:59	10°♄42'59	0°20'35	max. Earth dist.	-5649 May 11 j 16:06	5°♄03'40	6.26365 AU
minimum elong	-5655 Nov 12 j 18:01	10°♄43'00	0°20'34	morning rise	-5649 May 24 j 20:04	7°♄59'30	
max. Earth dist.	-5655 Nov 12 j 13:07	10°♄40'07	6.11386 AU	retrograde	-5649 Sep 24 j 17:12	25°♄47'33	
morning rise	-5655 Nov 25 j 13:53	13°♄43'45		opposition	-5649 Nov 23 j 04:19	20°♄49'28	-0°07'54
	-5654 Feb 16 j 11:24	0°♄		min. Earth dist.	-5649 Nov 23 j 05:17	20°♄49'09	4.30747 AU
retrograde	-5654 Apr 04 j 10:23	3°♄15'58		asc. node	-5648 Jan 06 j 02:31	16°♄13'18	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 23

Attention, astronomical year style is used: The year -5648 in astronomical counting style is the year 5649 BCE in historical counting style.

direct	-5648 Jan 23 j 05:06	15° Υ 45'36		behind sun begin	-5643 Nov 17 j 07:04	15° Ω 33'41	
	-5648 May 11 j 19:23	0° \mathcal{B}		behind sun end	-5643 Nov 17 j 16:29	15° Ω 39'12	
evening set	-5648 May 30 j 08:09	3° \mathcal{B} 59'03		max. Earth dist.	-5643 Nov 17 j 09:59	15° Ω 35'23	6.10438 AU
				morning rise	-5643 Nov 30 j 08:52	18° Ω 38'08	
conjunction	-5648 Jun 12 j 17:47	6° \mathcal{B} 55'51	0°19'04		-5642 Jan 21 j 20:34	0° \mathcal{M}	
minimum elong	-5648 Jun 12 j 17:45	6° \mathcal{B} 55'50	0°19'14	desc. node	-5642 Feb 28 j 10:25	5° \mathcal{M} 50'10	
max. Earth dist.	-5648 Jun 12 j 03:19	6° \mathcal{B} 47'53	6.34300 AU	retrograde	-5642 Apr 09 j 12:16	8° \mathcal{M} 15'27	
morning rise	-5648 Jun 26 j 00:23	9° \mathcal{B} 51'03		opposition	-5642 Jun 09 j 09:36	3° \mathcal{M} 15'50	-0°19'57
	-5648 Jul 20 j 02:42	15° \mathcal{B}		min. Earth dist.	-5642 Jun 09 j 01:23	3° \mathcal{M} 18'32	4.06624 AU
retrograde	-5648 Oct 24 j 19:57	27° \mathcal{B} 04'55			-5642 Jul 06 j 17:52	30° \mathcal{R} Ω	
opposition	-5648 Dec 23 j 16:06	22° \mathcal{B} 10'27	0°59'44	direct	-5642 Aug 07 j 11:30	28° Ω 22'57	
min. Earth dist.	-5648 Dec 24 j 07:58	22° \mathcal{B} 05'16	4.36731 AU		-5642 Sep 07 j 23:29	0° \mathcal{M}	
direct	-5647 Feb 23 j 18:12	17° \mathcal{B} 06'57			-5642 Nov 29 j 05:38	15° \mathcal{M}	
	-5647 Jun 07 j 15:10	0° \mathcal{I}		evening set	-5642 Dec 09 j 07:28	17° \mathcal{M} 21'40	
evening set	-5647 Jul 01 j 16:44	5° \mathcal{I} 07'27					
max. Earth dist.	-5647 Jul 13 j 10:13	7° \mathcal{I} 41'55	6.37819 AU	conjunction	-5642 Dec 22 j 09:49	20° \mathcal{M} 28'07	-0°38'09
				minimum elong	-5642 Dec 22 j 09:45	20° \mathcal{M} 28'05	0°38'23
conjunction	-5647 Jul 14 j 16:59	7° \mathcal{I} 58'51	1°00'35	max. Earth dist.	-5642 Dec 23 j 07:56	20° \mathcal{M} 41'16	6.03999 AU
minimum elong	-5647 Jul 14 j 16:55	7° \mathcal{I} 58'49	1°00'53	morning rise	-5641 Jan 04 j 15:28	23° \mathcal{M} 36'22	
morning rise	-5647 Jul 27 j 13:39	10° \mathcal{I} 48'35			-5641 Feb 01 j 13:12	0° \mathcal{J}	
retrograde	-5647 Nov 24 j 21:34	27° \mathcal{I} 53'11		retrograde	-5641 May 16 j 12:47	13° \mathcal{J} 45'45	
opposition	-5646 Jan 24 j 06:22	23° \mathcal{I} 01'08	1°49'29	opposition	-5641 Jul 15 j 21:29	8° \mathcal{J} 42'28	-1°30'46
min. Earth dist.	-5646 Jan 25 j 07:39	22° \mathcal{I} 53'01	4.37711 AU	min. Earth dist.	-5641 Jul 14 j 23:31	8° \mathcal{J} 49'50	4.02875 AU
direct	-5646 Mar 27 j 20:10	17° \mathcal{I} 59'24		direct	-5641 Sep 12 j 02:55	3° \mathcal{J} 48'23	
	-5646 Jul 05 j 06:01	0° \mathcal{E}		evening set	-5640 Jan 14 j 12:54	22° \mathcal{J} 59'55	
evening set	-5646 Aug 02 j 02:51	5° \mathcal{E} 57'07					
max. Earth dist.	-5646 Aug 13 j 02:18	8° \mathcal{E} 23'12	6.36051 AU	conjunction	-5640 Jan 27 j 22:40	26° \mathcal{J} 09'49	-1°16'22
				minimum elong	-5640 Jan 27 j 22:37	26° \mathcal{J} 09'47	1°16'42
conjunction	-5646 Aug 14 j 18:28	8° \mathcal{E} 45'33	1°24'42	max. Earth dist.	-5640 Jan 29 j 15:22	26° \mathcal{J} 33'52	6.03168 AU
minimum elong	-5646 Aug 14 j 18:26	8° \mathcal{E} 45'31	1°25'01	morning rise	-5640 Feb 10 j 11:32	29° \mathcal{J} 21'20	
morning rise	-5646 Aug 27 j 07:40	11° \mathcal{E} 32'49			-5640 Feb 13 j 05:37	0° \mathcal{Z}	
retrograde	-5646 Dec 26 j 19:53	28° \mathcal{E} 52'57		retrograde	-5640 Jun 21 j 01:13	19° \mathcal{Z} 28'08	
opposition	-5645 Feb 25 j 15:06	24° \mathcal{E} 01'34	2°08'39	opposition	-5640 Aug 19 j 19:16	14° \mathcal{Z} 23'02	-2°07'38
min. Earth dist.	-5645 Feb 26 j 20:24	23° \mathcal{E} 52'14	4.33418 AU	min. Earth dist.	-5640 Aug 18 j 15:38	14° \mathcal{Z} 32'26	4.05215 AU
direct	-5645 Apr 29 j 02:16	19° \mathcal{E} 02'25		direct	-5640 Oct 16 j 21:25	9° \mathcal{Z} 26'02	
	-5645 Jul 31 j 05:09	0° \mathcal{O}		evening set	-5639 Feb 19 j 12:55	28° \mathcal{Z} 36'16	
evening set	-5645 Sep 02 j 05:57	7° \mathcal{O} 07'00			-5639 Feb 25 j 13:26	0° \mathcal{X}	
max. Earth dist.	-5645 Sep 13 j 04:44	9° \mathcal{O} 35'21	6.29509 AU				
				conjunction	-5639 Mar 05 j 04:22	1° \mathcal{X} 46'18	-1°26'02
conjunction	-5645 Sep 14 j 17:35	9° \mathcal{O} 56'14	1°24'41	minimum elong	-5639 Mar 05 j 04:23	1° \mathcal{X} 46'18	1°26'20
minimum elong	-5645 Sep 14 j 17:37	9° \mathcal{O} 56'15	1°24'58	max. Earth dist.	-5639 Mar 06 j 22:03	2° \mathcal{X} 10'31	6.08329 AU
morning rise	-5645 Sep 27 j 04:01	12° \mathcal{O} 45'02		morning rise	-5639 Mar 18 j 21:56	4° \mathcal{X} 57'11	
	-5645 Oct 07 j 05:34	15° \mathcal{O}			-5639 May 04 j 05:11	15° \mathcal{X}	
	-5644 Jan 07 j 20:08	0° \mathcal{P}		retrograde	-5639 Jul 26 j 00:05	24° \mathcal{X} 26'15	
retrograde	-5644 Jan 29 j 01:45	0° \mathcal{P} 41'49		min. Earth dist.	-5639 Sep 22 j 10:22	19° \mathcal{X} 29'53	4.12675 AU
	-5644 Feb 19 j 10:12	30° \mathcal{R} \mathcal{O}		opposition	-5639 Sep 23 j 09:50	19° \mathcal{X} 21'51	-1°57'03
opposition	-5644 Mar 30 j 05:55	25° \mathcal{O} 49'07	1°50'20		-5639 Nov 01 j 15:23	15° \mathcal{R} \mathcal{X}	
min. Earth dist.	-5644 Mar 31 j 04:24	25° \mathcal{O} 41'58	4.25039 AU	direct	-5639 Nov 21 j 03:51	14° \mathcal{X} 21'25	
direct	-5644 May 30 j 21:04	20° \mathcal{O} 52'56			-5639 Dec 10 j 20:51	15° \mathcal{X}	
	-5644 Aug 21 j 05:49	0° \mathcal{P}			-5638 Mar 13 j 10:41	0° \mathcal{H}	
evening set	-5644 Oct 02 j 20:32	9° \mathcal{P} 12'02		evening set	-5638 Mar 28 j 01:52	3° \mathcal{H} 16'07	
max. Earth dist.	-5644 Oct 14 j 10:21	11° \mathcal{P} 52'20	6.20033 AU				
				conjunction	-5638 Apr 10 j 20:12	6° \mathcal{H} 23'24	-1°04'44
conjunction	-5644 Oct 15 j 09:29	12° \mathcal{P} 05'43	0°59'04	minimum elong	-5638 Apr 10 j 20:17	6° \mathcal{H} 23'26	1°04'53
minimum elong	-5644 Oct 15 j 09:33	12° \mathcal{P} 05'45	0°59'11	max. Earth dist.	-5638 Apr 12 j 01:43	6° \mathcal{H} 40'10	6.17490 AU
morning rise	-5644 Oct 27 j 23:06	14° \mathcal{P} 59'55		morning rise	-5638 Apr 24 j 14:16	9° \mathcal{H} 30'23	
	-5643 Jan 12 j 04:23	0° \mathcal{L}		retrograde	-5638 Aug 28 j 06:42	28° \mathcal{H} 04'06	
retrograde	-5643 Mar 04 j 02:45	3° \mathcal{L} 46'55		opposition	-5638 Oct 26 j 13:26	23° \mathcal{H} 02'41	-1°07'01
	-5643 Apr 25 j 06:34	30° \mathcal{R} \mathcal{P}		min. Earth dist.	-5638 Oct 26 j 01:55	23° \mathcal{H} 06'34	4.22542 AU
opposition	-5643 May 04 j 06:40	28° \mathcal{P} 51'14	0°56'03	direct	-5638 Dec 25 j 11:33	17° \mathcal{H} 59'46	
min. Earth dist.	-5643 May 04 j 16:28	28° \mathcal{P} 48'05	4.15020 AU		-5637 Apr 01 j 19:26	0° \mathcal{Y}	
direct	-5643 Jul 03 j 17:15	23° \mathcal{P} 57'25		evening set	-5637 May 02 j 07:03	6° \mathcal{Y} 31'57	
	-5643 Sep 05 j 21:38	0° \mathcal{L}					
evening set	-5643 Nov 04 j 16:59	12° \mathcal{L} 36'07		conjunction	-5637 May 15 j 22:56	9° \mathcal{Y} 34'09	-0°22'31
				minimum elong	-5637 May 15 j 22:58	9° \mathcal{Y} 34'10	0°22'29
conjunction	-5643 Nov 17 j 11:46	15° \mathcal{L} 36'26	0°13'28	max. Earth dist.	-5637 May 16 j 04:59	9° \mathcal{Y} 37'31	6.27365 AU
minimum elong	-5643 Nov 17 j 11:47	15° \mathcal{L} 36'26	0°13'24	morning rise	-5637 May 29 j 12:49	12° \mathcal{Y} 35'11	

Attention, astronomical year style is used: The year -5637 in astronomical counting style is the year 5638 BCE in historical counting style.

	-5637 Sep 15 j 10:53	0°♄		morning rise	-5632 Nov 01 j 11:55	19°♎41'28	
retrograde	-5637 Sep 29 j 01:19	0°♄18'17			-5632 Dec 19 j 09:56	0°♊	
	-5637 Oct 12 j 15:08	30°♋♌		retrograde	-5631 Mar 09 j 00:49	8°♊35'03	
asc. node	-5637 Nov 17 j 01:07	26°♌43'30		opposition	-5631 May 09 j 05:11	3°♊38'50	0°46'18
opposition	-5637 Nov 27 j 13:38	25°♌20'42	0°01'54	min. Earth dist.	-5631 May 09 j 12:08	3°♊36'35	4.13819 AU
min. Earth dist.	-5637 Nov 27 j 16:44	25°♌19'40	4.31531 AU		-5631 Jun 10 j 06:05	30°♋♌	
direct	-5636 Jan 27 j 18:08	20°♌16'46		direct	-5631 Jul 08 j 10:16	28°♌45'12	
	-5636 Apr 24 j 01:03	0°♄			-5631 Aug 05 j 10:17	0°♊	
evening set	-5636 Jun 03 j 21:58	8°♄28'53		evening set	-5631 Nov 09 j 09:14	17°♊26'23	
conjunction	-5636 Jun 17 j 06:33	11°♄25'01	0°25'29	conjunction	-5631 Nov 22 j 04:57	20°♊27'34	0°06'18
minimum elong	-5636 Jun 17 j 06:31	11°♄24'59	0°25'41	minimum elong	-5631 Nov 22 j 04:56	20°♊27'34	0°06'12
max. Earth dist.	-5636 Jun 16 j 14:46	11°♄16'19	6.34825 AU	behind sun begin	-5631 Nov 21 j 21:17	20°♊23'04	
morning rise	-5636 Jun 30 j 11:43	14°♄19'26		behind sun end	-5631 Nov 22 j 12:36	20°♊32'04	
	-5636 Jul 03 j 14:02	15°♄		max. Earth dist.	-5631 Nov 22 j 05:58	20°♊28'10	6.09374 AU
	-5636 Sep 28 j 00:18	0°♌		morning rise	-5631 Dec 05 j 03:11	23°♊30'14	
retrograde	-5636 Oct 29 j 03:25	1°♌31'15			-5630 Jan 02 j 16:55	0°♌	
	-5636 Nov 29 j 07:25	30°♋♄		desc. node	-5630 Jan 08 j 22:00	1°♌19'57	
opposition	-5636 Dec 28 j 01:25	26°♄37'13	1°08'04	retrograde	-5630 Apr 14 j 14:48	13°♌13'18	
min. Earth dist.	-5636 Dec 28 j 18:19	26°♄31'43	4.36986 AU	opposition	-5630 Jun 14 j 10:31	8°♌13'04	-0°30'46
direct	-5635 Feb 28 j 05:50	21°♄33'56		min. Earth dist.	-5630 Jun 14 j 00:43	8°♌16'18	4.05783 AU
	-5635 May 20 j 07:30	0°♌		direct	-5630 Aug 12 j 09:34	3°♌20'04	
evening set	-5635 Jul 06 j 03:32	9°♌33'59			-5630 Nov 11 j 23:16	15°♌	
max. Earth dist.	-5635 Jul 17 j 16:46	12°♌06'20	6.37765 AU	evening set	-5630 Dec 14 j 05:23	22°♌21'13	
conjunction	-5635 Jul 19 j 02:20	12°♌24'50	1°05'11	conjunction	-5630 Dec 27 j 08:52	25°♌28'21	-0°44'39
minimum elong	-5635 Jul 19 j 02:16	12°♌24'48	1°05'29	minimum elong	-5630 Dec 27 j 08:48	25°♌28'19	0°44'55
morning rise	-5635 Jul 31 j 21:57	15°♌14'06		max. Earth dist.	-5630 Dec 28 j 10:31	25°♌43'36	6.03454 AU
	-5635 Oct 21 j 05:23	0°♄		morning rise	-5629 Jan 09 j 15:36	28°♌37'19	
retrograde	-5635 Nov 29 j 07:57	2°♄19'38			-5629 Jan 15 j 12:25	0°♌	
	-5634 Jan 07 j 20:25	30°♋♌		retrograde	-5629 May 21 j 15:52	18°♌48'55	
opposition	-5634 Jan 28 j 17:51	27°♌27'43	1°54'12	opposition	-5629 Jul 20 j 21:58	13°♌45'18	-1°38'25
min. Earth dist.	-5634 Jan 29 j 20:22	27°♌19'13	4.37377 AU	min. Earth dist.	-5629 Jul 19 j 22:53	13°♌53'03	4.02709 AU
direct	-5634 Apr 01 j 08:59	22°♌26'14		direct	-5629 Sep 17 j 01:27	8°♌50'53	
	-5634 Jun 16 j 10:42	0°♄		evening set	-5628 Jan 19 j 15:33	28°♌03'44	
evening set	-5634 Aug 06 j 11:33	10°♄24'17			-5628 Jan 27 j 20:56	0°♄	
max. Earth dist.	-5634 Aug 17 j 11:29	12°♄50'51	6.35445 AU	conjunction	-5628 Feb 02 j 02:05	1°♄13'55	-1°19'37
conjunction	-5634 Aug 19 j 02:30	13°♄12'35	1°26'13	minimum elong	-5628 Feb 02 j 02:02	1°♄13'53	1°19'56
minimum elong	-5634 Aug 19 j 02:28	13°♄12'35	1°26'33	max. Earth dist.	-5628 Feb 03 j 18:17	1°♄37'39	6.03358 AU
morning rise	-5634 Aug 31 j 14:50	15°♄59'47		morning rise	-5628 Feb 15 j 15:55	4°♄25'41	
	-5634 Nov 13 j 10:21	0°♌		retrograde	-5628 Jun 25 j 23:34	24°♄30'00	
retrograde	-5634 Dec 31 j 07:56	3°♌23'28		opposition	-5628 Aug 24 j 16:45	19°♄24'48	-2°09'01
	-5633 Feb 18 j 12:06	30°♋♄		min. Earth dist.	-5628 Aug 23 j 12:56	19°♄34'18	4.05746 AU
opposition	-5633 Mar 02 j 05:56	28°♄31'56	2°08'22	direct	-5628 Oct 21 j 19:48	14°♄27'17	
min. Earth dist.	-5633 Mar 03 j 09:51	28°♄23'04	4.32577 AU		-5627 Feb 08 j 19:12	0°♌	
direct	-5633 May 03 j 14:48	23°♄33'10		evening set	-5627 Feb 24 j 16:23	3°♌37'10	
	-5633 Jul 11 j 12:34	0°♌		conjunction	-5627 Mar 10 j 08:41	6°♌47'09	-1°24'46
evening set	-5633 Sep 06 j 14:52	11°♌38'45		minimum elong	-5627 Mar 10 j 08:43	6°♌47'10	1°25'03
max. Earth dist.	-5633 Sep 17 j 14:20	14°♌07'54	6.28481 AU	max. Earth dist.	-5627 Mar 12 j 02:29	7°♌11'23	6.09162 AU
conjunction	-5633 Sep 19 j 02:12	14°♌28'16	1°22'35	morning rise	-5627 Mar 24 j 02:30	9°♌57'47	
minimum elong	-5633 Sep 19 j 02:14	14°♌28'18	1°22'50		-5627 Apr 15 j 11:27	15°♌	
	-5633 Sep 21 j 10:03	15°♌		retrograde	-5627 Jul 30 j 19:52	29°♌20'50	
morning rise	-5633 Oct 01 j 12:47	17°♌17'32		min. Earth dist.	-5627 Sep 27 j 05:52	24°♌24'12	4.13706 AU
	-5633 Dec 03 j 14:32	0°♌		opposition	-5627 Sep 28 j 03:35	24°♌16'47	-1°52'00
retrograde	-5632 Feb 02 j 20:56	5°♌19'59		direct	-5627 Nov 26 j 00:39	19°♌16'00	
opposition	-5632 Apr 04 j 00:56	0°♌26'55	1°44'43		-5626 Feb 23 j 10:00	0°♌	
min. Earth dist.	-5632 Apr 04 j 22:49	0°♌19'56	4.23853 AU	evening set	-5626 Apr 02 j 02:55	8°♌08'46	
	-5632 Apr 07 j 13:32	30°♋♌		conjunction	-5626 Apr 15 j 21:13	11°♌15'35	-0°59'42
direct	-5632 Jun 04 j 13:50	25°♌31'00		minimum elong	-5626 Apr 15 j 21:17	11°♌15'37	0°59'50
	-5632 Jul 30 j 03:35	0°♌		max. Earth dist.	-5626 Apr 16 j 23:42	11°♌30'35	6.18647 AU
evening set	-5632 Oct 07 j 07:55	13°♌51'56		morning rise	-5626 Apr 29 j 15:10	14°♌22'00	
conjunction	-5632 Oct 19 j 21:30	16°♌46'22	0°53'40		-5626 Jul 21 j 07:56	0°♌	
minimum elong	-5632 Oct 19 j 21:34	16°♌46'24	0°53'47	retrograde	-5626 Sep 01 j 19:27	2°♌48'54	
max. Earth dist.	-5632 Oct 19 j 00:51	16°♌34'24	6.18796 AU		-5626 Oct 14 j 06:19	30°♋♌	

Attention, astronomical year style is used: The year -5626 in astronomical counting style is the year 5627 BCE in historical counting style.

opposition	-5626 Oct 31 j 03:27	27° H 48'00	-0°57'54			-5621 Nov 13 j 05:39	0° H	
min. Earth dist.	-5626 Oct 30 j 17:02	27° H 51'31	4.23730 AU	retrograde		-5620 Feb 07 j 11:03	9° H 50'35	
direct	-5626 Dec 30 j 05:10	22° H 44'55		opposition		-5620 Apr 08 j 16:27	4° H 57'13	1°38'34
	-5625 Mar 12 j 22:25	0° Y		min. Earth dist.		-5620 Apr 09 j 12:56	4° H 50'42	4.22885 AU
evening set	-5625 May 07 j 03:40	11° Y 14'37		direct		-5620 Jun 09 j 01:21	0° H 01'40	
				evening set		-5620 Oct 11 j 16:03	18° H 24'03	
conjunction	-5625 May 20 j 18:50	14° Y 16'03	-0°15'44	max. Earth dist.		-5620 Oct 23 j 10:28	21° H 07'47	6.17660 AU
minimum elong	-5625 May 20 j 18:51	14° Y 16'04	0°15'40					
behind sun begin	-5625 May 20 j 17:53	14° Y 15'32		conjunction		-5620 Oct 24 j 06:06	21° H 19'12	0°48'07
behind sun end	-5625 May 20 j 19:50	14° Y 16'36		minimum elong		-5620 Oct 24 j 06:10	21° H 19'14	0°48'12
max. Earth dist.	-5625 May 20 j 22:46	14° Y 18'14	6.28542 AU	morning rise		-5620 Nov 05 j 21:26	24° H 15'11	
morning rise	-5625 Jun 03 j 07:38	17° Y 16'11				-5620 Dec 01 j 10:22	0° A	
	-5625 Aug 07 j 00:32	0° B		retrograde		-5619 Mar 13 j 21:16	13° A 15'26	
asc. node	-5625 Sep 26 j 19:43	4° B 49'15		opposition		-5619 May 14 j 00:14	8° A 18'43	0°36'33
retrograde	-5625 Oct 03 j 12:22	4° B 53'40		min. Earth dist.		-5619 May 14 j 06:01	8° A 16'51	4.12570 AU
	-5625 Dec 01 j 15:19	30° R Y		direct		-5619 Jul 13 j 01:32	3° A 25'13	
opposition	-5625 Dec 02 j 01:16	29° Y 56'42	0°11'52	evening set		-5619 Nov 13 j 22:30	22° A 09'30	
min. Earth dist.	-5625 Dec 02 j 06:12	29° Y 55'04	4.32621 AU	desc. node		-5619 Nov 20 j 22:28	23° A 48'26	
direct	-5624 Feb 01 j 10:21	24° Y 52'54						
	-5624 Apr 02 j 07:11	0° B		conjunction		-5619 Nov 26 j 19:19	25° A 11'41	-0°00'48
evening set	-5624 Jun 08 j 13:25	13° B 02'21		minimum elong		-5619 Nov 26 j 19:19	25° A 11'42	0°00'55
	-5624 Jun 17 j 11:59	15° B		behind sun begin		-5619 Nov 26 j 11:13	25° A 06'56	
				behind sun end		-5619 Nov 27 j 03:25	25° A 16'28	
conjunction	-5624 Jun 21 j 20:36	15° B 57'33	0°31'51	max. Earth dist.		-5619 Nov 26 j 23:30	25° A 14'07	6.08149 AU
minimum elong	-5624 Jun 21 j 20:33	15° B 57'32	0°32'05	morning rise		-5619 Dec 09 j 18:41	28° A 15'25	
max. Earth dist.	-5624 Jun 21 j 02:02	15° B 47'21	6.35755 AU			-5619 Dec 17 j 05:49	0° M	
morning rise	-5624 Jul 05 j 00:27	18° B 51'03				-5618 Mar 05 j 05:07	15° M	
	-5624 Aug 29 j 21:43	0° II		retrograde		-5618 Apr 19 j 14:36	18° M 04'51	
retrograde	-5624 Nov 02 j 11:45	5° II 59'35				-5618 Jun 04 j 07:22	15° R M	
opposition	-5623 Jan 01 j 12:07	1° II 05'56	1°16'01	opposition		-5618 Jun 19 j 08:08	13° M 04'12	-0°41'02
min. Earth dist.	-5623 Jan 02 j 06:04	1° II 00'06	4.37724 AU	min. Earth dist.		-5618 Jun 18 j 20:54	13° M 07'55	4.04712 AU
	-5623 Jan 10 j 00:43	30° R B		direct		-5618 Aug 17 j 03:06	8° M 11'10	
direct	-5623 Mar 04 j 19:14	26° B 02'51				-5618 Oct 23 j 09:04	15° M	
	-5623 Apr 27 j 04:47	0° II		evening set		-5618 Dec 19 j 01:44	27° M 16'06	
evening set	-5623 Jul 10 j 13:55	14° II 00'35				-5618 Dec 30 j 13:45	0° X	
max. Earth dist.	-5623 Jul 22 j 02:14	16° II 32'22	6.38254 AU					
				conjunction		-5617 Jan 01 j 06:10	0° X 24'03	-0°50'39
conjunction	-5623 Jul 23 j 11:26	16° II 50'41	1°09'22	minimum elong		-5617 Jan 01 j 06:06	0° X 24'01	0°50'56
minimum elong	-5623 Jul 23 j 11:23	16° II 50'39	1°09'41	max. Earth dist.		-5617 Jan 02 j 08:37	0° X 39'48	6.02623 AU
morning rise	-5623 Aug 05 j 05:35	19° II 39'11		morning rise		-5617 Jan 14 j 14:11	3° X 33'54	
	-5623 Sep 25 j 09:30	0° E		retrograde		-5617 May 26 j 16:18	23° X 48'52	
retrograde	-5623 Dec 03 j 16:02	6° E 44'06		opposition		-5617 Jul 25 j 20:20	18° X 44'53	-1°45'09
opposition	-5622 Feb 02 j 04:52	1° E 52'24	1°58'08	min. Earth dist.		-5617 Jul 24 j 19:42	18° X 53'12	4.02229 AU
min. Earth dist.	-5622 Feb 03 j 07:39	1° E 43'51	4.37587 AU	direct		-5617 Sep 21 j 21:51	13° X 50'06	
	-5622 Feb 17 j 05:21	30° R II				-5616 Jan 11 j 09:43	0° Z	
direct	-5622 Apr 05 j 20:51	26° II 51'19		evening set		-5616 Jan 24 j 17:13	3° Z 05'41	
	-5622 May 23 j 02:40	0° E						
evening set	-5622 Aug 10 j 18:43	14° E 47'49		conjunction		-5616 Feb 07 j 04:57	6° Z 16'22	-1°22'09
max. Earth dist.	-5622 Aug 21 j 16:11	17° E 13'13	6.35340 AU	minimum elong		-5616 Feb 07 j 04:55	6° Z 16'21	1°22'29
				max. Earth dist.		-5616 Feb 08 j 23:36	6° Z 41'32	6.03281 AU
conjunction	-5622 Aug 23 j 08:35	17° E 35'45	1°27'11	morning rise		-5616 Feb 20 j 19:29	9° Z 28'29	
minimum elong	-5622 Aug 23 j 08:34	17° E 35'44	1°27'31	retrograde		-5616 Jun 30 j 23:34	29° Z 31'08	
morning rise	-5622 Sep 04 j 20:23	20° E 22'43		min. Earth dist.		-5616 Aug 28 j 10:31	24° Z 35'11	4.06086 AU
	-5622 Oct 21 j 06:32	0° O		opposition		-5616 Aug 29 j 13:41	24° Z 25'55	-2°09'22
retrograde	-5621 Jan 04 j 19:28	7° O 48'36		direct		-5616 Oct 26 j 17:49	19° Z 27'57	
opposition	-5621 Mar 06 j 18:41	2° O 56'59	2°07'15			-5615 Jan 21 j 15:21	0° A	
min. Earth dist.	-5621 Mar 07 j 22:58	2° O 48'00	4.32147 AU	evening set		-5615 Mar 01 j 19:50	8° A 37'56	
	-5621 Mar 31 j 16:41	30° R E						
direct	-5621 May 08 j 02:55	27° E 58'33		conjunction		-5615 Mar 15 j 12:40	11° A 47'52	-1°22'50
	-5621 Jun 14 j 06:27	0° O		minimum elong		-5615 Mar 15 j 12:42	11° A 47'53	1°23'05
	-5621 Sep 06 j 03:02	15° O		max. Earth dist.		-5615 Mar 17 j 05:27	12° A 11'27	6.09887 AU
evening set	-5621 Sep 10 j 20:51	16° O 03'57		morning rise		-5615 Mar 29 j 06:59	14° A 58'20	
max. Earth dist.	-5621 Sep 21 j 22:13	18° O 34'24	6.27768 AU			-5615 Mar 29 j 09:53	15° A	
						-5615 Jun 12 j 13:42	0° H	
conjunction	-5621 Sep 23 j 08:14	18° O 53'45	1°20'01	retrograde		-5615 Aug 04 j 12:36	4° H 15'17	
minimum elong	-5621 Sep 23 j 08:17	18° O 53'47	1°20'15			-5615 Sep 26 j 22:07	30° R A	
morning rise	-5621 Oct 05 j 18:49	21° O 43'22		opposition		-5615 Oct 02 j 20:45	29° A 11'29	-1°46'07

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 26

Attention, astronomical year style is used: The year -5615 in astronomical counting style is the year 5616 BCE in historical counting style.

min. Earth dist.	-5615 Oct 01 j 22:58	29°≈18'55	4.14737 AU	evening set	-5609 Sep 15 j 05:48	20°Ω36'13	
direct	-5615 Nov 30 j 20:30	24°≈10'16		max. Earth dist.	-5609 Sep 26 j 07:05	23°Ω07'08	6.26387 AU
	-5614 Feb 02 j 00:47	0°✕					
evening set	-5614 Apr 07 j 03:40	13°✕00'45		conjunction	-5609 Sep 27 j 17:07	23°Ω26'34	1°16'57
				minimum elong	-5609 Sep 27 j 17:10	23°Ω26'36	1°17'10
conjunction	-5614 Apr 20 j 21:53	16°✕07'00	-0°54'15	morning rise	-5609 Oct 10 j 04:12	26°Ω16'57	
minimum elong	-5614 Apr 20 j 21:58	16°✕07'02	0°54'21		-5609 Oct 26 j 19:11	0°൬	
max. Earth dist.	-5614 Apr 21 j 22:02	16°✕20'39	6.19913 AU	retrograde	-5608 Feb 12 j 07:43	14°൬31'29	
morning rise	-5614 May 04 j 15:26	19°✕12'41		opposition	-5608 Apr 13 j 12:47	9°൬37'43	1°31'38
	-5614 Jun 25 j 12:29	0°൬		min. Earth dist.	-5608 Apr 14 j 07:46	9°൬31'40	4.21319 AU
retrograde	-5614 Sep 06 j 09:29	7°൬32'04		direct	-5608 Jun 13 j 17:19	4°൬42'30	
opposition	-5614 Nov 04 j 16:51	2°൬31'36	-0°48'25	evening set	-5608 Oct 16 j 05:13	23°൬08'20	
min. Earth dist.	-5614 Nov 04 j 08:47	2°൬34'19	4.25068 AU				
	-5614 Nov 24 j 09:27	30°൬✕		conjunction	-5608 Oct 28 j 20:13	26°൬04'32	0°42'00
direct	-5613 Jan 04 j 00:05	27°✕28'15		minimum elong	-5608 Oct 28 j 20:17	26°൬04'34	0°42'03
	-5613 Feb 14 j 01:00	0°൬		max. Earth dist.	-5608 Oct 28 j 04:24	25°൬55'18	6.16072 AU
evening set	-5613 May 11 j 22:52	15°൬54'30		morning rise	-5608 Nov 10 j 12:25	29°൬01'37	
					-5608 Nov 14 j 17:30	0°Ω	
conjunction	-5613 May 25 j 13:13	18°൬55'03	-0°08'53	retrograde	-5607 Mar 18 j 23:31	18°Ω10'00	
minimum elong	-5613 May 25 j 13:14	18°൬55'03	0°08'48	opposition	-5607 May 19 j 01:17	13°Ω12'50	0°26'01
behind sun begin	-5613 May 25 j 06:09	18°൬51'09		min. Earth dist.	-5607 May 19 j 04:58	13°Ω11'38	4.11097 AU
behind sun end	-5613 May 25 j 20:18	18°൬58'58		direct	-5607 Jul 17 j 21:44	8°Ω19'37	
max. Earth dist.	-5613 May 25 j 14:38	18°൬55'50	6.29823 AU	desc. node	-5607 Sep 30 j 06:11	16°Ω18'40	
morning rise	-5613 Jun 08 j 00:56	21°൬54'11		evening set	-5607 Nov 18 j 18:21	27°Ω07'45	
	-5613 Jul 16 j 15:01	0°✕			-5607 Nov 30 j 21:40	0°൬	
asc. node	-5613 Aug 06 j 08:28	3°✕44'07					
retrograde	-5613 Oct 07 j 20:21	9°✕25'45		conjunction	-5607 Dec 01 j 16:07	0°൬10'55	-0°08'13
opposition	-5613 Dec 06 j 11:45	4°✕29'11	0°21'42	minimum elong	-5607 Dec 01 j 16:06	0°൬10'55	0°08'21
min. Earth dist.	-5613 Dec 06 j 17:47	4°✕27'12	4.33724 AU	behind sun begin	-5607 Dec 01 j 08:56	0°൬06'42	
	-5612 Jan 17 j 17:03	30°൬൬		behind sun end	-5607 Dec 01 j 23:16	0°൬15'08	
direct	-5612 Feb 05 j 23:57	29°൬25'18		max. Earth dist.	-5607 Dec 01 j 22:34	0°൬14'44	6.06930 AU
	-5612 Feb 25 j 12:41	0°✕		morning rise	-5607 Dec 14 j 16:53	3°൬15'47	
	-5612 Jun 01 j 09:37	15°✕			-5606 Feb 06 j 17:53	15°൬	
evening set	-5612 Jun 13 j 02:59	17°✕31'56		retrograde	-5606 Apr 24 j 19:30	23°൬11'19	
max. Earth dist.	-5612 Jun 25 j 11:51	20°✕14'42	6.36569 AU	opposition	-5606 Jun 24 j 11:50	18°൬10'10	-0°51'36
				min. Earth dist.	-5606 Jun 23 j 21:32	18°൬14'54	4.03901 AU
conjunction	-5612 Jun 26 j 08:46	20°✕26'12	0°37'59		-5606 Jul 20 j 15:07	15°൬൬	
minimum elong	-5612 Jun 26 j 08:43	20°✕26'11	0°38'15	direct	-5606 Aug 22 j 03:06	13°൬17'04	
morning rise	-5612 Jul 09 j 11:10	23°✕18'46			-5606 Sep 23 j 09:01	15°൬	
	-5612 Aug 10 j 05:02	0°Π			-5606 Dec 13 j 21:22	0°✕	
retrograde	-5612 Nov 06 j 20:18	10°Π24'40		evening set	-5606 Dec 24 j 03:48	2°✕24'38	
opposition	-5611 Jan 05 j 21:54	5°Π31'22	1°23'33				
min. Earth dist.	-5611 Jan 06 j 17:57	5°Π24'53	4.38185 AU	conjunction	-5605 Jan 06 j 09:28	5°✕33'14	-0°56'36
direct	-5611 Mar 09 j 08:01	0°Π28'29		minimum elong	-5605 Jan 06 j 09:24	5°✕33'12	0°56'54
evening set	-5611 Jul 14 j 23:25	18°Π24'52		max. Earth dist.	-5605 Jan 07 j 16:51	5°✕51'54	6.02315 AU
max. Earth dist.	-5611 Jul 26 j 07:46	20°Π54'36	6.38287 AU	morning rise	-5605 Jan 19 j 18:22	8°✕43'37	
				retrograde	-5605 May 31 j 21:54	28°✕59'17	
conjunction	-5611 Jul 27 j 19:37	21°Π14'23	1°13'13	opposition	-5605 Jul 30 j 22:58	23°✕55'00	-1°51'22
minimum elong	-5611 Jul 27 j 19:34	21°Π14'21	1°13'32	min. Earth dist.	-5605 Jul 29 j 21:42	24°✕03'33	4.02502 AU
morning rise	-5611 Aug 09 j 12:42	24°Π02'24		direct	-5605 Sep 27 j 00:07	18°✕59'55	
	-5611 Sep 06 j 13:11	0°Ω			-5605 Dec 24 j 05:56	0°Ω	
retrograde	-5611 Dec 08 j 01:41	11°Ω08'26		evening set	-5604 Jan 29 j 22:34	8°Ω15'09	
opposition	-5610 Feb 06 j 16:15	6°Ω16'49	2°01'33				
min. Earth dist.	-5610 Feb 07 j 19:43	6°Ω08'02	4.37211 AU	conjunction	-5604 Feb 12 j 11:00	11°Ω25'47	-1°24'12
direct	-5610 Apr 10 j 07:43	1°Ω15'59		minimum elong	-5604 Feb 12 j 10:58	11°Ω25'46	1°24'32
evening set	-5610 Aug 15 j 02:21	19°Ω12'59		max. Earth dist.	-5604 Feb 14 j 06:34	11°Ω51'25	6.04091 AU
max. Earth dist.	-5610 Aug 26 j 00:27	21°Ω39'00	6.34571 AU	morning rise	-5604 Feb 26 j 02:21	14°Ω37'48	
					-5604 May 11 j 15:23	0°≈	
conjunction	-5610 Aug 27 j 15:40	22°Ω00'56	1°27'44	retrograde	-5604 Jul 05 j 20:51	4°≈34'38	
minimum elong	-5610 Aug 27 j 15:40	22°Ω00'56	1°28'03		-5604 Aug 30 j 17:38	30°൬Ω	
morning rise	-5610 Sep 09 j 02:49	24°Ω47'59		min. Earth dist.	-5604 Sep 02 j 07:04	29°Ω39'02	4.07369 AU
	-5610 Oct 03 j 01:57	0°Ω		opposition	-5604 Sep 03 j 11:08	29°Ω29'27	-2°08'46
retrograde	-5609 Jan 09 j 09:26	12°Ω18'28		direct	-5604 Oct 31 j 16:24	24°Ω31'02	
opposition	-5609 Mar 11 j 09:56	7°Ω26'45	2°05'31		-5604 Dec 30 j 18:48	0°≈	
min. Earth dist.	-5609 Mar 12 j 13:56	7°Ω17'52	4.31030 AU	evening set	-5603 Mar 06 j 22:58	13°≈37'39	
direct	-5609 May 12 j 15:41	2°Ω28'44			-5603 Mar 12 j 22:27	15°≈	
	-5609 Aug 20 j 18:13	15°Ω					

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 27

Attention, astronomical year style is used: The year -5603 in astronomical counting style is the year 5604 BCE in historical counting style.

conjunction	-5603 Mar 20 j 16:12	16° \approx 47'01	-1°20'21	retrograde	-5597 Jan 14 j 00:55	16° Ω 50'56	
minimum elong	-5603 Mar 20 j 16:15	16° \approx 47'03	1°20'36		-5597 Feb 18 j 08:22	15° \mathbb{R} Ω	
max. Earth dist.	-5603 Mar 22 j 07:14	17° \approx 09'30	6.11523 AU	opposition	-5597 Mar 16 j 01:57	11° Ω 59'00	2°03'01
morning rise	-5603 Apr 03 j 10:36	19° \approx 56'47		min. Earth dist.	-5597 Mar 17 j 04:47	11° Ω 50'28	4.29376 AU
	-5603 May 20 j 05:56	0° \mathbb{H}		direct	-5597 May 17 j 03:48	7° Ω 01'21	
retrograde	-5603 Aug 09 j 04:46	9° \mathbb{H} 04'31			-5597 Aug 02 j 04:55	15° Ω	
opposition	-5603 Oct 07 j 12:03	4° \mathbb{H} 01'04	-1°39'38	evening set	-5597 Sep 19 j 15:57	25° Ω 12'36	
min. Earth dist.	-5603 Oct 06 j 16:41	4° \mathbb{H} 07'40	4.16526 AU	max. Earth dist.	-5597 Sep 30 j 21:02	27° Ω 46'16	6.24595 AU
	-5603 Nov 10 j 23:11	30° \mathbb{R} \approx					
direct	-5603 Dec 05 j 17:20	28° \approx 59'27		conjunction	-5597 Oct 02 j 03:42	28° Ω 03'50	1°13'20
	-5603 Dec 30 j 16:55	0° \mathbb{H}		minimum elong	-5597 Oct 02 j 03:46	28° Ω 03'52	1°13'32
evening set	-5602 Apr 12 j 00:49	17° \mathbb{H} 45'06			-5597 Oct 10 j 14:30	0° \mathbb{H}	
				morning rise	-5597 Oct 14 j 15:09	0° \mathbb{H} 55'09	
conjunction	-5602 Apr 25 j 18:51	20° \mathbb{H} 50'30	-0°48'37	retrograde	-5596 Feb 17 j 06:54	19° \mathbb{H} 18'12	
minimum elong	-5602 Apr 25 j 18:55	20° \mathbb{H} 50'32	0°48'41	opposition	-5596 Apr 18 j 11:16	14° \mathbb{H} 24'04	1°23'57
max. Earth dist.	-5602 Apr 26 j 16:42	21° \mathbb{H} 02'48	6.21713 AU	min. Earth dist.	-5596 Apr 19 j 04:32	14° \mathbb{H} 18'33	4.19512 AU
morning rise	-5602 May 09 j 11:46	23° \mathbb{H} 55'10		direct	-5596 Jun 18 j 11:40	9° \mathbb{H} 29'15	
	-5602 Jun 06 j 12:27	0° \mathbb{Y}		evening set	-5596 Oct 20 j 20:53	27° \mathbb{H} 59'03	
retrograde	-5602 Sep 10 j 17:23	12° \mathbb{Y} 05'53			-5596 Oct 29 j 12:22	0° $\underline{\Omega}$	
opposition	-5602 Nov 09 j 02:34	7° \mathbb{Y} 05'58	-0°39'00				
min. Earth dist.	-5602 Nov 08 j 19:50	7° \mathbb{Y} 08'14	4.26708 AU	conjunction	-5596 Nov 02 j 12:36	0° $\underline{\Omega}$ 56'19	0°35'28
direct	-5601 Jan 08 j 13:24	2° \mathbb{Y} 02'27		minimum elong	-5596 Nov 02 j 12:39	0° $\underline{\Omega}$ 56'20	0°35'29
evening set	-5601 May 16 j 13:41	20° \mathbb{Y} 24'40		max. Earth dist.	-5596 Nov 01 j 23:03	0° $\underline{\Omega}$ 48'23	6.14418 AU
				morning rise	-5596 Nov 15 j 06:06	3° $\underline{\Omega}$ 54'38	
conjunction	-5601 May 30 j 02:57	23° \mathbb{Y} 24'14	-0°02'15	retrograde	-5595 Mar 24 j 02:51	23° $\underline{\Omega}$ 11'03	
minimum elong	-5601 May 30 j 02:55	23° \mathbb{Y} 24'13	0°02'09	opposition	-5595 May 24 j 04:37	18° $\underline{\Omega}$ 13'15	0°15'03
behind sun begin	-5601 May 29 j 18:40	23° \mathbb{Y} 19'41		min. Earth dist.	-5595 May 24 j 04:31	18° $\underline{\Omega}$ 13'17	4.09736 AU
behind sun end	-5601 May 30 j 11:10	23° \mathbb{Y} 28'46		direct	-5595 Jul 22 j 20:07	13° $\underline{\Omega}$ 20'09	
max. Earth dist.	-5601 May 29 j 23:28	23° \mathbb{Y} 22'21	6.31176 AU	desc. node	-5595 Aug 09 j 01:26	13° $\underline{\Omega}$ 49'19	
morning rise	-5601 Jun 12 j 13:34	26° \mathbb{Y} 22'20			-5595 Nov 14 j 07:54	0° \mathbb{M}	
asc. node	-5601 Jun 17 j 05:51	27° \mathbb{Y} 23'49		evening set	-5595 Nov 23 j 16:28	2° \mathbb{M} 11'23	
	-5601 Jun 29 j 07:35	0° \mathbb{B}					
retrograde	-5601 Oct 12 j 03:19	13° \mathbb{B} 48'33		conjunction	-5595 Dec 06 j 15:28	5° \mathbb{M} 15'29	-0°15'40
opposition	-5601 Dec 10 j 18:39	8° \mathbb{B} 52'31	0°31'00	minimum elong	-5595 Dec 06 j 15:26	5° \mathbb{M} 15'28	0°15'50
min. Earth dist.	-5601 Dec 11 j 04:07	8° \mathbb{B} 49'24	4.34685 AU	behind sun begin	-5595 Dec 06 j 13:45	5° \mathbb{M} 14'28	
direct	-5600 Feb 10 j 11:28	3° \mathbb{B} 48'39		behind sun end	-5595 Dec 06 j 17:08	5° \mathbb{M} 16'28	
	-5600 May 15 j 17:02	15° \mathbb{B}		max. Earth dist.	-5595 Dec 07 j 03:31	5° \mathbb{M} 22'37	6.05991 AU
evening set	-5600 Jun 17 j 12:32	21° \mathbb{B} 53'14		morning rise	-5595 Dec 19 j 17:16	8° \mathbb{M} 21'14	
					-5594 Jan 17 j 19:41	15° \mathbb{M}	
conjunction	-5600 Jun 30 j 17:08	24° \mathbb{B} 46'48	0°43'43	retrograde	-5594 Apr 30 j 03:12	28° \mathbb{M} 21'05	
minimum elong	-5600 Jun 30 j 17:05	24° \mathbb{B} 46'46	0°43'57	opposition	-5594 Jun 29 j 16:32	23° \mathbb{M} 19'22	-1°01'53
max. Earth dist.	-5600 Jun 29 j 17:19	24° \mathbb{B} 33'42	6.37046 AU	min. Earth dist.	-5594 Jun 29 j 00:40	23° \mathbb{M} 24'38	4.03480 AU
morning rise	-5600 Jul 13 j 18:11	27° \mathbb{B} 38'37		direct	-5594 Aug 27 j 05:43	18° \mathbb{M} 26'05	
	-5600 Jul 24 j 15:14	0° \mathbb{I}			-5594 Nov 26 j 00:58	0° \mathbb{J}	
retrograde	-5600 Nov 11 j 01:16	14° \mathbb{I} 43'28		evening set	-5594 Dec 29 j 07:20	7° \mathbb{J} 34'43	
opposition	-5599 Jan 10 j 05:01	9° \mathbb{I} 50'30	1°30'24				
min. Earth dist.	-5599 Jan 11 j 02:13	9° \mathbb{I} 43'38	4.38179 AU	conjunction	-5593 Jan 11 j 13:51	10° \mathbb{J} 43'39	-1°02'09
direct	-5599 Mar 13 j 15:22	4° \mathbb{I} 47'47		minimum elong	-5593 Jan 11 j 13:47	10° \mathbb{J} 43'37	1°02'27
evening set	-5599 Jul 19 j 06:16	22° \mathbb{I} 44'30		max. Earth dist.	-5593 Jan 12 j 23:17	11° \mathbb{J} 03'30	6.02403 AU
max. Earth dist.	-5599 Jul 30 j 12:15	25° \mathbb{I} 13'13	6.37782 AU	morning rise	-5593 Jan 24 j 23:52	13° \mathbb{J} 54'24	
					-5593 Apr 14 j 09:35	0° \mathbb{Z}	
conjunction	-5599 Aug 01 j 01:20	25° \mathbb{I} 33'44	1°16'32	retrograde	-5593 Jun 05 j 23:57	4° \mathbb{Z} 08'31	
minimum elong	-5599 Aug 01 j 01:17	25° \mathbb{I} 33'42	1°16'52		-5593 Jul 29 j 02:10	30° \mathbb{R} \mathbb{J}	
morning rise	-5599 Aug 13 j 17:23	28° \mathbb{I} 21'31		min. Earth dist.	-5593 Aug 03 j 21:27	29° \mathbb{J} 13'08	4.03111 AU
	-5599 Aug 21 j 05:39	0° \mathbb{E}		opposition	-5593 Aug 05 j 00:38	29° \mathbb{J} 03'56	-1°56'41
retrograde	-5599 Dec 12 j 11:56	15° \mathbb{E} 30'43		direct	-5593 Oct 02 j 00:29	24° \mathbb{J} 08'24	
opposition	-5598 Feb 11 j 02:50	10° \mathbb{E} 39'14	2°04'15		-5593 Dec 02 j 18:14	0° \mathbb{Z}	
min. Earth dist.	-5598 Feb 12 j 07:46	10° \mathbb{E} 30'01	4.36249 AU	evening set	-5592 Feb 04 j 03:31	13° \mathbb{Z} 22'16	
direct	-5598 Apr 14 j 18:03	5° \mathbb{E} 38'46					
evening set	-5598 Aug 19 j 09:27	23° \mathbb{E} 38'05		conjunction	-5592 Feb 17 j 16:43	16° \mathbb{Z} 32'45	-1°25'37
max. Earth dist.	-5598 Aug 30 j 05:50	26° \mathbb{E} 03'42	6.33213 AU	minimum elong	-5592 Feb 17 j 16:42	16° \mathbb{Z} 32'45	1°25'56
				max. Earth dist.	-5592 Feb 19 j 12:24	16° \mathbb{Z} 58'23	6.05129 AU
conjunction	-5598 Aug 31 j 22:13	26° \mathbb{E} 26'21	1°27'45	morning rise	-5592 Mar 02 j 08:35	19° \mathbb{Z} 44'29	
minimum elong	-5598 Aug 31 j 22:13	26° \mathbb{E} 26'21	1°28'02		-5592 Apr 18 j 05:40	0° \approx	
morning rise	-5598 Sep 13 j 09:11	29° \mathbb{E} 13'50		retrograde	-5592 Jul 10 j 18:48	9° \approx 34'47	
	-5598 Sep 16 j 20:07	0° Ω		min. Earth dist.	-5592 Sep 07 j 05:02	4° \approx 38'46	4.08714 AU
	-5598 Dec 10 j 01:43	15° Ω		opposition	-5592 Sep 08 j 07:33	4° \approx 29'42	-2°07'16

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 28

Attention, astronomical year style is used: The year -5592 in astronomical counting style is the year 5593 BCE in historical counting style.

	-5592 Oct 19 j 19:02	30° κ 3		max. Earth dist.	-5586 Sep 03 j 15:33	0° Ω 34'01	6.32088 AU
direct	-5592 Nov 05 j 16:48	29° ζ 30'46					
	-5592 Nov 22 j 15:58	0° \approx		conjunction	-5586 Sep 05 j 06:26	0° Ω 55'55	1°27'17
	-5591 Feb 24 j 05:37	15° \approx		minimum elong	-5586 Sep 05 j 06:26	0° Ω 55'55	1°27'34
evening set	-5591 Mar 12 j 01:12	18° \approx 34'03		morning rise	-5586 Sep 17 j 17:06	3° Ω 43'45	
					-5586 Nov 11 j 20:36	15° Ω	
conjunction	-5591 Mar 25 j 18:52	21° \approx 42'55	-1°17'22	retrograde	-5585 Jan 18 j 18:42	21° Ω 26'47	
minimum elong	-5591 Mar 25 j 18:55	21° \approx 42'57	1°17'36	opposition	-5585 Mar 20 j 19:44	16° Ω 34'43	1°59'45
max. Earth dist.	-5591 Mar 27 j 08:57	22° \approx 04'46	6.13069 AU	min. Earth dist.	-5585 Mar 21 j 22:10	16° Ω 26'20	4.28062 AU
morning rise	-5591 Apr 08 j 13:14	24° \approx 51'59			-5585 Apr 02 j 11:11	15° κ Ω	
	-5591 May 01 j 14:30	0° χ		direct	-5585 May 21 j 19:16	11° Ω 37'36	
retrograde	-5591 Aug 13 j 18:59	13° χ 51'01			-5585 Jul 08 j 23:33	15° Ω	
min. Earth dist.	-5591 Oct 11 j 08:08	8° χ 54'16	4.18125 AU	evening set	-5585 Sep 24 j 02:51	29° Ω 51'16	
opposition	-5591 Oct 12 j 02:25	8° χ 48'03	-1°32'36		-5585 Sep 24 j 18:09	0° η	
direct	-5591 Dec 10 j 10:54	3° χ 46'06		max. Earth dist.	-5585 Oct 05 j 09:28	2° η 26'20	6.23223 AU
evening set	-5590 Apr 16 j 22:04	22° χ 28'00					
				conjunction	-5585 Oct 06 j 14:49	2° η 43'12	1°09'17
conjunction	-5590 Apr 30 j 15:36	25° χ 32'34	-0°42'42	minimum elong	-5585 Oct 06 j 14:52	2° η 43'14	1°09'28
minimum elong	-5590 Apr 30 j 15:40	25° χ 32'36	0°42'45	morning rise	-5585 Oct 19 j 02:57	5° η 35'22	
max. Earth dist.	-5590 May 01 j 08:25	25° χ 42'01	6.23249 AU	retrograde	-5584 Feb 22 j 04:02	24° η 05'34	
morning rise	-5590 May 14 j 08:03	28° χ 36'22		opposition	-5584 Apr 23 j 09:43	19° η 10'57	1°15'44
	-5590 May 20 j 14:56	0° γ		min. Earth dist.	-5584 Apr 23 j 23:39	19° η 06'30	4.18187 AU
retrograde	-5590 Sep 15 j 03:54	16° γ 39'39		direct	-5584 Jun 23 j 05:12	14° η 16'30	
opposition	-5590 Nov 13 j 12:44	11° γ 40'19	-0°29'21		-5584 Oct 13 j 07:02	0° \underline{u}	
min. Earth dist.	-5590 Nov 13 j 09:15	11° γ 41'29	4.28049 AU	evening set	-5584 Oct 25 j 12:04	2° \underline{u} 48'43	
direct	-5589 Jan 13 j 04:45	6° γ 36'37					
asc. node	-5589 Apr 27 j 08:01	19° γ 48'57		conjunction	-5584 Nov 07 j 04:44	5° \underline{u} 46'51	0°28'47
evening set	-5589 May 21 j 05:06	24° γ 55'57		minimum elong	-5584 Nov 07 j 04:46	5° \underline{u} 46'53	0°28'47
				max. Earth dist.	-5584 Nov 06 j 20:01	5° \underline{u} 41'45	6.13281 AU
conjunction	-5589 Jun 03 j 17:30	27° γ 54'42	0°04'34	morning rise	-5584 Nov 19 j 23:06	8° \underline{u} 46'07	
minimum elong	-5589 Jun 03 j 17:30	27° γ 54'42	0°04'43	retrograde	-5583 Mar 29 j 06:20	28° \underline{u} 08'35	
behind sun begin	-5589 Jun 03 j 09:28	27° γ 50'17		opposition	-5583 May 29 j 06:02	23° \underline{u} 10'16	0°04'11
behind sun end	-5589 Jun 04 j 01:32	27° γ 59'07		min. Earth dist.	-5583 May 29 j 04:15	23° \underline{u} 10'50	4.08877 AU
max. Earth dist.	-5589 Jun 03 j 11:47	27° γ 51'35	6.32229 AU	desc. node	-5583 Jun 19 j 11:21	20° \underline{u} 33'19	
	-5589 Jun 13 j 04:27	0° δ		direct	-5583 Jul 27 j 18:44	18° \underline{u} 17'15	
morning rise	-5589 Jun 17 j 02:51	0° δ 51'54			-5583 Oct 28 j 00:39	0° \mathfrak{m}	
	-5589 Aug 31 j 08:13	15° δ		evening set	-5583 Nov 28 j 12:48	7° \mathfrak{m} 10'09	
retrograde	-5589 Oct 16 j 09:30	18° δ 13'53					
	-5589 Dec 01 j 23:08	15° δ		conjunction	-5583 Dec 11 j 12:41	10° \mathfrak{m} 14'53	-0°22'49
opposition	-5589 Dec 15 j 02:59	13° δ 18'24	0°40'16	minimum elong	-5583 Dec 11 j 12:39	10° \mathfrak{m} 14'52	0°23'01
min. Earth dist.	-5589 Dec 15 j 13:43	13° δ 14'52	4.35397 AU	max. Earth dist.	-5583 Dec 12 j 03:14	10° \mathfrak{m} 23'31	6.05475 AU
direct	-5588 Feb 14 j 21:39	8° δ 14'38		morning rise	-5583 Dec 24 j 15:46	13° \mathfrak{m} 21'23	
	-5588 Apr 26 j 06:36	15° δ			-5583 Dec 31 j 16:03	15° \mathfrak{m}	
evening set	-5588 Jun 21 j 23:39	26° δ 17'57			-5582 Mar 18 j 13:04	0° \mathfrak{x}	
max. Earth dist.	-5588 Jul 03 j 23:28	28° δ 55'48	6.37349 AU	retrograde	-5582 May 05 j 04:32	3° \mathfrak{x} 23'52	
					-5582 Jun 22 j 04:35	30° κ \mathfrak{m}	
conjunction	-5588 Jul 05 j 02:47	29° δ 10'49	0°49'17	opposition	-5582 Jul 04 j 17:35	28° \mathfrak{m} 21'38	-1°11'22
minimum elong	-5588 Jul 05 j 02:43	29° δ 10'47	0°49'33	min. Earth dist.	-5582 Jul 03 j 22:54	28° \mathfrak{m} 27'51	4.03383 AU
	-5588 Jul 08 j 20:11	0° Π		direct	-5582 Sep 01 j 03:11	23° \mathfrak{m} 28'09	
morning rise	-5588 Jul 18 j 02:37	2° Π 02'00			-5582 Nov 05 j 15:52	0° \mathfrak{x}	
retrograde	-5588 Nov 15 j 10:32	19° Π 06'29		evening set	-5581 Jan 03 j 07:32	12° \mathfrak{x} 37'06	
opposition	-5587 Jan 14 j 14:28	14° Π 13'53	1°36'54				
min. Earth dist.	-5587 Jan 15 j 14:09	14° Π 06'15	4.38079 AU	conjunction	-5581 Jan 16 j 15:00	15° \mathfrak{x} 46'16	-1°07'03
direct	-5587 Mar 18 j 03:01	9° Π 11'27		minimum elong	-5581 Jan 16 j 14:55	15° \mathfrak{x} 46'14	1°07'22
evening set	-5587 Jul 23 j 14:57	27° Π 08'38		max. Earth dist.	-5581 Jan 18 j 02:31	16° \mathfrak{x} 07'21	6.02701 AU
max. Earth dist.	-5587 Aug 03 j 18:56	29° Π 36'32	6.37268 AU	morning rise	-5581 Jan 30 j 01:48	18° \mathfrak{x} 57'11	
					-5581 Mar 21 j 08:46	0° ζ	
conjunction	-5587 Aug 05 j 09:02	29° Π 57'38	1°19'32	retrograde	-5581 Jun 10 j 23:29	9° ζ 09'14	
minimum elong	-5587 Aug 05 j 08:59	29° Π 57'36	1°19'52	opposition	-5581 Aug 09 j 22:25	4° ζ 04'23	-2°00'58
	-5587 Aug 05 j 13:19	0° \mathfrak{e}		min. Earth dist.	-5581 Aug 08 j 19:40	4° ζ 13'28	4.03774 AU
morning rise	-5587 Aug 18 j 00:05	2° \mathfrak{e} 45'14			-5581 Sep 14 j 12:39	30° κ \mathfrak{x}	
retrograde	-5587 Dec 16 j 22:40	19° \mathfrak{e} 57'38		direct	-5581 Oct 06 j 23:44	29° \mathfrak{x} 08'24	
opposition	-5586 Feb 15 j 15:26	15° \mathfrak{e} 06'13	2°06'19		-5581 Oct 29 j 11:38	0° ζ	
min. Earth dist.	-5586 Feb 16 j 19:43	14° \mathfrak{e} 57'12	4.35392 AU	evening set	-5580 Feb 09 j 04:48	18° ζ 20'56	
direct	-5586 Apr 19 j 04:22	10° \mathfrak{e} 06'11					
evening set	-5586 Aug 23 j 18:07	28° \mathfrak{e} 07'24		conjunction	-5580 Feb 22 j 18:49	21° ζ 31'18	-1°26'22
	-5586 Sep 01 j 03:05	0° Ω		minimum elong	-5580 Feb 22 j 18:48	21° ζ 31'18	1°26'40

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 29

Attention, astronomical year style is used: The year -5580 in astronomical counting style is the year 5581 BCE in historical counting style.

max. Earth dist.	-5580 Feb 24 j 15:10	21° Z 57'15	6.06087 AU	min. Earth dist.	-5574 Feb 21 j 10:11	19° Q 24'45	4.34668 AU
morning rise	-5580 Mar 07 j 11:09	24° Z 42'47		direct	-5574 Apr 23 j 18:15	14° Q 34'19	
	-5580 Mar 30 j 18:28	0° \approx			-5574 Aug 16 j 07:59	0° Ω	
retrograde	-5580 Jul 15 j 12:51	14° \approx 26'53		evening set	-5574 Aug 28 j 02:30	2° Ω 36'23	
min. Earth dist.	-5580 Sep 11 j 22:16	9° \approx 30'49	4.09874 AU	max. Earth dist.	-5574 Sep 08 j 00:30	5° Ω 03'40	6.31147 AU
opposition	-5580 Sep 13 j 00:08	9° \approx 21'59	-2°04'56				
direct	-5580 Nov 10 j 11:12	4° \approx 22'37		conjunction	-5574 Sep 09 j 14:29	5° Ω 25'06	1°26'17
	-5579 Feb 06 j 12:49	15° \approx		minimum elong	-5574 Sep 09 j 14:30	5° Ω 25'07	1°26'35
evening set	-5579 Mar 17 j 00:25	23° \approx 23'28		morning rise	-5574 Sep 22 j 00:58	8° Ω 13'14	
					-5574 Oct 23 j 08:56	15° Ω	
conjunction	-5579 Mar 30 j 18:14	26° \approx 31'53	-1°13'56	retrograde	-5573 Jan 23 j 09:44	26° Ω 01'23	
minimum elong	-5579 Mar 30 j 18:18	26° \approx 31'56	1°14'08	opposition	-5573 Mar 25 j 13:05	21° Ω 09'01	1°55'43
max. Earth dist.	-5579 Apr 01 j 04:11	26° \approx 51'19	6.14330 AU	min. Earth dist.	-5573 Mar 26 j 13:15	21° Ω 01'20	4.26951 AU
morning rise	-5579 Apr 13 j 12:48	29° \approx 40'27		direct	-5573 May 26 j 08:54	16° Ω 12'16	
	-5579 Apr 14 j 23:19	0° X			-5573 Sep 08 j 15:15	0° np	
retrograde	-5579 Aug 18 j 07:26	18° X 32'10		evening set	-5573 Sep 28 j 13:06	4° np 27'33	
opposition	-5579 Oct 16 j 14:33	13° X 29'36	-1°25'10	max. Earth dist.	-5573 Oct 09 j 23:00	7° np 04'53	6.22033 AU
min. Earth dist.	-5579 Oct 15 j 22:43	13° X 34'59	4.19352 AU				
direct	-5579 Dec 15 j 03:19	8° X 27'18		conjunction	-5573 Oct 11 j 01:25	7° np 20'07	1°04'49
evening set	-5578 Apr 21 j 16:52	27° X 06'40		minimum elong	-5573 Oct 11 j 01:28	7° np 20'09	1°04'58
	-5578 May 04 j 15:09	0° Y		morning rise	-5573 Oct 23 j 14:03	10° np 13'02	
				retrograde	-5572 Feb 27 j 02:38	28° np 49'42	
conjunction	-5578 May 05 j 10:14	0° Y 10'41	-0°36'38	opposition	-5572 Apr 28 j 07:13	23° np 54'38	1°07'02
minimum elong	-5578 May 05 j 10:17	0° Y 10'43	0°36'40	min. Earth dist.	-5572 Apr 28 j 20:08	23° np 50'30	4.16964 AU
max. Earth dist.	-5578 May 06 j 01:06	0° Y 19'00	6.24381 AU	direct	-5572 Jun 27 j 23:51	19° np 00'26	
morning rise	-5578 May 19 j 01:53	3° Y 13'43			-5572 Sep 26 j 04:40	0° $\underline{\text{u}}$	
retrograde	-5578 Sep 19 j 12:20	21° Y 11'10		evening set	-5572 Oct 30 j 02:18	7° $\underline{\text{u}}$ 34'53	
opposition	-5578 Nov 17 j 22:02	16° Y 12'23	-0°19'42				
min. Earth dist.	-5578 Nov 17 j 20:08	16° Y 13'01	4.28991 AU	conjunction	-5572 Nov 11 j 19:47	10° $\underline{\text{u}}$ 33'54	0°21'57
direct	-5577 Jan 17 j 17:03	11° Y 08'38		minimum elong	-5572 Nov 11 j 19:49	10° $\underline{\text{u}}$ 33'55	0°21'55
asc. node	-5577 Mar 07 j 21:10	14° Y 38'19		max. Earth dist.	-5572 Nov 11 j 13:17	10° $\underline{\text{u}}$ 30'05	6.12137 AU
evening set	-5577 May 25 j 19:52	29° Y 26'13		morning rise	-5572 Nov 24 j 15:22	13° $\underline{\text{u}}$ 34'11	
	-5577 May 28 j 09:27	0° Z			-5571 Feb 17 j 00:35	0° m	
				retrograde	-5571 Apr 03 j 06:41	3° m 02'50	
conjunction	-5577 Jun 08 j 07:05	2° Z 24'15	0°11'10	desc. node	-5571 Apr 30 j 10:25	1° m 54'27	
minimum elong	-5577 Jun 08 j 07:03	2° Z 24'14	0°11'19		-5571 May 19 j 00:49	30° R $\underline{\text{u}}$	
behind sun begin	-5577 Jun 08 j 01:07	2° Z 20'58		opposition	-5571 Jun 03 j 06:09	28° $\underline{\text{u}}$ 03'57	-0°06'40
behind sun end	-5577 Jun 08 j 13:00	2° Z 27'30		min. Earth dist.	-5571 Jun 03 j 01:12	28° $\underline{\text{u}}$ 05'34	4.07915 AU
max. Earth dist.	-5577 Jun 07 j 20:50	2° Z 18'36	6.32918 AU	direct	-5571 Aug 01 j 13:28	23° $\underline{\text{u}}$ 11'01	
morning rise	-5577 Jun 21 j 15:25	5° Z 20'42			-5571 Oct 08 j 05:49	0° m	
	-5577 Aug 07 j 17:40	15° Z		evening set	-5571 Dec 03 j 08:42	12° m 06'22	
retrograde	-5577 Oct 20 j 17:46	22° Z 39'43			-5571 Dec 15 j 13:41	15° m	
opposition	-5577 Dec 19 j 11:48	17° Z 44'40	0°49'15				
min. Earth dist.	-5577 Dec 20 j 01:03	17° Z 40'19	4.35809 AU	conjunction	-5571 Dec 16 j 09:39	15° m 11'51	-0°29'48
	-5576 Jan 10 j 16:30	15° R Z		minimum elong	-5571 Dec 16 j 09:36	15° m 11'50	0°30'01
direct	-5576 Feb 19 j 10:01	12° Z 40'59		max. Earth dist.	-5571 Dec 17 j 03:19	15° m 22'21	6.04771 AU
	-5576 Mar 30 j 11:39	15° Z		morning rise	-5571 Dec 29 j 13:45	18° m 19'07	
	-5576 Jun 23 j 02:36	0° II			-5570 Feb 21 j 03:16	0° Z	
evening set	-5576 Jun 26 j 10:47	0° II 43'39		retrograde	-5570 May 10 j 07:12	8° Z 25'10	
max. Earth dist.	-5576 Jul 08 j 09:00	3° II 20'39	6.37454 AU	opposition	-5570 Jul 09 j 18:06	3° Z 22'28	-1°20'22
				min. Earth dist.	-5570 Jul 08 j 22:36	3° Z 28'59	4.03012 AU
conjunction	-5576 Jul 09 j 12:47	3° II 35'57	0°54'33		-5570 Aug 06 j 17:54	30° R m	
minimum elong	-5576 Jul 09 j 12:43	3° II 35'55	0°54'50	direct	-5570 Sep 06 j 02:14	28° m 28'43	
morning rise	-5576 Jul 22 j 11:10	6° II 26'32			-5570 Oct 06 j 06:56	0° Z	
retrograde	-5576 Nov 19 j 18:10	23° II 31'08		evening set	-5569 Jan 08 j 08:31	17° Z 39'23	
opposition	-5575 Jan 19 j 00:45	18° II 38'45	1°42'52				
min. Earth dist.	-5575 Jan 20 j 00:18	18° II 31'10	4.37901 AU	conjunction	-5569 Jan 21 j 17:01	20° Z 48'59	-1°11'29
direct	-5575 Mar 22 j 13:23	13° II 36'38		minimum elong	-5569 Jan 21 j 16:57	20° Z 48'57	1°11'49
	-5575 Jul 20 j 19:56	0° Q		max. Earth dist.	-5569 Jan 23 j 06:54	21° Z 11'26	6.02683 AU
evening set	-5575 Jul 27 j 23:55	1° Q 34'01		morning rise	-5569 Feb 04 j 04:44	24° Z 00'17	
max. Earth dist.	-5575 Aug 08 j 01:46	4° Q 01'02	6.36805 AU		-5569 Mar 02 j 08:59	0° Z	
				retrograde	-5569 Jun 16 j 00:14	14° Z 11'10	
conjunction	-5575 Aug 09 j 16:48	4° Q 22'42	1°22'04	opposition	-5569 Aug 14 j 20:34	9° Z 06'14	-2°04'24
minimum elong	-5575 Aug 09 j 16:46	4° Q 22'40	1°22'23	min. Earth dist.	-5569 Aug 13 j 17:17	9° Z 15'30	4.04135 AU
morning rise	-5575 Aug 22 j 07:03	7° Q 10'06		direct	-5569 Oct 11 j 21:27	4° Z 09'50	
retrograde	-5575 Dec 21 j 11:34	24° Q 25'26		evening set	-5568 Feb 14 j 07:55	23° Z 22'25	
opposition	-5574 Feb 20 j 05:06	19° Q 34'00	2°07'39				





























































































































Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 30

Attention, astronomical year style is used: The year -5568 in astronomical counting style is the year 5569 BCE in historical counting style.

conjunction	-5568 Feb 27 j 22:33	26° ♁ 32'48	-1°26'29	min. Earth dist.	-5562 Feb 25 j 21:32	23° ♁ 50'41	4.34426 AU
minimum elong	-5568 Feb 27 j 22:33	26° ♁ 32'48	1°26'47	direct	-5562 Apr 28 j 05:17	19° ♁ 00'20	
max. Earth dist.	-5568 Feb 29 j 16:54	26° ♁ 57'30	6.06761 AU		-5562 Jul 30 j 16:26	0° ♁	
morning rise	-5568 Mar 12 j 15:36	29° ♁ 44'13		evening set	-5562 Sep 01 j 09:04	7° ♁ 01'42	
	-5568 Mar 13 j 18:55	0° ♁		max. Earth dist.	-5562 Sep 12 j 06:54	9° ♁ 29'09	6.30640 AU
	-5568 May 27 j 09:59	15° ♁					
retrograde	-5568 Jul 20 j 07:59	19° ♁ 23'10		conjunction	-5562 Sep 13 j 20:32	9° ♁ 50'26	1°24'47
	-5568 Sep 12 j 16:43	15° ♁		minimum elong	-5562 Sep 13 j 20:34	9° ♁ 50'27	1°25'04
opposition	-5568 Sep 17 j 18:30	14° ♁ 18'27	-2°01'43	morning rise	-5562 Sep 26 j 06:58	12° ♁ 38'45	
min. Earth dist.	-5568 Sep 16 j 17:39	14° ♁ 26'57	4.10780 AU		-5562 Oct 06 j 20:32	15° ♁	
direct	-5568 Nov 15 j 08:20	9° ♁ 18'36			-5561 Jan 09 j 18:33	0° ♁	
	-5567 Jan 16 j 02:15	15° ♁		retrograde	-5561 Jan 28 j 00:29	0° ♁ 30'47	
evening set	-5567 Mar 22 j 01:47	28° ♁ 17'58			-5561 Feb 15 j 05:48	30° ♁	
	-5567 Mar 29 j 13:10	0° ♁		opposition	-5561 Mar 30 j 04:14	25° ♁ 38'08	1°51'02
				min. Earth dist.	-5561 Mar 31 j 04:30	25° ♁ 30'25	4.26177 AU
conjunction	-5567 Apr 04 j 20:03	1° ♁ 26'06	-1°09'54	direct	-5561 May 30 j 22:42	20° ♁ 41'40	
minimum elong	-5567 Apr 04 j 20:07	1° ♁ 26'08	1°10'04		-5561 Aug 22 j 08:30	0° ♁	
max. Earth dist.	-5567 Apr 06 j 05:10	1° ♁ 45'00	6.15413 AU	evening set	-5561 Oct 02 j 20:21	8° ♁ 57'33	
morning rise	-5567 Apr 18 j 14:25	4° ♁ 34'09		max. Earth dist.	-5561 Oct 14 j 08:14	11° ♁ 36'19	6.21068 AU
retrograde	-5567 Aug 22 j 22:50	23° ♁ 19'05					
opposition	-5567 Oct 21 j 05:02	18° ♁ 17'03	-1°17'00	conjunction	-5561 Oct 15 j 09:08	11° ♁ 50'42	1°00'03
min. Earth dist.	-5567 Oct 20 j 14:52	18° ♁ 21'52	4.20498 AU	minimum elong	-5561 Oct 15 j 09:11	11° ♁ 50'44	1°00'11
direct	-5567 Dec 19 j 21:11	13° ♁ 14'33		morning rise	-5561 Oct 27 j 22:24	14° ♁ 44'19	
	-5566 Apr 18 j 04:07	0° ♁			-5560 Jan 14 j 08:30	0° ♁	
evening set	-5566 Apr 26 j 14:35	1° ♁ 51'42		retrograde	-5560 Mar 02 j 19:45	3° ♁ 26'47	
					-5560 Apr 21 j 08:26	30° ♁	
conjunction	-5566 May 10 j 07:18	4° ♁ 55'02	-0°30'10	opposition	-5560 May 03 j 01:14	28° ♁ 31'16	0°58'08
minimum elong	-5566 May 10 j 07:21	4° ♁ 55'03	0°30'10	min. Earth dist.	-5560 May 03 j 11:52	28° ♁ 27'51	4.15867 AU
max. Earth dist.	-5566 May 10 j 18:11	5° ♁ 01'06	6.25516 AU	direct	-5560 Jul 02 j 12:47	23° ♁ 37'17	
morning rise	-5566 May 23 j 22:22	7° ♁ 57'19			-5560 Sep 06 j 18:48	0° ♁	
retrograde	-5566 Sep 23 j 22:52	25° ♁ 48'54		evening set	-5560 Nov 03 j 13:45	12° ♁ 13'55	
opposition	-5566 Nov 22 j 09:48	20° ♁ 50'39	-0°09'42				
min. Earth dist.	-5566 Nov 22 j 09:43	20° ♁ 50'41	4.30047 AU	conjunction	-5560 Nov 16 j 08:06	15° ♁ 13'48	0°15'10
asc. node	-5565 Jan 15 j 08:41	15° ♁ 51'34		minimum elong	-5560 Nov 16 j 08:07	15° ♁ 13'48	0°15'07
direct	-5565 Jan 22 j 08:52	15° ♁ 46'52		behind sun begin	-5560 Nov 16 j 05:04	15° ♁ 12'01	
	-5565 May 11 j 18:18	0° ♁		behind sun end	-5560 Nov 16 j 11:10	15° ♁ 15'36	
evening set	-5565 May 30 j 12:34	4° ♁ 02'13		max. Earth dist.	-5560 Nov 16 j 03:49	15° ♁ 11'17	6.11012 AU
				morning rise	-5560 Nov 29 j 04:44	18° ♁ 15'02	
conjunction	-5565 Jun 12 j 22:43	6° ♁ 59'24	0°17'51		-5559 Jan 22 j 19:22	0° ♁	
minimum elong	-5565 Jun 12 j 22:42	6° ♁ 59'24	0°18'01	desc. node	-5559 Mar 12 j 23:52	6° ♁ 46'11	
max. Earth dist.	-5565 Jun 12 j 11:38	6° ♁ 53'18	6.33852 AU	retrograde	-5559 Apr 08 j 05:38	7° ♁ 50'00	
morning rise	-5565 Jun 26 j 05:35	9° ♁ 54'55		opposition	-5559 Jun 08 j 02:51	2° ♁ 50'34	-0°17'10
	-5565 Jul 19 j 23:57	15° ♁		min. Earth dist.	-5559 Jun 07 j 20:59	2° ♁ 52'29	4.06845 AU
retrograde	-5565 Oct 25 j 02:18	27° ♁ 10'12			-5559 Jul 01 j 07:56	30° ♁	
opposition	-5565 Dec 23 j 22:30	22° ♁ 15'38	0°58'04	direct	-5559 Aug 06 j 07:07	27° ♁ 57'34	
min. Earth dist.	-5565 Dec 24 j 12:30	22° ♁ 11'04	4.36582 AU		-5559 Sep 10 j 18:54	0° ♁	
direct	-5564 Feb 23 j 23:35	17° ♁ 12'13			-5559 Nov 29 j 20:19	15° ♁	
	-5564 Jun 06 j 10:38	0° ♁		evening set	-5559 Dec 08 j 02:13	16° ♁ 56'13	
evening set	-5564 Jun 30 j 22:47	5° ♁ 12'42					
				conjunction	-5559 Dec 21 j 04:19	20° ♁ 02'36	-0°36'22
conjunction	-5564 Jul 13 j 23:12	8° ♁ 04'10	0°59'33	minimum elong	-5559 Dec 21 j 04:16	20° ♁ 02'34	0°36'35
minimum elong	-5564 Jul 13 j 23:09	8° ♁ 04'08	0°59'52	max. Earth dist.	-5559 Dec 22 j 00:48	20° ♁ 14'46	6.03867 AU
max. Earth dist.	-5564 Jul 12 j 16:48	7° ♁ 47'26	6.37999 AU	morning rise	-5558 Jan 03 j 09:37	23° ♁ 10'46	
morning rise	-5564 Jul 26 j 20:23	10° ♁ 53'59			-5558 Feb 02 j 05:32	0° ♁	
retrograde	-5564 Nov 24 j 03:30	27° ♁ 57'25		retrograde	-5558 May 15 j 07:45	13° ♁ 20'59	
opposition	-5563 Jan 23 j 11:49	23° ♁ 05'15	1°48'12	opposition	-5558 Jul 14 j 16:00	8° ♁ 17'56	-1°28'33
min. Earth dist.	-5563 Jan 24 j 12:42	22° ♁ 57'15	4.38206 AU	min. Earth dist.	-5558 Jul 13 j 19:09	8° ♁ 24'55	4.02398 AU
direct	-5563 Mar 27 j 02:51	18° ♁ 03'24		direct	-5558 Sep 10 j 20:56	3° ♁ 23'57	
	-5563 Jul 04 j 05:54	0° ♁		evening set	-5557 Jan 13 j 08:04	22° ♁ 37'31	
evening set	-5563 Aug 01 j 08:08	5° ♁ 59'10					
max. Earth dist.	-5563 Aug 12 j 09:58	8° ♁ 26'14	6.36835 AU	conjunction	-5557 Jan 26 j 17:29	25° ♁ 47'40	-1°15'16
				minimum elong	-5557 Jan 26 j 17:25	25° ♁ 47'38	1°15'35
conjunction	-5563 Aug 14 j 00:06	8° ♁ 47'24	1°24'06	max. Earth dist.	-5557 Jan 28 j 07:26	26° ♁ 10'09	6.02396 AU
minimum elong	-5563 Aug 14 j 00:04	8° ♁ 47'23	1°24'25	morning rise	-5557 Feb 09 j 06:18	28° ♁ 59'30	
morning rise	-5563 Aug 26 j 13:17	11° ♁ 34'24			-5557 Feb 13 j 13:36	0° ♁	
retrograde	-5563 Dec 25 j 20:27	28° ♁ 51'05		retrograde	-5557 Jun 20 j 22:40	19° ♁ 10'17	
opposition	-5562 Feb 24 j 17:25	23° ♁ 59'37	2°08'07	opposition	-5557 Aug 19 j 17:22	14° ♁ 05'11	-2°06'50

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 31

Attention, astronomical year style is used: The year -5557 in astronomical counting style is the year 5558 BCE in historical counting style.

min. Earth dist.	-5557 Aug 18 j 13:35	14°  14'39	4.04223 AU	direct	-5551 Mar 31 j 13:48	22°  27'16	
direct	-5557 Oct 16 j 18:25	9°  08'18			-5551 Jun 15 j 15:06	0° 	
evening set	-5556 Feb 19 j 10:21	28°  21'55		evening set	-5551 Aug 05 j 15:47	10°  22'51	
	-5556 Feb 26 j 11:13	0° 		max. Earth dist.	-5551 Aug 16 j 14:32	12°  48'31	6.36338 AU
conjunction	-5556 Mar 04 j 01:59	1°  32'29	-1°25'54	conjunction	-5551 Aug 18 j 06:42	13°  10'52	1°25'42
minimum elong	-5556 Mar 04 j 02:00	1°  32'30	1°26'12	minimum elong	-5551 Aug 18 j 06:41	13°  10'51	1°26'01
max. Earth dist.	-5556 Mar 05 j 21:32	1°  57'52	6.07239 AU	morning rise	-5551 Aug 30 j 19:19	15°  57'47	
morning rise	-5556 Mar 17 j 19:26	4°  43'52			-5551 Nov 13 j 02:57	0° 	
	-5556 May 04 j 02:29	15° 		retrograde	-5551 Dec 30 j 09:26	3°  18'01	
retrograde	-5556 Jul 25 j 04:06	24°  18'03			-5550 Feb 16 j 18:52	30° 	
opposition	-5556 Sep 22 j 12:18	19°  13'34	-1°57'35	opposition	-5550 Mar 01 j 07:02	28°  26'30	2°08'00
min. Earth dist.	-5556 Sep 21 j 12:33	19°  21'41	4.11587 AU	min. Earth dist.	-5550 Mar 02 j 11:49	28°  17'22	4.33540 AU
	-5556 Oct 29 j 16:30	15° 		direct	-5550 May 02 j 17:58	23°  27'34	
direct	-5556 Nov 20 j 04:30	14°  13'18			-5550 Jul 11 j 06:03	0° 	
	-5556 Dec 11 j 21:15	15° 		evening set	-5550 Sep 05 j 16:46	11°  18'02	
	-5555 Mar 12 j 21:29	0° 		max. Earth dist.	-5550 Sep 16 j 16:22	13°  59'19	6.29440 AU
evening set	-5555 Mar 27 j 03:06	3° 	11'14				
conjunction	-5555 Apr 09 j 21:28	6°  19'00	-1°05'21	conjunction	-5550 Sep 18 j 04:16	14°  19'39	1°22'49
minimum elong	-5555 Apr 09 j 21:33	6°  19'03	1°05'31	minimum elong	-5550 Sep 18 j 04:18	14°  19'40	1°23'03
max. Earth dist.	-5555 Apr 11 j 04:04	6°  36'25	6.16489 AU		-5550 Sep 21 j 03:27	15° 	
morning rise	-5555 Apr 23 j 15:55	9°  26'34		morning rise	-5550 Sep 30 j 14:37	17°  18'29	
retrograde	-5555 Aug 27 j 11:35	28°  04'24			-5550 Dec 03 j 19:44	0° 	
opposition	-5555 Oct 25 j 19:05	23°  02'45	-1°08'19	retrograde	-5549 Feb 01 j 17:17	5°  06'58	
min. Earth dist.	-5555 Oct 25 j 05:44	23°  07'17	4.21720 AU	opposition	-5549 Apr 03 j 22:16	0°  14'04	1°45'38
direct	-5555 Dec 24 j 15:00	17°  59'56		min. Earth dist.	-5549 Apr 04 j 20:51	0°  06'54	4.24739 AU
	-5554 Mar 31 j 20:17	0° 			-5549 Apr 05 j 18:33	30° 	
evening set	-5554 May 01 j 11:09	6°  34'07		direct	-5549 Jun 04 j 12:15	25°  18'02	
					-5549 Jul 31 j 14:38	0° 	
conjunction	-5554 May 15 j 03:20	9°  36'40	-0°23'32	evening set	-5549 Oct 07 j 07:34	13°  36'57	
minimum elong	-5554 May 15 j 03:22	9°  36'41	0°23'29				
max. Earth dist.	-5554 May 15 j 12:13	9°  41'37	6.26799 AU	conjunction	-5549 Oct 19 j 20:48	16°  30'58	0°54'47
morning rise	-5554 May 28 j 17:25	12°  38'02		minimum elong	-5549 Oct 19 j 20:51	16°  31'00	0°54'53
	-5554 Sep 13 j 00:00	0° 		max. Earth dist.	-5549 Oct 18 j 21:32	16°  17'30	6.19520 AU
retrograde	-5554 Sep 28 j 09:17	0°  23'11		morning rise	-5549 Nov 01 j 10:58	19°  25'38	
	-5554 Oct 13 j 16:12	30° 			-5549 Dec 20 j 20:13	0° 	
asc. node	-5554 Nov 25 j 03:35	25°  39'09		retrograde	-5548 Mar 07 j 20:43	8°  16'12	
opposition	-5554 Nov 26 j 20:51	25°  39'26	0°00'19	opposition	-5548 May 08 j 00:22	3°  20'12	0°48'29
min. Earth dist.	-5554 Nov 26 j 22:46	25°  24'48	4.31241 AU	min. Earth dist.	-5548 May 08 j 09:24	3°  17'18	4.14307 AU
direct	-5553 Jan 27 j 00:40	20°  21'36			-5548 Jun 05 j 14:19	30° 	
	-5553 Apr 23 j 20:09	0° 		direct	-5548 Jul 07 j 07:36	28°  26'28	
evening set	-5553 Jun 04 j 03:36	8°  33'52			-5548 Aug 07 j 17:12	0° 	
				evening set	-5548 Nov 08 j 06:40	17°  06'57	
conjunction	-5553 Jun 17 j 12:26	11°  30'07	0°24'22	conjunction	-5548 Nov 21 j 02:11	20°  07'57	0°07'59
minimum elong	-5553 Jun 17 j 12:24	11°  30'06	0°24'34	minimum elong	-5548 Nov 21 j 02:11	20°  07'57	0°07'53
max. Earth dist.	-5553 Jun 16 j 21:47	11°  22'03	6.34826 AU	behind sun begin	-5548 Nov 20 j 18:55	20°  03'41	
morning rise	-5553 Jun 30 j 18:03	14°  24'42		behind sun end	-5548 Nov 21 j 09:27	20°  12'12	
	-5553 Jul 03 j 10:42	15° 		max. Earth dist.	-5548 Nov 21 j 01:51	20°  07'45	6.09604 AU
	-5553 Sep 27 j 09:44	0° 		morning rise	-5548 Dec 03 j 23:59	23°  10'21	
retrograde	-5553 Oct 29 j 09:38	1°  36'19			-5547 Jan 03 j 02:30	0° 	
	-5553 Nov 30 j 11:09	30° 		desc. node	-5547 Jan 20 j 22:34	3°  40'56	
opposition	-5553 Dec 28 j 08:00	26°  42'06	1°06'29	retrograde	-5547 Apr 13 j 09:54	12°  52'26	
min. Earth dist.	-5553 Dec 28 j 23:42	26°  36'59	4.37262 AU	opposition	-5547 Jun 13 j 05:34	7°  52'33	-0°28'08
direct	-5552 Feb 28 j 12:05	21°  38'45		min. Earth dist.	-5547 Jun 12 j 21:08	7°  55'19	4.05749 AU
	-5552 May 19 j 03:51	0° 		direct	-5547 Aug 11 j 04:57	2°  59'39	
evening set	-5552 Jul 05 j 09:05	9°  37'28			-5547 Nov 12 j 08:56	15° 	
max. Earth dist.	-5552 Jul 17 j 01:11	12°  11'08	6.38309 AU	evening set	-5547 Dec 13 j 02:14	22°  01'39	
conjunction	-5552 Jul 18 j 08:15	12°  12'15	1°04'13	conjunction	-5547 Dec 26 j 05:16	25°  08'46	-0°43'02
minimum elong	-5552 Jul 18 j 08:12	12°  12'13	1°04'31	minimum elong	-5547 Dec 26 j 05:13	25°  08'44	0°43'17
morning rise	-5552 Jul 31 j 03:58	15°  17'22		max. Earth dist.	-5547 Dec 27 j 04:08	25°  22'22	6.03181 AU
	-5552 Oct 20 j 05:09	0° 		morning rise	-5546 Jan 08 j 11:49	28°  17'46	
retrograde	-5552 Nov 28 j 11:25	2°  20'42			-5546 Jan 15 j 17:57	0° 	
	-5551 Jan 07 j 04:50	30° 		retrograde	-5546 May 20 j 12:12	18°  30'50	
opposition	-5551 Jan 27 j 22:09	27°  12'47	1°52'59	opposition	-5546 Jul 19 j 18:52	13°  37'24	-1°36'28
min. Earth dist.	-5551 Jan 28 j 23:49	27°  20'33	4.38125 AU	min. Earth dist.	-5546 Jul 18 j 19:45	13°  35'10	4.02245 AU

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 32

Attention, astronomical year style is used: The year -5546 in astronomical counting style is the year 5547 BCE in historical counting style.

direct	-5546 Sep 15 j 22:19	8°♌33'08		max. Earth dist.	-5540 Jul 21 j 03:15	16°♊26'05	6.38170 AU
evening set	-5545 Jan 18 j 12:42	27°♌47'43					
	-5545 Jan 27 j 20:56	0°♌		conjunction	-5540 Jul 22 j 13:44	16°♊45'05	1°08'22
				minimum elong	-5540 Jul 22 j 13:41	16°♊45'03	1°08'40
conjunction	-5545 Jan 31 j 23:12	0°♌58'07	-1°18'41	morning rise	-5540 Aug 04 j 08:25	19°♊33'48	
minimum elong	-5545 Jan 31 j 23:09	0°♌58'05	1°19'00		-5540 Sep 25 j 00:49	0°♌	
max. Earth dist.	-5545 Feb 02 j 16:52	1°♌22'45	6.02805 AU	retrograde	-5540 Dec 02 j 18:32	6°♌38'48	
morning rise	-5545 Feb 14 j 12:39	4°♌10'02		opposition	-5539 Feb 01 j 06:29	1°♌47'00	1°57'04
retrograde	-5545 Jun 26 j 00:22	24°♌17'08		min. Earth dist.	-5539 Feb 02 j 09:25	1°♌38'23	4.37487 AU
opposition	-5545 Aug 24 j 16:42	19°♌11'57	-2°08'23		-5539 Feb 15 j 12:30	30°♌♊	
min. Earth dist.	-5545 Aug 23 j 13:03	19°♌21'23	4.05178 AU	direct	-5539 Apr 04 j 21:45	26°♊45'43	
direct	-5545 Oct 21 j 19:08	14°♌14'39			-5539 May 22 j 21:32	0°♌	
	-5544 Feb 09 j 14:09	0°♌		evening set	-5539 Aug 09 j 21:43	14°♌43'00	
evening set	-5544 Feb 24 j 14:46	3°♌25'51		max. Earth dist.	-5539 Aug 20 j 20:33	17°♌09'06	6.35241 AU
conjunction	-5544 Mar 09 j 06:49	6°♌36'00	-1°24'46	conjunction	-5539 Aug 22 j 12:02	17°♌31'08	1°26'47
minimum elong	-5544 Mar 09 j 06:51	6°♌36'01	1°25'02	minimum elong	-5539 Aug 22 j 12:01	17°♌31'08	1°27'06
max. Earth dist.	-5544 Mar 11 j 01:17	7°♌00'39	6.08634 AU	morning rise	-5539 Sep 03 j 23:57	20°♌18'14	
morning rise	-5544 Mar 23 j 00:45	9°♌46'54			-5539 Oct 20 j 19:54	0°♌	
	-5544 Apr 15 j 04:57	15°♌		retrograde	-5538 Jan 03 j 21:34	7°♌43'58	
retrograde	-5544 Jul 29 j 20:04	29°♌12'28		opposition	-5538 Mar 05 j 20:08	2°♌52'25	2°07'10
min. Earth dist.	-5544 Sep 26 j 05:52	24°♌16'16	4.13276 AU	min. Earth dist.	-5538 Mar 07 j 00:48	2°♌43'19	4.32063 AU
opposition	-5544 Sep 27 j 05:29	24°♌08'12	-1°52'40		-5538 Mar 29 j 23:47	30°♌♌	
direct	-5544 Nov 25 j 00:54	19°♌07'30		direct	-5538 May 07 j 04:23	27°♌53'52	
	-5543 Feb 23 j 01:59	0°♌			-5538 Jun 14 j 02:05	0°♌	
evening set	-5543 Apr 01 j 02:29	8°♌00'47			-5538 Sep 05 j 13:46	15°♌	
				evening set	-5538 Sep 10 j 01:00	16°♌00'16	
conjunction	-5543 Apr 14 j 20:48	11°♌07'43	-1°00'29	max. Earth dist.	-5538 Sep 21 j 00:24	18°♌29'39	6.27698 AU
minimum elong	-5543 Apr 14 j 20:52	11°♌07'46	1°00'37				
max. Earth dist.	-5543 Apr 16 j 00:44	11°♌23'34	6.18335 AU	conjunction	-5538 Sep 22 j 12:23	18°♌50'07	1°20'19
morning rise	-5543 Apr 28 j 14:48	14°♌14'17		minimum elong	-5538 Sep 22 j 12:25	18°♌50'09	1°20'33
	-5543 Jul 21 j 06:07	0°♌		morning rise	-5538 Oct 04 j 23:12	21°♌39'49	
retrograde	-5543 Aug 31 j 23:07	2°♌42'43			-5538 Nov 12 j 16:59	0°♌	
	-5543 Oct 12 j 11:56	30°♌♌		retrograde	-5537 Feb 06 j 13:46	9°♌46'39	
opposition	-5543 Oct 30 j 06:20	27°♌41'34	-0°59'28	opposition	-5537 Apr 08 j 18:00	4°♌53'22	1°39'30
min. Earth dist.	-5543 Oct 29 j 19:49	27°♌45'07	4.23521 AU	min. Earth dist.	-5537 Apr 09 j 15:02	4°♌46'40	4.22843 AU
direct	-5543 Dec 29 j 08:08	22°♌38'28			-5537 Jun 04 j 05:06	30°♌♌	
	-5542 Mar 12 j 13:59	0°♌		direct	-5537 Jun 09 j 03:32	29°♌57'41	
evening set	-5542 May 06 j 03:51	11°♌07'54			-5537 Jun 14 j 02:03	0°♌	
				evening set	-5537 Oct 11 j 20:31	18°♌20'58	
conjunction	-5542 May 19 j 19:15	14°♌09'28	-0°16'59				
minimum elong	-5542 May 19 j 19:17	14°♌09'29	0°16'57	conjunction	-5537 Oct 24 j 10:39	21°♌16'07	0°49'02
max. Earth dist.	-5542 May 20 j 00:31	14°♌12'23	6.28405 AU	minimum elong	-5537 Oct 24 j 10:43	21°♌16'09	0°49'07
morning rise	-5542 Jun 02 j 08:20	17°♌09'44		max. Earth dist.	-5537 Oct 23 j 15:37	21°♌05'03	6.17663 AU
	-5542 Aug 06 j 17:37	0°♌		morning rise	-5537 Nov 06 j 01:41	24°♌12'00	
retrograde	-5542 Oct 02 j 13:56	4°♌47'57			-5537 Dec 01 j 20:27	0°♌	
asc. node	-5542 Oct 06 j 16:59	4°♌46'16		retrograde	-5536 Mar 12 j 23:20	13°♌11'27	
	-5542 Nov 29 j 23:46	30°♌♌		opposition	-5536 May 13 j 02:01	8°♌14'57	0°38'16
opposition	-5542 Dec 01 j 03:49	29°♌50'41	0°09'54	min. Earth dist.	-5536 May 13 j 08:17	8°♌12'55	4.12643 AU
min. Earth dist.	-5542 Dec 01 j 07:32	29°♌49'28	4.32535 AU	direct	-5536 Jul 12 j 04:04	3°♌21'30	
direct	-5541 Jan 31 j 11:12	24°♌46'45		evening set	-5536 Nov 13 j 02:39	22°♌05'58	
	-5541 Apr 03 j 00:13	0°♌					
evening set	-5541 Jun 08 j 14:16	12°♌56'00		conjunction	-5536 Nov 25 j 23:02	25°♌07'57	0°00'31
	-5541 Jun 18 j 00:29	15°♌		minimum elong	-5536 Nov 25 j 23:03	25°♌07'58	0°00'24
				behind sun begin	-5536 Nov 25 j 14:59	25°♌03'13	
conjunction	-5541 Jun 21 j 21:49	15°♌51'22	0°30'31	behind sun end	-5536 Nov 26 j 07:08	25°♌12'43	
minimum elong	-5541 Jun 21 j 21:46	15°♌51'20	0°30'44	max. Earth dist.	-5536 Nov 26 j 01:44	25°♌09'29	6.08280 AU
max. Earth dist.	-5541 Jun 21 j 03:50	15°♌41'28	6.35698 AU	desc. node	-5536 Nov 29 j 18:38	26°♌02'07	
morning rise	-5541 Jul 05 j 02:03	18°♌45'01		morning rise	-5536 Dec 08 j 22:15	28°♌11'31	
	-5541 Aug 30 j 13:58	0°♌			-5536 Dec 16 j 16:06	0°♌	
retrograde	-5541 Nov 02 j 15:00	5°♌53'50			-5535 Mar 04 j 22:17	15°♌	
opposition	-5540 Jan 01 j 14:11	1°♌00'03	1°14'14	retrograde	-5535 Apr 18 j 15:16	17°♌59'52	
min. Earth dist.	-5540 Jan 02 j 08:34	0°♌54'05	4.37662 AU		-5535 Jun 02 j 17:00	15°♌♌	
	-5540 Jan 09 j 08:08	30°♌♌		opposition	-5535 Jun 18 j 10:02	12°♌59'21	-0°39'05
direct	-5540 Mar 03 j 21:16	25°♌56'50		min. Earth dist.	-5535 Jun 17 j 22:19	13°♌03'13	4.04897 AU
	-5540 Apr 26 j 23:18	0°♌		direct	-5535 Aug 16 j 05:52	8°♌06'22	
evening set	-5540 Jul 09 j 15:49	13°♌54'48			-5535 Oct 22 j 23:00	15°♌	

Attention, astronomical year style is used: The year -5535 in astronomical counting style is the year 5536 BCE in historical counting style.

evening set	-5535 Dec 18 j 04:17	27° \mathbb{M} 10'36		evening set	-5529 Jun 13 j 02:22	17° \mathbb{B} 22'23	
	-5535 Dec 30 j 01:41	0° \mathbb{A}					
conjunction	-5535 Dec 31 j 08:33	0° \mathbb{A} 18'22	-0°49'27	conjunction	-5529 Jun 26 j 08:44	20° \mathbb{B} 16'59	0°36'35
minimum elong	-5535 Dec 31 j 08:29	0° \mathbb{A} 18'19	0°49'44	minimum elong	-5529 Jun 26 j 08:41	20° \mathbb{B} 16'58	0°36'50
max. Earth dist.	-5534 Jan 01 j 12:37	0° \mathbb{A} 35'03	6.02862 AU	max. Earth dist.	-5529 Jun 25 j 12:03	20° \mathbb{B} 05'37	6.36285 AU
morning rise	-5534 Jan 13 j 16:02	3° \mathbb{A} 27'54		morning rise	-5529 Jul 09 j 11:35	23° \mathbb{B} 09'52	
retrograde	-5534 May 25 j 18:33	23° \mathbb{A} 41'43		retrograde	-5529 Aug 10 j 23:01	0° \mathbb{B}	
opposition	-5534 Jul 24 j 22:13	18° \mathbb{A} 37'52	-1°43'40	opposition	-5529 Nov 06 j 21:22	10° \mathbb{B} 17'00	
min. Earth dist.	-5534 Jul 23 j 22:18	18° \mathbb{A} 45'56	4.02496 AU	opposition	-5528 Jan 05 j 22:45	5° \mathbb{B} 23'36	1°21'46
direct	-5534 Sep 21 j 00:58	13° \mathbb{A} 43'16		min. Earth dist.	-5528 Jan 06 j 18:10	5° \mathbb{B} 17'18	4.37851 AU
	-5533 Jan 11 j 00:38	0° \mathbb{B}		direct	-5528 Mar 08 j 06:40	0° \mathbb{B} 20'36	
evening set	-5533 Jan 23 j 17:49	2° \mathbb{B} 57'21		evening set	-5528 Jul 14 j 00:56	18° \mathbb{B} 18'27	
				max. Earth dist.	-5528 Jul 25 j 09:58	20° \mathbb{B} 48'37	6.37940 AU
conjunction	-5533 Feb 06 j 05:01	6° \mathbb{B} 07'44	-1°21'30	conjunction	-5528 Jul 26 j 21:35	21° \mathbb{B} 08'18	1°12'15
minimum elong	-5533 Feb 06 j 04:59	6° \mathbb{B} 07'42	1°21'49	minimum elong	-5528 Jul 26 j 21:32	21° \mathbb{B} 08'16	1°12'34
max. Earth dist.	-5533 Feb 07 j 23:15	6° \mathbb{B} 32'38	6.03545 AU	morning rise	-5528 Aug 08 j 15:05	23° \mathbb{B} 56'38	
morning rise	-5533 Feb 19 j 19:23	9° \mathbb{B} 19'37			-5528 Sep 06 j 02:33	0° \mathbb{B}	
retrograde	-5533 Jun 30 j 22:40	29° \mathbb{B} 21'35		retrograde	-5528 Dec 07 j 05:09	11° \mathbb{B} 03'38	
min. Earth dist.	-5533 Aug 28 j 10:37	24° \mathbb{B} 26'05	4.06334 AU	opposition	-5527 Feb 05 j 17:45	6° \mathbb{B} 12'05	2°00'36
opposition	-5533 Aug 29 j 15:04	24° \mathbb{B} 16'22	-2°08'59	min. Earth dist.	-5527 Feb 06 j 22:01	6° \mathbb{B} 03'03	4.36870 AU
direct	-5533 Oct 26 j 18:10	19° \mathbb{B} 18'36		direct	-5527 Apr 09 j 09:14	1° \mathbb{B} 11'11	
	-5532 Jan 22 j 10:56	0° \mathbb{B}		evening set	-5527 Aug 14 j 05:47	19° \mathbb{B} 09'49	
evening set	-5532 Feb 29 j 18:29	8° \mathbb{B} 27'00		max. Earth dist.	-5527 Aug 25 j 02:47	21° \mathbb{B} 35'20	6.34272 AU
conjunction	-5532 Mar 14 j 11:04	11° \mathbb{B} 36'43	-1°23'02	conjunction	-5527 Aug 26 j 19:23	21° \mathbb{B} 58'03	1°27'26
minimum elong	-5532 Mar 14 j 11:07	11° \mathbb{B} 36'45	1°23'17	minimum elong	-5527 Aug 26 j 19:23	21° \mathbb{B} 58'03	1°27'44
max. Earth dist.	-5532 Mar 16 j 04:03	12° \mathbb{B} 00'25	6.10097 AU	morning rise	-5527 Sep 08 j 06:57	24° \mathbb{B} 45'21	
morning rise	-5532 Mar 28 j 05:09	14° \mathbb{B} 47'01			-5527 Oct 02 j 10:50	0° \mathbb{B}	
	-5532 Mar 29 j 03:50	15° \mathbb{B}		retrograde	-5526 Jan 08 j 12:38	12° \mathbb{B} 16'20	
	-5532 Jun 12 j 19:24	0° \mathbb{B}		opposition	-5526 Mar 10 j 12:00	7° \mathbb{B} 24'39	2°05'35
retrograde	-5532 Aug 03 j 13:49	4° \mathbb{B} 04'10		min. Earth dist.	-5526 Mar 11 j 15:34	7° \mathbb{B} 15'53	4.30824 AU
	-5532 Sep 24 j 13:44	30° \mathbb{B}		direct	-5526 May 11 j 17:02	2° \mathbb{B} 26'32	
opposition	-5532 Oct 01 j 21:53	29° \mathbb{B} 00'17	-1°47'02		-5526 Aug 20 j 00:50	15° \mathbb{B}	
min. Earth dist.	-5532 Oct 01 j 00:45	29° \mathbb{B} 07'30	4.14876 AU	evening set	-5526 Sep 14 j 10:39	20° \mathbb{B} 35'21	
direct	-5532 Nov 29 j 22:21	23° \mathbb{B} 59'11		conjunction	-5526 Sep 26 j 22:14	23° \mathbb{B} 25'49	1°17'20
	-5531 Feb 02 j 03:27	0° \mathbb{B}		minimum elong	-5526 Sep 26 j 22:17	23° \mathbb{B} 25'51	1°17'33
evening set	-5531 Apr 06 j 01:28	12° \mathbb{B} 48'35		max. Earth dist.	-5526 Sep 25 j 13:34	23° \mathbb{B} 07'10	6.26320 AU
conjunction	-5531 Apr 19 j 19:45	15° \mathbb{B} 54'48	-0°55'15	morning rise	-5526 Oct 09 j 09:10	26° \mathbb{B} 16'12	
minimum elong	-5531 Apr 19 j 19:49	15° \mathbb{B} 54'51	0°55'21		-5526 Oct 26 j 01:35	0° \mathbb{B}	
max. Earth dist.	-5531 Apr 20 j 21:11	16° \mathbb{B} 09'10	6.19962 AU	retrograde	-5525 Feb 11 j 10:43	14° \mathbb{B} 30'02	
morning rise	-5531 May 03 j 13:19	19° \mathbb{B} 00'31		opposition	-5525 Apr 13 j 14:58	9° \mathbb{B} 36'27	1°32'41
	-5531 Jun 25 j 13:26	0° \mathbb{B}		min. Earth dist.	-5525 Apr 14 j 10:19	9° \mathbb{B} 30'16	4.21430 AU
retrograde	-5531 Sep 05 j 09:02	7° \mathbb{B} 20'42		direct	-5525 Jun 13 j 20:44	4° \mathbb{B} 41'13	
opposition	-5531 Nov 03 j 17:36	2° \mathbb{B} 20'08	-0°50'18	evening set	-5525 Oct 16 j 10:13	23° \mathbb{B} 07'05	
min. Earth dist.	-5531 Nov 03 j 08:21	2° \mathbb{B} 23'15	4.25032 AU	max. Earth dist.	-5525 Oct 28 j 07:47	25° \mathbb{B} 53'06	6.16353 AU
	-5531 Nov 21 j 19:04	30° \mathbb{B}		conjunction	-5525 Oct 29 j 00:53	26° \mathbb{B} 03'04	0°43'00
direct	-5530 Jan 02 j 22:51	27° \mathbb{B} 16'52		minimum elong	-5525 Oct 29 j 00:56	26° \mathbb{B} 03'06	0°43'02
	-5530 Feb 14 j 14:42	0° \mathbb{B}		morning rise	-5525 Nov 10 j 17:01	28° \mathbb{B} 59'57	
evening set	-5530 May 10 j 21:02	15° \mathbb{B} 42'54			-5525 Nov 15 j 01:02	0° \mathbb{B}	
conjunction	-5530 May 24 j 11:30	18° \mathbb{B} 43'34	-0°10'20	retrograde	-5524 Mar 17 j 23:30	18° \mathbb{B} 06'12	
minimum elong	-5530 May 24 j 11:31	18° \mathbb{B} 43'35	0°10'15	opposition	-5524 May 18 j 02:44	13° \mathbb{B} 09'06	0°27'51
behind sun begin	-5530 May 24 j 05:02	18° \mathbb{B} 40'00		min. Earth dist.	-5524 May 18 j 05:38	13° \mathbb{B} 08'10	4.11543 AU
behind sun end	-5530 May 24 j 18:01	18° \mathbb{B} 47'10		direct	-5524 Jul 17 j 00:23	8° \mathbb{B} 15'48	
max. Earth dist.	-5530 May 24 j 12:11	18° \mathbb{B} 43'56	6.29700 AU	desc. node	-5524 Oct 09 j 16:15	18° \mathbb{B} 16'42	
morning rise	-5530 Jun 06 j 23:38	21° \mathbb{B} 42'54		evening set	-5524 Nov 17 j 21:16	27° \mathbb{B} 02'21	
	-5530 Jul 16 j 12:51	0° \mathbb{B}		conjunction	-5524 Nov 30 j 18:49	0° \mathbb{B} 05'08	-0°06'51
asc. node	-5530 Aug 17 j 09:30	5° \mathbb{B} 24'31		minimum elong	-5524 Nov 30 j 18:49	0° \mathbb{B} 05'08	0°06'59
retrograde	-5530 Oct 06 j 23:01	9° \mathbb{B} 15'42		behind sun begin	-5524 Nov 30 j 11:18	0° \mathbb{B} 00'42	
opposition	-5530 Dec 05 j 12:37	4° \mathbb{B} 19'02	0°19'32	behind sun end	-5524 Dec 01 j 02:20	0° \mathbb{B} 09'34	
min. Earth dist.	-5530 Dec 05 j 19:34	4° \mathbb{B} 16'44	4.33516 AU		-5524 Nov 30 j 10:06	0° \mathbb{B}	
	-5529 Jan 14 j 00:19	30° \mathbb{B}		max. Earth dist.	-5524 Dec 01 j 02:40	0° \mathbb{B} 09'46	6.07500 AU
direct	-5529 Feb 05 j 00:42	29° \mathbb{B} 15'07		morning rise	-5524 Dec 13 j 18:59	3° \mathbb{B} 09'31	
	-5529 Feb 27 j 05:15	0° \mathbb{B}			-5523 Feb 06 j 11:24	15° \mathbb{B}	
	-5529 Jun 02 j 03:03	15° \mathbb{B}					

Attention, astronomical year style is used: The year -5523 in astronomical counting style is the year 5524 BCE in historical counting style.

retrograde	-5523 Apr 23 j 19:42	23°♄01'56	opposition	-5518 Dec 09 j 20:50	8°♄45'31	0°28'57
opposition	-5523 Jun 23 j 11:56	18°♄00'53 -0°49'27	min. Earth dist.	-5518 Dec 10 j 04:50	8°♄42'53	4.34115 AU
min. Earth dist.	-5523 Jun 22 j 22:46	18°♄05'14 4.04519 AU	direct	-5517 Feb 09 j 10:49	3°♄41'41	
	-5523 Jul 18 j 03:17	15°♄		-5517 May 16 j 05:58	15°♄	
direct	-5523 Aug 21 j 05:36	13°♄07'46	evening set	-5517 Jun 17 j 14:20	21°♄48'04	
	-5523 Sep 23 j 23:04	15°♄				
	-5523 Dec 13 j 17:24	0°♄	conjunction	-5517 Jun 30 j 19:17	24°♄42'00	0°42'25
evening set	-5523 Dec 23 j 03:43	2°♄12'45	minimum elong	-5517 Jun 30 j 19:13	24°♄41'58	0°42'40
			max. Earth dist.	-5517 Jun 29 j 19:26	24°♄28'53	6.36575 AU
conjunction	-5522 Jan 05 j 08:46	5°♄20'50 -0°55'19	morning rise	-5517 Jul 13 j 20:57	27°♄34'15	
minimum elong	-5522 Jan 05 j 08:42	5°♄20'48 0°55'36		-5517 Jul 25 j 01:55	0°♄	
max. Earth dist.	-5522 Jan 06 j 14:24	5°♄38'27 6.02885 AU	retrograde	-5517 Nov 11 j 06:38	14°♄40'38	
morning rise	-5522 Jan 18 j 17:22	8°♄30'46	opposition	-5516 Jan 10 j 08:15	9°♄47'37	1°28'50
retrograde	-5522 May 30 j 17:46	28°♄43'56	min. Earth dist.	-5516 Jan 11 j 05:51	9°♄40'37	4.37839 AU
opposition	-5522 Jul 29 j 21:22	23°♄39'42 -1°49'50	direct	-5516 Mar 12 j 18:36	4°♄44'51	
min. Earth dist.	-5522 Jul 28 j 19:34	23°♄48'25 4.02947 AU	evening set	-5516 Jul 18 j 10:02	22°♄42'46	
direct	-5522 Sep 25 j 22:31	18°♄44'41	max. Earth dist.	-5516 Jul 29 j 17:22	25°♄12'14	6.37610 AU
	-5522 Dec 24 j 10:53	0°♄				
evening set	-5521 Jan 28 j 19:21	7°♄57'53	conjunction	-5516 Jul 31 j 05:38	25°♄32'17	1°15'43
			minimum elong	-5516 Jul 31 j 05:35	25°♄32'15	1°16'02
conjunction	-5521 Feb 11 j 07:24	11°♄08'13 -1°23'36	morning rise	-5516 Aug 12 j 22:02	28°♄20'18	
minimum elong	-5521 Feb 11 j 07:22	11°♄08'12 1°23'56		-5516 Aug 20 j 12:29	0°♄	
max. Earth dist.	-5521 Feb 13 j 02:11	11°♄33'24 6.04356 AU	retrograde	-5516 Dec 11 j 15:07	15°♄29'35	
morning rise	-5521 Feb 24 j 22:17	14°♄19'56	opposition	-5515 Feb 10 j 05:57	10°♄38'05	2°03'27
	-5521 May 13 j 11:42	0°♄	min. Earth dist.	-5515 Feb 11 j 09:26	10°♄29'18	4.36272 AU
retrograde	-5521 Jul 05 j 18:55	4°♄16'37	direct	-5515 Apr 13 j 19:51	5°♄37'33	
	-5521 Aug 28 j 10:41	30°♄	evening set	-5515 Aug 18 j 14:11	23°♄37'06	
min. Earth dist.	-5521 Sep 02 j 06:39	29°♄20'35 4.07411 AU	max. Earth dist.	-5515 Aug 29 j 12:00	26°♄03'25	6.33447 AU
opposition	-5521 Sep 03 j 09:29	29°♄11'25 -2°08'38				
direct	-5521 Oct 31 j 15:58	24°♄13'07	conjunction	-5515 Aug 31 j 03:08	26°♄25'22	1°27'33
	-5520 Jan 01 j 11:23	0°♄	minimum elong	-5515 Aug 31 j 03:08	26°♄25'22	1°27'50
evening set	-5520 Mar 05 j 18:31	13°♄19'08	morning rise	-5515 Sep 12 j 14:11	29°♄12'48	
	-5520 Mar 13 j 02:02	15°♄		-5515 Sep 16 j 03:04	0°♄	
				-5515 Dec 09 j 14:24	15°♄	
conjunction	-5520 Mar 19 j 11:38	16°♄28'31 -1°20'46	retrograde	-5514 Jan 13 j 04:10	16°♄48'22	
minimum elong	-5520 Mar 19 j 11:41	16°♄28'33 1°21'01		-5514 Feb 17 j 00:29	15°♄	
max. Earth dist.	-5520 Mar 21 j 03:34	16°♄51'32 6.11346 AU	opposition	-5514 Mar 15 j 04:07	11°♄56'32	2°03'12
morning rise	-5520 Apr 02 j 05:54	19°♄38'20	min. Earth dist.	-5514 Mar 16 j 07:31	11°♄47'50	4.29804 AU
	-5520 May 20 j 14:51	0°♄	direct	-5514 May 16 j 07:30	6°♄58'51	
retrograde	-5520 Aug 08 j 03:18	8°♄47'58		-5514 Aug 01 j 14:50	15°♄	
opposition	-5520 Oct 06 j 11:11	3°♄44'28 -1°40'54	evening set	-5514 Sep 18 j 20:04	25°♄09'06	
min. Earth dist.	-5520 Oct 05 j 15:00	3°♄51'21 4.16173 AU	max. Earth dist.	-5514 Sep 29 j 23:44	27°♄41'48	6.25178 AU
	-5520 Nov 06 j 15:55	30°♄				
direct	-5520 Dec 04 j 14:12	28°♄43'00	conjunction	-5514 Oct 01 j 07:42	28°♄00'05	1°13'53
	-5519 Jan 01 j 21:29	0°♄	minimum elong	-5514 Oct 01 j 07:45	28°♄00'07	1°14'05
evening set	-5519 Apr 10 j 21:39	17°♄29'37		-5514 Oct 10 j 01:25	0°♄	
			morning rise	-5514 Oct 13 j 19:10	0°♄51'09	
conjunction	-5519 Apr 24 j 15:38	20°♄35'14 -0°49'48	retrograde	-5513 Feb 16 j 05:36	19°♄11'13	
minimum elong	-5519 Apr 24 j 15:42	20°♄35'17 0°49'52	opposition	-5513 Apr 18 j 11:10	14°♄17'10	1°25'16
max. Earth dist.	-5519 Apr 25 j 12:21	20°♄46'55 6.21211 AU	min. Earth dist.	-5513 Apr 19 j 03:48	14°♄11'51	4.20217 AU
morning rise	-5519 May 08 j 08:54	23°♄40'15	direct	-5513 Jun 18 j 12:26	9°♄22'16	
	-5519 Jun 06 j 13:31	0°♄	evening set	-5513 Oct 20 j 22:50	27°♄50'10	
retrograde	-5519 Sep 09 j 19:32	11°♄53'52		-5513 Oct 30 j 05:54	0°♄	
opposition	-5519 Nov 08 j 03:23	6°♄53'49 -0°41'01				
min. Earth dist.	-5519 Nov 07 j 21:17	6°♄55'52 4.26119 AU	conjunction	-5513 Nov 02 j 14:22	0°♄47'01	0°36'43
direct	-5518 Jan 07 j 13:33	1°♄50'21	minimum elong	-5513 Nov 02 j 14:25	0°♄47'02	0°36'44
evening set	-5518 May 15 j 12:41	20°♄14'19	max. Earth dist.	-5513 Nov 02 j 01:25	0°♄39'27	6.15184 AU
			morning rise	-5513 Nov 15 j 07:18	3°♄44'48	
conjunction	-5518 May 29 j 02:30	23°♄14'20 -0°03'43	retrograde	-5512 Mar 23 j 00:52	22°♄57'32	
minimum elong	-5518 May 29 j 02:28	23°♄14'19 0°03'37	opposition	-5512 May 23 j 02:19	17°♄59'57	0°17'19
behind sun begin	-5518 May 28 j 18:18	23°♄09'49	min. Earth dist.	-5512 May 23 j 03:54	17°♄59'26	4.10490 AU
behind sun end	-5518 May 29 j 10:39	23°♄18'50	direct	-5512 Jul 21 j 20:50	13°♄06'49	
max. Earth dist.	-5518 May 29 j 01:06	23°♄13'36 6.30562 AU	desc. node	-5512 Aug 20 j 03:22	14°♄29'50	
morning rise	-5518 Jun 11 j 13:24	26°♄12'51		-5512 Nov 14 j 09:26	0°♄	
asc. node	-5518 Jun 28 j 06:48	29°♄50'22	evening set	-5512 Nov 22 j 15:18	1°♄55'43	
	-5518 Jun 29 j 00:56	0°♄				
retrograde	-5518 Oct 11 j 05:23	13°♄41'40	conjunction	-5512 Dec 05 j 13:44	4°♄59'18	-0°14'01

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 35

Attention, astronomical year style is used: The year -5512 in astronomical counting style is the year 5513 BCE in historical counting style.

minimum elong	-5512 Dec 05 j 13:43	4° \mathbb{M} 59'17	0°14'11	max. Earth dist.	-5506 Jun 02 j 13:51	27° \mathbb{Y} 48'30	6.31508 AU
behind sun begin	-5512 Dec 05 j 09:41	4° \mathbb{M} 56'54			-5506 Jun 12 j 11:53	0° \mathbb{B}	
behind sun end	-5512 Dec 05 j 17:45	5° \mathbb{M} 01'40		morning rise	-5506 Jun 16 j 05:17	0° \mathbb{B} 49'12	
max. Earth dist.	-5512 Dec 05 j 23:24	5° \mathbb{M} 05'01	6.06653 AU		-5506 Aug 30 j 14:25	15° \mathbb{B}	
morning rise	-5512 Dec 18 j 15:13	8° \mathbb{M} 04'35		retrograde	-5506 Oct 15 j 15:31	18° \mathbb{B} 13'49	
	-5511 Jan 18 j 01:09	15° \mathbb{M}			-5506 Dec 01 j 03:09	15° \mathbb{R} \mathbb{B}	
retrograde	-5511 Apr 28 j 20:52	28° \mathbb{M} 01'27		opposition	-5506 Dec 14 j 07:43	13° \mathbb{B} 18'09	0°38'24
opposition	-5511 Jun 28 j 12:16	22° \mathbb{M} 59'54	-0°59'27	min. Earth dist.	-5506 Dec 14 j 17:56	13° \mathbb{B} 14'47	4.34898 AU
min. Earth dist.	-5511 Jun 27 j 20:20	23° \mathbb{M} 05'11	4.03979 AU	direct	-5505 Feb 14 j 01:41	8° \mathbb{B} 14'24	
direct	-5511 Aug 26 j 01:42	18° \mathbb{M} 06'39			-5505 Apr 26 j 09:12	15° \mathbb{B}	
	-5511 Nov 26 j 11:23	0° \mathbb{A}		evening set	-5505 Jun 22 j 03:36	26° \mathbb{B} 18'51	
evening set	-5511 Dec 28 j 03:03	7° \mathbb{A} 13'35		max. Earth dist.	-5505 Jul 04 j 07:17	28° \mathbb{B} 58'47	6.37152 AU
conjunction	-5510 Jan 10 j 09:12	10° \mathbb{A} 22'12	-1°00'46	conjunction	-5505 Jul 05 j 07:21	29° \mathbb{B} 12'01	0°48'07
minimum elong	-5510 Jan 10 j 09:07	10° \mathbb{A} 22'10	1°01'03	minimum elong	-5505 Jul 05 j 07:17	29° \mathbb{B} 11'59	0°48'22
max. Earth dist.	-5510 Jan 11 j 17:23	10° \mathbb{A} 41'20	6.02685 AU		-5505 Jul 08 j 22:34	0° \mathbb{I}	
morning rise	-5510 Jan 23 j 18:40	13° \mathbb{A} 32'37		morning rise	-5505 Jul 18 j 07:27	2° \mathbb{I} 03'25	
	-5510 Apr 15 j 18:10	0° \mathbb{B}		retrograde	-5505 Nov 15 j 14:19	19° \mathbb{I} 08'06	
retrograde	-5510 Jun 04 j 19:11	3° \mathbb{B} 46'08		opposition	-5504 Jan 14 j 19:03	14° \mathbb{I} 15'20	1°35'26
	-5510 Jul 25 j 02:00	30° \mathbb{R} \mathbb{A}		min. Earth dist.	-5504 Jan 15 j 16:27	14° \mathbb{I} 08'26	4.38208 AU
opposition	-5510 Aug 03 j 20:17	28° \mathbb{A} 41'38	-1°55'13	direct	-5504 Mar 17 j 06:21	9° \mathbb{I} 12'54	
min. Earth dist.	-5510 Aug 02 j 18:42	28° \mathbb{A} 50'17	4.03113 AU	evening set	-5504 Jul 22 j 19:45	27° \mathbb{I} 09'16	
direct	-5510 Sep 30 j 21:36	23° \mathbb{A} 46'13		max. Earth dist.	-5504 Aug 03 j 00:36	29° \mathbb{I} 37'30	6.37733 AU
	-5510 Dec 03 j 17:01	0° \mathbb{B}					
evening set	-5509 Feb 02 j 21:35	12° \mathbb{B} 59'51		conjunction	-5504 Aug 04 j 13:58	29° \mathbb{I} 58'10	1°18'45
conjunction	-5509 Feb 16 j 10:33	16° \mathbb{B} 10'20	-1°25'07	minimum elong	-5504 Aug 04 j 13:55	29° \mathbb{I} 58'09	1°19'05
minimum elong	-5509 Feb 16 j 10:32	16° \mathbb{B} 10'20	1°25'26		-5504 Aug 04 j 17:16	0° \mathbb{B}	
max. Earth dist.	-5509 Feb 18 j 06:21	16° \mathbb{B} 36'03	6.04857 AU	morning rise	-5504 Aug 17 j 05:22	2° \mathbb{B} 45'42	
morning rise	-5509 Mar 02 j 02:09	19° \mathbb{B} 22'06		retrograde	-5504 Dec 16 j 02:12	19° \mathbb{B} 55'46	
	-5509 Apr 19 j 19:36	0° \mathbb{A}		opposition	-5503 Feb 14 j 18:21	15° \mathbb{B} 04'17	2°05'32
retrograde	-5509 Jul 10 j 15:56	9° \mathbb{A} 14'34		min. Earth dist.	-5503 Feb 15 j 22:51	14° \mathbb{B} 55'12	4.36143 AU
min. Earth dist.	-5509 Sep 07 j 01:53	4° \mathbb{A} 18'39	4.08202 AU	direct	-5503 Apr 18 j 09:28	10° \mathbb{B} 04'06	
opposition	-5509 Sep 08 j 04:41	4° \mathbb{A} 09'30	-2°07'23	evening set	-5503 Aug 22 j 21:18	28° \mathbb{B} 02'41	
	-5509 Oct 14 j 13:01	30° \mathbb{R} \mathbb{B}			-5503 Aug 31 j 15:09	0° \mathbb{Q}	
direct	-5509 Nov 05 j 12:10	29° \mathbb{B} 10'45		max. Earth dist.	-5503 Sep 02 j 19:03	0° \mathbb{Q} 29'08	6.33062 AU
	-5509 Nov 27 j 16:03	0° \mathbb{A}		conjunction	-5503 Sep 04 j 09:46	0° \mathbb{Q} 50'52	1°27'08
	-5508 Feb 25 j 10:33	15° \mathbb{A}		minimum elong	-5503 Sep 04 j 09:46	0° \mathbb{Q} 50'52	1°27'26
evening set	-5508 Mar 10 j 20:23	18° \mathbb{A} 15'34		morning rise	-5503 Sep 16 j 20:26	3° \mathbb{Q} 38'19	
conjunction	-5508 Mar 24 j 13:50	21° \mathbb{A} 24'42	-1°17'54		-5503 Nov 11 j 16:51	15° \mathbb{Q}	
minimum elong	-5508 Mar 24 j 13:54	21° \mathbb{A} 24'44	1°18'07	retrograde	-5502 Jan 17 j 15:59	21° \mathbb{Q} 17'04	
max. Earth dist.	-5508 Mar 26 j 02:28	21° \mathbb{A} 45'45	6.12347 AU	opposition	-5502 Mar 19 j 18:48	16° \mathbb{Q} 24'58	2°00'03
morning rise	-5508 Apr 07 j 08:26	24° \mathbb{A} 34'10		min. Earth dist.	-5502 Mar 20 j 20:24	16° \mathbb{Q} 16'50	4.29180 AU
	-5508 May 01 j 17:38	0° \mathbb{H}			-5502 Mar 31 j 02:22	15° \mathbb{R} \mathbb{Q}	
retrograde	-5508 Aug 12 j 19:16	13° \mathbb{H} 37'13		direct	-5502 May 20 j 19:19	11° \mathbb{Q} 27'38	
min. Earth dist.	-5508 Oct 10 j 08:14	8° \mathbb{H} 40'14	4.17264 AU		-5502 Jul 09 j 08:15	15° \mathbb{Q}	
opposition	-5508 Oct 11 j 02:17	8° \mathbb{H} 34'05	-1°34'00	evening set	-5502 Sep 23 j 03:17	29° \mathbb{Q} 37'57	
direct	-5508 Dec 09 j 09:35	3° \mathbb{H} 32'14			-5502 Sep 24 j 18:02	0° \mathbb{H}	
evening set	-5507 Apr 15 j 20:04	22° \mathbb{H} 16'47		max. Earth dist.	-5502 Oct 04 j 09:29	2° \mathbb{H} 12'22	6.24372 AU
conjunction	-5507 Apr 29 j 14:02	25° \mathbb{H} 21'54	-0°43'53	conjunction	-5502 Oct 05 j 15:04	2° \mathbb{H} 29'20	1°10'01
minimum elong	-5507 Apr 29 j 14:05	25° \mathbb{H} 21'56	0°43'56	minimum elong	-5502 Oct 05 j 15:08	2° \mathbb{H} 29'22	1°10'11
max. Earth dist.	-5507 Apr 30 j 09:19	25° \mathbb{H} 32'45	6.22341 AU	morning rise	-5502 Oct 18 j 02:50	5° \mathbb{H} 20'53	
morning rise	-5507 May 13 j 06:37	28° \mathbb{H} 26'12		retrograde	-5501 Feb 20 j 23:34	23° \mathbb{H} 46'06	
	-5507 May 20 j 07:41	0° \mathbb{Y}		opposition	-5501 Apr 23 j 04:49	18° \mathbb{H} 51'39	1°17'26
retrograde	-5507 Sep 14 j 06:59	16° \mathbb{Y} 33'30		min. Earth dist.	-5501 Apr 23 j 21:03	18° \mathbb{H} 46'28	4.19250 AU
opposition	-5507 Nov 12 j 15:25	11° \mathbb{Y} 34'01	-0°31'17	direct	-5501 Jun 23 j 03:51	13° \mathbb{H} 56'59	
min. Earth dist.	-5507 Nov 12 j 10:29	11° \mathbb{Y} 35'41	4.27188 AU		-5501 Oct 14 j 18:48	0° \mathbb{U}	
direct	-5506 Jan 12 j 04:31	6° \mathbb{Y} 30'29		evening set	-5501 Oct 25 j 08:59	2° \mathbb{U} 26'18	
asc. node	-5506 May 07 j 13:19	22° \mathbb{Y} 06'22		conjunction	-5501 Nov 07 j 01:13	5° \mathbb{U} 23'54	0°30'21
evening set	-5506 May 20 j 06:40	24° \mathbb{Y} 52'17		minimum elong	-5501 Nov 07 j 01:15	5° \mathbb{U} 23'55	0°30'21
conjunction	-5506 Jun 02 j 19:17	27° \mathbb{Y} 51'28	0°03'14	max. Earth dist.	-5501 Nov 06 j 13:28	5° \mathbb{U} 17'02	6.14151 AU
minimum elong	-5506 Jun 02 j 19:18	27° \mathbb{Y} 51'29	0°03'22	morning rise	-5501 Nov 19 j 19:15	8° \mathbb{U} 22'37	
behind sun begin	-5506 Jun 02 j 11:07	27° \mathbb{Y} 46'58		retrograde	-5500 Mar 27 j 20:47	27° \mathbb{U} 41'17	
behind sun end	-5506 Jun 03 j 03:29	27° \mathbb{Y} 55'59		opposition	-5500 May 27 j 22:17	22° \mathbb{U} 43'10	0°06'56
				min. Earth dist.	-5500 May 27 j 21:13	22° \mathbb{U} 43'31	4.09476 AU

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 36

Attention, astronomical year style is used: The year -5500 in astronomical counting style is the year 5501 BCE in historical counting style.

desc. node	-5500 Jul 02 j 08:38	18°♌46'36	conjunction	-5494 Jun 07 j 11:01	2°♏25'22	0°09'58
direct	-5500 Jul 26 j 11:38	17°♌50'05	minimum elong	-5494 Jun 07 j 11:00	2°♏25'21	0°10'07
	-5500 Oct 28 j 22:48	0°♌	behind sun begin	-5494 Jun 07 j 04:28	2°♏21'46	
evening set	-5500 Nov 27 j 06:42	6°♌41'38	behind sun end	-5494 Jun 07 j 17:31	2°♏28'57	
			max. Earth dist.	-5494 Jun 07 j 04:21	2°♏21'42	6.32580 AU
conjunction	-5500 Dec 10 j 06:14	9°♌46'05 -0°20'55	morning rise	-5494 Jun 20 j 19:33	5°♏22'05	
minimum elong	-5500 Dec 10 j 06:12	9°♌46'03 0°21'07		-5494 Aug 06 j 18:16	15°♏	
max. Earth dist.	-5500 Dec 10 j 18:46	9°♌53'31 6.05751 AU	retrograde	-5494 Oct 19 j 23:00	22°♏42'08	
morning rise	-5500 Dec 23 j 08:45	12°♌52'14	opposition	-5494 Dec 18 j 17:14	17°♏46'55 0°47'33	
	-5499 Jan 01 j 11:17	15°♌	min. Earth dist.	-5494 Dec 19 j 04:39	17°♏43'10 4.35758 AU	
	-5499 Mar 21 j 00:58	0°♌		-5493 Jan 10 j 05:47	15°♏♏	
retrograde	-5499 May 03 j 21:02	2°♌53'56	direct	-5493 Feb 18 j 14:15	12°♏43'18	
	-5499 Jun 16 j 19:28	30°♌♌		-5493 Mar 30 j 07:52	15°♏	
opposition	-5499 Jul 03 j 09:50	27°♌51'55 -1°08'45		-5493 Jun 23 j 03:32	0°♌	
min. Earth dist.	-5499 Jul 02 j 17:24	27°♌57'23 4.03280 AU	evening set	-5493 Jun 26 j 15:17	0°♌45'33	
direct	-5499 Aug 30 j 21:14	22°♌58'27				
	-5499 Nov 07 j 01:49	0°♌	conjunction	-5493 Jul 09 j 17:29	3°♌37'53 0°53'29	
evening set	-5498 Jan 02 j 00:23	12°♌08'15	minimum elong	-5493 Jul 09 j 17:25	3°♌37'51 0°53'45	
			max. Earth dist.	-5493 Jul 08 j 13:48	3°♌22'40 6.37687 AU	
conjunction	-5498 Jan 15 j 07:36	15°♌17'31 -1°05'38	morning rise	-5493 Jul 22 j 16:23	6°♌28'32	
minimum elong	-5498 Jan 15 j 07:31	15°♌17'29 1°05'56	retrograde	-5493 Nov 19 j 22:56	23°♌31'59	
max. Earth dist.	-5498 Jan 16 j 17:50	15°♌37'51 6.02251 AU	opposition	-5492 Jan 19 j 04:53	18°♌39'29 1°41'29	
morning rise	-5498 Jan 28 j 18:08	18°♌28'33	min. Earth dist.	-5492 Jan 20 j 04:21	18°♌31'56 4.38382 AU	
	-5498 Mar 22 j 10:02	0°♏	direct	-5492 Mar 21 j 18:37	13°♌37'15	
retrograde	-5498 Jun 09 j 18:29	8°♏43'10		-5492 Jul 20 j 01:33	0°♏	
opposition	-5498 Aug 08 j 17:05	3°♏38'31 -1°59'38	evening set	-5492 Jul 27 j 03:43	1°♏32'53	
min. Earth dist.	-5498 Aug 07 j 14:32	3°♏47'31 4.03031 AU	max. Earth dist.	-5492 Aug 07 j 07:41	4°♏00'46 6.37503 AU	
	-5498 Sep 08 j 02:36	30°♏♌				
direct	-5498 Oct 05 j 16:53	28°♌42'44	conjunction	-5492 Aug 08 j 21:00	4°♏21'26 1°21'23	
	-5498 Nov 02 j 09:19	0°♏	minimum elong	-5492 Aug 08 j 20:58	4°♏21'25 1°21'41	
evening set	-5497 Feb 07 j 23:06	17°♏58'00	morning rise	-5492 Aug 21 j 11:18	7°♏08'38	
			retrograde	-5492 Dec 20 j 11:19	24°♏21'02	
conjunction	-5497 Feb 21 j 12:50	21°♏08'45 -1°25'57	opposition	-5491 Feb 19 j 06:22	19°♏29'35 2°06'59	
minimum elong	-5497 Feb 21 j 12:50	21°♏08'44 1°26'15	min. Earth dist.	-5491 Feb 20 j 10:24	19°♏20'40 4.35528 AU	
max. Earth dist.	-5497 Feb 23 j 07:23	21°♏33'41 6.05121 AU	direct	-5491 Apr 22 j 19:49	14°♏29'48	
morning rise	-5497 Mar 07 j 05:15	24°♏20'41		-5491 Aug 15 j 22:23	0°♏	
	-5497 Apr 01 j 03:11	0°♏	evening set	-5491 Aug 27 j 04:43	2°♏29'19	
retrograde	-5497 Jul 15 j 11:32	14°♏09'45	max. Earth dist.	-5491 Sep 07 j 01:48	4°♏55'49 6.32098 AU	
opposition	-5497 Sep 12 j 22:52	9°♏04'47 -2°05'12				
min. Earth dist.	-5497 Sep 11 j 20:46	9°♏13'43 4.08786 AU	conjunction	-5491 Sep 08 j 16:37	5°♏17'40 1°26'17	
direct	-5497 Nov 10 j 08:42	4°♏05'33	minimum elong	-5491 Sep 08 j 16:38	5°♏17'40 1°26'34	
	-5496 Feb 07 j 15:28	15°♏	morning rise	-5491 Sep 21 j 03:09	8°♏05'26	
evening set	-5496 Mar 15 j 21:46	23°♏09'54		-5491 Oct 23 j 04:19	15°♏	
			retrograde	-5490 Jan 22 j 08:21	25°♏49'39	
conjunction	-5496 Mar 29 j 15:52	26°♏18'54 -1°14'27	opposition	-5490 Mar 24 j 11:02	20°♏57'22 1°56'16	
minimum elong	-5496 Mar 29 j 15:57	26°♏18'56 1°14'39	min. Earth dist.	-5490 Mar 25 j 12:57	20°♏49'08 4.27907 AU	
max. Earth dist.	-5496 Mar 31 j 04:36	26°♏39'58 6.13233 AU	direct	-5490 May 25 j 09:55	16°♏00'23	
morning rise	-5496 Apr 12 j 10:28	29°♏28'01		-5490 Sep 08 j 16:13	0°♏	
	-5496 Apr 14 j 18:48	0°♏	evening set	-5490 Sep 27 j 12:45	4°♏13'12	
retrograde	-5496 Aug 17 j 11:17	18°♏24'39	max. Earth dist.	-5490 Oct 08 j 20:52	6°♏49'11 6.22908 AU	
opposition	-5496 Oct 15 j 17:08	13°♏21'58 -1°26'26				
min. Earth dist.	-5496 Oct 15 j 00:12	13°♏27'43 4.18347 AU	conjunction	-5490 Oct 10 j 00:59	7°♏05'21 1°05'41	
direct	-5496 Dec 14 j 03:21	8°♏19'50	minimum elong	-5490 Oct 10 j 01:03	7°♏05'23 1°05'50	
evening set	-5495 Apr 20 j 18:03	27°♏02'03	morning rise	-5490 Oct 22 j 13:24	9°♏57'48	
	-5495 May 03 j 23:54	0°♏	retrograde	-5489 Feb 25 j 20:01	28°♏30'35	
			opposition	-5489 Apr 28 j 01:54	23°♏35'43 1°08'55	
conjunction	-5495 May 04 j 11:30	0°♏06'30 -0°37'40	min. Earth dist.	-5489 Apr 28 j 15:26	23°♏31'23 4.17696 AU	
minimum elong	-5495 May 04 j 11:33	0°♏06'32 0°37'42	direct	-5489 Jun 27 j 19:20	18°♏41'23	
max. Earth dist.	-5495 May 05 j 03:13	0°♏15'19 6.23532 AU		-5489 Sep 27 j 16:05	0°♏	
morning rise	-5495 May 18 j 03:39	3°♏10'05	evening set	-5489 Oct 29 j 23:33	7°♏14'16	
retrograde	-5495 Sep 18 j 17:17	21°♏10'49				
opposition	-5495 Nov 17 j 03:01	16°♏11'47 -0°21'23	conjunction	-5489 Nov 11 j 16:41	10°♏12'54 0°23'33	
min. Earth dist.	-5495 Nov 16 j 23:53	16°♏12'50 4.28369 AU	minimum elong	-5489 Nov 11 j 16:43	10°♏12'55 0°23'32	
direct	-5494 Jan 16 j 20:32	11°♏08'05	max. Earth dist.	-5489 Nov 11 j 08:11	10°♏07'55 6.12655 AU	
asc. node	-5494 Mar 16 j 19:50	16°♏01'56	morning rise	-5489 Nov 24 j 11:48	13°♏12'46	
evening set	-5494 May 24 j 23:20	29°♏27'02		-5488 Feb 19 j 22:03	0°♏	
	-5494 May 27 j 11:25	0°♏	retrograde	-5488 Apr 02 j 01:02	2°♏39'11	

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 37

Attention, astronomical year style is used: The year -5488 in astronomical counting style is the year 5489 BCE in historical counting style.

desc. node	-5488 May 12 j 16:32	0° \mathbb{M} 11'41	asc. node	-5482 Jan 26 j 00:26	15° \mathbb{Y} 38'29
	-5488 May 14 j 09:50	30° \mathbb{R} $\underline{\mathbb{A}}$		-5482 May 11 j 13:40	0° \mathbb{B}
opposition	-5488 Jun 01 j 23:45	27° $\underline{\mathbb{A}}$ 40'32 -0°03'59	evening set	-5482 May 29 j 11:35	3° \mathbb{B} 51'24
min. Earth dist.	-5488 Jun 01 j 21:06	27° $\underline{\mathbb{A}}$ 41'24 4.08158 AU			
direct	-5488 Jul 31 j 09:23	22° $\underline{\mathbb{A}}$ 47'32	conjunction	-5482 Jun 11 j 22:01	6° \mathbb{B} 48'43 0°16'24
	-5488 Oct 09 j 04:39	0° \mathbb{M}	minimum elong	-5482 Jun 11 j 22:00	6° \mathbb{B} 48'42 0°16'34
evening set	-5488 Dec 02 j 04:09	11° \mathbb{M} 42'47	max. Earth dist.	-5482 Jun 11 j 10:38	6° \mathbb{B} 42'27 6.33802 AU
			morning rise	-5482 Jun 25 j 05:24	9° \mathbb{B} 44'26
conjunction	-5488 Dec 15 j 04:49	14° \mathbb{M} 48'10 -0°28'01		-5482 Jul 19 j 20:19	15° \mathbb{B}
minimum elong	-5488 Dec 15 j 04:47	14° \mathbb{M} 48'08 0°28'13	retrograde	-5482 Oct 24 j 02:59	27° \mathbb{B} 00'04
max. Earth dist.	-5488 Dec 15 j 21:02	14° \mathbb{M} 57'48 6.04749 AU	opposition	-5482 Dec 22 j 23:10	22° \mathbb{B} 05'15 0°56'03
	-5488 Dec 16 j 00:45	15° \mathbb{M}	min. Earth dist.	-5482 Dec 23 j 13:00	22° \mathbb{B} 00'43 4.36547 AU
morning rise	-5488 Dec 28 j 08:36	17° \mathbb{M} 55'18	direct	-5481 Feb 22 j 23:34	17° \mathbb{B} 01'39
	-5487 Feb 21 j 23:57	0° \mathbb{Z}		-5481 Jun 07 j 06:51	0° \mathbb{II}
retrograde	-5487 May 09 j 01:45	8° \mathbb{Z} 01'31	evening set	-5481 Jun 30 j 22:36	5° \mathbb{II} 02'09
opposition	-5487 Jul 08 j 12:39	2° \mathbb{Z} 59'07 -1°18'01			
min. Earth dist.	-5487 Jul 07 j 17:43	3° \mathbb{Z} 05'25 4.02751 AU	conjunction	-5481 Jul 13 j 23:36	7° \mathbb{II} 53'50 0°58'21
	-5487 Aug 01 j 15:50	30° \mathbb{R} \mathbb{M}	minimum elong	-5481 Jul 13 j 23:32	7° \mathbb{II} 53'47 0°58'39
direct	-5487 Sep 04 j 20:17	28° \mathbb{M} 05'31	max. Earth dist.	-5481 Jul 12 j 18:17	7° \mathbb{II} 37'42 6.37967 AU
	-5487 Oct 08 j 19:46	0° \mathbb{Z}	morning rise	-5481 Jul 26 j 21:03	10° \mathbb{II} 43'48
evening set	-5486 Jan 07 j 03:53	17° \mathbb{Z} 17'26	retrograde	-5481 Nov 24 j 03:35	27° \mathbb{II} 47'15
			opposition	-5480 Jan 23 j 11:38	22° \mathbb{II} 55'02 1°46'48
conjunction	-5486 Jan 20 j 12:00	20° \mathbb{Z} 27'07 -1°10'16	min. Earth dist.	-5480 Jan 24 j 12:28	22° \mathbb{II} 47'03 4.38152 AU
minimum elong	-5486 Jan 20 j 11:56	20° \mathbb{Z} 27'04 1°10'35	direct	-5480 Mar 26 j 02:02	17° \mathbb{II} 53'04
max. Earth dist.	-5486 Jan 21 j 23:52	20° \mathbb{Z} 48'24 6.02242 AU		-5480 Jul 04 j 01:59	0° \mathbb{B}
morning rise	-5486 Feb 02 j 23:35	23° \mathbb{Z} 38'33	evening set	-5480 Jul 31 j 09:09	5° \mathbb{B} 49'26
	-5486 Mar 02 j 18:19	0° \mathbb{B}	max. Earth dist.	-5480 Aug 11 j 09:12	8° \mathbb{B} 15'33 6.36750 AU
retrograde	-5486 Jun 14 j 20:35	13° \mathbb{B} 51'47			
opposition	-5486 Aug 13 j 17:44	8° \mathbb{B} 46'53 -2°03'20	conjunction	-5480 Aug 13 j 01:22	8° \mathbb{B} 37'51 1°23'28
min. Earth dist.	-5486 Aug 12 j 14:07	8° \mathbb{B} 56'17 4.03581 AU	minimum elong	-5480 Aug 13 j 01:19	8° \mathbb{B} 37'50 1°23'47
direct	-5486 Oct 10 j 18:19	3° \mathbb{B} 50'39	morning rise	-5480 Aug 25 j 15:03	11° \mathbb{B} 25'03
evening set	-5485 Feb 13 j 03:59	23° \mathbb{B} 04'46	retrograde	-5480 Dec 24 j 22:03	28° \mathbb{B} 41'42
			opposition	-5479 Feb 23 j 17:08	23° \mathbb{B} 50'15 2°07'45
conjunction	-5485 Feb 26 j 18:38	26° \mathbb{B} 15'23 -1°26'13	min. Earth dist.	-5479 Feb 24 j 22:24	23° \mathbb{B} 40'57 4.34312 AU
minimum elong	-5485 Feb 26 j 18:38	26° \mathbb{B} 15'23 1°26'31	direct	-5479 Apr 27 j 05:44	18° \mathbb{B} 50'46
max. Earth dist.	-5485 Feb 28 j 15:19	26° \mathbb{B} 41'30 6.06197 AU		-5479 Jul 30 j 11:10	0° \mathbb{Q}
morning rise	-5485 Mar 12 j 11:24	29° \mathbb{B} 26'59	evening set	-5479 Aug 31 j 10:59	6° \mathbb{Q} 53'16
	-5485 Mar 14 j 20:29	0° \mathbb{A}	max. Earth dist.	-5479 Sep 11 j 09:25	9° \mathbb{Q} 21'02 6.30513 AU
	-5485 May 29 j 00:20	15° \mathbb{A}			
retrograde	-5485 Jul 20 j 08:23	19° \mathbb{A} 08'46	conjunction	-5479 Sep 12 j 22:52	9° \mathbb{Q} 42'11 1°24'55
	-5485 Sep 10 j 21:24	15° \mathbb{R} \mathbb{A}	minimum elong	-5479 Sep 12 j 22:54	9° \mathbb{Q} 42'12 1°25'11
opposition	-5485 Sep 17 j 18:19	14° \mathbb{A} 03'57 -2°02'05	morning rise	-5479 Sep 25 j 09:18	12° \mathbb{Q} 30'35
min. Earth dist.	-5485 Sep 16 j 16:56	14° \mathbb{A} 12'38 4.10274 AU		-5479 Oct 06 j 13:40	15° \mathbb{Q}
direct	-5485 Nov 15 j 06:56	9° \mathbb{A} 04'17		-5478 Jan 11 j 11:30	0° \mathbb{H}
	-5484 Jan 17 j 10:00	15° \mathbb{A}	retrograde	-5478 Jan 27 j 00:08	0° \mathbb{H} 22'28
evening set	-5484 Mar 20 j 23:20	28° \mathbb{A} 04'29		-5478 Feb 11 j 14:27	30° \mathbb{R} \mathbb{Q}
	-5484 Mar 29 j 10:05	0° \mathbb{H}	opposition	-5478 Mar 29 j 03:51	25° \mathbb{Q} 29'58 1°51'47
			min. Earth dist.	-5478 Mar 30 j 04:03	25° \mathbb{Q} 22'17 4.26065 AU
conjunction	-5484 Apr 03 j 17:26	1° \mathbb{H} 12'45 -1°10'33	direct	-5478 May 29 j 21:52	20° \mathbb{Q} 33'26
minimum elong	-5484 Apr 03 j 17:30	1° \mathbb{H} 12'48 1°10'43		-5478 Aug 22 j 01:51	0° \mathbb{H}
max. Earth dist.	-5484 Apr 05 j 03:12	1° \mathbb{H} 32'03 6.14994 AU	evening set	-5478 Oct 01 j 23:20	8° \mathbb{H} 50'37
morning rise	-5484 Apr 17 j 12:02	4° \mathbb{H} 21'02	max. Earth dist.	-5478 Oct 13 j 09:52	11° \mathbb{H} 28'42 6.20970 AU
retrograde	-5484 Aug 21 j 22:17	23° \mathbb{H} 07'59			
opposition	-5484 Oct 20 j 06:05	18° \mathbb{H} 05'40 -1°18'28	conjunction	-5478 Oct 14 j 11:59	11° \mathbb{H} 43'47 1°00'53
min. Earth dist.	-5484 Oct 19 j 14:26	18° \mathbb{H} 10'59 4.20195 AU	minimum elong	-5478 Oct 14 j 12:03	11° \mathbb{H} 43'49 1°01'00
direct	-5484 Dec 18 j 20:59	13° \mathbb{H} 03'10	morning rise	-5478 Oct 27 j 01:14	14° \mathbb{H} 37'25
	-5483 Apr 17 j 23:14	0° \mathbb{Y}		-5477 Jan 14 j 07:22	0° $\underline{\mathbb{A}}$
evening set	-5483 Apr 25 j 13:02	1° \mathbb{Y} 40'23	retrograde	-5477 Mar 02 j 21:25	3° $\underline{\mathbb{A}}$ 19'35
				-5477 Apr 20 j 09:09	30° \mathbb{R} \mathbb{H}
conjunction	-5483 May 09 j 06:00	4° \mathbb{Y} 43'51 -0°31'25	opposition	-5477 May 03 j 01:19	28° \mathbb{H} 24'15 0°59'47
minimum elong	-5483 May 09 j 06:03	4° \mathbb{Y} 43'52 0°31'25	min. Earth dist.	-5477 May 03 j 13:01	28° \mathbb{H} 20'29 4.15796 AU
max. Earth dist.	-5483 May 09 j 18:56	4° \mathbb{Y} 51'04 6.25336 AU	direct	-5477 Jul 02 j 14:15	23° \mathbb{H} 30'12
morning rise	-5483 May 22 j 21:10	7° \mathbb{Y} 46'15		-5477 Sep 07 j 12:12	0° $\underline{\mathbb{A}}$
retrograde	-5483 Sep 23 j 00:36	25° \mathbb{Y} 38'47	evening set	-5477 Nov 03 j 16:42	12° $\underline{\mathbb{A}}$ 07'47
opposition	-5483 Nov 21 j 11:07	20° \mathbb{Y} 40'17 -0°11'44			
min. Earth dist.	-5483 Nov 21 j 10:33	20° \mathbb{Y} 40'29 4.29954 AU	conjunction	-5477 Nov 16 j 10:58	15° $\underline{\mathbb{A}}$ 07'37 0°16'27
direct	-5482 Jan 21 j 09:40	15° \mathbb{Y} 36'29	minimum elong	-5477 Nov 16 j 10:59	15° $\underline{\mathbb{A}}$ 07'38 0°16'23

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 38

Attention, astronomical year style is used: The year -5477 in astronomical counting style is the year 5478 BCE in historical counting style.

max. Earth dist.	-5477 Nov 16 j 06:52	15°♊05'13	6.10986 AU		-5471 Oct 07 j 09:47	30°♎♎	
morning rise	-5477 Nov 29 j 07:17	18°♊08'45		opposition	-5471 Nov 25 j 20:29	25°♎♎12'08	-0°01'56
	-5476 Jan 23 j 11:14	0°♎♎		min. Earth dist.	-5471 Nov 25 j 21:36	25°♎♎11'45	4.31174 AU
desc. node	-5476 Mar 22 j 05:52	7°♎♎19'01		asc. node	-5471 Dec 06 j 15:10	23°♎♎47'16	
retrograde	-5476 Apr 07 j 05:59	7°♎♎43'06		direct	-5470 Jan 25 j 22:41	20°♎♎08'15	
opposition	-5476 Jun 07 j 03:34	2°♎♎43'54	-0°15'08		-5470 Apr 23 j 21:49	0°♎♎	
min. Earth dist.	-5476 Jun 06 j 21:37	2°♎♎45'50	4.06893 AU	evening set	-5470 Jun 03 j 01:17	8°♎♎20'31	
	-5476 Jun 29 j 08:02	30°♎♎♎					
direct	-5476 Aug 05 j 07:52	27°♎♎51'01		conjunction	-5470 Jun 16 j 10:30	11°♎♎16'59	0°22'51
	-5476 Sep 10 j 20:16	0°♎♎		minimum elong	-5470 Jun 16 j 10:28	11°♎♎16'57	0°23'02
	-5476 Nov 29 j 09:45	15°♎♎		max. Earth dist.	-5470 Jun 15 j 20:08	11°♎♎09'04	6.34685 AU
evening set	-5476 Dec 07 j 04:29	16°♎♎49'40		morning rise	-5470 Jun 29 j 16:31	14°♎♎11'46	
					-5470 Jul 03 j 08:55	15°♎♎	
conjunction	-5476 Dec 20 j 06:07	19°♎♎55'50	-0°35'03		-5470 Sep 28 j 13:09	0°♎♎	
minimum elong	-5476 Dec 20 j 06:04	19°♎♎55'48	0°35'16	retrograde	-5470 Oct 28 j 10:30	1°♎♎24'17	
max. Earth dist.	-5476 Dec 21 j 01:36	20°♎♎07'25	6.03976 AU		-5470 Nov 27 j 07:08	30°♎♎♎	
morning rise	-5475 Jan 02 j 11:10	23°♎♎03'50		opposition	-5470 Dec 27 j 07:30	26°♎♎29'59	1°04'27
	-5475 Feb 01 j 19:48	0°♎♎♎		min. Earth dist.	-5470 Dec 27 j 23:46	26°♎♎24'41	4.37045 AU
retrograde	-5475 May 14 j 07:26	13°♎♎♎13'18		direct	-5469 Feb 27 j 11:12	21°♎♎26'33	
opposition	-5475 Jul 13 j 17:01	8°♎♎♎10'21	-1°26'49		-5469 May 20 j 04:23	0°♎♎	
min. Earth dist.	-5475 Jul 12 j 19:41	8°♎♎♎17'29	4.02556 AU	evening set	-5469 Jul 05 j 08:20	9°♎♎26'06	
direct	-5475 Sep 09 j 23:09	3°♎♎♎16'27		max. Earth dist.	-5469 Jul 16 j 23:30	11°♎♎59'19	6.38021 AU
evening set	-5474 Jan 12 j 08:35	22°♎♎♎29'05					
				conjunction	-5469 Jul 18 j 07:59	12°♎♎17'12	1°03'02
conjunction	-5474 Jan 25 j 17:47	25°♎♎♎39'01	-1°14'24	minimum elong	-5469 Jul 18 j 07:55	12°♎♎17'10	1°03'19
minimum elong	-5474 Jan 25 j 17:44	25°♎♎♎38'59	1°14'43	morning rise	-5469 Jul 31 j 04:18	15°♎♎06'40	
max. Earth dist.	-5474 Jan 27 j 09:43	26°♎♎♎02'40	6.02604 AU		-5469 Oct 21 j 17:37	0°♎♎	
morning rise	-5474 Feb 08 j 06:04	28°♎♎♎50'34		retrograde	-5469 Nov 28 j 12:17	2°♎♎10'53	
	-5474 Feb 13 j 04:43	0°♎♎♎			-5468 Jan 05 j 15:58	30°♎♎♎	
retrograde	-5474 Jun 19 j 23:42	19°♎♎♎00'39		opposition	-5468 Jan 27 j 21:47	27°♎♎18'52	1°51'43
opposition	-5474 Aug 18 j 18:27	13°♎♎♎55'36	-2°06'05	min. Earth dist.	-5468 Jan 28 j 23:44	27°♎♎10'33	4.37792 AU
min. Earth dist.	-5474 Aug 17 j 14:50	14°♎♎♎05'00	4.04460 AU	direct	-5468 Mar 30 j 12:28	22°♎♎17'10	
direct	-5474 Oct 15 j 19:58	8°♎♎♎58'56			-5468 Jun 15 j 12:22	0°♎♎	
evening set	-5473 Feb 18 j 09:05	28°♎♎♎10'56		evening set	-5468 Aug 04 j 17:01	10°♎♎14'21	
	-5473 Feb 26 j 04:48	0°♎♎♎		max. Earth dist.	-5468 Aug 15 j 17:14	12°♎♎40'51	6.36002 AU
conjunction	-5473 Mar 04 j 00:11	1°♎♎♎21'12	-1°25'51	conjunction	-5468 Aug 17 j 08:28	13°♎♎02'42	1°25'10
minimum elong	-5473 Mar 04 j 00:12	1°♎♎♎21'12	1°26'09	minimum elong	-5468 Aug 17 j 08:26	13°♎♎02'41	1°25'29
max. Earth dist.	-5473 Mar 05 j 19:28	1°♎♎♎46'24	6.07466 AU	morning rise	-5468 Aug 29 j 21:16	15°♎♎49'51	
morning rise	-5473 Mar 17 j 17:33	4°♎♎♎32'25			-5468 Nov 13 j 03:22	0°♎♎	
	-5473 May 05 j 00:38	15°♎♎♎		retrograde	-5468 Dec 29 j 10:29	3°♎♎10'45	
retrograde	-5473 Jul 25 j 02:09	24°♎♎♎06'22			-5467 Feb 14 j 19:18	30°♎♎♎	
min. Earth dist.	-5473 Sep 21 j 11:49	19°♎♎♎10'21	4.11798 AU	opposition	-5467 Feb 28 j 07:15	28°♎♎19'19	2°07'48
opposition	-5473 Sep 22 j 12:52	19°♎♎♎01'47	-1°58'10	min. Earth dist.	-5467 Mar 01 j 12:10	28°♎♎10'08	4.33236 AU
	-5473 Oct 27 j 03:14	15°♎♎♎		direct	-5467 May 01 j 17:44	23°♎♎20'17	
direct	-5473 Nov 20 j 04:08	14°♎♎♎01'41			-5467 Jul 10 j 23:17	0°♎♎	
	-5473 Dec 14 j 12:21	15°♎♎♎		evening set	-5467 Sep 04 j 19:56	11°♎♎24'53	
	-5472 Mar 12 j 18:27	0°♎♎♎		max. Earth dist.	-5467 Sep 15 j 18:02	13°♎♎52'59	6.29203 AU
evening set	-5472 Mar 26 j 00:21	2°♎♎♎58'06					
				conjunction	-5467 Sep 17 j 07:28	14°♎♎14'13	1°23'02
conjunction	-5472 Apr 08 j 18:38	6°♎♎♎05'43	-1°06'11	minimum elong	-5467 Sep 17 j 07:30	14°♎♎14'14	1°23'16
minimum elong	-5472 Apr 08 j 18:42	6°♎♎♎05'45	1°06'21		-5467 Sep 20 j 16:13	15°♎♎	
max. Earth dist.	-5472 Apr 10 j 01:58	6°♎♎♎23'33	6.16660 AU	morning rise	-5467 Sep 29 j 18:08	17°♎♎03'13	
morning rise	-5472 Apr 22 j 12:57	9°♎♎♎13'10			-5467 Dec 03 j 11:43	0°♎♎♎	
retrograde	-5472 Aug 26 j 12:13	27°♎♎♎51'23		retrograde	-5466 Jan 31 j 19:42	5°♎♎01'48	
opposition	-5472 Oct 24 j 19:16	22°♎♎♎49'36	-1°10'02	opposition	-5466 Apr 02 j 23:10	0°♎♎08'59	1°46'30
min. Earth dist.	-5472 Oct 24 j 06:23	22°♎♎♎53'58	4.21826 AU	min. Earth dist.	-5466 Apr 03 j 22:00	0°♎♎01'42	4.24612 AU
direct	-5472 Dec 23 j 15:24	17°♎♎♎46'52			-5466 Apr 04 j 03:22	30°♎♎♎	
	-5471 Mar 31 j 20:29	0°♎♎♎		direct	-5466 Jun 03 j 13:42	25°♎♎12'49	
evening set	-5471 Apr 30 j 08:08	6°♎♎♎20'06			-5466 Jul 31 j 05:57	0°♎♎♎	
				evening set	-5466 Oct 06 j 11:30	13°♎♎32'46	
conjunction	-5471 May 14 j 00:28	9°♎♎♎22'42	-0°24'57	max. Earth dist.	-5466 Oct 18 j 02:40	16°♎♎13'57	6.19541 AU
minimum elong	-5471 May 14 j 00:30	9°♎♎♎22'43	0°24'55				
max. Earth dist.	-5471 May 14 j 09:46	9°♎♎♎27'53	6.26812 AU	conjunction	-5466 Oct 19 j 00:51	16°♎♎26'48	0°55'40
morning rise	-5471 May 27 j 14:48	12°♎♎♎24'09		minimum elong	-5466 Oct 19 j 00:55	16°♎♎26'50	0°55'46
	-5471 Sep 17 j 06:25	0°♎♎♎		morning rise	-5466 Oct 31 j 14:46	19°♎♎21'22	
retrograde	-5471 Sep 27 j 07:55	0°♎♎♎10'04			-5466 Dec 20 j 09:19	0°♎♎♎	

Attention, astronomical year style is used: The year -5465 in astronomical counting style is the year 5466 BCE in historical counting style.

retrograde	-5465 Mar 07 j 21:34	8°♏10'46		direct	-5460 Dec 28 j 04:57	22°♎23'09	
opposition	-5465 May 08 j 01:20	3°♏14'56	0°50'12		-5459 Mar 12 j 20:30	0°♎	
min. Earth dist.	-5465 May 08 j 10:15	3°♏12'04	4.14510 AU	evening set	-5459 May 05 j 01:17	10°♎54'02	
	-5465 Jun 04 j 17:24	30°♎					
direct	-5465 Jul 07 j 09:25	28°♎21'13		conjunction	-5459 May 18 j 16:53	13°♎55'56	-0°18'28
	-5465 Aug 08 j 17:23	0°♏		minimum elong	-5459 May 18 j 16:54	13°♎55'57	0°18'25
evening set	-5465 Nov 08 j 09:58	17°♏01'11		max. Earth dist.	-5459 May 18 j 21:47	13°♎58'40	6.27859 AU
				morning rise	-5459 Jun 01 j 06:24	16°♎56'37	
conjunction	-5465 Nov 21 j 05:01	20°♏01'51	0°09'18		-5459 Aug 06 j 22:58	0°♎	
minimum elong	-5465 Nov 21 j 05:01	20°♏01'51	0°09'13	retrograde	-5459 Oct 01 j 17:05	4°♎37'35	
behind sun begin	-5465 Nov 20 j 22:11	19°♏57'50		asc. node	-5459 Oct 18 j 00:39	4°♎11'10	
behind sun end	-5465 Nov 21 j 11:52	20°♏05'52			-5459 Nov 27 j 17:20	30°♎	
max. Earth dist.	-5465 Nov 21 j 03:39	20°♏01'03	6.09962 AU	opposition	-5459 Nov 30 j 04:55	29°♎40'14	0°07'43
morning rise	-5465 Dec 04 j 02:35	23°♏03'56		min. Earth dist.	-5459 Nov 30 j 09:09	29°♎38'50	4.31965 AU
	-5464 Jan 03 j 17:32	0°♎		direct	-5458 Jan 30 j 11:38	24°♎36'21	
desc. node	-5464 Jan 31 j 12:52	5°♎32'16			-5458 Apr 03 j 00:52	0°♎	
retrograde	-5464 Apr 12 j 08:34	12°♎43'40		evening set	-5458 Jun 07 j 14:04	12°♎47'21	
opposition	-5464 Jun 12 j 05:45	7°♎43'50	-0°25'59		-5458 Jun 17 j 15:48	15°♎	
min. Earth dist.	-5464 Jun 11 j 20:55	7°♎46'44	4.06222 AU				
direct	-5464 Aug 10 j 06:47	2°♎50'54		conjunction	-5458 Jun 20 j 22:12	15°♎43'10	0°29'05
	-5464 Nov 12 j 04:28	15°♎		minimum elong	-5458 Jun 20 j 22:10	15°♎43'09	0°29'19
evening set	-5464 Dec 12 j 02:50	21°♎50'54		max. Earth dist.	-5458 Jun 20 j 05:17	15°♎33'52	6.35159 AU
				morning rise	-5458 Jul 04 j 02:56	18°♎37'16	
conjunction	-5464 Dec 25 j 05:38	24°♎57'37	-0°41'39		-5458 Aug 30 j 07:39	0°♎	
minimum elong	-5464 Dec 25 j 05:34	24°♎57'35	0°41'53	retrograde	-5458 Nov 01 j 17:13	5°♎48'09	
max. Earth dist.	-5464 Dec 26 j 05:49	25°♎12'00	6.03718 AU	opposition	-5458 Dec 31 j 16:13	0°♎54'14	1°12'26
morning rise	-5463 Jan 07 j 11:33	28°♎06'08		min. Earth dist.	-5457 Jan 01 j 09:19	0°♎48'40	4.37211 AU
	-5463 Jan 15 j 13:53	0°♎			-5457 Jan 07 j 15:46	30°♎	
retrograde	-5463 May 19 j 11:02	18°♎16'33		direct	-5457 Mar 03 j 20:57	25°♎51'00	
opposition	-5463 Jul 18 j 17:46	13°♎13'11	-1°34'39		-5457 Apr 27 j 15:57	0°♎	
min. Earth dist.	-5463 Jul 17 j 19:39	13°♎20'36	4.02756 AU	evening set	-5457 Jul 09 j 18:12	13°♎50'33	
direct	-5463 Sep 14 j 22:53	8°♎19'00		max. Earth dist.	-5457 Jul 21 j 07:18	16°♎22'49	6.37862 AU
evening set	-5462 Jan 17 j 10:16	27°♎31'13					
	-5462 Jan 27 j 22:28	0°♎		conjunction	-5457 Jul 22 j 16:34	16°♎41'10	1°07'21
conjunction	-5462 Jan 30 j 20:09	0°♎41'11	-1°17'49	minimum elong	-5457 Jul 22 j 16:30	16°♎41'08	1°07'38
minimum elong	-5462 Jan 30 j 20:06	0°♎41'09	1°18'08	morning rise	-5457 Aug 04 j 11:39	19°♎30'12	
max. Earth dist.	-5462 Feb 01 j 12:11	1°♎04'50	6.03200 AU		-5457 Sep 25 j 11:37	0°♎	
morning rise	-5462 Feb 13 j 09:22	3°♎52'47		retrograde	-5457 Dec 02 j 22:32	6°♎35'54	
retrograde	-5462 Jun 24 j 19:57	23°♎58'45		opposition	-5456 Feb 01 j 08:57	1°♎44'09	1°56'00
min. Earth dist.	-5462 Aug 22 j 10:19	19°♎03'15	4.05405 AU	min. Earth dist.	-5456 Feb 02 j 11:57	1°♎35'30	4.37341 AU
opposition	-5462 Aug 23 j 14:38	18°♎53'35	-2°07'47		-5456 Feb 15 j 05:04	30°♎	
direct	-5462 Oct 20 j 16:25	13°♎56'25		direct	-5456 Apr 04 j 00:17	26°♎42'49	
	-5461 Feb 09 j 20:09	0°♎			-5456 May 22 j 08:28	0°♎	
evening set	-5461 Feb 23 j 10:05	3°♎06'20		evening set	-5456 Aug 09 j 01:35	14°♎40'51	
				max. Earth dist.	-5456 Aug 19 j 23:57	17°♎06'42	6.35274 AU
conjunction	-5461 Mar 09 j 01:53	6°♎16'20	-1°24'53	conjunction	-5456 Aug 21 j 16:09	17°♎29'07	1°26'23
minimum elong	-5461 Mar 09 j 01:55	6°♎16'21	1°25'08	minimum elong	-5456 Aug 21 j 16:08	17°♎29'06	1°26'42
max. Earth dist.	-5461 Mar 10 j 20:07	6°♎40'52	6.08669 AU	morning rise	-5456 Sep 03 j 04:26	20°♎16'19	
morning rise	-5461 Mar 22 j 19:30	9°♎27'07			-5456 Oct 20 j 04:54	0°♎	
	-5461 Apr 16 j 11:52	15°♎		retrograde	-5455 Jan 03 j 00:21	7°♎41'18	
retrograde	-5461 Jul 29 j 18:55	28°♎53'53		opposition	-5455 Mar 04 j 22:09	2°♎49'45	2°07'04
min. Earth dist.	-5461 Sep 26 j 05:19	23°♎57'18	4.13112 AU	min. Earth dist.	-5455 Mar 06 j 02:06	2°♎40'52	4.32289 AU
opposition	-5461 Sep 27 j 03:55	23°♎49'35	-1°53'34		-5455 Mar 28 j 15:35	30°♎	
direct	-5461 Nov 24 j 23:34	18°♎49'03		direct	-5455 May 06 j 06:13	27°♎51'06	
	-5460 Feb 24 j 10:04	0°♎			-5455 Jun 13 j 14:57	0°♎	
evening set	-5460 Mar 30 j 21:54	7°♎42'32			-5455 Sep 04 j 23:03	15°♎	
				evening set	-5455 Sep 09 j 04:50	15°♎57'10	
conjunction	-5460 Apr 13 j 16:17	10°♎49'38	-1°01'31	max. Earth dist.	-5455 Sep 20 j 06:01	18°♎27'21	6.28112 AU
minimum elong	-5460 Apr 13 j 16:21	10°♎49'41	1°01'39				
max. Earth dist.	-5460 Apr 14 j 20:58	11°♎05'54	6.17988 AU	conjunction	-5455 Sep 21 j 16:25	18°♎46'54	1°20'39
morning rise	-5460 Apr 27 j 10:23	13°♎56'25		minimum elong	-5455 Sep 21 j 16:28	18°♎46'56	1°20'52
	-5460 Jul 22 j 08:45	0°♎		morning rise	-5455 Oct 04 j 03:03	21°♎36'24	
retrograde	-5460 Aug 30 j 21:43	2°♎27'22			-5455 Nov 12 j 04:57	0°♎	
	-5460 Oct 09 j 07:10	30°♎		retrograde	-5454 Feb 05 j 14:25	9°♎40'52	
opposition	-5460 Oct 29 j 05:42	27°♎26'07	-1°01'24	opposition	-5454 Apr 07 j 18:25	4°♎47'44	1°40'30
min. Earth dist.	-5460 Oct 28 j 18:05	27°♎30'03	4.23051 AU	min. Earth dist.	-5454 Apr 08 j 15:50	4°♎40'55	4.23426 AU

Attention, astronomical year style is used: The year -5454 in astronomical counting style is the year 5455 BCE in historical counting style.

	-5454 May 29 j 23:19	30° κ δ			-5448 Feb 03 j 18:44	0° H	
direct	-5454 Jun 08 j 05:21	29° δ 52'00		evening set	-5448 Apr 04 j 21:22	12° H 31'38	
	-5454 Jun 17 j 11:33	0° m					
evening set	-5454 Oct 10 j 23:07	18° m 13'46		conjunction	-5448 Apr 18 j 15:40	15° H 38'16	-0°56'21
				minimum elong	-5448 Apr 18 j 15:45	15° H 38'18	0°56'27
conjunction	-5454 Oct 23 j 12:52	21° m 08'31	0°50'06	max. Earth dist.	-5448 Apr 19 j 16:20	15° H 52'13	6.19121 AU
minimum elong	-5454 Oct 23 j 12:56	21° m 08'33	0°50'10	morning rise	-5448 May 02 j 09:37	18° H 44'28	
max. Earth dist.	-5454 Oct 22 j 16:02	20° m 56'25	6.18348 AU		-5448 Jun 25 j 18:25	0° Y	
morning rise	-5454 Nov 05 j 03:47	24° m 04'00		retrograde	-5448 Sep 04 j 11:24	7° Y 08'46	
	-5454 Dec 01 j 14:19	0° α		opposition	-5448 Nov 02 j 18:22	2° Y 08'00	-0°52'14
retrograde	-5453 Mar 12 j 19:50	12° α 59'58		min. Earth dist.	-5448 Nov 02 j 09:35	2° Y 10'58	4.24137 AU
opposition	-5453 May 13 j 00:05	8° α 03'35	0°40'18		-5448 Nov 19 j 02:46	30° κ H	
min. Earth dist.	-5453 May 13 j 06:17	8° α 01'34	4.13379 AU	direct	-5447 Jan 01 j 22:36	27° H 04'47	
direct	-5453 Jul 12 j 03:53	3° α 10'02			-5447 Feb 15 j 03:19	0° Y	
evening set	-5453 Nov 13 j 02:15	21° α 52'16		evening set	-5447 May 09 j 20:12	15° Y 33'29	
conjunction	-5453 Nov 25 j 22:23	24° α 53'46	0°02'08	conjunction	-5447 May 23 j 11:14	18° Y 34'43	-0°11'44
minimum elong	-5453 Nov 25 j 22:25	24° α 53'47	0°02'02	minimum elong	-5447 May 23 j 11:15	18° Y 34'44	0°11'39
behind sun begin	-5453 Nov 25 j 14:19	24° α 49'02		behind sun begin	-5447 May 23 j 05:29	18° Y 31'33	
behind sun end	-5453 Nov 26 j 06:30	24° α 58'32		behind sun end	-5447 May 23 j 17:01	18° Y 37'55	
max. Earth dist.	-5453 Nov 26 j 01:33	24° α 55'35	6.09005 AU	max. Earth dist.	-5447 May 23 j 14:29	18° Y 36'31	6.28839 AU
morning rise	-5453 Dec 08 j 20:57	27° α 56'46		morning rise	-5447 Jun 05 j 23:40	21° Y 34'35	
desc. node	-5453 Dec 11 j 23:23	28° α 40'19			-5447 Jul 16 j 04:23	0° B	
	-5453 Dec 17 j 16:37	0° m		asc. node	-5447 Aug 27 j 23:33	6° B 47'51	
	-5452 Mar 06 j 03:01	15° m		retrograde	-5447 Oct 06 j 01:54	9° B 10'45	
retrograde	-5452 Apr 17 j 11:33	17° m 41'40		opposition	-5447 Dec 04 j 15:39	4° B 13'55	0°17'32
	-5452 May 29 j 23:28	15° κ m		min. Earth dist.	-5447 Dec 04 j 20:37	4° B 12'16	4.32787 AU
opposition	-5452 Jun 17 j 06:14	12° m 41'20	-0°36'35		-5446 Jan 11 j 21:11	30° κ Y	
min. Earth dist.	-5452 Jun 16 j 20:08	12° m 44'40	4.05534 AU	direct	-5446 Feb 04 j 00:37	29° Y 10'06	
direct	-5452 Aug 15 j 04:36	7° m 48'21			-5446 Feb 27 j 11:52	0° B	
	-5452 Oct 23 j 13:32	15° m			-5446 Jun 01 j 11:16	15° B	
evening set	-5452 Dec 17 j 00:40	26° m 50'18		evening set	-5446 Jun 12 j 04:51	17° B 19'23	
conjunction	-5452 Dec 30 j 04:20	29° m 57'36	-0°47'54	conjunction	-5446 Jun 25 j 11:33	20° B 14'22	0°35'18
minimum elong	-5452 Dec 30 j 04:16	29° m 57'34	0°48'10	minimum elong	-5446 Jun 25 j 11:30	20° B 14'21	0°35'32
	-5452 Dec 30 j 08:21	0° x		max. Earth dist.	-5446 Jun 24 j 15:47	20° B 03'30	6.35781 AU
max. Earth dist.	-5452 Dec 31 j 05:43	0° x 12'41	6.03335 AU	morning rise	-5446 Jul 08 j 15:01	23° B 07'41	
morning rise	-5451 Jan 12 j 11:31	3° x 06'46			-5446 Aug 10 j 06:14	0° II	
retrograde	-5451 May 24 j 11:10	23° x 18'44		retrograde	-5446 Nov 06 j 03:24	10° II 16'18	
opposition	-5451 Jul 23 j 17:16	18° x 14'58	-1°41'47	opposition	-5445 Jan 05 j 02:58	5° II 22'48	1°20'08
min. Earth dist.	-5451 Jul 22 j 17:11	18° x 23'04	4.02744 AU	min. Earth dist.	-5445 Jan 05 j 22:05	5° II 16'35	4.37622 AU
direct	-5451 Sep 19 j 19:56	13° x 20'24		direct	-5445 Mar 08 j 10:55	0° II 19'47	
	-5450 Jan 11 j 12:16	0° B		evening set	-5445 Jul 14 j 05:02	18° II 18'01	
evening set	-5450 Jan 22 j 11:44	2° B 33'24		max. Earth dist.	-5445 Jul 25 j 16:20	20° II 49'21	6.38027 AU
conjunction	-5450 Feb 04 j 22:39	5° B 43'37	-1°20'41	conjunction	-5445 Jul 27 j 02:12	21° II 08'02	1°11'20
minimum elong	-5450 Feb 04 j 22:36	5° B 43'35	1°21'00	minimum elong	-5445 Jul 27 j 02:08	21° II 08'00	1°11'38
max. Earth dist.	-5450 Feb 06 j 16:06	6° B 08'05	6.03544 AU	morning rise	-5445 Aug 08 j 20:01	23° II 56'29	
morning rise	-5450 Feb 18 j 12:31	8° B 55'20			-5445 Sep 06 j 08:13	0° B	
retrograde	-5450 Jun 29 j 18:43	28° B 58'14		retrograde	-5445 Dec 07 j 07:52	11° B 02'31	
min. Earth dist.	-5450 Aug 27 j 07:59	24° B 02'14	4.06060 AU	opposition	-5444 Feb 05 j 21:01	6° B 10'50	1°59'36
opposition	-5450 Aug 28 j 11:00	23° B 53'01	-2°08'36	min. Earth dist.	-5444 Feb 06 j 23:21	6° B 02'25	4.37278 AU
direct	-5450 Oct 25 j 15:06	18° B 55'21		direct	-5444 Apr 08 j 11:43	1° B 09'52	
	-5449 Jan 23 j 01:42	0° \approx		evening set	-5444 Aug 13 j 09:46	19° B 07'03	
evening set	-5449 Feb 28 j 12:08	8° \approx 04'19		max. Earth dist.	-5444 Aug 24 j 08:33	21° B 33'17	6.34984 AU
conjunction	-5449 Mar 14 j 04:36	11° \approx 14'12	-1°23'17	conjunction	-5444 Aug 25 j 23:31	21° B 55'03	1°27'05
minimum elong	-5449 Mar 14 j 04:39	11° \approx 14'14	1°23'32	minimum elong	-5444 Aug 25 j 23:30	21° B 55'03	1°27'23
max. Earth dist.	-5449 Mar 15 j 22:10	11° \approx 38'16	6.09574 AU	morning rise	-5444 Sep 07 j 11:06	24° B 42'06	
morning rise	-5449 Mar 27 j 22:37	14° \approx 24'43			-5444 Oct 01 j 22:18	0° δ	
	-5449 Mar 30 j 12:11	15° \approx		retrograde	-5443 Jan 07 j 13:33	12° δ 09'46	
	-5449 Jun 14 j 22:51	0° H		opposition	-5443 Mar 09 j 12:42	7° δ 18'06	2°05'32
retrograde	-5449 Aug 03 j 11:26	3° H 45'05		min. Earth dist.	-5443 Mar 10 j 16:43	7° δ 09'13	4.31770 AU
	-5449 Sep 22 j 02:07	30° κ \approx		direct	-5443 May 10 j 19:57	2° δ 19'52	
opposition	-5449 Oct 01 j 19:50	28° \approx 41'06	-1°48'10		-5443 Aug 19 j 19:13	15° δ	
min. Earth dist.	-5449 Sep 30 j 21:48	28° \approx 48'37	4.14170 AU	evening set	-5443 Sep 13 j 12:27	20° δ 25'44	
direct	-5449 Nov 29 j 17:41	23° \approx 40'08					

Planetary Phenomena of Jupiter from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 41

Attention, astronomical year style is used: The year -5443 in astronomical counting style is the year 5444 BCE in historical counting style.

conjunction	-5443 Sep 25 j 23:52	23°♎15'44	1°17'47	max. Earth dist.	-5437 Mar 20 j 21:46	16°♊32'26	6.10293 AU
minimum elong	-5443 Sep 25 j 23:55	23°♎15'45	1°18'00	morning rise	-5437 Apr 02 j 01:05	19°♊20'11	
max. Earth dist.	-5443 Sep 24 j 13:35	22°♎56'13	6.27403 AU		-5437 May 21 j 20:20	0°♊	
morning rise	-5443 Oct 08 j 10:48	26°♎05'37		retrograde	-5437 Aug 08 j 04:20	8°♊34'57	
	-5443 Oct 25 j 23:31	0°♎		opposition	-5437 Oct 06 j 11:25	3°♊31'18	-1°42'02
retrograde	-5442 Feb 10 j 06:00	14°♎14'43		min. Earth dist.	-5437 Oct 05 j 15:06	3°♊38'14	4.15097 AU
opposition	-5442 Apr 12 j 11:35	9°♎21'11	1°33'57		-5437 Nov 04 j 06:25	30°♋	
min. Earth dist.	-5442 Apr 13 j 06:53	9°♎15'02	4.22552 AU	direct	-5437 Dec 04 j 13:21	28°♋29'57	
direct	-5442 Jun 12 j 18:54	4°♎25'45			-5436 Jan 04 j 03:50	0°♋	
evening set	-5442 Oct 15 j 08:38	22°♎48'29		evening set	-5436 Apr 09 j 20:17	17°♋19'47	
conjunction	-5442 Oct 27 j 23:06	25°♎43'55	0°44'19	conjunction	-5436 Apr 23 j 14:41	20°♋25'59	-0°50'48
minimum elong	-5442 Oct 27 j 23:10	25°♎43'57	0°44'21	minimum elong	-5436 Apr 23 j 14:45	20°♋26'02	0°50'51
max. Earth dist.	-5442 Oct 27 j 05:43	25°♎33'48	6.17405 AU	max. Earth dist.	-5436 Apr 24 j 14:37	20°♋39'31	6.20213 AU
morning rise	-5442 Nov 09 j 14:39	28°♎40'08		morning rise	-5436 May 07 j 08:05	23°♋31'32	
	-5442 Nov 15 j 09:29	0°♏			-5436 Jun 06 j 03:56	0°♋	
retrograde	-5441 Mar 17 j 17:02	17°♏41'48		retrograde	-5436 Sep 08 j 23:09	11°♋49'14	
opposition	-5441 May 17 j 20:02	12°♏44'58	0°30'20	opposition	-5436 Nov 07 j 06:33	6°♋49'00	-0°42'44
min. Earth dist.	-5441 May 18 j 01:21	12°♏43'15	4.12415 AU	min. Earth dist.	-5436 Nov 06 j 22:36	6°♋51'40	4.25281 AU
direct	-5441 Jul 16 j 20:46	7°♏51'36		direct	-5435 Jan 06 j 13:49	1°♋45'38	
desc. node	-5441 Oct 23 j 13:42	20°♏51'18		evening set	-5435 May 14 j 14:44	20°♋11'47	
evening set	-5441 Nov 17 j 16:12	26°♏35'51		conjunction	-5435 May 28 j 04:41	23°♋12'10	-0°04'57
conjunction	-5441 Nov 30 j 13:11	29°♏38'10	-0°05'00	minimum elong	-5435 May 28 j 04:41	23°♋12'09	0°04'51
minimum elong	-5441 Nov 30 j 13:10	29°♏38'09	0°05'07	behind sun begin	-5435 May 27 j 20:38	23°♋07'43	
behind sun begin	-5441 Nov 30 j 05:18	29°♏33'32		behind sun end	-5435 May 28 j 12:43	23°♋16'36	
behind sun end	-5441 Nov 30 j 21:02	29°♏42'47		max. Earth dist.	-5435 May 28 j 03:52	23°♋11'43	6.29941 AU
max. Earth dist.	-5441 Nov 30 j 17:20	29°♏40'35	6.08106 AU	morning rise	-5435 Jun 10 j 16:11	26°♋11'08	
	-5441 Dec 02 j 02:07	0°♐			-5435 Jun 28 j 06:23	0°♋	
morning rise	-5441 Dec 13 j 13:01	2°♐42'05		asc. node	-5435 Jul 07 j 14:20	1°♋57'02	
	-5440 Feb 08 j 18:25	15°♐		retrograde	-5435 Oct 10 j 11:16	13°♋42'06	
retrograde	-5440 Apr 22 j 09:45	22°♐32'04		opposition	-5435 Dec 09 j 01:42	8°♋45'43	0°27'11
opposition	-5440 Jun 22 j 03:37	17°♐31'16	-0°46'40	min. Earth dist.	-5435 Dec 09 j 09:09	8°♋43'15	4.33745 AU
min. Earth dist.	-5440 Jun 21 j 14:59	17°♐35'26	4.04793 AU	direct	-5434 Feb 08 j 15:06	3°♋41'51	
	-5440 Jul 12 j 05:58	15°♐			-5434 May 15 j 08:12	15°♋	
direct	-5440 Aug 19 j 21:31	12°♐38'11		evening set	-5434 Jun 16 j 17:57	21°♋48'46	
	-5440 Sep 27 j 01:02	15°♐		conjunction	-5434 Jun 29 j 23:28	24°♋42'56	0°41'16
	-5440 Dec 14 j 13:25	0°♑		minimum elong	-5434 Jun 29 j 23:25	24°♋42'54	0°41'30
evening set	-5440 Dec 21 j 20:18	1°♑42'47		max. Earth dist.	-5434 Jun 29 j 02:45	24°♋31'32	6.36489 AU
conjunction	-5439 Jan 04 j 01:05	4°♑50'47	-0°53'40	morning rise	-5434 Jul 13 j 01:22	27°♋35'21	
minimum elong	-5439 Jan 04 j 01:01	4°♑50'44	0°53'57		-5434 Jul 24 j 04:27	0°♒	
max. Earth dist.	-5439 Jan 05 j 05:08	5°♑07'27	6.02820 AU	retrograde	-5434 Nov 10 j 10:04	14°♒41'38	
morning rise	-5439 Jan 17 j 09:10	8°♑00'35		opposition	-5433 Jan 09 j 12:31	9°♒48'26	1°27'19
retrograde	-5439 May 29 j 11:20	28°♑14'45		min. Earth dist.	-5433 Jan 10 j 08:02	9°♒42'06	4.38028 AU
opposition	-5439 Jul 28 j 14:21	23°♑10'43	-1°48'01	direct	-5433 Mar 12 j 21:31	4°♒45'38	
min. Earth dist.	-5439 Jul 27 j 14:31	23°♑18'46	4.02523 AU	evening set	-5433 Jul 18 j 14:12	22°♒42'35	
direct	-5439 Sep 24 j 16:21	18°♑15'50		max. Earth dist.	-5433 Jul 29 j 21:58	25°♒12'08	6.38058 AU
	-5439 Dec 25 j 08:05	0°♓		conjunction	-5433 Jul 31 j 09:57	25°♒32'00	1°14'53
evening set	-5438 Jan 27 j 12:01	7°♓30'47		minimum elong	-5433 Jul 31 j 09:53	25°♒31'58	1°15'13
conjunction	-5438 Feb 09 j 23:52	10°♓41'23	-1°22'53	morning rise	-5433 Aug 13 j 02:43	28°♒19'58	
minimum elong	-5438 Feb 09 j 23:51	10°♓41'21	1°23'12		-5433 Aug 20 j 18:02	0°♔	
max. Earth dist.	-5438 Feb 11 j 18:13	11°♓06'20	6.03635 AU	retrograde	-5433 Dec 11 j 18:21	15°♔27'08	
morning rise	-5438 Feb 23 j 14:38	13°♓53'24		opposition	-5432 Feb 10 j 08:20	10°♔35'33	2°02'34
	-5438 May 14 j 22:48	0°♕		min. Earth dist.	-5432 Feb 11 j 12:22	10°♔26'36	4.36925 AU
retrograde	-5438 Jul 04 j 15:26	3°♕54'01		direct	-5432 Apr 13 j 00:14	5°♔34'52	
	-5438 Aug 24 j 11:38	30°♕		evening set	-5432 Aug 17 j 17:07	23°♔32'19	
min. Earth dist.	-5438 Sep 01 j 02:15	28°♕58'17	4.06483 AU	max. Earth dist.	-5432 Aug 28 j 14:57	25°♔58'20	6.34252 AU
opposition	-5438 Sep 02 j 05:43	28°♕48'54	-2°08'28	conjunction	-5432 Aug 30 j 06:16	26°♔20'20	1°27'19
direct	-5438 Oct 30 j 09:52	23°♕50'50		minimum elong	-5432 Aug 30 j 06:16	26°♔20'20	1°27'36
	-5437 Jan 02 j 08:15	0°♖		morning rise	-5432 Sep 11 j 17:23	29°♔07'29	
evening set	-5437 Mar 05 j 13:37	12°♖59'58			-5432 Sep 15 j 16:01	0°♗	
	-5437 Mar 14 j 05:50	15°♖			-5432 Dec 10 j 00:44	15°♗	
conjunction	-5437 Mar 19 j 06:36	16°♖09'49	-1°21'05	retrograde	-5431 Jan 12 j 01:59	16°♗39'31	
minimum elong	-5437 Mar 19 j 06:39	16°♖09'50	1°21'19		-5431 Feb 14 j 10:30	15°♗	

Attention, astronomical year style is used: The year -5431 in astronomical counting style is the year 5432 BCE in historical counting style.

opposition	-5431 Mar 14 j 03:20	11° Ω 47'39	2°03'22		-5426 Nov 30 j 06:07	0° \approx	
min. Earth dist.	-5431 Mar 15 j 06:03	11° Ω 39'10	4.30707 AU		-5425 Feb 25 j 12:31	15° \approx	
direct	-5431 May 15 j 07:22	6° Ω 49'47		evening set	-5425 Mar 10 j 16:51	17° \approx 59'23	
	-5431 Aug 01 j 13:48	15° Ω					
evening set	-5431 Sep 17 j 20:52	24° Ω 57'30		conjunction	-5425 Mar 24 j 10:24	21° \approx 08'44	-1°18'20
max. Earth dist.	-5431 Sep 29 j 00:20	27° Ω 29'44	6.26098 AU	minimum elong	-5425 Mar 24 j 10:28	21° \approx 08'46	1°18'33
				max. Earth dist.	-5425 Mar 26 j 02:09	21° \approx 31'37	6.11861 AU
conjunction	-5431 Sep 30 j 08:26	27° Ω 48'04	1°14'28	morning rise	-5425 Apr 07 j 04:49	24° \approx 18'24	
minimum elong	-5431 Sep 30 j 08:29	27° Ω 48'06	1°14'40		-5425 May 02 j 18:40	0° \mathbb{H}	
	-5431 Oct 09 j 23:37	0° \mathbb{H}		retrograde	-5425 Aug 12 j 19:58	13° \mathbb{H} 23'55	
morning rise	-5431 Oct 12 j 19:38	0° \mathbb{H} 38'39		min. Earth dist.	-5425 Oct 10 j 07:27	8° \mathbb{H} 27'12	4.16894 AU
retrograde	-5430 Feb 15 j 02:12	18° \mathbb{H} 54'39		opposition	-5425 Oct 11 j 02:44	8° \mathbb{H} 20'38	-1°35'14
opposition	-5430 Apr 17 j 07:12	14° \mathbb{H} 00'45	1°26'45	direct	-5425 Dec 09 j 08:15	3° \mathbb{H} 18'56	
min. Earth dist.	-5430 Apr 18 j 02:02	13° \mathbb{H} 54'44	4.21069 AU	evening set	-5424 Apr 14 j 17:54	22° \mathbb{H} 03'49	
direct	-5430 Jun 17 j 11:42	9° \mathbb{H} 05'38					
evening set	-5430 Oct 19 j 21:04	27° \mathbb{H} 31'26		conjunction	-5424 Apr 28 j 11:47	25° \mathbb{H} 09'03	-0°45'01
	-5430 Oct 30 j 12:31	0° $\underline{\Omega}$		minimum elong	-5424 Apr 28 j 11:51	25° \mathbb{H} 09'05	0°45'05
				max. Earth dist.	-5424 Apr 29 j 07:29	25° \mathbb{H} 20'07	6.22088 AU
conjunction	-5430 Nov 01 j 12:14	0° $\underline{\Omega}$ 27'50	0°38'07	morning rise	-5424 May 12 j 04:45	28° \mathbb{H} 13'33	
minimum elong	-5430 Nov 01 j 12:17	0° $\underline{\Omega}$ 27'51	0°38'08		-5424 May 20 j 04:37	0° \mathbb{Y}	
max. Earth dist.	-5430 Oct 31 j 20:23	0° $\underline{\Omega}$ 18'35	6.15881 AU	retrograde	-5424 Sep 13 j 07:14	16° \mathbb{Y} 22'12	
morning rise	-5430 Nov 14 j 04:56	3° $\underline{\Omega}$ 25'11		opposition	-5424 Nov 11 j 16:22	11° \mathbb{Y} 22'26	-0°33'16
retrograde	-5429 Mar 22 j 17:02	22° $\underline{\Omega}$ 34'40		min. Earth dist.	-5424 Nov 11 j 10:46	11° \mathbb{Y} 24'19	4.27051 AU
opposition	-5429 May 22 j 19:58	17° $\underline{\Omega}$ 37'16	0°19'50	direct	-5423 Jan 11 j 04:49	6° \mathbb{Y} 18'51	
min. Earth dist.	-5429 May 22 j 22:03	17° $\underline{\Omega}$ 36'36	4.10976 AU	asc. node	-5423 May 18 j 13:55	24° \mathbb{Y} 32'03	
direct	-5429 Jul 21 j 15:04	12° $\underline{\Omega}$ 44'02		evening set	-5423 May 19 j 05:00	24° \mathbb{Y} 40'19	
desc. node	-5429 Sep 02 j 09:57	15° $\underline{\Omega}$ 36'06					
	-5429 Nov 15 j 21:55	0° \mathbb{L}		conjunction	-5423 Jun 01 j 18:03	27° \mathbb{Y} 39'39	0°01'45
evening set	-5429 Nov 22 j 11:09	1° \mathbb{L} 32'02		minimum elong	-5423 Jun 01 j 18:03	27° \mathbb{Y} 39'39	0°01'53
				behind sun begin	-5423 Jun 01 j 09:48	27° \mathbb{Y} 35'06	
conjunction	-5429 Dec 05 j 09:17	4° \mathbb{L} 35'21	-0°12'14	behind sun end	-5423 Jun 02 j 02:18	27° \mathbb{Y} 44'11	
minimum elong	-5429 Dec 05 j 09:16	4° \mathbb{L} 35'21	0°12'23	max. Earth dist.	-5423 Jun 01 j 15:06	27° \mathbb{Y} 38'04	6.31473 AU
behind sun begin	-5429 Dec 05 j 03:52	4° \mathbb{L} 32'10			-5423 Jun 12 j 08:03	0° \mathbb{B}	
behind sun end	-5429 Dec 05 j 14:39	4° \mathbb{L} 38'31		morning rise	-5423 Jun 15 j 04:11	0° \mathbb{B} 37'28	
max. Earth dist.	-5429 Dec 05 j 17:38	4° \mathbb{L} 40'18	6.06893 AU		-5423 Aug 31 j 01:31	15° \mathbb{B}	
morning rise	-5429 Dec 18 j 10:12	7° \mathbb{L} 40'19		retrograde	-5423 Oct 14 j 15:29	18° \mathbb{B} 02'27	
	-5428 Jan 19 j 17:15	15° \mathbb{L}			-5423 Nov 28 j 14:07	15° \mathbb{R} \mathbb{B}	
retrograde	-5428 Apr 27 j 15:12	27° \mathbb{L} 36'17		opposition	-5423 Dec 13 j 08:03	13° \mathbb{B} 06'35	0°36'16
opposition	-5428 Jun 27 j 06:08	22° \mathbb{L} 34'57	-0°56'53	min. Earth dist.	-5423 Dec 13 j 17:16	13° \mathbb{B} 03'32	4.34919 AU
min. Earth dist.	-5428 Jun 26 j 16:14	22° \mathbb{L} 39'34	4.03940 AU	direct	-5422 Feb 13 j 00:41	8° \mathbb{B} 02'48	
direct	-5428 Aug 24 j 21:27	17° \mathbb{L} 41'45			-5422 Apr 26 j 11:54	15° \mathbb{B}	
	-5428 Nov 27 j 03:33	0° \mathbb{X}		evening set	-5422 Jun 21 j 02:33	26° \mathbb{B} 06'50	
evening set	-5428 Dec 26 j 21:50	6° \mathbb{X} 49'16		max. Earth dist.	-5422 Jul 03 j 05:06	28° \mathbb{B} 46'08	6.37187 AU
conjunction	-5427 Jan 09 j 03:41	9° \mathbb{X} 57'54	-0°59'19	conjunction	-5422 Jul 04 j 06:33	29° \mathbb{B} 00'07	0°46'45
minimum elong	-5427 Jan 09 j 03:37	9° \mathbb{X} 57'52	0°59'36	minimum elong	-5422 Jul 04 j 06:29	29° \mathbb{B} 00'05	0°47'00
max. Earth dist.	-5427 Jan 10 j 10:49	10° \mathbb{X} 16'25	6.02410 AU		-5422 Jul 08 j 19:28	0° \mathbb{I}	
morning rise	-5427 Jan 22 j 12:56	13° \mathbb{X} 08'21		morning rise	-5422 Jul 17 j 07:16	1° \mathbb{I} 51'43	
	-5427 Apr 17 j 07:49	0° \mathbb{Z}		retrograde	-5422 Nov 14 j 15:10	18° \mathbb{I} 56'21	
retrograde	-5427 Jun 03 j 14:45	3° \mathbb{Z} 23'24		opposition	-5421 Jan 13 j 18:29	14° \mathbb{I} 03'28	1°33'45
	-5427 Jul 20 j 23:49	30° \mathbb{R} \mathbb{X}		min. Earth dist.	-5421 Jan 14 j 16:49	13° \mathbb{I} 56'15	4.38220 AU
opposition	-5427 Aug 02 j 16:04	28° \mathbb{X} 19'07	-1°53'43	direct	-5421 Mar 17 j 06:12	9° \mathbb{I} 00'50	
min. Earth dist.	-5427 Aug 01 j 14:09	28° \mathbb{X} 27'52	4.02668 AU	evening set	-5421 Jul 22 j 19:20	26° \mathbb{I} 57'28	
direct	-5427 Sep 29 j 16:09	23° \mathbb{X} 23'56		max. Earth dist.	-5421 Aug 03 j 01:14	29° \mathbb{I} 26'10	6.37707 AU
	-5427 Dec 04 j 13:47	0° \mathbb{Z}					
evening set	-5426 Feb 01 j 17:00	12° \mathbb{Z} 39'04		conjunction	-5421 Aug 04 j 14:10	29° \mathbb{I} 46'35	1°17'55
				minimum elong	-5421 Aug 04 j 14:07	29° \mathbb{I} 46'34	1°18'14
conjunction	-5426 Feb 15 j 05:37	15° \mathbb{Z} 49'42	-1°24'35		-5421 Aug 05 j 14:25	0° \mathbb{D}	
minimum elong	-5426 Feb 15 j 05:36	15° \mathbb{Z} 49'41	1°24'53	morning rise	-5421 Aug 17 j 05:48	2° \mathbb{D} 34'16	
max. Earth dist.	-5426 Feb 17 j 00:19	16° \mathbb{Z} 14'48	6.04318 AU	retrograde	-5421 Dec 16 j 00:34	19° \mathbb{D} 44'10	
morning rise	-5426 Feb 28 j 21:08	19° \mathbb{Z} 01'40		opposition	-5420 Feb 14 j 16:55	14° \mathbb{D} 52'42	2°04'49
	-5426 Apr 20 j 06:24	0° \approx		min. Earth dist.	-5420 Feb 15 j 21:04	14° \mathbb{D} 43'44	4.36072 AU
retrograde	-5426 Jul 09 j 13:49	8° \approx 57'03		direct	-5420 Apr 17 j 06:52	9° \mathbb{D} 52'23	
min. Earth dist.	-5426 Sep 06 j 00:00	4° \approx 01'14	4.07648 AU	evening set	-5420 Aug 21 j 22:08	27° \mathbb{D} 51'58	
opposition	-5426 Sep 07 j 03:15	3° \approx 51'55	-2°07'23		-5420 Aug 31 j 11:01	0° Ω	
	-5426 Oct 09 j 18:31	30° \mathbb{R} \mathbb{Z}		max. Earth dist.	-5420 Sep 01 j 18:42	0° Ω 17'48	6.32946 AU
direct	-5426 Nov 04 j 10:25	28° \mathbb{Z} 53'21					

Attention, astronomical year style is used: The year -5420 in astronomical counting style is the year 5421 BCE in historical counting style.

conjunction	-5420 Sep 03 j 10:43	0°Ω40'16	1°27'03		-5414 Mar 31 j 19:01	0°≈	
minimum elong	-5420 Sep 03 j 10:44	0°Ω40'17	1°27'20	retrograde	-5414 Jul 14 j 12:37	14°≈00'20	
morning rise	-5420 Sep 15 j 21:40	3°Ω27'52		min. Earth dist.	-5414 Sep 10 j 21:51	9°≈04'23	4.09018 AU
	-5420 Nov 11 j 18:23	15°Ω		opposition	-5414 Sep 12 j 00:22	8°≈55'19	-2°05'22
retrograde	-5419 Jan 16 j 16:53	21°Ω06'35		direct	-5414 Nov 09 j 09:48	3°≈56'17	
opposition	-5419 Mar 18 j 17:34	16°Ω14'37	2°00'31		-5413 Feb 07 j 10:50	15°≈	
min. Earth dist.	-5419 Mar 19 j 20:55	16°Ω05'55	4.29020 AU	evening set	-5413 Mar 15 j 20:04	22°≈58'48	
	-5419 Mar 28 j 14:52	15°℞Ω					
direct	-5419 May 19 j 19:40	11°Ω17'07		conjunction	-5413 Mar 29 j 13:45	26°≈07'33	-1°15'01
	-5419 Jul 09 j 14:01	15°Ω		minimum elong	-5413 Mar 29 j 13:49	26°≈07'36	1°15'13
evening set	-5419 Sep 22 j 05:04	29°Ω28'54		max. Earth dist.	-5413 Mar 31 j 02:11	26°≈28'27	6.13462 AU
	-5419 Sep 24 j 11:41	0°℞		morning rise	-5413 Apr 12 j 08:23	29°≈16'32	
max. Earth dist.	-5419 Oct 03 j 10:12	2°℞02'45	6.24181 AU		-5413 Apr 15 j 13:00	0°℞	
				retrograde	-5413 Aug 17 j 09:41	18°℞13'05	
conjunction	-5419 Oct 04 j 17:01	2°℞20'25	1°10'42	opposition	-5413 Oct 15 j 17:52	13°℞10'11	-1°27'50
minimum elong	-5419 Oct 04 j 17:04	2°℞20'27	1°10'52	min. Earth dist.	-5413 Oct 15 j 00:02	13°℞16'15	4.18560 AU
morning rise	-5419 Oct 17 j 04:48	5°℞12'03		direct	-5413 Dec 14 j 03:35	8°℞08'07	
retrograde	-5418 Feb 19 j 22:21	23°℞37'14		evening set	-5412 Apr 19 j 15:23	26°℞48'50	
opposition	-5418 Apr 22 j 03:50	18°℞42'58	1°18'56				
min. Earth dist.	-5418 Apr 22 j 19:45	18°℞37'52	4.19064 AU	conjunction	-5412 May 03 j 08:58	29°℞53'13	-0°38'57
direct	-5418 Jun 22 j 02:19	13°℞48'15		minimum elong	-5412 May 03 j 09:01	29°℞53'15	0°38'59
	-5418 Oct 14 j 10:08	0°Ω			-5412 May 03 j 21:04	0°℞	
evening set	-5418 Oct 24 j 11:33	2°Ω19'04		max. Earth dist.	-5412 May 04 j 02:02	0°℞02'47	6.23710 AU
				morning rise	-5412 May 17 j 01:05	2°℞56'43	
conjunction	-5418 Nov 06 j 03:39	5°Ω16'41	0°31'34	retrograde	-5412 Sep 17 j 17:24	20°℞57'38	
minimum elong	-5418 Nov 06 j 03:41	5°Ω16'42	0°31'34	opposition	-5412 Nov 16 j 02:59	15°℞58'27	-0°23'32
max. Earth dist.	-5418 Nov 05 j 15:40	5°Ω09'40	6.13981 AU	min. Earth dist.	-5412 Nov 15 j 23:49	15°℞59'30	4.28485 AU
morning rise	-5418 Nov 18 j 21:25	8°Ω15'22		direct	-5411 Jan 15 j 20:05	10°℞54'46	
retrograde	-5417 Mar 27 j 22:44	27°Ω34'02		asc. node	-5411 Mar 23 j 11:38	17°℞52'17	
opposition	-5417 May 27 j 22:32	22°Ω36'06	0°08'58	evening set	-5411 May 28 j 20:45	29°℞12'53	
min. Earth dist.	-5417 May 27 j 22:35	22°Ω36'05	4.09336 AU		-5411 May 27 j 10:35	0°℞	
desc. node	-5417 Jul 12 j 19:59	18°Ω01'35					
direct	-5417 Jul 26 j 13:27	17°Ω43'02		conjunction	-5411 Jun 06 j 08:39	2°℞11'18	0°08'26
	-5417 Oct 29 j 13:00	0°℞		minimum elong	-5411 Jun 06 j 08:37	2°℞11'17	0°08'34
evening set	-5417 Nov 27 j 09:04	6°℞35'24		behind sun begin	-5411 Jun 06 j 01:29	2°℞07'22	
				behind sun end	-5411 Jun 06 j 15:45	2°℞15'12	
conjunction	-5417 Dec 10 j 08:21	9°℞39'46	-0°19'33	max. Earth dist.	-5411 Jun 06 j 00:59	2°℞07'05	6.32606 AU
minimum elong	-5417 Dec 10 j 08:19	9°℞39'45	0°19'45	morning rise	-5411 Jun 19 j 17:40	5°℞08'10	
max. Earth dist.	-5417 Dec 10 j 20:58	9°℞47'15	6.05665 AU		-5411 Aug 06 j 23:23	15°℞	
morning rise	-5417 Dec 23 j 10:37	12°℞45'51		retrograde	-5411 Oct 18 j 22:23	22°℞28'40	
	-5416 Jan 01 j 23:59	15°℞		opposition	-5411 Dec 17 j 16:35	17°℞33'15	0°45'22
	-5416 Mar 20 j 22:48	0°℞		min. Earth dist.	-5411 Dec 18 j 04:10	17°℞29'27	4.35699 AU
retrograde	-5416 May 02 j 21:24	2°℞47'17			-5410 Jan 07 j 03:18	15°℞℞	
	-5416 Jun 14 j 22:42	30°℞℞		direct	-5410 Feb 17 j 12:58	12°℞29'29	
opposition	-5416 Jul 02 j 11:00	27°℞45'25	-1°06'52		-5410 Mar 31 j 07:06	15°℞	
min. Earth dist.	-5416 Jul 01 j 17:51	27°℞51'07	4.03277 AU		-5410 Jun 23 j 02:50	0°℞	
direct	-5416 Aug 29 j 21:51	22°℞52'07		evening set	-5410 Jun 25 j 13:30	0°℞31'55	
	-5416 Nov 06 j 17:46	0°℞					
evening set	-5415 Jan 01 j 01:58	12°℞01'38		conjunction	-5410 Jul 08 j 16:17	3°℞24'31	0°52'08
				minimum elong	-5410 Jul 08 j 16:14	3°℞24'29	0°52'25
conjunction	-5415 Jan 14 j 08:44	15°℞10'42	-1°04'36	max. Earth dist.	-5410 Jul 07 j 13:31	3°℞09'47	6.37551 AU
minimum elong	-5415 Jan 14 j 08:40	15°℞10'40	1°04'54	morning rise	-5410 Jul 21 j 15:31	6°℞15'24	
max. Earth dist.	-5415 Jan 15 j 18:24	15°℞30'43	6.02324 AU	retrograde	-5410 Nov 18 j 22:14	23°℞19'25	
morning rise	-5415 Jan 27 j 19:00	18°℞21'35		opposition	-5409 Jan 18 j 03:51	18°℞26'51	1°39'54
	-5415 Mar 22 j 01:27	0°℞		min. Earth dist.	-5409 Jan 19 j 03:18	18°℞19'18	4.38169 AU
retrograde	-5415 Jun 08 j 18:46	8°℞35'46		direct	-5409 Mar 21 j 16:35	13°℞24'29	
opposition	-5415 Aug 07 j 18:37	3°℞31'06	-1°58'35		-5409 Jul 20 j 23:03	0°℞	
min. Earth dist.	-5415 Aug 06 j 15:37	3°℞40'16	4.03161 AU	evening set	-5409 Jul 27 j 03:47	1°℞21'15	
	-5415 Sep 05 j 20:25	30°℞℞		max. Earth dist.	-5409 Aug 07 j 05:57	3°℞48'15	6.37221 AU
direct	-5415 Oct 04 j 19:33	28°℞35'26					
	-5415 Nov 02 j 19:05	0°℞		conjunction	-5409 Aug 08 j 21:22	4°℞10'05	1°20'38
evening set	-5414 Feb 06 j 22:57	17°℞49'27		minimum elong	-5409 Aug 08 j 21:20	4°℞10'03	1°20'56
				morning rise	-5409 Aug 21 j 12:15	6°℞57'35	
conjunction	-5414 Feb 20 j 12:30	20°℞59'59	-1°25'38	retrograde	-5409 Dec 20 j 12:51	24°℞10'39	
minimum elong	-5414 Feb 20 j 12:30	20°℞59'59	1°25'56	opposition	-5408 Feb 19 j 05:43	19°℞19'13	2°06'28
max. Earth dist.	-5414 Feb 22 j 09:24	21°℞26'18	6.05311 AU	min. Earth dist.	-5408 Feb 20 j 10:59	19°℞09'53	4.35201 AU
morning rise	-5414 Mar 06 j 04:27	24°℞11'41		direct	-5408 Apr 21 j 19:42	14°℞19'13	

Attention, astronomical year style is used: The year -5408 in astronomical counting style is the year 5409 BCE in historical counting style.

	-5408 Aug 15 j 16:25	0°♌		max. Earth dist.	-5402 Feb 27 j 10:17	26°♊24'23	6.06398 AU
evening set	-5408 Aug 26 j 06:31	2°♌20'35		morning rise	-5402 Mar 11 j 07:44	29°♊10'34	
max. Earth dist.	-5408 Sep 06 j 04:23	4°♌47'33	6.31765 AU		-5402 Mar 14 j 21:15	0°♊	
					-5402 May 29 j 18:36	15°♊	
conjunction	-5408 Sep 07 j 18:52	5°♌09'13	1°26'18	retrograde	-5402 Jul 19 j 05:14	18°♊52'34	
minimum elong	-5408 Sep 07 j 18:53	5°♌09'13	1°26'35		-5402 Sep 07 j 19:54	15°♊	
morning rise	-5408 Sep 20 j 05:29	7°♌57'11		opposition	-5402 Sep 16 j 17:18	13°♊47'42	-2°02'32
	-5408 Oct 22 j 22:21	15°♌		min. Earth dist.	-5402 Sep 15 j 15:15	13°♊56'37	4.10305 AU
retrograde	-5407 Jan 21 j 08:33	25°♌41'57		direct	-5402 Nov 14 j 04:47	8°♊48'12	
opposition	-5407 Mar 23 j 11:05	20°♌49'47	1°56'52		-5401 Jan 17 j 21:31	15°♊	
min. Earth dist.	-5407 Mar 24 j 12:36	20°♌41'41	4.27627 AU	evening set	-5401 Mar 20 j 19:14	27°♊47'51	
direct	-5407 May 24 j 09:05	15°♌52'45			-5401 Mar 30 j 11:07	0°♊	
	-5407 Sep 08 j 06:38	0°♎					
evening set	-5407 Sep 26 j 16:12	4°♎07'19		conjunction	-5401 Apr 03 j 13:19	0°♋56'09	-1°11'19
max. Earth dist.	-5407 Oct 07 j 23:38	6°♎43'01	6.22712 AU	minimum elong	-5401 Apr 03 j 13:23	0°♋56'11	1°11'28
				max. Earth dist.	-5401 Apr 04 j 23:33	1°♋15'43	6.14857 AU
conjunction	-5407 Oct 09 j 04:22	6°♎59'33	1°06'25	morning rise	-5401 Apr 17 j 07:47	4°♋04'28	
minimum elong	-5407 Oct 09 j 04:26	6°♎59'35	1°06'33	retrograde	-5401 Aug 21 j 22:54	22°♋53'19	
morning rise	-5407 Oct 21 j 16:49	9°♎52'06		opposition	-5401 Oct 20 j 05:49	17°♋50'56	-1°20'07
retrograde	-5406 Feb 24 j 22:36	28°♎24'49		min. Earth dist.	-5401 Oct 19 j 14:45	17°♋56'02	4.19906 AU
opposition	-5406 Apr 27 j 02:50	23°♎30'06	1°10'27	direct	-5401 Dec 18 j 20:04	12°♋48'35	
min. Earth dist.	-5406 Apr 27 j 17:06	23°♎25'32	4.17622 AU		-5400 Apr 17 j 21:40	0°♌	
direct	-5406 Jun 26 j 21:42	18°♎35'42		evening set	-5400 Apr 24 j 10:04	1°♌26'31	
	-5406 Sep 27 j 05:11	0°♏					
evening set	-5406 Oct 29 j 03:13	7°♏09'20		conjunction	-5400 May 08 j 03:13	4°♌30'15	-0°32'48
				minimum elong	-5400 May 08 j 03:16	4°♌30'16	0°32'47
conjunction	-5406 Nov 10 j 20:16	10°♏07'54	0°24'47	max. Earth dist.	-5400 May 08 j 16:21	4°♌37'35	6.24913 AU
minimum elong	-5406 Nov 10 j 20:18	10°♏07'55	0°24'45	morning rise	-5400 May 21 j 18:45	7°♌33'00	
max. Earth dist.	-5406 Nov 10 j 12:18	10°♏03'14	6.12727 AU	retrograde	-5400 Sep 22 j 00:50	25°♌28'01	
morning rise	-5406 Nov 23 j 15:06	13°♏07'36		opposition	-5400 Nov 20 j 11:52	20°♌29'24	-0°13'54
	-5405 Feb 19 j 20:07	0°♍		min. Earth dist.	-5400 Nov 20 j 10:25	20°♌29'53	4.29459 AU
retrograde	-5405 Apr 02 j 01:10	2°♍32'44		direct	-5399 Jan 20 j 08:18	15°♌25'39	
	-5405 May 13 j 12:32	30°♋♏		asc. node	-5399 Feb 06 j 08:14	15°♌52'33	
desc. node	-5405 May 23 j 02:34	28°♏50'57			-5399 May 11 j 07:00	0°♐	
opposition	-5405 Jun 02 j 00:42	27°♏34'15	-0°01'57	evening set	-5399 May 28 j 10:48	3°♐42'05	
min. Earth dist.	-5405 Jun 01 j 21:31	27°♏35'17	4.08399 AU				
direct	-5405 Jul 31 j 10:38	22°♏41'19		conjunction	-5399 Jun 10 j 21:40	6°♐39'48	0°14'56
	-5405 Oct 09 j 21:23	0°♍		minimum elong	-5399 Jun 10 j 21:38	6°♐39'47	0°15'05
evening set	-5405 Dec 02 j 06:30	11°♍35'39		behind sun begin	-5399 Jun 10 j 19:02	6°♐38'21	
				behind sun end	-5399 Jun 11 j 00:15	6°♐41'13	
conjunction	-5405 Dec 15 j 06:41	14°♍40'40	-0°26'38	max. Earth dist.	-5399 Jun 10 j 11:14	6°♐34'03	6.33296 AU
minimum elong	-5405 Dec 15 j 06:38	14°♍40'39	0°26'50	morning rise	-5399 Jun 24 j 05:27	9°♐35'54	
max. Earth dist.	-5405 Dec 15 j 22:18	14°♍49'57	6.05117 AU		-5399 Jul 19 j 12:20	15°♐	
	-5405 Dec 16 j 15:13	15°♍		retrograde	-5399 Oct 23 j 06:23	26°♐53'42	
morning rise	-5405 Dec 28 j 10:06	17°♍47'28		opposition	-5399 Dec 22 j 01:06	21°♐58'50	0°54'05
	-5404 Feb 22 j 19:33	0°♑		min. Earth dist.	-5399 Dec 22 j 14:53	21°♐54'20	4.36070 AU
retrograde	-5404 May 08 j 00:23	7°♑51'38					
opposition	-5404 Jul 07 j 12:55	2°♑49'14	-1°16'05				
min. Earth dist.	-5404 Jul 06 j 17:50	2°♑55'36	4.03181 AU				
	-5404 Jul 30 j 03:46	30°♋♍					
direct	-5404 Sep 03 j 22:23	27°♍55'40					
	-5404 Oct 09 j 09:23	0°♑					
evening set	-5403 Jan 06 j 03:18	17°♑05'30					
conjunction	-5403 Jan 19 j 11:10	20°♑14'50	-1°09'13				
minimum elong	-5403 Jan 19 j 11:06	20°♑14'48	1°09'32				
max. Earth dist.	-5403 Jan 21 j 00:29	20°♑36'58	6.02673 AU				
morning rise	-5403 Feb 01 j 22:11	23°♑25'52					
	-5403 Mar 02 j 16:36	0°♒					
retrograde	-5403 Jun 13 j 19:44	13°♒37'28					
opposition	-5403 Aug 12 j 17:05	8°♒32'38	-2°02'19				
min. Earth dist.	-5403 Aug 11 j 14:04	8°♒41'48	4.03933 AU				
direct	-5403 Oct 09 j 18:20	3°♒36'33					
evening set	-5402 Feb 12 j 00:59	22°♒48'50					
conjunction	-5402 Feb 25 j 15:04	25°♒59'08	-1°26'01				
minimum elong	-5402 Feb 25 j 15:04	25°♒59'08	1°26'19				