

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -5400 in astronomical counting style is the year 5401 BCE in historical counting style.

	-5400 Apr 17 j 21:40	0°♈		conjunction	-5395 Oct 13 j 15:42	11°♏39'23	1°01'42
evening set	-5400 Apr 24 j 10:04	1°♈26'31		minimum elong	-5395 Oct 13 j 15:46	11°♏39'25	1°01'49
				max. Earth dist.	-5395 Oct 12 j 14:22	11°♏24'46	6.21500 AU
conjunction	-5400 May 08 j 03:13	4°♈30'15	-0°32'48	morning rise	-5395 Oct 26 j 04:39	14°♏32'41	
minimum elong	-5400 May 08 j 03:16	4°♈30'16	0°32'47		-5394 Jan 14 j 05:55	0°♏	
max. Earth dist.	-5400 May 08 j 16:21	4°♈37'35	6.24913 AU	retrograde	-5394 Mar 01 j 20:22	3°♏11'50	
morning rise	-5400 May 21 j 18:45	7°♈33'00			-5394 Apr 18 j 07:23	30°♏	
retrograde	-5400 Sep 22 j 00:50	25°♈28'01		opposition	-5394 May 02 j 00:58	28°♏16'39	1°01'28
opposition	-5400 Nov 20 j 11:52	20°♈29'24	-0°13'54	min. Earth dist.	-5394 May 02 j 12:47	28°♏12'51	4.16445 AU
min. Earth dist.	-5400 Nov 20 j 10:25	20°♈29'53	4.29459 AU	direct	-5394 Jul 01 j 15:04	23°♏22'33	
direct	-5399 Jan 20 j 08:18	15°♈25'39			-5394 Sep 07 j 08:55	0°♏	
asc. node	-5399 Feb 06 j 08:14	15°♈52'33		evening set	-5394 Nov 02 j 18:24	11°♏58'13	
	-5399 May 11 j 07:00	0°♏					
evening set	-5399 May 28 j 10:48	3°♏42'05		conjunction	-5394 Nov 15 j 12:09	14°♏57'34	0°17'52
				minimum elong	-5394 Nov 15 j 12:11	14°♏57'35	0°17'48
conjunction	-5399 Jun 10 j 21:40	6°♏39'48	0°14'56	max. Earth dist.	-5394 Nov 15 j 06:18	14°♏54'08	6.11679 AU
minimum elong	-5399 Jun 10 j 21:38	6°♏39'47	0°15'05	morning rise	-5394 Nov 28 j 08:09	17°♏58'13	
behind sun begin	-5399 Jun 10 j 19:02	6°♏38'21			-5393 Jan 23 j 13:37	0°♏	
behind sun end	-5399 Jun 11 j 00:15	6°♏41'13		desc. node	-5393 Apr 02 j 21:31	7°♏27'24	
max. Earth dist.	-5399 Jun 10 j 11:14	6°♏34'03	6.33296 AU	retrograde	-5393 Apr 07 j 02:11	7°♏29'05	
morning rise	-5399 Jun 24 j 05:27	9°♏35'54		opposition	-5393 Jun 07 j 01:14	2°♏29'59	-0°12'46
	-5399 Jul 19 j 12:20	15°♏		min. Earth dist.	-5393 Jun 06 j 19:43	2°♏31'47	4.07558 AU
retrograde	-5399 Oct 23 j 06:23	26°♏53'42			-5393 Jun 27 j 03:48	30°♏	
opposition	-5399 Dec 22 j 01:06	21°♏58'50	0°54'05	direct	-5393 Aug 05 j 07:45	27°♏37'01	
min. Earth dist.	-5399 Dec 22 j 14:53	21°♏54'20	4.36070 AU		-5393 Sep 12 j 20:49	0°♏	
direct	-5398 Feb 22 j 00:37	16°♏55'16			-5393 Nov 30 j 11:54	15°♏	
	-5398 Jun 06 j 18:13	0°♏		evening set	-5393 Dec 07 j 02:46	16°♏33'20	
evening set	-5398 Jun 30 j 00:13	4°♏57'17					
max. Earth dist.	-5398 Jul 11 j 19:58	7°♏32'59	6.37563 AU	conjunction	-5393 Dec 20 j 04:07	19°♏39'04	-0°33'29
				minimum elong	-5393 Dec 20 j 04:04	19°♏39'02	0°33'41
conjunction	-5398 Jul 13 j 01:40	7°♏49'20	0°57'11	max. Earth dist.	-5393 Dec 20 j 23:56	19°♏50'49	6.04562 AU
minimum elong	-5398 Jul 13 j 01:37	7°♏49'18	0°57'28	morning rise	-5392 Jan 02 j 08:31	22°♏46'33	
morning rise	-5398 Jul 25 j 23:45	10°♏39'43			-5392 Feb 03 j 01:54	0°♏	
retrograde	-5398 Nov 23 j 07:08	27°♏44'23		retrograde	-5392 May 13 j 03:53	12°♏53'23	
opposition	-5397 Jan 22 j 14:09	22°♏52'04	1°45'29	opposition	-5392 Jul 12 j 13:24	7°♏50'34	-1°24'41
min. Earth dist.	-5397 Jan 23 j 14:32	22°♏44'13	4.37862 AU	min. Earth dist.	-5392 Jul 11 j 17:25	7°♏57'15	4.02989 AU
direct	-5397 Mar 26 j 03:38	17°♏49'59		direct	-5392 Sep 08 j 21:03	2°♏56'44	
	-5397 Jul 04 j 09:20	0°♏		evening set	-5391 Jan 11 j 04:13	22°♏07'33	
evening set	-5397 Jul 31 j 12:40	5°♏47'32					
max. Earth dist.	-5397 Aug 11 j 15:09	8°♏14'56	6.36620 AU	conjunction	-5391 Jan 24 j 12:48	25°♏17'09	-1°13'20
				minimum elong	-5391 Jan 24 j 12:45	25°♏17'07	1°13'38
conjunction	-5397 Aug 13 j 05:24	8°♏36'11	1°22'52	max. Earth dist.	-5391 Jan 26 j 02:15	25°♏39'19	6.02825 AU
minimum elong	-5397 Aug 13 j 05:22	8°♏36'09	1°23'10	morning rise	-5391 Feb 07 j 00:52	28°♏28'28	
morning rise	-5397 Aug 25 j 19:16	11°♏23'32			-5391 Feb 13 j 13:27	0°♏	
retrograde	-5397 Dec 25 j 00:38	28°♏40'02		retrograde	-5391 Jun 18 j 17:36	18°♏38'09	
opposition	-5396 Feb 23 j 19:33	23°♏48'38	2°07'20	min. Earth dist.	-5391 Aug 16 j 10:36	13°♏42'36	4.04437 AU
min. Earth dist.	-5396 Feb 25 j 00:14	23°♏39'31	4.34355 AU	opposition	-5391 Aug 17 j 14:29	13°♏33'07	-2°05'13
direct	-5396 Apr 26 j 07:55	18°♏49'06		direct	-5391 Oct 14 j 15:28	8°♏36'32	
	-5396 Jul 29 j 18:07	0°♏		evening set	-5390 Feb 17 j 03:16	27°♏48'17	
evening set	-5396 Aug 30 j 15:24	6°♏51'46			-5390 Feb 26 j 13:48	0°♏	
max. Earth dist.	-5396 Sep 10 j 12:48	9°♏18'55	6.30731 AU				
				conjunction	-5390 Mar 02 j 18:13	0°♏58'33	-1°25'47
conjunction	-5396 Sep 12 j 03:15	9°♏40'38	1°25'00	minimum elong	-5390 Mar 02 j 18:14	0°♏58'34	1°26'05
minimum elong	-5396 Sep 12 j 03:17	9°♏40'39	1°25'16	max. Earth dist.	-5390 Mar 04 j 13:21	1°♏23'42	6.07205 AU
morning rise	-5396 Sep 24 j 13:56	12°♏29'01		morning rise	-5390 Mar 16 j 11:14	4°♏09'46	
	-5396 Oct 05 j 21:15	15°♏			-5390 May 05 j 15:59	15°♏	
	-5395 Jan 11 j 17:11	0°♏		retrograde	-5390 Jul 24 j 00:35	23°♏45'59	
retrograde	-5395 Jan 26 j 02:46	0°♏19'20		min. Earth dist.	-5390 Sep 20 j 10:36	18°♏49'30	4.11309 AU
	-5395 Feb 09 j 12:07	30°♏		opposition	-5390 Sep 21 j 10:32	18°♏41'19	-1°58'52
opposition	-5395 Mar 28 j 05:27	25°♏26'51	1°52'25		-5390 Oct 22 j 00:07	15°♏	
min. Earth dist.	-5395 Mar 29 j 05:50	25°♏19'06	4.26449 AU	direct	-5390 Nov 19 j 01:49	13°♏41'19	
direct	-5395 May 29 j 00:43	20°♏30'10			-5390 Dec 17 j 09:18	15°♏	
	-5395 Aug 21 j 12:49	0°♏			-5389 Mar 14 j 00:26	0°♏	
evening set	-5395 Oct 01 j 03:00	8°♏46'27		evening set	-5389 Mar 25 j 19:32	2°♏39'03	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 2

Attention, astronomical year style is used: The year -5389 in astronomical counting style is the year 5390 BCE in historical counting style.

conjunction	-5389 Apr 08 j 13:51	5° H 46'59	-1°07'04	minimum elong	-5384 Sep 16 j 11:23	14° Ω 10'04	1°23'27
minimum elong	-5389 Apr 08 j 13:56	5° H 47'02	1°07'14		-5384 Sep 20 j 03:36	15° Ω	
max. Earth dist.	-5389 Apr 09 j 21:46	6° H 05'10	6.15976 AU	morning rise	-5384 Sep 28 j 21:45	16° Ω 58'37	
morning rise	-5389 Apr 22 j 08:20	8° H 54'49			-5384 Dec 03 j 08:04	0° H	
retrograde	-5389 Aug 26 j 11:26	27° H 36'42		retrograde	-5383 Jan 30 j 18:35	4° H 53'10	
opposition	-5389 Oct 24 j 19:02	22° H 34'46	-1°11'49	opposition	-5383 Apr 01 j 22:31	0° H 00'27	1°47'17
min. Earth dist.	-5389 Oct 24 j 04:58	22° H 39'32	4.21027 AU		-5383 Apr 01 j 23:55	30° R Ω	
direct	-5389 Dec 23 j 12:19	17° H 32'07		min. Earth dist.	-5383 Apr 02 j 21:47	29° Ω 53'03	4.25650 AU
	-5388 Mar 31 j 19:48	0° Y		direct	-5383 Jun 02 j 14:49	25° Ω 04'12	
evening set	-5388 Apr 29 j 06:21	6° Y 07'52			-5383 Jul 31 j 07:32	0° H	
				evening set	-5383 Oct 05 j 12:30	13° H 21'07	
conjunction	-5388 May 12 j 22:55	9° Y 10'56	-0°26'19	max. Earth dist.	-5383 Oct 17 j 00:54	16° H 00'23	6.20613 AU
minimum elong	-5388 May 12 j 22:57	9° Y 10'57	0°26'17				
max. Earth dist.	-5388 May 13 j 08:16	9° Y 16'09	6.25966 AU	conjunction	-5383 Oct 18 j 01:27	16° H 14'34	0°56'40
morning rise	-5388 May 26 j 13:42	12° Y 12'56		minimum elong	-5383 Oct 18 j 01:30	16° H 14'36	0°56'46
	-5388 Sep 21 j 11:57	0° B		morning rise	-5383 Oct 30 j 15:12	19° H 08'35	
retrograde	-5388 Sep 26 j 12:27	0° B 02'30			-5383 Dec 20 j 16:37	0° Ω	
	-5388 Oct 01 j 12:33	30° R Y		retrograde	-5382 Mar 06 j 15:56	7° Ω 53'15	
opposition	-5388 Nov 24 j 22:49	25° Y 04'27	-0°03'59	opposition	-5382 May 06 j 20:53	2° Ω 57'33	0°52'15
min. Earth dist.	-5388 Nov 25 j 00:13	25° Y 03'59	4.30354 AU	min. Earth dist.	-5382 May 07 j 06:35	2° Ω 54'26	4.15508 AU
asc. node	-5388 Dec 17 j 05:25	22° Y 16'53			-5382 May 31 j 15:12	30° R H	
direct	-5387 Jan 25 j 00:06	20° Y 00'39		direct	-5382 Jul 06 j 07:10	28° H 03'40	
	-5387 Apr 23 j 11:37	0° B			-5382 Aug 10 j 12:35	0° Ω	
evening set	-5387 Jun 02 j 02:46	8° B 15'25		evening set	-5382 Nov 07 j 07:12	16° Ω 40'54	
conjunction	-5387 Jun 15 j 12:32	11° B 12'23	0°21'30	conjunction	-5382 Nov 20 j 02:00	19° Ω 41'03	0°10'58
minimum elong	-5387 Jun 15 j 12:30	11° B 12'22	0°21'40	minimum elong	-5382 Nov 20 j 02:00	19° Ω 41'03	0°10'53
max. Earth dist.	-5387 Jun 14 j 23:46	11° B 05'21	6.33975 AU	behind sun begin	-5382 Nov 19 j 19:50	19° Ω 37'26	
morning rise	-5387 Jun 28 j 19:01	14° B 07'41		behind sun end	-5382 Nov 20 j 08:11	19° Ω 44'40	
	-5387 Jul 02 j 18:45	15° B		max. Earth dist.	-5382 Nov 19 j 24:00	19° Ω 39'53	6.10793 AU
	-5387 Sep 28 j 01:42	0° II		morning rise	-5382 Dec 02 j 22:54	22° Ω 42'32	
retrograde	-5387 Oct 27 j 14:37	1° II 22'41			-5381 Jan 04 j 07:03	0° M	
	-5387 Nov 26 j 04:20	30° R B		desc. node	-5381 Feb 12 j 16:55	7° M 23'49	
opposition	-5387 Dec 26 j 11:29	26° B 28'15	1°02'41	retrograde	-5381 Apr 12 j 01:48	12° M 18'40	
min. Earth dist.	-5387 Dec 27 j 01:59	26° B 23'30	4.36533 AU	opposition	-5381 Jun 11 j 22:56	7° M 19'07	-0°23'16
direct	-5386 Feb 26 j 12:47	21° B 24'50		min. Earth dist.	-5381 Jun 11 j 16:19	7° M 21'18	4.06799 AU
	-5386 May 19 j 09:40	0° II		direct	-5381 Aug 10 j 02:25	2° M 26'12	
evening set	-5386 Jul 04 j 12:25	9° II 25'54			-5381 Nov 13 j 22:14	15° M	
max. Earth dist.	-5386 Jul 16 j 06:08	12° II 00'33	6.37786 AU	evening set	-5381 Dec 11 j 21:04	21° M 24'43	
conjunction	-5386 Jul 17 j 12:30	12° II 17'17	1°02'00	conjunction	-5381 Dec 24 j 23:15	24° M 31'06	-0°39'55
minimum elong	-5386 Jul 17 j 12:26	12° II 17'15	1°02'17	minimum elong	-5381 Dec 24 j 23:12	24° M 31'04	0°40'09
morning rise	-5386 Jul 30 j 09:13	15° II 07'01		max. Earth dist.	-5381 Dec 25 j 19:44	24° M 43'16	6.03983 AU
	-5386 Oct 20 j 20:11	0° B		morning rise	-5380 Jan 07 j 04:55	27° M 39'21	
retrograde	-5386 Nov 27 j 17:37	2° B 11'34			-5380 Jan 17 j 05:18	0° J	
	-5385 Jan 04 j 23:13	30° R II		retrograde	-5380 May 18 j 02:20	17° J 49'05	
opposition	-5385 Jan 27 j 02:02	27° II 19'33	1°50'32	opposition	-5380 Jul 17 j 10:45	12° J 45'54	-1°32'30
min. Earth dist.	-5385 Jan 28 j 03:23	27° II 11'25	4.37856 AU	min. Earth dist.	-5380 Jul 16 j 12:57	12° J 53'13	4.02674 AU
direct	-5385 Mar 30 j 16:56	22° II 17'51		direct	-5380 Sep 13 j 15:36	7° J 51'47	
	-5385 Jun 15 j 15:19	0° B		evening set	-5379 Jan 16 j 03:13	27° J 04'36	
evening set	-5385 Aug 04 j 22:01	10° B 14'45			-5379 Jan 28 j 12:10	0° B	
max. Earth dist.	-5385 Aug 15 j 22:25	12° B 41'14	6.36368 AU				
				conjunction	-5379 Jan 29 j 12:57	0° B 14'40	-1°16'49
conjunction	-5385 Aug 17 j 13:41	13° B 03'04	1°24'39	minimum elong	-5379 Jan 29 j 12:54	0° B 14'38	1°17'06
minimum elong	-5385 Aug 17 j 13:39	13° B 03'03	1°24'58	max. Earth dist.	-5379 Jan 31 j 04:12	0° B 37'54	6.02804 AU
morning rise	-5385 Aug 30 j 02:49	15° B 50'11		morning rise	-5379 Feb 12 j 01:45	3° B 26'20	
	-5385 Nov 13 j 11:23	0° Ω		retrograde	-5379 Jun 23 j 16:19	23° B 34'57	
retrograde	-5385 Dec 29 j 13:16	3° Ω 09'02		min. Earth dist.	-5379 Aug 21 j 07:18	18° B 39'01	4.04720 AU
	-5384 Feb 14 j 15:57	30° R B		opposition	-5379 Aug 22 j 10:08	18° B 29'52	-2°07'08
opposition	-5384 Feb 28 j 09:49	28° B 17'34	2°07'27	direct	-5379 Oct 19 j 12:06	13° B 32'52	
min. Earth dist.	-5384 Feb 29 j 13:50	28° B 08'40	4.33885 AU		-5378 Feb 10 j 04:38	0° \approx	
direct	-5384 Apr 30 j 20:49	23° B 18'24		evening set	-5378 Feb 22 j 04:22	2° \approx 45'06	
	-5384 Jul 10 j 08:47	0° Ω					
evening set	-5384 Sep 03 j 23:40	11° Ω 21'02		conjunction	-5378 Mar 07 j 20:04	5° \approx 55'29	-1°24'55
max. Earth dist.	-5384 Sep 14 j 23:34	13° Ω 49'48	6.30085 AU	minimum elong	-5378 Mar 07 j 20:06	5° \approx 55'30	1°25'10
				max. Earth dist.	-5378 Mar 09 j 14:47	6° \approx 20'20	6.07772 AU
conjunction	-5384 Sep 16 j 11:21	14° Ω 10'02	1°23'13	morning rise	-5378 Mar 21 j 13:43	9° \approx 06'42	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 3

Attention, astronomical year style is used: The year -5378 in astronomical counting style is the year 5379 BCE in historical counting style.

	-5378 Apr 16 j 18:17	15°♊		retrograde	-5372 Jan 03 j 02:06	7°♊36'35	
retrograde	-5378 Jul 28 j 17:47	28°♊38'00		opposition	-5372 Mar 03 j 23:34	2°♊45'03	2°06'53
min. Earth dist.	-5378 Sep 25 j 02:59	23°♊41'47	4.12113 AU	min. Earth dist.	-5372 Mar 05 j 04:11	2°♊35'58	4.33051 AU
opposition	-5378 Sep 26 j 02:52	23°♊33'38	-1°54'23		-5372 Mar 26 j 22:54	30°♋♌	
direct	-5378 Nov 23 j 19:42	18°♊33'15		direct	-5372 May 05 j 09:35	27°♌46'15	
	-5377 Feb 24 j 10:23	0°♋			-5372 Jun 13 j 12:38	0°♌	
evening set	-5377 Mar 30 j 19:24	7°♋29'49			-5372 Sep 04 j 14:15	15°♌	
				evening set	-5372 Sep 08 j 07:28	15°♌50'02	
conjunction	-5377 Apr 13 j 13:50	10°♋37'25	-1°02'22	max. Earth dist.	-5372 Sep 19 j 06:44	18°♌18'53	6.28951 AU
minimum elong	-5377 Apr 13 j 13:54	10°♋37'27	1°02'30				
max. Earth dist.	-5377 Apr 14 j 18:39	10°♋53'48	6.16972 AU	conjunction	-5372 Sep 20 j 18:56	18°♌39'26	1°20'58
morning rise	-5377 Apr 27 j 08:16	13°♋44'46		minimum elong	-5372 Sep 20 j 18:58	18°♌39'27	1°21'11
	-5377 Jul 23 j 13:03	0°♍		morning rise	-5372 Oct 03 j 05:37	21°♌28'34	
retrograde	-5377 Aug 31 j 01:49	2°♍20'13			-5372 Nov 12 j 01:27	0°♎	
	-5377 Oct 08 j 08:16	30°♋♌		retrograde	-5371 Feb 04 j 11:48	9°♎29'18	
opposition	-5377 Oct 29 j 08:09	27°♋18'44	-1°03'02	opposition	-5371 Apr 06 j 16:41	4°♎36'11	1°41'31
min. Earth dist.	-5377 Oct 28 j 20:31	27°♋22'41	4.22101 AU	min. Earth dist.	-5371 Apr 07 j 14:07	4°♎29'22	4.24276 AU
direct	-5377 Dec 28 j 06:32	22°♋15'49			-5371 May 23 j 16:11	30°♋♌	
	-5376 Mar 12 j 10:40	0°♍		direct	-5371 Jun 07 j 04:54	29°♌40'15	
evening set	-5376 May 04 j 02:10	10°♍49'17			-5371 Jun 21 j 18:34	0°♎	
				evening set	-5371 Oct 09 j 23:20	17°♎59'47	
conjunction	-5376 May 17 j 18:16	13°♍51'41	-0°19'40	conjunction	-5371 Oct 22 j 13:00	20°♎54'08	0°51'13
minimum elong	-5376 May 17 j 18:17	13°♍51'43	0°19'37	minimum elong	-5371 Oct 22 j 13:04	20°♎54'10	0°51'17
max. Earth dist.	-5376 May 18 j 02:15	13°♍56'08	6.27055 AU	max. Earth dist.	-5371 Oct 21 j 16:03	20°♎41'59	6.19134 AU
morning rise	-5376 May 31 j 08:04	16°♍52'51		morning rise	-5371 Nov 04 j 03:24	23°♎49'06	
	-5376 Aug 06 j 06:59	0°♌			-5371 Dec 01 j 18:47	0°♏	
retrograde	-5376 Sep 30 j 21:11	4°♌36'43		retrograde	-5370 Mar 11 j 15:57	12°♏41'28	
asc. node	-5376 Oct 27 j 05:21	3°♌29'16		opposition	-5370 May 11 j 19:45	7°♏45'19	0°42'28
	-5376 Nov 26 j 18:36	30°♋♍		min. Earth dist.	-5370 May 12 j 04:08	7°♏42'37	4.14021 AU
opposition	-5376 Nov 29 j 09:23	29°♍39'09	0°05'56	direct	-5370 Jul 11 j 02:08	2°♏51'40	
min. Earth dist.	-5376 Nov 29 j 11:25	29°♍38'28	4.31365 AU	evening set	-5370 Nov 12 j 00:03	21°♏32'26	
direct	-5375 Jan 29 j 13:17	24°♍35'17					
	-5375 Apr 02 j 05:21	0°♌		conjunction	-5370 Nov 24 j 19:40	24°♏33'34	0°03'48
evening set	-5375 Jun 06 j 17:36	12°♌47'36		minimum elong	-5370 Nov 24 j 19:42	24°♏33'35	0°03'42
	-5375 Jun 16 j 18:45	15°♌		behind sun begin	-5370 Nov 24 j 11:41	24°♏28'53	
max. Earth dist.	-5375 Jun 19 j 10:06	15°♌34'55	6.34812 AU	behind sun end	-5370 Nov 25 j 03:42	24°♏38'17	
				max. Earth dist.	-5370 Nov 24 j 19:24	24°♏33'25	6.09435 AU
conjunction	-5375 Jun 20 j 01:59	15°♌43'40	0°27'54	morning rise	-5370 Dec 07 j 17:58	27°♏36'14	
minimum elong	-5375 Jun 20 j 01:56	15°♌43'39	0°28'07		-5370 Dec 18 j 01:18	0°♐	
morning rise	-5375 Jul 03 j 07:14	18°♌38'05		desc. node	-5370 Dec 23 j 17:09	1°♐17'41	
	-5375 Aug 29 j 09:18	0°♐			-5369 Mar 09 j 01:33	15°♐	
retrograde	-5375 Oct 31 j 23:49	5°♐49'51		retrograde	-5369 Apr 17 j 04:42	17°♐19'12	
opposition	-5375 Dec 30 j 21:22	0°♐55'45	1°10'51		-5369 May 26 j 11:03	15°♋♐	
min. Earth dist.	-5375 Dec 31 j 14:14	0°♐50'16	4.37118 AU	opposition	-5369 Jun 17 j 00:53	12°♐19'07	-0°34'01
	-5374 Jan 07 j 01:26	30°♋♌		min. Earth dist.	-5369 Jun 16 j 15:03	12°♐22'21	4.05711 AU
direct	-5374 Mar 03 j 02:18	25°♌52'27		direct	-5369 Aug 14 j 23:25	7°♐26'09	
	-5374 Apr 26 j 16:02	0°♐			-5369 Oct 25 j 09:18	15°♐	
evening set	-5374 Jul 08 j 22:42	13°♐51'45		evening set	-5369 Dec 16 j 20:32	26°♐28'03	
conjunction	-5374 Jul 21 j 21:32	16°♐42'29	1°06'26	conjunction	-5369 Dec 29 j 23:58	29°♐35'15	-0°46'21
minimum elong	-5374 Jul 21 j 21:28	16°♐42'27	1°06'43	minimum elong	-5369 Dec 29 j 23:55	29°♐35'13	0°46'37
max. Earth dist.	-5374 Jul 20 j 13:41	16°♐24'56	6.38027 AU	max. Earth dist.	-5369 Dec 31 j 00:43	29°♐49'58	6.03268 AU
morning rise	-5374 Aug 03 j 16:56	19°♐31'34			-5369 Dec 31 j 17:34	0°♑	
	-5374 Sep 24 j 15:00	0°♌		morning rise	-5368 Jan 12 j 06:38	2°♑44'17	
retrograde	-5374 Dec 02 j 01:42	6°♌36'07		retrograde	-5368 May 23 j 07:59	22°♑57'03	
opposition	-5373 Jan 31 j 12:41	1°♌44'12	1°54'56	opposition	-5368 Jul 22 j 13:21	17°♑53'30	-1°39'58
min. Earth dist.	-5373 Feb 01 j 14:06	1°♌36'03	4.37744 AU	min. Earth dist.	-5368 Jul 21 j 14:50	18°♑01'04	4.02440 AU
	-5373 Feb 14 j 09:01	30°♋♐		direct	-5368 Sep 18 j 16:59	12°♑59'08	
direct	-5373 Apr 04 j 03:15	26°♐42'44			-5367 Jan 11 j 19:15	0°♒	
	-5373 May 22 j 13:34	0°♌		evening set	-5367 Jan 21 j 07:40	2°♒13'22	
evening set	-5373 Aug 09 j 05:51	14°♌39'21					
max. Earth dist.	-5373 Aug 20 j 05:35	17°♌05'42	6.35889 AU	conjunction	-5367 Feb 03 j 18:17	5°♒23'42	-1°19'52
				minimum elong	-5367 Feb 03 j 18:15	5°♒23'40	1°20'11
conjunction	-5373 Aug 21 j 20:37	17°♌27'27	1°25'58	max. Earth dist.	-5367 Feb 05 j 11:35	5°♒48'05	6.03075 AU
minimum elong	-5373 Aug 21 j 20:35	17°♌27'26	1°26'16	morning rise	-5367 Feb 17 j 08:02	8°♒35'35	
morning rise	-5373 Sep 03 j 08:58	20°♌14'27		retrograde	-5367 Jun 28 j 16:38	28°♒41'04	
	-5373 Oct 20 j 15:45	0°♌					

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 4

Attention, astronomical year style is used: The year -5367 in astronomical counting style is the year 5368 BCE in historical counting style.

min. Earth dist.	-5367 Aug 26 j 05:13	23° Z 45'36	4.05528 AU	opposition	-5361 Feb 04 j 20:00	5° Z 59'49	1°58'34
opposition	-5367 Aug 27 j 09:26	23° Z 35'59	-2°08'12	min. Earth dist.	-5361 Feb 05 j 23:54	5° Z 50'53	4.37312 AU
direct	-5367 Oct 24 j 11:37	18° Z 38'36		direct	-5361 Apr 08 j 11:44	0° Z 58'38	
	-5366 Jan 23 j 05:17	0° \approx		evening set	-5361 Aug 13 j 10:06	18° Z 56'17	
evening set	-5366 Feb 27 j 09:12	7° \approx 49'04		max. Earth dist.	-5361 Aug 24 j 07:57	21° Z 21'58	6.34933 AU
conjunction	-5366 Mar 13 j 01:24	10° \approx 59'07	-1°23'27	conjunction	-5361 Aug 26 j 00:15	21° Z 44'28	1°26'46
minimum elong	-5366 Mar 13 j 01:26	10° \approx 59'08	1°23'42	minimum elong	-5361 Aug 26 j 00:14	21° Z 44'28	1°27'03
max. Earth dist.	-5366 Mar 14 j 18:57	11° \approx 23'12	6.09052 AU	morning rise	-5361 Sep 07 j 12:06	24° Z 31'39	
morning rise	-5366 Mar 26 j 19:25	14° \approx 09'52			-5361 Oct 02 j 19:26	0° Ω	
	-5366 Mar 30 j 10:52	15° \approx		retrograde	-5360 Jan 07 j 12:04	11° Ω 59'04	
	-5366 Jun 15 j 09:56	0° X		opposition	-5360 Mar 08 j 11:06	7° Ω 07'25	2°05'40
retrograde	-5366 Aug 02 j 12:13	3° X 33'05		min. Earth dist.	-5360 Mar 09 j 15:01	6° Ω 58'33	4.31642 AU
	-5366 Sep 19 j 13:53	30° R \approx		direct	-5360 May 09 j 17:30	2° Ω 09'00	
opposition	-5366 Sep 30 j 20:40	28° \approx 28'58	-1°49'04		-5360 Aug 19 j 14:55	15° Ω	
min. Earth dist.	-5366 Sep 29 j 22:16	28° \approx 36'37	4.13726 AU	evening set	-5360 Sep 12 j 13:53	20° Ω 16'12	
direct	-5366 Nov 28 j 18:26	23° \approx 28'10		max. Earth dist.	-5360 Sep 23 j 14:58	22° Ω 46'41	6.27207 AU
	-5365 Feb 03 j 20:39	0° X					
evening set	-5365 Apr 04 j 19:28	12° X 20'21		conjunction	-5360 Sep 25 j 01:27	23° Ω 06'20	1°18'16
conjunction	-5365 Apr 18 j 13:58	15° X 27'09	-0°57'18	minimum elong	-5360 Sep 25 j 01:30	23° Ω 06'21	1°18'28
minimum elong	-5365 Apr 18 j 14:02	15° X 27'12	0°57'23	morning rise	-5360 Oct 07 j 12:21	25° Ω 56'18	
max. Earth dist.	-5365 Apr 19 j 18:03	15° X 43'04	6.18804 AU		-5360 Oct 25 j 18:01	0° P	
morning rise	-5365 May 02 j 07:52	18° X 33'31		retrograde	-5359 Feb 09 j 06:50	14° P 05'30	
	-5365 Jun 26 j 16:14	0° Y		opposition	-5359 Apr 11 j 10:36	9° P 12'07	1°35'12
retrograde	-5365 Sep 04 j 12:33	6° Y 59'30		min. Earth dist.	-5359 Apr 12 j 07:45	9° P 05'23	4.22299 AU
opposition	-5365 Nov 02 j 20:00	1° Y 58'33	-0°54'00	direct	-5359 Jun 11 j 19:32	4° P 16'33	
min. Earth dist.	-5365 Nov 02 j 09:23	2° Y 02'08	4.23967 AU	evening set	-5359 Oct 14 j 11:05	22° P 41'02	
	-5365 Nov 17 j 21:32	30° R X		max. Earth dist.	-5359 Oct 26 j 06:02	25° P 25'16	6.17108 AU
direct	-5364 Jan 01 j 22:08	26° X 55'27		conjunction	-5359 Oct 27 j 01:27	25° P 36'34	0°45'25
	-5364 Feb 16 j 09:14	0° Y		minimum elong	-5359 Oct 27 j 01:30	25° P 36'35	0°45'28
evening set	-5364 May 08 j 19:19	15° Y 23'53		morning rise	-5359 Nov 08 j 17:02	28° P 32'53	
					-5359 Nov 15 j 00:22	0° $\underline{\Omega}$	
conjunction	-5364 May 22 j 10:21	18° Y 25'10	-0°13'06	retrograde	-5358 Mar 16 j 16:41	17° $\underline{\Omega}$ 34'55	
minimum elong	-5364 May 22 j 10:22	18° Y 25'10	0°13'02	opposition	-5358 May 16 j 20:04	12° $\underline{\Omega}$ 38'13	0°32'16
behind sun begin	-5364 May 22 j 05:33	18° Y 22'30		min. Earth dist.	-5358 May 17 j 00:54	12° $\underline{\Omega}$ 36'39	4.12114 AU
behind sun end	-5364 May 22 j 15:11	18° Y 27'50		direct	-5358 Jul 15 j 20:20	7° $\underline{\Omega}$ 44'48	
max. Earth dist.	-5364 May 22 j 13:35	18° Y 26'57	6.28798 AU	desc. node	-5358 Nov 02 j 00:59	23° $\underline{\Omega}$ 05'09	
morning rise	-5364 Jun 04 j 23:13	21° Y 25'10		evening set	-5358 Nov 16 j 19:14	26° $\underline{\Omega}$ 30'39	
	-5364 Jul 15 j 23:37	0° B					
asc. node	-5364 Sep 07 j 15:59	7° B 49'26		conjunction	-5358 Nov 29 j 16:06	29° $\underline{\Omega}$ 33'01	-0°03'39
retrograde	-5364 Oct 05 j 03:44	9° B 01'47		minimum elong	-5358 Nov 29 j 16:06	29° $\underline{\Omega}$ 33'01	0°03'46
opposition	-5364 Dec 03 j 16:57	4° B 04'43	0°15'25	behind sun begin	-5358 Nov 29 j 08:06	29° $\underline{\Omega}$ 28'18	
min. Earth dist.	-5364 Dec 03 j 22:04	4° B 03'01	4.32841 AU	behind sun end	-5358 Nov 30 j 00:07	29° $\underline{\Omega}$ 37'44	
	-5363 Jan 08 j 19:24	30° R Y		max. Earth dist.	-5358 Nov 29 j 20:59	29° $\underline{\Omega}$ 35'52	6.07832 AU
direct	-5363 Feb 03 j 02:01	29° Y 00'48			-5358 Dec 01 j 13:42	0° M	
	-5363 Feb 28 j 15:28	0° B		morning rise	-5358 Dec 12 j 15:33	2° M 36'55	
	-5363 Jun 01 j 05:06	15° B			-5357 Feb 08 j 07:02	15° M	
evening set	-5363 Jun 11 j 04:01	17° B 09'22		retrograde	-5357 Apr 22 j 12:37	22° M 27'25	
				opposition	-5357 Jun 22 j 05:27	17° M 26'43	-0°44'43
conjunction	-5363 Jun 24 j 11:14	20° B 04'29	0°33'54	min. Earth dist.	-5357 Jun 21 j 17:43	17° M 30'35	4.04569 AU
minimum elong	-5363 Jun 24 j 11:12	20° B 04'27	0°34'07		-5357 Jul 11 j 15:54	15° R M	
max. Earth dist.	-5363 Jun 23 j 17:17	19° B 54'37	6.35893 AU	direct	-5357 Aug 20 j 00:47	12° M 33'41	
morning rise	-5363 Jul 07 j 14:55	22° B 57'52			-5357 Sep 27 j 18:37	15° M	
	-5363 Aug 10 j 02:32	0° II		evening set	-5357 Dec 14 j 23:06	0° Z	
retrograde	-5363 Nov 05 j 02:42	10° II 06'12			-5357 Dec 21 j 23:14	1° Z 38'56	
opposition	-5362 Jan 04 j 02:58	5° II 12'31	1°18'17	conjunction	-5356 Jan 04 j 03:43	4° Z 46'53	-0°52'32
min. Earth dist.	-5362 Jan 04 j 21:01	5° II 06'39	4.37747 AU	minimum elong	-5356 Jan 04 j 03:40	4° Z 46'50	0°52'48
direct	-5362 Mar 07 j 09:14	0° II 09'23		max. Earth dist.	-5356 Jan 05 j 08:08	5° Z 03'46	6.02675 AU
evening set	-5362 Jul 13 j 04:42	18° II 07'15		morning rise	-5356 Jan 17 j 11:38	7° Z 56'39	
max. Earth dist.	-5362 Jul 24 j 15:03	20° II 38'01	6.38127 AU	retrograde	-5356 May 28 j 13:07	28° Z 10'57	
				opposition	-5356 Jul 27 j 17:17	23° Z 06'58	-1°46'43
conjunction	-5362 Jul 26 j 02:08	20° II 57'22	1°10'18	min. Earth dist.	-5356 Jul 26 j 16:09	23° Z 15'26	4.02486 AU
minimum elong	-5362 Jul 26 j 02:05	20° II 57'20	1°10'36	direct	-5356 Sep 23 j 18:30	18° Z 12'14	
morning rise	-5362 Aug 07 j 20:28	23° II 45'57			-5356 Dec 24 j 18:01	0° Z	
	-5362 Sep 06 j 05:54	0° Z		evening set	-5355 Jan 26 j 14:12	7° Z 26'38	
retrograde	-5362 Dec 06 j 08:47	10° Z 51'32					

Attention, astronomical year style is used: The year -5355 in astronomical counting style is the year 5356 BCE in historical counting style.

conjunction	-5355 Feb 09 j 01:41	10° Z 37'02	-1°22'21	morning rise	-5350 Aug 12 j 03:19	28° II 08'57	
minimum elong	-5355 Feb 09 j 01:38	10° Z 37'01	1°22'39		-5350 Aug 20 j 15:00	0° G	
max. Earth dist.	-5355 Feb 10 j 19:52	11° Z 01'55	6.03698 AU	retrograde	-5350 Dec 10 j 17:36	15° G 16'31	
morning rise	-5355 Feb 22 j 16:12	13° Z 48'55		opposition	-5349 Feb 09 j 07:34	10° G 24'56	2°01'43
	-5355 May 14 j 13:26	0° \approx		min. Earth dist.	-5349 Feb 10 j 11:19	10° G 16'04	4.36701 AU
retrograde	-5355 Jul 03 j 17:30	3° \approx 49'24		direct	-5349 Apr 12 j 21:52	5° G 24'07	
	-5355 Aug 23 j 00:41	30° R Z		evening set	-5349 Aug 17 j 18:35	23° G 23'07	
min. Earth dist.	-5355 Aug 31 j 05:14	28° Z 53'41	4.06627 AU	max. Earth dist.	-5349 Aug 28 j 15:17	25° G 48'36	6.33956 AU
opposition	-5355 Sep 01 j 09:05	28° Z 44'10	-2°08'15				
direct	-5355 Oct 29 j 14:10	23° Z 46'12		conjunction	-5349 Aug 30 j 07:58	26° G 11'23	1°27'07
	-5354 Jan 01 j 22:16	0° \approx		minimum elong	-5349 Aug 30 j 07:58	26° G 11'22	1°27'23
evening set	-5354 Mar 04 j 14:11	12° \approx 53'47		morning rise	-5349 Sep 11 j 19:26	28° G 58'46	
	-5354 Mar 13 j 17:15	15° \approx			-5349 Sep 16 j 09:48	0° Ω	
					-5349 Dec 11 j 12:28	15° Ω	
conjunction	-5354 Mar 18 j 07:04	16° \approx 03'25	-1°21'22	retrograde	-5348 Jan 12 j 04:32	16° Ω 31'29	
minimum elong	-5354 Mar 18 j 07:07	16° \approx 03'27	1°21'36		-5348 Feb 13 j 00:51	15° R Ω	
max. Earth dist.	-5354 Mar 20 j 00:58	16° \approx 27'38	6.10513 AU	opposition	-5348 Mar 13 j 03:23	11° Ω 39'46	2°03'38
morning rise	-5354 Apr 01 j 01:12	19° \approx 13'34		min. Earth dist.	-5348 Mar 14 j 07:47	11° Ω 30'45	4.30364 AU
	-5354 May 21 j 11:11	0° H		direct	-5348 May 14 j 08:37	6° Ω 41'46	
retrograde	-5354 Aug 07 j 06:25	8° H 28'01			-5348 Aug 01 j 06:38	15° Ω	
opposition	-5354 Oct 05 j 14:15	3° H 24'14	-1°43'00	evening set	-5348 Sep 16 j 23:56	24° Ω 51'34	
min. Earth dist.	-5354 Oct 04 j 16:55	3° H 31'30	4.15373 AU	max. Earth dist.	-5348 Sep 28 j 02:39	27° Ω 23'29	6.25749 AU
	-5354 Nov 02 j 04:23	30° R \approx					
direct	-5354 Dec 03 j 15:07	28° \approx 23'01		conjunction	-5348 Sep 29 j 11:42	27° Ω 42'22	1°15'00
	-5353 Jan 04 j 11:07	0° H		minimum elong	-5348 Sep 29 j 11:45	27° Ω 42'24	1°15'12
evening set	-5353 Apr 09 j 19:42	17° H 10'57			-5348 Oct 09 j 12:46	0° H	
				morning rise	-5348 Oct 11 j 23:01	0° H 33'08	
conjunction	-5353 Apr 23 j 13:51	20° H 16'56	-0°51'49	retrograde	-5347 Feb 14 j 03:02	18° H 49'47	
minimum elong	-5353 Apr 23 j 13:55	20° H 16'58	0°51'53	opposition	-5347 Apr 16 j 08:13	13° H 56'03	1°28'01
max. Earth dist.	-5353 Apr 24 j 13:17	20° H 30'10	6.20496 AU	min. Earth dist.	-5347 Apr 17 j 02:20	13° H 50'16	4.20781 AU
morning rise	-5353 May 07 j 07:28	23° H 22'24		direct	-5347 Jun 16 j 11:47	9° H 00'55	
	-5353 Jun 06 j 21:37	0° Y		evening set	-5347 Oct 19 j 01:29	27° H 28'30	
retrograde	-5353 Sep 08 j 23:42	11° Y 39'50			-5347 Oct 29 j 21:51	0° $\underline{\text{A}}$	
opposition	-5353 Nov 07 j 08:18	6° Y 39'22	-0°44'37				
min. Earth dist.	-5353 Nov 07 j 00:13	6° Y 42'05	4.25546 AU	conjunction	-5347 Oct 31 j 16:36	0° $\underline{\text{A}}$ 24'57	0°39'12
direct	-5352 Jan 06 j 15:31	1° Y 35'59		minimum elong	-5347 Oct 31 j 16:39	0° $\underline{\text{A}}$ 24'59	0°39'13
evening set	-5352 May 13 j 13:19	20° Y 00'39		max. Earth dist.	-5347 Oct 31 j 01:11	0° $\underline{\text{A}}$ 15'57	6.15693 AU
				morning rise	-5347 Nov 13 j 09:04	3° $\underline{\text{A}}$ 22'19	
conjunction	-5352 May 27 j 03:38	23° Y 01'02	-0°06'24	retrograde	-5346 Mar 21 j 20:50	22° $\underline{\text{A}}$ 31'44	
minimum elong	-5352 May 27 j 03:38	23° Y 01'02	0°06'17	opposition	-5346 May 21 j 22:03	17° $\underline{\text{A}}$ 34'32	0°21'42
behind sun begin	-5352 May 26 j 19:51	22° Y 56'44		min. Earth dist.	-5346 May 22 j 01:02	17° $\underline{\text{A}}$ 33'34	4.10918 AU
behind sun end	-5352 May 27 j 11:25	23° Y 05'20		direct	-5346 Jul 20 j 18:53	12° $\underline{\text{A}}$ 41'19	
max. Earth dist.	-5352 May 27 j 04:34	23° Y 01'32	6.30165 AU	desc. node	-5346 Sep 11 j 13:03	16° $\underline{\text{A}}$ 57'15	
morning rise	-5352 Jun 09 j 15:13	25° Y 59'59			-5346 Nov 15 j 06:09	0° M	
	-5352 Jun 28 j 02:53	0° B		evening set	-5346 Nov 21 j 15:22	1° M 29'44	
asc. node	-5352 Jul 18 j 17:26	4° B 11'19					
retrograde	-5352 Oct 09 j 11:20	13° B 30'48		conjunction	-5346 Dec 04 j 13:14	4° M 32'55	-0°10'56
opposition	-5352 Dec 08 j 02:14	8° B 34'17	0°25'00	minimum elong	-5346 Dec 04 j 13:13	4° M 32'54	0°11'05
min. Earth dist.	-5352 Dec 08 j 09:03	8° B 32'02	4.33901 AU	behind sun begin	-5346 Dec 04 j 07:06	4° M 29'18	
direct	-5351 Feb 07 j 14:19	3° B 30'25		behind sun end	-5346 Dec 04 j 19:19	4° M 36'30	
	-5351 May 15 j 06:58	15° B		max. Earth dist.	-5346 Dec 04 j 21:43	4° M 37'56	6.06977 AU
evening set	-5351 Jun 15 j 16:44	21° B 36'38		morning rise	-5346 Dec 17 j 13:54	7° M 37'43	
					-5345 Jan 19 j 01:45	15° M	
conjunction	-5351 Jun 28 j 22:29	24° B 30'55	0°39'52	retrograde	-5345 Apr 27 j 16:10	27° M 32'30	
minimum elong	-5351 Jun 28 j 22:26	24° B 30'53	0°40'05	opposition	-5345 Jun 27 j 08:24	22° M 31'17	-0°54'58
max. Earth dist.	-5351 Jun 27 j 23:58	24° B 18'32	6.36553 AU	min. Earth dist.	-5345 Jun 26 j 17:34	22° M 36'12	4.04169 AU
morning rise	-5351 Jul 12 j 01:00	27° B 23'30		direct	-5345 Aug 24 j 23:24	17° M 38'11	
	-5351 Jul 24 j 02:12	0° II			-5345 Nov 27 j 14:23	0° J	
retrograde	-5351 Nov 09 j 11:19	14° II 29'57		evening set	-5345 Dec 27 j 00:17	6° J 44'28	
opposition	-5350 Jan 08 j 12:19	9° II 36'38	1°25'32				
min. Earth dist.	-5350 Jan 09 j 08:59	9° II 29'56	4.37990 AU	conjunction	-5344 Jan 09 j 05:40	9° J 52'46	-0°58'12
direct	-5350 Mar 11 j 21:36	4° II 33'40		minimum elong	-5344 Jan 09 j 05:36	9° J 52'43	0°58'28
evening set	-5350 Jul 17 j 13:52	22° II 31'04		max. Earth dist.	-5344 Jan 10 j 12:28	10° J 11'04	6.02732 AU
max. Earth dist.	-5350 Jul 28 j 22:33	25° II 01'04	6.37920 AU	morning rise	-5344 Jan 22 j 14:32	13° J 02'54	
					-5344 Apr 17 j 04:35	0° Z	
conjunction	-5350 Jul 30 j 10:16	25° II 20'47	1°13'57	retrograde	-5344 Jun 02 j 15:01	3° Z 16'26	
minimum elong	-5350 Jul 30 j 10:12	25° II 20'45	1°14'16		-5344 Jul 19 j 03:06	30° R J	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 6

Attention, astronomical year style is used: The year -5344 in astronomical counting style is the year 5345 BCE in historical counting style.

opposition	-5344 Aug 01 j 17:47	28° ♊ 12'07	-1°52'26	direct	-5338 Mar 16 j 08:16	8° ♊ 59'18	
min. Earth dist.	-5344 Jul 31 j 15:56	28° ♊ 20'51	4.03001 AU	evening set	-5338 Jul 21 j 23:33	26° ♊ 57'10	
direct	-5344 Sep 28 j 19:40	23° ♊ 16'57		max. Earth dist.	-5338 Aug 02 j 04:43	29° ♊ 25'34	6.37466 AU
	-5344 Dec 04 j 08:09	0° ♋					
evening set	-5343 Jan 31 j 16:54	12° ♋ 30'13		conjunction	-5338 Aug 03 j 18:39	29° ♊ 46'33	1°17'09
				minimum elong	-5338 Aug 03 j 18:36	29° ♊ 46'31	1°17'28
conjunction	-5343 Feb 14 j 05:17	15° ♋ 40'34	-1°24'06		-5338 Aug 04 j 18:58	0° ♋	
minimum elong	-5343 Feb 14 j 05:16	15° ♋ 40'33	1°24'24	morning rise	-5338 Aug 16 j 10:52	2° ♋ 34'31	
max. Earth dist.	-5343 Feb 16 j 01:29	16° ♋ 06'32	6.04606 AU	retrograde	-5338 Dec 15 j 05:58	19° ♋ 44'46	
morning rise	-5343 Feb 27 j 20:19	18° ♋ 52'14		opposition	-5337 Feb 13 j 20:35	14° ♋ 53'16	2°04'09
	-5343 Apr 20 j 01:55	0° ♌		min. Earth dist.	-5337 Feb 15 j 01:17	14° ♋ 44'07	4.35955 AU
retrograde	-5343 Jul 08 j 14:37	8° ♌ 46'57		direct	-5337 Apr 17 j 11:26	9° ♋ 52'48	
min. Earth dist.	-5343 Sep 05 j 01:11	3° ♌ 51'06	4.07837 AU	evening set	-5337 Aug 22 j 03:30	27° ♋ 53'04	
opposition	-5343 Sep 06 j 04:21	3° ♌ 41'50	-2°07'20		-5337 Aug 31 j 14:32	0° ♌	
	-5343 Oct 06 j 21:58	30° ♌ 3		max. Earth dist.	-5337 Sep 02 j 01:38	0° ♌ 19'42	6.32978 AU
direct	-5343 Nov 03 j 11:10	28° ♌ 43'25					
	-5343 Dec 01 j 05:08	0° ♍		conjunction	-5337 Sep 03 j 16:29	0° ♌ 41'30	1°26'55
	-5342 Feb 25 j 06:42	15° ♍		minimum elong	-5337 Sep 03 j 16:29	0° ♌ 41'30	1°27'12
evening set	-5342 Mar 09 j 15:12	17° ♍ 48'12		morning rise	-5337 Sep 16 j 03:28	3° ♌ 29'07	
					-5337 Nov 11 j 21:41	15° ♌	
conjunction	-5342 Mar 23 j 08:19	20° ♍ 57'23	-1°18'46	retrograde	-5336 Jan 16 j 19:14	21° ♌ 06'55	
minimum elong	-5342 Mar 23 j 08:23	20° ♍ 57'25	1°18'59	opposition	-5336 Mar 17 j 20:39	16° ♌ 14'59	2°00'48
max. Earth dist.	-5342 Mar 24 j 22:39	21° ♍ 19'27	6.11898 AU	min. Earth dist.	-5336 Mar 18 j 23:05	16° ♌ 06'35	4.29222 AU
morning rise	-5342 Apr 06 j 02:47	24° ♍ 07'00			-5336 Mar 27 j 19:24	15° ♌ 0	
	-5342 May 02 j 13:51	0° ♎		direct	-5336 May 18 j 22:26	11° ♌ 17'25	
retrograde	-5342 Aug 11 j 19:21	13° ♎ 13'30			-5336 Jul 08 j 17:50	15° ♌	
min. Earth dist.	-5342 Oct 09 j 08:13	8° ♎ 16'47	4.16787 AU	evening set	-5336 Sep 21 j 10:38	29° ♌ 28'56	
opposition	-5342 Oct 10 j 03:52	8° ♎ 10'05	-1°36'28		-5336 Sep 23 j 17:15	0° ♎	
direct	-5342 Dec 08 j 08:26	3° ♎ 08'29					
evening set	-5341 Apr 14 j 16:08	21° ♎ 53'20		conjunction	-5336 Oct 03 j 22:26	2° ♎ 20'16	1°11'15
				minimum elong	-5336 Oct 03 j 22:30	2° ♎ 20'18	1°11'24
conjunction	-5341 Apr 28 j 10:13	24° ♎ 58'43	-0°46'10	max. Earth dist.	-5336 Oct 02 j 15:22	2° ♎ 02'27	6.24537 AU
minimum elong	-5341 Apr 28 j 10:17	24° ♎ 58'45	0°46'14	morning rise	-5336 Oct 16 j 10:12	5° ♎ 11'43	
max. Earth dist.	-5341 Apr 29 j 07:04	25° ♎ 10'27	6.21852 AU	retrograde	-5335 Feb 19 j 01:26	23° ♎ 34'42	
morning rise	-5341 May 12 j 03:12	28° ♎ 03'22		opposition	-5335 Apr 21 j 05:52	18° ♎ 40'31	1°20'13
	-5341 May 20 j 21:34	0° ♏		min. Earth dist.	-5335 Apr 21 j 22:45	18° ♎ 35'07	4.19548 AU
retrograde	-5341 Sep 13 j 09:40	16° ♏ 13'55		direct	-5335 Jun 21 j 06:40	13° ♎ 45'39	
opposition	-5341 Nov 11 j 18:10	11° ♏ 14'03	-0°35'14		-5335 Oct 13 j 20:46	0° ♏	
min. Earth dist.	-5341 Nov 11 j 12:31	11° ♏ 15'57	4.26714 AU	evening set	-5335 Oct 23 j 15:37	2° ♏ 15'12	
direct	-5340 Jan 11 j 05:18	6° ♏ 10'35					
evening set	-5340 May 18 j 04:59	24° ♏ 32'57		conjunction	-5335 Nov 05 j 07:33	5° ♏ 12'29	0°32'44
asc. node	-5340 May 29 j 09:15	27° ♏ 01'02		minimum elong	-5335 Nov 05 j 07:35	5° ♏ 12'30	0°32'44
				max. Earth dist.	-5335 Nov 04 j 19:20	5° ♏ 05'21	6.14554 AU
conjunction	-5340 May 31 j 18:15	27° ♏ 32'35	0°00'18	morning rise	-5335 Nov 18 j 01:00	8° ♏ 10'46	
minimum elong	-5340 May 31 j 18:16	27° ♏ 32'35	0°00'26	retrograde	-5334 Mar 26 j 21:24	27° ♏ 26'15	
behind sun begin	-5340 May 31 j 10:02	27° ♏ 28'03		opposition	-5334 May 26 j 22:38	22° ♏ 28'29	0°11'01
behind sun end	-5340 Jun 01 j 02:30	27° ♏ 37'07		min. Earth dist.	-5334 May 26 j 22:38	22° ♏ 28'29	4.09963 AU
max. Earth dist.	-5340 May 31 j 14:28	27° ♏ 30'32	6.31055 AU	desc. node	-5334 Jul 22 j 17:18	17° ♏ 36'13	
	-5340 Jun 11 j 21:01	0° ♐		direct	-5334 Jul 25 j 14:24	17° ♏ 35'24	
morning rise	-5340 Jun 14 j 04:56	0° ♐ 30'46			-5334 Oct 29 j 07:18	0° ♐	
	-5340 Aug 30 j 20:11	15° ♐		evening set	-5334 Nov 26 j 10:33	6° ♐ 25'44	
retrograde	-5340 Oct 13 j 18:36	17° ♐ 57'45					
	-5340 Nov 27 j 00:57	15° ♐ 0		conjunction	-5334 Dec 09 j 09:19	9° ♐ 29'38	-0°18'05
opposition	-5340 Dec 12 j 10:45	13° ♐ 01'43	0°34'17	minimum elong	-5334 Dec 09 j 09:18	9° ♐ 29'37	0°18'16
min. Earth dist.	-5340 Dec 12 j 19:53	12° ♐ 58'42	4.34476 AU	max. Earth dist.	-5334 Dec 09 j 20:30	9° ♐ 36'15	6.06276 AU
direct	-5339 Feb 12 j 02:27	7° ♐ 57'53		morning rise	-5334 Dec 22 j 11:08	12° ♐ 35'13	
	-5339 Apr 25 j 23:23	15° ♐			-5333 Jan 01 j 19:10	15° ♐	
evening set	-5339 Jun 20 j 04:34	26° ♐ 03'19			-5333 Mar 22 j 16:21	0° ♑	
max. Earth dist.	-5339 Jul 02 j 09:30	28° ♐ 43'58	6.36776 AU	retrograde	-5333 May 02 j 18:42	2° ♑ 33'48	
					-5333 Jun 12 j 22:39	30° ♑	
conjunction	-5339 Jul 03 j 09:10	28° ♐ 57'00	0°45'31	opposition	-5333 Jul 02 j 09:38	27° ♐ 32'02	-1°04'43
minimum elong	-5339 Jul 03 j 09:07	28° ♐ 56'58	0°45'46	min. Earth dist.	-5333 Jul 01 j 17:13	27° ♐ 37'29	4.03791 AU
	-5339 Jul 08 j 03:39	0° ♒		direct	-5333 Aug 29 j 22:44	22° ♐ 38'43	
morning rise	-5339 Jul 16 j 10:12	1° ♒ 48'55			-5333 Nov 07 j 23:37	0° ♑	
retrograde	-5339 Nov 13 j 18:42	18° ♒ 54'55		evening set	-5332 Jan 01 j 00:15	11° ♑ 46'14	
opposition	-5338 Jan 12 j 21:49	14° ♒ 01'58	1°32'16				
min. Earth dist.	-5338 Jan 13 j 19:25	13° ♒ 55'00	4.37878 AU	conjunction	-5332 Jan 14 j 06:44	14° ♑ 54'58	-1°03'24

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 7

Attention, astronomical year style is used: The year -5332 in astronomical counting style is the year 5333 BCE in historical counting style.

minimum elong	-5332 Jan 14 j 06:40	14° ♂ 54'56	1°03'41	morning rise	-5327 Jul 20 j 20:51	6° ♂ 17'44	
max. Earth dist.	-5332 Jan 15 j 16:54	15° ♂ 15'15	6.02706 AU	retrograde	-5327 Nov 18 j 04:37	23° ♂ 23'12	
morning rise	-5332 Jan 27 j 16:28	18° ♂ 05'27		opposition	-5326 Jan 17 j 09:26	18° ♂ 30'33	1°38'37
	-5332 Mar 22 j 09:47	0° ♂		min. Earth dist.	-5326 Jan 18 j 07:52	18° ♂ 23'19	4.37923 AU
retrograde	-5332 Jun 07 j 16:46	8° ♂ 18'20		direct	-5326 Mar 20 j 21:18	13° ♂ 28'10	
opposition	-5332 Aug 06 j 16:38	3° ♂ 13'47	-1°57'18		-5326 Jul 19 j 20:54	0° ♂	
min. Earth dist.	-5332 Aug 05 j 14:31	3° ♂ 22'38	4.03359 AU	evening set	-5326 Jul 26 j 09:51	1° ♂ 25'42	
	-5332 Sep 01 j 19:53	30° ♂		max. Earth dist.	-5326 Aug 06 j 15:13	3° ♂ 54'21	6.37266 AU
direct	-5332 Oct 03 j 18:00	28° ♂ 18'14					
	-5332 Nov 04 j 15:37	0° ♂		conjunction	-5326 Aug 08 j 03:55	4° ♂ 14'41	1°19'58
evening set	-5331 Feb 05 j 19:24	17° ♂ 31'15		minimum elong	-5326 Aug 08 j 03:52	4° ♂ 14'39	1°20'16
				morning rise	-5326 Aug 20 j 18:56	7° ♂ 02'16	
conjunction	-5331 Feb 19 j 08:26	20° ♂ 41'36	-1°25'16	retrograde	-5326 Dec 19 j 17:15	24° ♂ 14'30	
minimum elong	-5331 Feb 19 j 08:26	20° ♂ 41'36	1°25'33	opposition	-5325 Feb 18 j 10:30	19° ♂ 23'05	2°05'52
max. Earth dist.	-5331 Feb 21 j 03:10	21° ♂ 06'40	6.05283 AU	min. Earth dist.	-5325 Feb 19 j 14:38	19° ♂ 14'08	4.35540 AU
morning rise	-5331 Mar 05 j 00:18	23° ♂ 53'15		direct	-5325 Apr 22 j 00:35	14° ♂ 23'05	
	-5331 Apr 01 j 00:25	0° ♂			-5325 Aug 15 j 16:55	0° ♂	
retrograde	-5331 Jul 13 j 09:34	13° ♂ 42'59		evening set	-5325 Aug 26 j 12:37	2° ♂ 23'23	
opposition	-5331 Sep 10 j 22:57	8° ♂ 37'56	-2°05'35	max. Earth dist.	-5325 Sep 06 j 09:49	4° ♂ 49'49	6.32370 AU
min. Earth dist.	-5331 Sep 09 j 20:05	8° ♂ 47'07	4.08764 AU				
direct	-5331 Nov 08 j 07:17	3° ♂ 39'01		conjunction	-5325 Sep 08 j 00:54	5° ♂ 11'48	1°26'14
	-5330 Feb 07 j 16:21	15° ♂		minimum elong	-5325 Sep 08 j 00:54	5° ♂ 11'48	1°26'31
evening set	-5330 Mar 14 j 16:15	22° ♂ 42'06		morning rise	-5325 Sep 20 j 11:43	7° ♂ 59'34	
					-5325 Oct 23 j 01:09	15° ♂	
conjunction	-5330 Mar 28 j 09:59	25° ♂ 51'02	-1°15'37	retrograde	-5324 Jan 21 j 11:45	25° ♂ 41'22	
minimum elong	-5330 Mar 28 j 10:02	25° ♂ 51'05	1°15'48	opposition	-5324 Mar 22 j 13:46	20° ♂ 49'13	1°57'13
max. Earth dist.	-5330 Mar 29 j 23:00	26° ♂ 12'18	6.13010 AU	min. Earth dist.	-5324 Mar 23 j 15:27	20° ♂ 41'03	4.28444 AU
morning rise	-5330 Apr 11 j 04:27	29° ♂ 00'12		direct	-5324 May 23 j 13:42	15° ♂ 52'00	
	-5330 Apr 15 j 13:54	0° ♂			-5324 Sep 07 j 15:32	0° ♂	
retrograde	-5330 Aug 16 j 11:19	17° ♂ 59'46		evening set	-5324 Sep 25 j 20:02	4° ♂ 04'03	
opposition	-5330 Oct 14 j 18:19	12° ♂ 56'47	-1°29'17	max. Earth dist.	-5324 Oct 07 j 04:04	6° ♂ 39'43	6.23665 AU
min. Earth dist.	-5330 Oct 14 j 01:03	13° ♂ 02'39	4.17945 AU				
direct	-5330 Dec 13 j 02:58	7° ♂ 54'51		conjunction	-5324 Oct 08 j 08:13	6° ♂ 55'52	1°07'05
evening set	-5329 Apr 19 j 13:40	26° ♂ 37'25		minimum elong	-5324 Oct 08 j 08:16	6° ♂ 55'54	1°07'13
				morning rise	-5324 Oct 20 j 20:19	9° ♂ 47'53	
conjunction	-5329 May 03 j 07:26	29° ♂ 42'13	-0°40'10	retrograde	-5323 Feb 23 j 20:34	28° ♂ 16'13	
minimum elong	-5329 May 03 j 07:30	29° ♂ 42'15	0°40'12	opposition	-5323 Apr 26 j 02:00	23° ♂ 21'37	1°11'58
max. Earth dist.	-5329 May 04 j 00:37	29° ♂ 51'51	6.22969 AU	min. Earth dist.	-5323 Apr 26 j 16:36	23° ♂ 16'57	4.18627 AU
	-5329 May 04 j 15:08	0° ♂		direct	-5323 Jun 25 j 22:11	18° ♂ 27'06	
morning rise	-5329 May 16 j 23:58	2° ♂ 46'12			-5323 Sep 27 j 02:07	0° ♂	
retrograde	-5329 Sep 17 j 19:38	20° ♂ 50'41		evening set	-5323 Oct 28 j 04:02	6° ♂ 57'46	
opposition	-5329 Nov 16 j 05:25	15° ♂ 51'20	-0°25'30				
min. Earth dist.	-5329 Nov 16 j 01:19	15° ♂ 52'43	4.27698 AU	conjunction	-5323 Nov 09 j 20:33	9° ♂ 55'44	0°26'09
direct	-5328 Jan 15 j 20:08	10° ♂ 47'44		minimum elong	-5323 Nov 09 j 20:35	9° ♂ 55'45	0°26'08
asc. node	-5328 Apr 07 j 18:51	19° ♂ 48'06		max. Earth dist.	-5323 Nov 09 j 10:09	9° ♂ 49'39	6.13662 AU
evening set	-5328 May 22 j 22:12	29° ♂ 08'23		morning rise	-5323 Nov 22 j 15:01	12° ♂ 54'51	
	-5328 May 26 j 20:07	0° ♂			-5322 Feb 21 j 01:38	0° ♂	
				retrograde	-5322 Mar 31 j 20:01	2° ♂ 15'50	
conjunction	-5328 Jun 05 j 10:32	2° ♂ 07'18	0°07'05		-5322 May 09 j 19:08	30° ♂	
minimum elong	-5328 Jun 05 j 10:31	2° ♂ 07'17	0°07'14	opposition	-5322 May 31 j 20:48	27° ♂ 17'29	0°00'28
behind sun begin	-5328 Jun 05 j 03:00	2° ♂ 03'09		min. Earth dist.	-5322 May 31 j 18:57	27° ♂ 18'05	4.09156 AU
behind sun end	-5328 Jun 05 j 18:03	2° ♂ 11'26		desc. node	-5322 Jun 03 j 05:27	26° ♂ 59'02	
max. Earth dist.	-5328 Jun 05 j 04:14	2° ♂ 03'50	6.31855 AU	direct	-5322 Jul 30 j 09:14	22° ♂ 24'26	
morning rise	-5328 Jun 18 j 19:58	5° ♂ 04'40			-5322 Oct 10 j 09:16	0° ♂	
	-5328 Aug 06 j 07:12	15° ♂		evening set	-5322 Dec 01 j 03:38	11° ♂ 16'35	
retrograde	-5328 Oct 18 j 04:29	22° ♂ 28'07					
opposition	-5328 Dec 16 j 21:10	17° ♂ 32'40	0°43'33	conjunction	-5322 Dec 14 j 03:31	14° ♂ 21'11	-0°24'59
min. Earth dist.	-5328 Dec 17 j 08:18	17° ♂ 29'00	4.35046 AU	minimum elong	-5322 Dec 14 j 03:28	14° ♂ 21'10	0°25'10
	-5327 Jan 06 j 05:07	15° ♂		max. Earth dist.	-5322 Dec 14 j 18:16	14° ♂ 29'57	6.05636 AU
direct	-5327 Feb 16 j 16:21	12° ♂ 29'00			-5322 Dec 16 j 20:55	15° ♂	
	-5327 Mar 30 j 10:55	15° ♂		morning rise	-5322 Dec 27 j 06:19	17° ♂ 27'31	
	-5327 Jun 22 j 04:26	0° ♂			-5321 Feb 23 j 12:33	0° ♂	
evening set	-5327 Jun 24 j 17:49	0° ♂ 33'27		retrograde	-5321 May 07 j 19:44	7° ♂ 29'36	
				opposition	-5321 Jul 07 j 08:00	2° ♂ 27'27	-1°13'47
conjunction	-5327 Jul 07 j 21:01	3° ♂ 26'26	0°51'02	min. Earth dist.	-5321 Jul 06 j 14:40	2° ♂ 33'13	4.03405 AU
minimum elong	-5327 Jul 07 j 20:58	3° ♂ 26'24	0°51'19		-5321 Jul 26 j 16:53	30° ♂	
max. Earth dist.	-5327 Jul 06 j 18:37	3° ♂ 11'54	6.37070 AU	direct	-5321 Sep 03 j 18:45	27° ♂ 33'57	

Attention, astronomical year style is used: The year -5321 in astronomical counting style is the year 5322 BCE in historical counting style.

	-5321 Oct 12 j 08:34	0°♌		conjunction	-5315 Jul 12 j 07:36	7°♊53'17	0°56'14
evening set	-5320 Jan 05 j 22:24	16°♌43'11		minimum elong	-5315 Jul 12 j 07:33	7°♊53'15	0°56'30
				morning rise	-5315 Jul 25 j 06:01	10°♊43'49	
conjunction	-5320 Jan 19 j 05:42	19°♌52'21	-1°08'01	retrograde	-5315 Nov 22 j 13:33	27°♊48'14	
minimum elong	-5320 Jan 19 j 05:38	19°♌52'19	1°08'19	opposition	-5314 Jan 21 j 19:51	22°♊55'50	1°44'20
max. Earth dist.	-5320 Jan 20 j 15:48	20°♌12'35	6.02578 AU	min. Earth dist.	-5314 Jan 22 j 19:50	22°♊48'08	4.38035 AU
morning rise	-5320 Feb 01 j 16:33	23°♌03'19		direct	-5314 Mar 25 j 09:44	17°♊53'41	
	-5320 Mar 03 j 03:51	0°♌			-5314 Jul 03 j 08:46	0°♌	
retrograde	-5320 Jun 12 j 14:18	13°♌16'04		evening set	-5314 Jul 30 j 18:35	5°♌50'27	
min. Earth dist.	-5320 Aug 10 j 10:13	8°♌20'28	4.03529 AU	max. Earth dist.	-5314 Aug 10 j 20:48	8°♌17'36	6.37007 AU
opposition	-5320 Aug 11 j 13:13	8°♌11'18	-2°01'14				
direct	-5320 Oct 08 j 13:41	3°♌15'18		conjunction	-5314 Aug 12 j 11:31	8°♌39'04	1°22'19
evening set	-5319 Feb 10 j 20:09	22°♌29'00		minimum elong	-5314 Aug 12 j 11:29	8°♌39'03	1°22'37
				morning rise	-5314 Aug 25 j 01:44	11°♌26'23	
conjunction	-5319 Feb 24 j 10:12	25°♌39'33	-1°25'46	retrograde	-5314 Dec 24 j 04:45	28°♌40'55	
minimum elong	-5319 Feb 24 j 10:11	25°♌39'33	1°26'03	opposition	-5313 Feb 22 j 23:24	23°♌49'27	2°06'53
max. Earth dist.	-5319 Feb 26 j 05:41	26°♌05'01	6.05744 AU	min. Earth dist.	-5313 Feb 24 j 03:37	23°♌40'28	4.34922 AU
morning rise	-5319 Mar 10 j 02:33	28°♌51'12		direct	-5313 Apr 26 j 12:17	18°♌49'44	
	-5319 Mar 15 j 01:32	0°♌			-5313 Jul 29 j 23:36	0°♌	
	-5319 May 30 j 14:38	15°♌		evening set	-5313 Aug 30 j 20:18	6°♌50'46	
retrograde	-5319 Jul 18 j 05:35	18°♌36'54		max. Earth dist.	-5313 Sep 10 j 19:08	9°♌18'25	6.31436 AU
	-5319 Sep 04 j 19:13	15°♌					
opposition	-5319 Sep 15 j 16:29	13°♌32'00	-2°02'57	conjunction	-5313 Sep 12 j 08:21	9°♌39'24	1°25'04
min. Earth dist.	-5319 Sep 14 j 15:19	13°♌40'36	4.09466 AU	minimum elong	-5313 Sep 12 j 08:22	9°♌39'25	1°25'19
direct	-5319 Nov 13 j 03:37	8°♌32'39		morning rise	-5313 Sep 24 j 18:50	12°♌27'27	
	-5318 Jan 18 j 05:14	15°♌			-5313 Oct 06 j 05:34	15°♌	
evening set	-5318 Mar 19 j 16:47	27°♌34'52			-5312 Jan 13 j 15:15	0°♌	
	-5318 Mar 30 j 06:45	0°♌		retrograde	-5312 Jan 26 j 03:36	0°♌14'33	
					-5312 Feb 07 j 15:57	30°♌	
conjunction	-5318 Apr 02 j 10:51	0°♌43'35	-1°11'57	opposition	-5312 Mar 27 j 06:40	25°♌22'11	1°53'00
minimum elong	-5318 Apr 02 j 10:56	0°♌43'38	1°12'06	min. Earth dist.	-5312 Mar 28 j 07:34	25°♌14'16	4.27233 AU
max. Earth dist.	-5318 Apr 03 j 21:59	1°♌03'42	6.13908 AU	direct	-5312 May 28 j 03:16	20°♌25'23	
morning rise	-5318 Apr 16 j 05:33	3°♌52'25			-5312 Aug 21 j 03:42	0°♌	
retrograde	-5318 Aug 21 j 00:45	22°♌45'39		evening set	-5312 Sep 30 j 06:02	8°♌39'35	
opposition	-5318 Oct 19 j 08:09	17°♌43'04	-1°21'32				
min. Earth dist.	-5318 Oct 18 j 15:30	17°♌48'44	4.18956 AU	conjunction	-5312 Oct 12 j 18:25	11°♌32'06	1°02'31
direct	-5318 Dec 17 j 19:38	12°♌40'49		minimum elong	-5312 Oct 12 j 18:29	11°♌32'08	1°02'38
	-5317 Apr 18 j 07:56	0°♌		max. Earth dist.	-5312 Oct 11 j 14:45	11°♌16'10	6.22280 AU
evening set	-5317 Apr 24 j 10:56	1°♌21'26		morning rise	-5312 Oct 25 j 07:18	14°♌25'01	
					-5311 Jan 14 j 14:38	0°♌	
conjunction	-5317 May 08 j 04:18	4°♌25'39	-0°33'54	retrograde	-5311 Feb 28 j 18:31	3°♌00'41	
minimum elong	-5317 May 08 j 04:21	4°♌25'40	0°33'54		-5311 Apr 15 j 16:19	30°♌	
max. Earth dist.	-5317 May 08 j 18:27	4°♌33'34	6.24041 AU	opposition	-5311 Apr 30 j 23:25	28°♌05'36	1°03'11
morning rise	-5317 May 21 j 20:13	7°♌28'55		min. Earth dist.	-5311 May 01 j 12:05	28°♌01'32	4.17142 AU
retrograde	-5317 Sep 22 j 07:41	25°♌27'24		direct	-5311 Jun 30 j 15:20	23°♌11'20	
opposition	-5317 Nov 20 j 16:51	20°♌28'34	-0°15'37		-5311 Sep 07 j 11:56	0°♌	
min. Earth dist.	-5317 Nov 20 j 15:16	20°♌29'06	4.28722 AU	evening set	-5311 Nov 01 j 18:51	11°♌45'23	
direct	-5316 Jan 20 j 12:37	15°♌24'49					
asc. node	-5316 Feb 16 j 05:25	16°♌30'23		conjunction	-5311 Nov 14 j 12:28	14°♌44'23	0°19'17
	-5316 May 10 j 09:20	0°♌		minimum elong	-5311 Nov 14 j 12:30	14°♌44'24	0°19'13
evening set	-5316 May 27 j 14:36	3°♌43'05		max. Earth dist.	-5311 Nov 14 j 06:09	14°♌40'41	6.12234 AU
				morning rise	-5311 Nov 27 j 07:56	17°♌44'36	
conjunction	-5316 Jun 10 j 01:55	6°♌41'12	0°13'46		-5310 Jan 23 j 21:11	0°♌	
minimum elong	-5316 Jun 10 j 01:54	6°♌41'11	0°13'55	retrograde	-5310 Apr 05 j 23:23	7°♌12'56	
behind sun begin	-5316 Jun 09 j 21:50	6°♌38'57		desc. node	-5310 Apr 13 j 14:57	7°♌07'23	
behind sun end	-5316 Jun 10 j 05:57	6°♌43'25		opposition	-5310 Jun 05 j 22:10	2°♌14'07	-0°10'25
max. Earth dist.	-5316 Jun 09 j 17:25	6°♌36'31	6.32746 AU	min. Earth dist.	-5310 Jun 05 j 18:30	2°♌15'19	4.07910 AU
morning rise	-5316 Jun 23 j 10:06	9°♌37'41			-5310 Jun 23 j 17:11	30°♌	
	-5316 Jul 18 j 13:02	15°♌		direct	-5310 Aug 04 j 06:24	27°♌21'11	
retrograde	-5316 Oct 22 j 12:04	26°♌57'12			-5310 Sep 14 j 00:09	0°♌	
opposition	-5316 Dec 21 j 07:10	22°♌02'06	0°52'31		-5310 Nov 30 j 14:25	15°♌	
min. Earth dist.	-5316 Dec 21 j 19:09	21°♌58'10	4.35744 AU	evening set	-5310 Dec 06 j 01:14	16°♌16'54	
direct	-5315 Feb 21 j 04:46	16°♌58'28					
	-5315 Jun 05 j 16:30	0°♌		conjunction	-5310 Dec 19 j 02:03	19°♌22'24	-0°31'56
evening set	-5315 Jun 29 j 05:48	5°♌01'05		minimum elong	-5310 Dec 19 j 02:01	19°♌22'22	0°32'08
max. Earth dist.	-5315 Jul 11 j 03:55	7°♌38'03	6.37497 AU	max. Earth dist.	-5310 Dec 19 j 18:33	19°♌32'11	6.04673 AU
				morning rise	-5309 Jan 01 j 06:15	22°♌29'43	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 9

Attention, astronomical year style is used: The year -5309 in astronomical counting style is the year 5310 BCE in historical counting style.

	-5309 Feb 03 j 06:41	0°♌				-5303 May 19 j 00:42	0°♊	
retrograde	-5309 May 12 j 23:51	12°♌36'22		evening set	-5303 Jul 03 j 13:05	9°♊18'48		
opposition	-5309 Jul 12 j 10:40	7°♌33'46	-1°22'41	max. Earth dist.	-5303 Jul 15 j 07:14	11°♊53'32	6.38018 AU	
min. Earth dist.	-5309 Jul 11 j 14:42	7°♌40'26	4.02850 AU					
direct	-5309 Sep 08 j 18:07	2°♌40'04		conjunction	-5303 Jul 16 j 13:39	12°♊10'16	1°00'52	
evening set	-5308 Jan 11 j 01:49	21°♌51'44		minimum elong	-5303 Jul 16 j 13:35	12°♊10'14	1°01'09	
				morning rise	-5303 Jul 29 j 10:43	15°♊00'03		
conjunction	-5308 Jan 24 j 10:19	25°♌01'25	-1°12'20		-5303 Oct 21 j 01:46	0°♏		
minimum elong	-5308 Jan 24 j 10:16	25°♌01'23	1°12'37	retrograde	-5303 Nov 26 j 17:48	2°♏03'44		
max. Earth dist.	-5308 Jan 25 j 23:54	25°♌23'43	6.02492 AU		-5302 Jan 02 j 17:29	30°♏♊		
morning rise	-5308 Feb 06 j 21:58	28°♌12'47		opposition	-5302 Jan 26 j 02:23	27°♊11'32	1°49'14	
	-5308 Feb 14 j 13:23	0°♏		min. Earth dist.	-5302 Jan 27 j 03:16	27°♊03'32	4.38044 AU	
retrograde	-5308 Jun 17 j 18:12	18°♏24'39		direct	-5302 Mar 29 j 16:08	22°♊09'35		
min. Earth dist.	-5308 Aug 15 j 11:11	13°♏28'55	4.03959 AU		-5302 Jun 15 j 10:43	0°♏		
opposition	-5308 Aug 16 j 14:04	13°♏19'46	-2°04'25	evening set	-5302 Aug 03 j 23:02	10°♏06'14		
direct	-5308 Oct 13 j 15:05	8°♏23'27		max. Earth dist.	-5302 Aug 14 j 23:26	12°♏32'37	6.36480 AU	
evening set	-5307 Feb 16 j 01:51	27°♏36'45						
	-5307 Feb 26 j 07:44	0°♏		conjunction	-5302 Aug 16 j 15:02	12°♏54'38	1°24'07	
conjunction	-5307 Mar 01 j 16:36	0°♏47'13	-1°25'40	minimum elong	-5302 Aug 16 j 15:00	12°♏54'37	1°24'25	
minimum elong	-5307 Mar 01 j 16:37	0°♏47'14	1°25'57	morning rise	-5302 Aug 29 j 04:24	15°♏41'49		
max. Earth dist.	-5307 Mar 03 j 12:33	1°♏12'52	6.06668 AU	retrograde	-5302 Nov 13 j 16:11	0°♏		
morning rise	-5307 Mar 15 j 09:37	3°♏58'42			-5301 Feb 12 j 08:35	30°♏♏		
	-5307 May 05 j 11:28	15°♏		opposition	-5301 Feb 27 j 09:09	28°♏08'29	2°07'12	
retrograde	-5307 Jul 23 j 01:43	23°♏37'44		min. Earth dist.	-5301 Feb 28 j 14:41	27°♏59'06	4.33889 AU	
min. Earth dist.	-5307 Sep 19 j 10:44	18°♏41'52	4.10819 AU	direct	-5301 Apr 30 j 21:01	23°♏09'06		
opposition	-5307 Sep 20 j 12:29	18°♏33'04	-1°59'23		-5301 Jul 11 j 06:25	0°♏		
	-5307 Oct 19 j 14:39	15°♏		evening set	-5301 Sep 04 j 01:25	11°♏12'30		
direct	-5307 Nov 18 j 01:35	13°♏33'20		max. Earth dist.	-5301 Sep 14 j 22:40	13°♏39'49	6.29963 AU	
	-5307 Dec 17 j 20:23	15°♏						
	-5306 Mar 13 j 13:02	0°♏		conjunction	-5301 Sep 16 j 13:12	14°♏01'37	1°23'27	
evening set	-5306 Mar 24 j 19:24	2°♏32'06		minimum elong	-5301 Sep 16 j 13:14	14°♏01'38	1°23'41	
					-5301 Sep 20 j 20:24	15°♏		
conjunction	-5306 Apr 07 j 13:37	5°♏40'10	-1°07'46	morning rise	-5301 Sep 28 j 23:54	16°♏50'19		
minimum elong	-5306 Apr 07 j 13:41	5°♏40'13	1°07'55		-5301 Dec 04 j 07:10	0°♏		
max. Earth dist.	-5306 Apr 08 j 22:25	5°♏58'53	6.15594 AU	retrograde	-5300 Jan 30 j 18:44	4°♏44'47		
morning rise	-5306 Apr 21 j 08:12	8°♏48'12			-5300 Mar 30 j 21:04	30°♏♏		
retrograde	-5306 Aug 25 j 15:38	27°♏32'10		opposition	-5300 Mar 31 j 21:55	29°♏52'05	1°48'13	
opposition	-5306 Oct 23 j 22:32	22°♏30'02	-1°13'15	min. Earth dist.	-5300 Apr 01 j 21:36	29°♏44'33	4.25415 AU	
min. Earth dist.	-5306 Oct 23 j 08:15	22°♏34'53	4.20789 AU	direct	-5300 Jun 01 j 14:05	24°♏55'37		
direct	-5306 Dec 22 j 16:02	17°♏27'29			-5300 Jul 31 j 05:21	0°♏		
	-5305 Apr 01 j 05:45	0°♏		evening set	-5300 Oct 04 j 15:10	13°♏14'15		
evening set	-5305 Apr 29 j 07:01	6°♏03'06		max. Earth dist.	-5300 Oct 16 j 03:54	15°♏53'46	6.20285 AU	
conjunction	-5305 May 12 j 23:52	9°♏06'18	-0°27'31	conjunction	-5300 Oct 17 j 04:17	16°♏07'52	0°57'35	
minimum elong	-5305 May 12 j 23:54	9°♏06'19	0°27'29	minimum elong	-5300 Oct 17 j 04:21	16°♏07'54	0°57'42	
max. Earth dist.	-5305 May 13 j 22:10	9°♏13'10	6.25885 AU	morning rise	-5300 Oct 29 j 17:50	19°♏01'57		
morning rise	-5305 May 26 j 14:46	12°♏08'23			-5300 Dec 20 j 08:25	0°♏		
retrograde	-5305 Sep 26 j 14:25	29°♏58'30		retrograde	-5299 Mar 05 j 18:02	7°♏47'12		
opposition	-5305 Nov 25 j 01:54	25°♏00'13	-0°05'55	opposition	-5299 May 05 j 21:32	2°♏51'40	0°54'00	
min. Earth dist.	-5305 Nov 25 j 01:26	25°♏00'22	4.30421 AU	min. Earth dist.	-5299 May 06 j 08:44	2°♏48'05	4.15115 AU	
asc. node	-5305 Dec 28 j 06:07	21°♏08'40			-5299 May 29 j 16:46	30°♏♏		
direct	-5304 Jan 25 j 01:16	19°♏56'23		direct	-5299 Jul 05 j 08:47	27°♏57'42		
	-5304 Apr 22 j 22:37	0°♏			-5299 Aug 10 j 11:58	0°♏		
evening set	-5304 Jun 01 j 03:47	8°♏10'14		evening set	-5299 Nov 06 j 11:11	16°♏37'01		
conjunction	-5304 Jun 14 j 13:42	11°♏07'12	0°20'08	conjunction	-5299 Nov 19 j 05:42	19°♏37'17	0°12'15	
minimum elong	-5304 Jun 14 j 13:40	11°♏07'11	0°20'19	minimum elong	-5299 Nov 19 j 05:43	19°♏37'17	0°12'09	
max. Earth dist.	-5304 Jun 14 j 01:04	11°♏00'15	6.34157 AU	behind sun begin	-5299 Nov 19 j 00:11	19°♏34'03		
morning rise	-5304 Jun 27 j 20:36	14°♏02'34		behind sun end	-5299 Nov 19 j 11:14	19°♏40'31		
	-5304 Jul 02 j 05:52	15°♏		max. Earth dist.	-5299 Nov 19 j 01:34	19°♏34'51	6.10359 AU	
	-5304 Sep 28 j 04:59	0°♊		morning rise	-5299 Dec 02 j 02:36	22°♏38'54		
retrograde	-5304 Oct 26 j 17:47	1°♊17'02			-5298 Jan 03 j 16:35	0°♊		
	-5304 Nov 24 j 04:31	30°♏♏		desc. node	-5298 Feb 21 j 17:38	8°♊47'34		
opposition	-5304 Dec 25 j 13:35	26°♏22'23	1°00'47	retrograde	-5298 Apr 11 j 03:45	12°♊16'05		
min. Earth dist.	-5304 Dec 26 j 04:40	26°♏17'28	4.36768 AU	opposition	-5298 Jun 11 j 01:24	7°♊16'39	-0°21'21	
direct	-5303 Feb 25 j 15:28	21°♏18'50		min. Earth dist.	-5298 Jun 10 j 18:02	7°♊19'04	4.06372 AU	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 10

Attention, astronomical year style is used: The year -5298 in astronomical counting style is the year 5299 BCE in historical counting style.

direct	-5298 Aug 09 j 04:20	2°♄23'43		conjunction	-5292 Jun 19 j 03:09	15°♄37'04	0°26'32
	-5298 Nov 13 j 04:57	15°♄		minimum elong	-5292 Jun 19 j 03:06	15°♄37'03	0°26'44
evening set	-5298 Dec 11 j 01:37	21°♄23'56		max. Earth dist.	-5292 Jun 18 j 12:27	15°♄28'59	6.35088 AU
				morning rise	-5292 Jul 02 j 08:33	18°♄31'29	
conjunction	-5298 Dec 24 j 03:45	24°♄30'26	-0°38'45		-5292 Aug 29 j 03:52	0°♄	
minimum elong	-5298 Dec 24 j 03:42	24°♄30'24	0°38'59	retrograde	-5292 Oct 31 j 00:38	5°♄42'45	
max. Earth dist.	-5298 Dec 25 j 01:38	24°♄43'27	6.03614 AU	opposition	-5292 Dec 29 j 22:56	0°♄48'34	1°09'00
morning rise	-5297 Jan 06 j 09:00	27°♄38'42		min. Earth dist.	-5292 Dec 30 j 15:03	0°♄43'19	4.37308 AU
	-5297 Jan 16 j 10:18	0°♄			-5291 Jan 05 j 04:40	30°♄	
retrograde	-5297 May 18 j 07:49	17°♄49'34		direct	-5291 Mar 02 j 02:07	25°♄45'13	
opposition	-5297 Jul 17 j 15:31	12°♄46'26	-1°31'04		-5291 Apr 26 j 13:39	0°♄	
min. Earth dist.	-5297 Jul 16 j 18:12	12°♄53'35	4.02396 AU	evening set	-5291 Jul 07 j 23:43	13°♄44'07	
direct	-5297 Sep 13 j 21:19	7°♄52'26					
evening set	-5296 Jan 16 j 07:54	27°♄05'45		conjunction	-5291 Jul 20 j 22:48	16°♄34'57	1°05'22
	-5296 Jan 28 j 14:41	0°♄		minimum elong	-5291 Jul 20 j 22:45	16°♄34'55	1°05'38
				max. Earth dist.	-5291 Jul 19 j 13:27	16°♄16'35	6.38114 AU
conjunction	-5296 Jan 29 j 17:19	0°♄15'46	-1°16'07	morning rise	-5291 Aug 02 j 18:43	19°♄24'12	
minimum elong	-5296 Jan 29 j 17:16	0°♄15'44	1°16'24		-5291 Sep 24 j 10:17	0°♄	
max. Earth dist.	-5296 Jan 31 j 09:21	0°♄39'28	6.02640 AU	retrograde	-5291 Dec 01 j 04:35	6°♄28'36	
morning rise	-5296 Feb 12 j 06:01	3°♄27'26		opposition	-5290 Jan 30 j 13:24	1°♄36'42	1°53'47
retrograde	-5296 Jun 22 j 20:34	23°♄36'31		min. Earth dist.	-5290 Jan 31 j 16:31	1°♄28'00	4.37707 AU
min. Earth dist.	-5296 Aug 20 j 11:17	18°♄41'09	4.04698 AU		-5290 Feb 12 j 08:20	30°♄	
opposition	-5296 Aug 21 j 15:52	18°♄31'25	-2°06'36	direct	-5290 Apr 03 j 04:43	26°♄35'04	
direct	-5296 Oct 18 j 16:49	13°♄34'35			-5290 May 22 j 13:23	0°♄	
	-5295 Feb 09 j 07:00	0°♄		evening set	-5290 Aug 08 j 07:44	14°♄32'31	
evening set	-5295 Feb 21 j 08:24	2°♄46'01		max. Earth dist.	-5290 Aug 19 j 06:27	16°♄58'18	6.35722 AU
conjunction	-5295 Mar 06 j 23:45	5°♄56'12	-1°24'55	conjunction	-5290 Aug 20 j 22:57	17°♄20'51	1°25'32
minimum elong	-5295 Mar 06 j 23:47	5°♄56'13	1°25'10	minimum elong	-5290 Aug 20 j 22:56	17°♄20'51	1°25'50
max. Earth dist.	-5295 Mar 08 j 18:51	6°♄21'17	6.07879 AU	morning rise	-5290 Sep 02 j 11:37	20°♄08'04	
morning rise	-5295 Mar 20 j 17:13	9°♄07'16			-5290 Oct 20 j 08:08	0°♄	
	-5295 Apr 15 j 20:48	15°♄		retrograde	-5289 Jan 02 j 03:04	7°♄30'34	
retrograde	-5295 Jul 27 j 22:46	28°♄38'30		opposition	-5289 Mar 04 j 00:03	2°♄39'05	2°06'49
min. Earth dist.	-5295 Sep 24 j 08:37	23°♄42'13	4.12328 AU	min. Earth dist.	-5289 Mar 05 j 04:39	2°♄29'59	4.32777 AU
opposition	-5295 Sep 25 j 08:40	23°♄33'59	-1°54'55		-5289 Mar 26 j 00:41	30°♄	
direct	-5295 Nov 23 j 02:31	18°♄33'43		direct	-5289 May 05 j 08:40	27°♄40'09	
	-5294 Feb 23 j 14:58	0°♄			-5289 Jun 14 j 10:53	0°♄	
evening set	-5294 Mar 29 j 21:56	7°♄28'31			-5289 Sep 05 j 01:14	15°♄	
				evening set	-5289 Sep 08 j 11:00	15°♄45'53	
conjunction	-5294 Apr 12 j 16:21	10°♄35'55	-1°03'05	max. Earth dist.	-5289 Sep 19 j 10:20	18°♄14'52	6.28601 AU
minimum elong	-5294 Apr 12 j 16:25	10°♄35'58	1°03'13				
max. Earth dist.	-5294 Apr 13 j 24:00	10°♄53'54	6.17275 AU	conjunction	-5289 Sep 20 j 22:41	18°♄35'30	1°21'16
morning rise	-5294 Apr 26 j 10:35	13°♄43'05		minimum elong	-5289 Sep 20 j 22:43	18°♄35'32	1°21'29
	-5294 Jul 22 j 23:36	0°♄		morning rise	-5289 Oct 03 j 09:23	21°♄24'49	
retrograde	-5294 Aug 30 j 05:13	2°♄17'59			-5289 Nov 12 j 12:03	0°♄	
	-5294 Oct 07 j 04:47	30°♄		retrograde	-5288 Feb 04 j 15:35	9°♄26'21	
opposition	-5294 Oct 28 j 12:46	27°♄16'23	-1°04'30	opposition	-5288 Apr 05 j 18:22	4°♄33'27	1°42'30
min. Earth dist.	-5294 Oct 27 j 23:42	27°♄20'48	4.22464 AU	min. Earth dist.	-5288 Apr 06 j 17:26	4°♄26'06	4.23886 AU
direct	-5294 Dec 27 j 09:46	22°♄13'34			-5288 May 21 j 17:12	30°♄	
	-5293 Mar 12 j 20:04	0°♄		direct	-5288 Jun 06 j 07:45	29°♄37'28	
evening set	-5293 May 04 j 03:40	10°♄45'05			-5288 Jun 21 j 20:26	0°♄	
				evening set	-5288 Oct 09 j 04:30	17°♄59'16	
conjunction	-5293 May 17 j 19:39	13°♄47'19	-0°20'54				
minimum elong	-5293 May 17 j 19:41	13°♄47'20	0°20'52	conjunction	-5288 Oct 21 j 18:06	20°♄53'47	0°52'07
max. Earth dist.	-5293 May 18 j 02:53	13°♄51'21	6.27426 AU	minimum elong	-5288 Oct 21 j 18:10	20°♄53'49	0°52'11
morning rise	-5293 May 31 j 09:46	16°♄48'25		max. Earth dist.	-5288 Oct 20 j 19:27	20°♄40'39	6.18751 AU
	-5293 Aug 06 j 22:14	0°♄		morning rise	-5288 Nov 03 j 08:37	23°♄48'56	
retrograde	-5293 Oct 01 j 00:36	4°♄31'41			-5288 Nov 30 j 23:39	0°♄	
asc. node	-5293 Nov 07 j 07:33	2°♄20'28		retrograde	-5287 Mar 10 j 18:37	12°♄42'00	
	-5293 Nov 26 j 06:06	30°♄		opposition	-5287 May 10 j 22:42	7°♄46'00	0°44'07
opposition	-5293 Nov 29 j 12:34	29°♄33'56	0°03'57	min. Earth dist.	-5287 May 11 j 06:18	7°♄43'34	4.13712 AU
min. Earth dist.	-5293 Nov 29 j 15:16	29°♄33'03	4.31704 AU	direct	-5287 Jul 10 j 04:38	2°♄52'21	
direct	-5292 Jan 29 j 17:00	24°♄30'03		evening set	-5287 Nov 11 j 06:04	21°♄34'45	
	-5292 Apr 01 j 21:22	0°♄					
evening set	-5292 Jun 05 j 18:18	12°♄40'57		conjunction	-5287 Nov 24 j 01:40	24°♄35'57	0°05'00
	-5292 Jun 16 j 07:49	15°♄		minimum elong	-5287 Nov 24 j 01:40	24°♄35'56	0°04'54
				behind sun begin	-5287 Nov 23 j 17:48	24°♄31'19	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 11

Attention, astronomical year style is used: The year -5287 in astronomical counting style is the year 5288 BCE in historical counting style.

behind sun end	-5287 Nov 24 j 09:32	24° Ω 40'34		behind sun end	-5281 May 22 j 16:03	18° Υ 24'13	
max. Earth dist.	-5287 Nov 24 j 02:39	24° Ω 36'30	6.09243 AU	max. Earth dist.	-5281 May 22 j 17:16	18° Υ 24'54	6.28530 AU
morning rise	-5287 Dec 06 j 23:34	27° Ω 38'32		morning rise	-5281 Jun 05 j 01:24	21° Υ 22'25	
	-5287 Dec 17 j 02:49	0° \mathbb{M}			-5281 Jul 16 j 07:09	0° \mathcal{B}	
desc. node	-5286 Jan 01 j 05:41	3° \mathbb{M} 24'58		asc. node	-5281 Sep 18 j 08:32	8° \mathcal{B} 32'27	
	-5286 Mar 07 j 22:02	15° \mathbb{M}		retrograde	-5281 Oct 05 j 08:05	9° \mathcal{B} 00'36	
retrograde	-5286 Apr 16 j 10:28	17° \mathbb{M} 21'30		opposition	-5281 Dec 03 j 21:19	4° \mathcal{B} 03'25	0°13'33
	-5286 May 25 j 23:41	15° $\mathcal{R}\mathbb{M}$		min. Earth dist.	-5281 Dec 04 j 01:41	4° \mathcal{B} 01'58	4.32514 AU
opposition	-5286 Jun 16 j 05:16	12° \mathbb{M} 21'31	-0°32'13		-5280 Jan 08 j 16:38	30° $\mathcal{R}\Upsilon$	
min. Earth dist.	-5286 Jun 15 j 20:09	12° \mathbb{M} 24'31	4.05654 AU	direct	-5280 Feb 03 j 04:23	28° Υ 59'32	
direct	-5286 Aug 14 j 05:25	7° \mathbb{M} 28'36			-5280 Feb 29 j 01:02	0° \mathcal{B}	
	-5286 Oct 24 j 09:36	15° \mathbb{M}			-5280 May 31 j 09:13	15° \mathcal{B}	
evening set	-5286 Dec 16 j 02:01	26° \mathbb{M} 30'28		evening set	-5280 Jun 10 j 07:35	17° \mathcal{B} 09'05	
conjunction	-5286 Dec 29 j 05:04	29° \mathbb{M} 37'30	-0°45'14	conjunction	-5280 Jun 23 j 15:02	20° \mathcal{B} 04'29	0°32'41
minimum elong	-5286 Dec 29 j 05:00	29° \mathbb{M} 37'27	0°45'29	minimum elong	-5280 Jun 23 j 14:59	20° \mathcal{B} 04'27	0°32'54
max. Earth dist.	-5286 Dec 30 j 05:57	29° \mathbb{M} 52'17	6.03345 AU	max. Earth dist.	-5280 Jun 22 j 19:46	19° \mathcal{B} 53'53	6.35537 AU
	-5286 Dec 30 j 18:55	0° \mathcal{A}		morning rise	-5280 Jul 06 j 19:20	22° \mathcal{B} 58'13	
morning rise	-5285 Jan 11 j 11:31	2° \mathcal{A} 46'21			-5280 Aug 09 j 05:41	0° \mathbb{I}	
retrograde	-5285 May 23 j 10:43	22° \mathcal{A} 58'07		retrograde	-5280 Nov 04 j 09:34	10° \mathbb{I} 07'58	
opposition	-5285 Jul 22 j 17:51	17° \mathcal{A} 54'34	-1°38'33	opposition	-5279 Jan 03 j 08:12	5° \mathbb{I} 14'09	1°16'44
min. Earth dist.	-5285 Jul 21 j 18:03	18° \mathcal{A} 02'34	4.02636 AU	min. Earth dist.	-5279 Jan 04 j 02:52	5° \mathbb{I} 08'05	4.37400 AU
direct	-5285 Sep 18 j 20:55	13° \mathcal{A} 00'17		direct	-5279 Mar 06 j 14:28	0° \mathbb{I} 10'56	
	-5284 Jan 11 j 23:16	0° \mathcal{B}		evening set	-5279 Jul 12 j 09:56	18° \mathbb{I} 09'59	
evening set	-5284 Jan 21 j 11:21	2° \mathcal{B} 13'04		max. Earth dist.	-5279 Jul 23 j 22:15	20° \mathbb{I} 41'51	6.37834 AU
conjunction	-5284 Feb 03 j 21:35	5° \mathcal{B} 23'07	-1°19'13	conjunction	-5279 Jul 25 j 07:59	21° \mathbb{I} 00'27	1°09'27
minimum elong	-5284 Feb 03 j 21:32	5° \mathcal{B} 23'05	1°19'31	minimum elong	-5279 Jul 25 j 07:55	21° \mathbb{I} 00'25	1°09'44
max. Earth dist.	-5284 Feb 05 j 14:28	5° \mathcal{B} 47'16	6.03329 AU	morning rise	-5279 Aug 07 j 02:35	23° \mathbb{I} 49'18	
morning rise	-5284 Feb 17 j 10:59	8° \mathcal{B} 34'44			-5279 Sep 05 j 05:06	0° \mathcal{E}	
retrograde	-5284 Jun 27 j 19:39	28° \mathcal{B} 39'16		retrograde	-5279 Dec 05 j 13:49	10° \mathcal{E} 55'36	
min. Earth dist.	-5284 Aug 25 j 09:36	23° \mathcal{B} 43'35	4.05757 AU	opposition	-5278 Feb 04 j 01:25	6° \mathcal{E} 03'50	1°57'41
opposition	-5284 Aug 26 j 13:30	23° \mathcal{B} 34'04	-2°07'44	min. Earth dist.	-5278 Feb 05 j 04:09	5° \mathcal{E} 55'16	4.37109 AU
direct	-5284 Oct 23 j 17:10	18° \mathcal{B} 36'41		direct	-5278 Apr 07 j 15:31	1° \mathcal{E} 02'35	
	-5283 Jan 22 j 13:23	0° \approx		evening set	-5278 Aug 12 j 17:08	19° \mathcal{E} 01'14	
evening set	-5283 Feb 26 j 10:52	7° \approx 45'34		max. Earth dist.	-5278 Aug 23 j 14:57	21° \mathcal{E} 26'56	6.34844 AU
conjunction	-5283 Mar 12 j 02:56	10° \approx 55'26	-1°23'34	conjunction	-5278 Aug 25 j 07:26	21° \mathcal{E} 49'33	1°26'26
minimum elong	-5283 Mar 12 j 02:58	10° \approx 55'27	1°23'48	minimum elong	-5278 Aug 25 j 07:26	21° \mathcal{E} 49'33	1°26'43
max. Earth dist.	-5283 Mar 13 j 22:03	11° \approx 20'25	6.09211 AU	morning rise	-5278 Sep 06 j 19:36	24° \mathcal{E} 36'52	
morning rise	-5283 Mar 25 j 20:36	14° \approx 05'59			-5278 Oct 01 j 16:51	0° \mathcal{O}	
	-5283 Mar 29 j 18:51	15° \approx		retrograde	-5277 Jan 06 j 19:18	12° \mathcal{O} 04'00	
	-5283 Jun 14 j 23:09	0° \mathcal{H}		opposition	-5277 Mar 08 j 16:33	7° \mathcal{O} 12'25	2°05'37
retrograde	-5283 Aug 01 j 15:31	3° \mathcal{H} 29'16		min. Earth dist.	-5277 Mar 09 j 21:27	7° \mathcal{O} 03'15	4.31678 AU
	-5283 Sep 18 j 05:36	30° $\mathcal{R}\approx$		direct	-5277 May 10 j 00:38	2° \mathcal{O} 13'53	
min. Earth dist.	-5283 Sep 29 j 01:30	28° \approx 32'54	4.13789 AU		-5277 Aug 19 j 12:18	15° \mathcal{O}	
opposition	-5283 Sep 30 j 00:26	28° \approx 25'05	-1°49'49	evening set	-5277 Sep 12 j 21:24	20° \mathcal{O} 21'25	
direct	-5283 Nov 27 j 20:52	23° \approx 24'24		max. Earth dist.	-5277 Sep 23 j 22:17	22° \mathcal{O} 51'43	6.27373 AU
	-5282 Feb 03 j 08:13	0° \mathcal{H}					
evening set	-5282 Apr 03 j 20:26	12° \mathcal{H} 15'46		conjunction	-5277 Sep 25 j 09:06	23° \mathcal{O} 11'31	1°18'33
conjunction	-5282 Apr 17 j 14:42	15° \mathcal{H} 22'32	-0°58'09	minimum elong	-5277 Sep 25 j 09:08	23° \mathcal{O} 11'33	1°18'45
minimum elong	-5282 Apr 17 j 14:46	15° \mathcal{H} 22'35	0°58'14	morning rise	-5277 Oct 07 j 20:01	26° \mathcal{O} 01'26	
max. Earth dist.	-5282 Apr 18 j 17:27	15° \mathcal{H} 37'41	6.18737 AU		-5277 Oct 25 j 16:30	0° \mathbb{P}	
morning rise	-5282 May 01 j 08:50	18° \mathcal{H} 28'59		retrograde	-5276 Feb 09 j 10:25	14° \mathbb{P} 09'14	
	-5282 Jun 26 j 03:09	0° Υ		opposition	-5276 Apr 10 j 15:18	9° \mathbb{P} 15'56	1°36'03
retrograde	-5282 Sep 03 j 15:53	6° Υ 56'12		min. Earth dist.	-5276 Apr 11 j 11:27	9° \mathbb{P} 09'31	4.22611 AU
opposition	-5282 Nov 01 j 23:57	1° Υ 55'03	-0°55'37	direct	-5276 Jun 11 j 00:00	4° \mathbb{P} 20'18	
min. Earth dist.	-5282 Nov 01 j 13:34	1° Υ 58'34	4.23787 AU	evening set	-5276 Oct 13 j 17:58	22° \mathbb{P} 44'09	
	-5282 Nov 16 j 13:59	30° $\mathcal{R}\mathcal{H}$		conjunction	-5276 Oct 26 j 08:12	25° \mathbb{P} 39'27	0°46'17
direct	-5281 Jan 01 j 01:36	26° \mathcal{H} 51'57		minimum elong	-5276 Oct 26 j 08:15	25° \mathbb{P} 39'29	0°46'20
	-5281 Feb 15 j 22:10	0° Υ		max. Earth dist.	-5276 Oct 25 j 13:17	25° \mathbb{P} 28'27	6.17538 AU
evening set	-5281 May 08 j 20:58	15° Υ 20'41		morning rise	-5276 Nov 07 j 23:28	28° \mathbb{P} 35'28	
conjunction	-5281 May 22 j 12:24	18° Υ 22'12	-0°14'21	retrograde	-5276 Nov 14 j 02:29	0° \mathcal{A}	
minimum elong	-5281 May 22 j 12:26	18° Υ 22'13	0°14'17		-5275 Mar 15 j 21:05	17° \mathcal{A} 35'07	
behind sun begin	-5281 May 22 j 08:48	18° Υ 20'12		opposition	-5275 May 15 j 23:35	12° \mathcal{A} 38'34	0°33'55
				min. Earth dist.	-5275 May 16 j 05:42	12° \mathcal{A} 36'36	4.12625 AU

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 12

Attention, astronomical year style is used: The year -5275 in astronomical counting style is the year 5276 BCE in historical counting style.

direct	-5275 Jul 15 j 02:26	7°♌45'05		direct	-5269 Jan 05 j 17:18	1°♏32'18	
desc. node	-5275 Nov 10 j 21:43	25°♌17'50		evening set	-5269 May 13 j 15:32	19°♏58'58	
evening set	-5275 Nov 16 j 00:09	26°♌29'26					
				conjunction	-5269 May 27 j 06:05	22°♏59'47	-0°07'38
conjunction	-5275 Nov 28 j 20:38	29°♌31'24	-0°02'23	minimum elong	-5269 May 27 j 06:05	22°♏59'47	0°07'32
minimum elong	-5275 Nov 28 j 20:39	29°♌31'25	0°02'30	behind sun begin	-5269 May 26 j 22:36	22°♏55'39	
behind sun begin	-5275 Nov 28 j 12:34	29°♌26'39		behind sun end	-5269 May 27 j 13:35	23°♏03'55	
behind sun end	-5275 Nov 29 j 04:45	29°♌36'10		max. Earth dist.	-5269 May 27 j 06:23	22°♏59'57	6.29457 AU
max. Earth dist.	-5275 Nov 29 j 00:34	29°♌33'41	6.08374 AU	morning rise	-5269 Jun 09 j 18:15	25°♏59'15	
	-5275 Nov 30 j 21:01	0°♌			-5269 Jun 28 j 06:37	0°♏	
morning rise	-5275 Dec 11 j 19:47	2°♌34'55		asc. node	-5269 Jul 29 j 04:29	6°♏07'23	
	-5274 Feb 07 j 17:39	15°♌		retrograde	-5269 Oct 09 j 17:35	13°♏33'06	
retrograde	-5274 Apr 21 j 12:45	22°♌22'36		opposition	-5269 Dec 08 j 07:51	8°♏36'26	0°23'15
opposition	-5274 Jun 21 j 07:18	17°♌22'05	-0°42'44	min. Earth dist.	-5269 Dec 08 j 14:23	8°♏34'16	4.33208 AU
min. Earth dist.	-5274 Jun 20 j 19:15	17°♌26'04	4.05103 AU	direct	-5268 Feb 07 j 18:40	3°♏32'35	
	-5274 Jul 10 j 02:09	15°♌			-5268 May 14 j 04:15	15°♏	
direct	-5274 Aug 19 j 02:51	12°♌29'08		evening set	-5268 Jun 14 j 21:49	21°♏41'01	
	-5274 Sep 27 j 13:48	15°♌		max. Earth dist.	-5268 Jun 27 j 07:56	24°♏24'37	6.35959 AU
	-5274 Dec 14 j 12:05	0°♌					
evening set	-5274 Dec 21 j 01:21	1°♌32'28		conjunction	-5268 Jun 28 j 04:08	24°♏35'45	0°38'45
				minimum elong	-5268 Jun 28 j 04:05	24°♏35'43	0°38'58
conjunction	-5273 Jan 03 j 05:21	4°♌39'59	-0°51'19	morning rise	-5268 Jul 11 j 06:57	27°♏28'44	
minimum elong	-5273 Jan 03 j 05:18	4°♌39'57	0°51'34		-5268 Jul 22 j 22:10	0°♏	
max. Earth dist.	-5273 Jan 04 j 08:40	4°♌56'13	6.03140 AU	retrograde	-5268 Nov 08 j 18:24	14°♏37'12	
morning rise	-5273 Jan 16 j 12:47	7°♌49'20		opposition	-5267 Jan 07 j 19:17	9°♏43'50	1°24'11
retrograde	-5273 May 28 j 12:54	28°♌01'53		min. Earth dist.	-5267 Jan 08 j 14:41	9°♏37'33	4.37554 AU
opposition	-5273 Jul 27 j 18:15	22°♌57'59	-1°45'14	direct	-5267 Mar 11 j 03:03	4°♏40'57	
min. Earth dist.	-5273 Jul 26 j 17:56	23°♌06'10	4.02812 AU	evening set	-5267 Jul 16 j 21:22	22°♏39'41	
direct	-5273 Sep 23 j 21:22	18°♌03'19		max. Earth dist.	-5267 Jul 28 j 06:08	25°♏09'50	6.37704 AU
	-5273 Dec 25 j 12:41	0°♏					
evening set	-5272 Jan 26 j 13:41	7°♏16'14		conjunction	-5267 Jul 29 j 18:00	25°♏29'37	1°13'12
				minimum elong	-5267 Jul 29 j 17:56	25°♏29'36	1°13'30
conjunction	-5272 Feb 09 j 00:56	10°♏26'26	-1°21'44	morning rise	-5267 Aug 11 j 11:37	28°♏18'05	
minimum elong	-5272 Feb 09 j 00:54	10°♏26'25	1°22'02		-5267 Aug 19 j 06:20	0°♏	
max. Earth dist.	-5272 Feb 10 j 19:55	10°♏51'46	6.03862 AU	retrograde	-5267 Dec 10 j 02:15	15°♏25'52	
morning rise	-5272 Feb 22 j 15:02	13°♏38'05		opposition	-5266 Feb 08 j 14:52	10°♏34'15	2°00'57
	-5272 May 14 j 19:25	0°♏		min. Earth dist.	-5266 Feb 09 j 18:33	10°♏25'24	4.36734 AU
retrograde	-5272 Jul 02 j 18:25	3°♏38'40		direct	-5266 Apr 12 j 06:13	5°♏33'21	
	-5272 Aug 20 j 16:50	30°♏		evening set	-5266 Aug 17 j 02:46	23°♏32'12	
min. Earth dist.	-5272 Aug 30 j 06:27	28°♏42'54	4.06605 AU	max. Earth dist.	-5266 Aug 28 j 01:44	25°♏58'47	6.34259 AU
opposition	-5272 Aug 31 j 10:01	28°♏33'30	-2°07'59				
direct	-5272 Oct 28 j 14:31	23°♏35'43		conjunction	-5266 Aug 29 j 16:31	26°♏20'29	1°26'52
	-5271 Jan 01 j 22:32	0°♏		minimum elong	-5266 Aug 29 j 16:31	26°♏20'29	1°27'08
evening set	-5271 Mar 03 j 12:57	12°♏43'02		morning rise	-5266 Sep 11 j 04:00	29°♏07'47	
	-5271 Mar 13 j 10:21	15°♏			-5266 Sep 15 j 02:08	0°♏	
					-5266 Dec 09 j 12:23	15°♏	
conjunction	-5271 Mar 17 j 05:26	15°♏52'39	-1°21'38	retrograde	-5265 Jan 11 j 08:51	16°♏38'34	
minimum elong	-5271 Mar 17 j 05:28	15°♏52'41	1°21'52		-5265 Feb 13 j 13:07	15°♏	
max. Earth dist.	-5271 Mar 18 j 21:29	16°♏15'49	6.10281 AU	opposition	-5265 Mar 13 j 09:10	11°♏46'51	2°03'39
morning rise	-5271 Mar 30 j 23:37	19°♏02'54		min. Earth dist.	-5265 Mar 14 j 12:12	11°♏38'16	4.30925 AU
	-5271 May 21 j 07:02	0°♏		direct	-5265 May 14 j 14:31	6°♏48'46	
retrograde	-5271 Aug 06 j 07:16	8°♏19'27			-5265 Aug 01 j 00:28	15°♏	
opposition	-5271 Oct 04 j 16:13	3°♏15'33	-1°44'01	evening set	-5265 Sep 17 j 07:12	24°♏56'47	
min. Earth dist.	-5271 Oct 03 j 18:45	3°♏22'53	4.14959 AU	max. Earth dist.	-5265 Sep 28 j 09:40	27°♏28'19	6.26514 AU
	-5271 Oct 30 j 19:43	30°♏					
direct	-5271 Dec 02 j 15:56	28°♏14'27		conjunction	-5265 Sep 29 j 18:47	27°♏47'13	1°15'22
	-5270 Jan 04 j 21:33	0°♏		minimum elong	-5265 Sep 29 j 18:50	27°♏47'15	1°15'33
evening set	-5270 Apr 08 j 19:14	17°♏03'31			-5265 Oct 09 j 11:44	0°♏	
				morning rise	-5265 Oct 12 j 06:00	0°♏37'36	
conjunction	-5270 Apr 22 j 13:38	20°♏09'49	-0°52'48	retrograde	-5264 Feb 14 j 06:48	18°♏50'35	
minimum elong	-5270 Apr 22 j 13:42	20°♏09'51	0°52'52	opposition	-5264 Apr 15 j 11:29	13°♏56'53	1°29'02
max. Earth dist.	-5270 Apr 23 j 14:24	20°♏23'49	6.19940 AU	min. Earth dist.	-5264 Apr 16 j 06:42	13°♏50'45	4.21667 AU
morning rise	-5270 May 06 j 07:16	23°♏15'35		direct	-5264 Jun 15 j 18:03	9°♏01'34	
	-5270 Jun 06 j 09:40	0°♏		evening set	-5264 Oct 18 j 05:59	27°♏26'21	
retrograde	-5270 Sep 08 j 04:19	11°♏36'06			-5264 Oct 29 j 06:34	0°♏	
opposition	-5270 Nov 06 j 12:01	6°♏35'33	-0°46'20				
min. Earth dist.	-5270 Nov 06 j 03:46	6°♏38'19	4.24894 AU	conjunction	-5264 Oct 30 j 20:53	0°♏22'19	0°40'15

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 13

Attention, astronomical year style is used: The year -5264 in astronomical counting style is the year 5265 BCE in historical counting style.

minimum elong	-5264 Oct 30 j 20:56	0°♌22'20	0°40'15			-5258 May 20 j 03:32	0°♑	
max. Earth dist.	-5264 Oct 30 j 04:36	0°♌12'50	6.16607 AU	retrograde		-5258 Sep 12 j 15:13	16°♑15'19	
morning rise	-5264 Nov 12 j 13:01	3°♌19'07		opposition		-5258 Nov 11 j 00:03	11°♑15'14	-0°36'47
retrograde	-5263 Mar 20 j 19:03	22°♌24'12		min. Earth dist.		-5258 Nov 10 j 17:04	11°♑17'35	4.25919 AU
opposition	-5263 May 20 j 21:59	17°♌27'08	0°23'39	direct		-5257 Jan 10 j 08:58	6°♑11'47	
min. Earth dist.	-5263 May 21 j 01:17	17°♌26'04	4.11775 AU	evening set		-5257 May 18 j 09:43	24°♑36'22	
direct	-5263 Jul 19 j 19:51	12°♌33'49						
desc. node	-5263 Sep 21 j 13:40	18°♌35'37		conjunction		-5257 May 31 j 23:23	27°♑36'25	-0°00'49
	-5263 Nov 15 j 00:27	0°♌		minimum elong		-5257 May 31 j 23:24	27°♑36'26	0°00'42
evening set	-5263 Nov 20 j 16:36	1°♌19'38		behind sun begin		-5257 May 31 j 15:09	27°♑31'53	
				behind sun end		-5257 Jun 01 j 07:39	27°♑40'59	
conjunction	-5263 Dec 03 j 13:58	4°♌22'18	-0°09'28	max. Earth dist.		-5257 May 31 j 21:40	27°♑35'31	6.30407 AU
minimum elong	-5263 Dec 03 j 13:58	4°♌22'17	0°09'38	asc. node		-5257 Jun 07 j 14:27	29°♑04'34	
behind sun begin	-5263 Dec 03 j 07:14	4°♌18'20				-5257 Jun 11 j 18:47	0°♌	
behind sun end	-5263 Dec 03 j 20:41	4°♌26'15		morning rise		-5257 Jun 14 j 10:24	0°♌35'02	
max. Earth dist.	-5263 Dec 03 j 20:19	4°♌26'02	6.07676 AU			-5257 Aug 30 j 08:07	15°♌	
morning rise	-5263 Dec 16 j 14:10	7°♌26'34		retrograde		-5257 Oct 14 j 03:15	18°♌04'19	
	-5262 Jan 19 j 00:00	15°♌				-5257 Nov 28 j 06:09	15°♌♌	
retrograde	-5262 Apr 26 j 13:21	27°♌18'23		opposition		-5257 Dec 12 j 18:17	13°♌08'10	0°32'46
opposition	-5262 Jun 26 j 06:30	22°♌17'18	-0°52'45	min. Earth dist.		-5257 Dec 13 j 02:44	13°♌05'23	4.34005 AU
min. Earth dist.	-5262 Jun 25 j 17:13	22°♌21'42	4.04617 AU	direct		-5256 Feb 12 j 09:10	8°♌04'22	
direct	-5262 Aug 23 j 23:53	17°♌24'09				-5256 Apr 24 j 13:33	15°♌	
	-5262 Nov 27 j 16:31	0°♌♌		evening set		-5256 Jun 19 j 11:32	26°♌10'55	
evening set	-5262 Dec 25 j 22:30	6°♌♌29'02						
				conjunction		-5256 Jul 02 j 16:26	29°♌04'50	0°44'34
conjunction	-5261 Jan 08 j 03:37	9°♌♌37'06	-0°56'55	minimum elong		-5256 Jul 02 j 16:23	29°♌04'48	0°44'48
minimum elong	-5261 Jan 08 j 03:33	9°♌♌37'04	0°57'11	max. Earth dist.		-5256 Jul 01 j 17:13	28°♌52'04	6.36512 AU
max. Earth dist.	-5261 Jan 09 j 09:52	9°♌♌55'04	6.02907 AU			-5256 Jul 06 j 20:40	0°♌♌	
morning rise	-5261 Jan 21 j 12:01	12°♌♌46'58		morning rise		-5256 Jul 15 j 17:59	1°♌♌57'03	
	-5261 Apr 19 j 03:22	0°♌♌		retrograde		-5256 Nov 13 j 02:56	19°♌♌03'41	
retrograde	-5261 Jun 02 j 13:44	3°♌♌00'15		opposition		-5255 Jan 12 j 05:41	14°♌♌10'34	1°31'05
	-5261 Jul 16 j 21:32	30°♌♌♌		min. Earth dist.		-5255 Jan 13 j 02:25	14°♌♌03'52	4.37833 AU
opposition	-5261 Aug 01 j 16:07	27°♌♌56'05	-1°51'02	direct		-5255 Mar 15 j 15:39	9°♌♌07'49	
min. Earth dist.	-5261 Jul 31 j 15:19	28°♌♌04'27	4.02887 AU	evening set		-5255 Jul 21 j 07:14	27°♌♌05'37	
direct	-5261 Sep 28 j 17:56	23°♌♌01'04		max. Earth dist.		-5255 Aug 01 j 15:16	29°♌♌35'26	6.37653 AU
	-5261 Dec 05 j 17:16	0°♌♌						
evening set	-5260 Jan 31 j 14:30	12°♌♌14'43		conjunction		-5255 Aug 03 j 02:47	29°♌♌55'04	1°16'31
				minimum elong		-5255 Aug 03 j 02:44	29°♌♌55'03	1°16'49
conjunction	-5260 Feb 14 j 02:27	15°♌♌25'07	-1°23'35			-5255 Aug 03 j 11:41	0°♌♌	
minimum elong	-5260 Feb 14 j 02:26	15°♌♌25'06	1°23'52	morning rise		-5255 Aug 15 j 19:07	2°♌♌43'03	
max. Earth dist.	-5260 Feb 15 j 20:08	15°♌♌49'38	6.04212 AU	retrograde		-5255 Dec 14 j 12:01	19°♌♌52'11	
morning rise	-5260 Feb 27 j 17:29	18°♌♌36'56		opposition		-5254 Feb 13 j 03:10	15°♌♌00'39	2°03'30
	-5260 Apr 20 j 05:09	0°♌♌		min. Earth dist.		-5254 Feb 14 j 06:59	14°♌♌51'47	4.36345 AU
retrograde	-5260 Jul 07 j 13:49	8°♌♌34'13		direct		-5254 Apr 16 j 18:08	10°♌♌00'07	
min. Earth dist.	-5260 Sep 04 j 01:13	3°♌♌38'25	4.07209 AU	evening set		-5254 Aug 21 j 11:01	27°♌♌59'15	
opposition	-5260 Sep 05 j 04:35	3°♌♌29'04	-2°07'19			-5254 Aug 30 j 11:13	0°♌♌	
	-5260 Oct 03 j 15:06	30°♌♌♌		max. Earth dist.		-5254 Sep 01 j 07:59	0°♌♌25'05	6.33527 AU
direct	-5260 Nov 02 j 10:09	28°♌♌30'46						
	-5260 Dec 02 j 10:31	0°♌♌		conjunction		-5254 Sep 02 j 23:58	0°♌♌47'30	1°26'47
	-5259 Feb 25 j 01:03	15°♌♌		minimum elong		-5254 Sep 02 j 23:59	0°♌♌47'30	1°27'04
evening set	-5259 Mar 08 j 14:04	17°♌♌37'36		morning rise		-5254 Sep 15 j 11:12	3°♌♌34'58	
						-5254 Nov 10 j 18:03	15°♌♌	
conjunction	-5259 Mar 22 j 07:18	20°♌♌47'09	-1°19'08	retrograde		-5253 Jan 16 j 00:30	21°♌♌10'14	
minimum elong	-5259 Mar 22 j 07:22	20°♌♌47'11	1°19'20	opposition		-5253 Mar 18 j 01:08	16°♌♌18'20	2°01'00
max. Earth dist.	-5259 Mar 23 j 22:48	21°♌♌09'56	6.11115 AU	min. Earth dist.		-5253 Mar 19 j 04:10	16°♌♌09'45	4.29877 AU
morning rise	-5259 Apr 05 j 01:39	23°♌♌57'07				-5253 Mar 28 j 10:37	15°♌♌♌	
	-5259 May 02 j 05:52	0°♌♌		direct		-5253 May 19 j 04:44	11°♌♌20'35	
retrograde	-5259 Aug 11 j 00:09	13°♌♌07'38				-5253 Jul 08 j 15:13	15°♌♌	
min. Earth dist.	-5259 Oct 08 j 11:47	8°♌♌10'46	4.15928 AU	evening set		-5253 Sep 21 j 16:29	29°♌♌30'23	
opposition	-5259 Oct 09 j 07:15	8°♌♌04'07	-1°37'34			-5253 Sep 23 j 20:37	0°♌♌	
direct	-5259 Dec 07 j 10:31	3°♌♌02'40		max. Earth dist.		-5253 Oct 02 j 21:27	2°♌♌03'45	6.25244 AU
evening set	-5258 Apr 13 j 17:49	21°♌♌50'02						
				conjunction		-5253 Oct 04 j 04:22	2°♌♌21'26	1°11'46
conjunction	-5258 Apr 27 j 12:02	24°♌♌55'51	-0°47'06	minimum elong		-5253 Oct 04 j 04:25	2°♌♌21'28	1°11'55
minimum elong	-5258 Apr 27 j 12:06	24°♌♌55'53	0°47'10	morning rise		-5253 Oct 16 j 15:51	5°♌♌12'31	
max. Earth dist.	-5258 Apr 28 j 09:35	25°♌♌08'00	6.20981 AU	retrograde		-5252 Feb 19 j 02:25	23°♌♌32'16	
morning rise	-5258 May 11 j 05:26	28°♌♌01'03		opposition		-5252 Apr 20 j 07:45	18°♌♌38'13	1°21'26

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 14

Attention, astronomical year style is used: The year -5252 in astronomical counting style is the year 5253 BCE in historical counting style.

min. Earth dist.	-5252 Apr 21 j 00:55	18° \mathbb{M} 32'44	4.20253 AU	conjunction	-5246 May 02 j 10:46	29° \mathbb{H} 43'33	-0°41'08
direct	-5252 Jun 20 j 09:10	13° \mathbb{M} 43'16		minimum elong	-5246 May 02 j 10:49	29° \mathbb{H} 43'35	0°41'09
	-5252 Oct 13 j 07:25	0° \mathbb{L}		max. Earth dist.	-5246 May 03 j 05:33	29° \mathbb{H} 54'07	6.22818 AU
evening set	-5252 Oct 22 j 19:24	2° \mathbb{L} 11'03			-5246 May 03 j 16:02	0° \mathbb{Y}	
				morning rise	-5246 May 16 j 03:26	2° \mathbb{Y} 47'39	
conjunction	-5252 Nov 04 j 10:57	5° \mathbb{L} 07'56	0°33'52	retrograde	-5246 Sep 17 j 02:26	20° \mathbb{Y} 52'58	
minimum elong	-5252 Nov 04 j 11:00	5° \mathbb{L} 07'58	0°33'53	opposition	-5246 Nov 15 j 11:24	15° \mathbb{Y} 53'25	-0°27'08
max. Earth dist.	-5252 Nov 03 j 20:31	4° \mathbb{L} 59'30	6.15173 AU	min. Earth dist.	-5246 Nov 15 j 07:04	15° \mathbb{Y} 54'52	4.27721 AU
morning rise	-5252 Nov 17 j 04:10	8° \mathbb{L} 05'50		direct	-5245 Jan 15 j 02:31	10° \mathbb{Y} 49'48	
retrograde	-5251 Mar 25 j 21:02	27° \mathbb{L} 18'34		asc. node	-5245 Apr 17 j 23:10	21° \mathbb{Y} 45'37	
opposition	-5251 May 25 j 22:35	22° \mathbb{L} 20'57	0°13'03	evening set	-5245 May 23 j 01:42	29° \mathbb{Y} 09'28	
min. Earth dist.	-5251 May 25 j 23:57	22° \mathbb{L} 20'30	4.10418 AU		-5245 May 26 j 21:39	0° \mathbb{B}	
direct	-5251 Jul 24 j 16:19	17° \mathbb{L} 27'45					
desc. node	-5251 Aug 01 j 10:32	17° \mathbb{L} 33'44		conjunction	-5245 Jun 05 j 14:19	2° \mathbb{B} 08'24	0°05'52
	-5251 Oct 29 j 00:08	0° \mathbb{M}		minimum elong	-5245 Jun 05 j 14:18	2° \mathbb{B} 08'23	0°06'00
evening set	-5251 Nov 25 j 12:01	6° \mathbb{M} 17'09		behind sun begin	-5245 Jun 05 j 06:29	2° \mathbb{B} 04'05	
				behind sun end	-5245 Jun 05 j 22:08	2° \mathbb{B} 12'42	
conjunction	-5251 Dec 08 j 10:36	9° \mathbb{M} 20'49	-0°16'40	max. Earth dist.	-5245 Jun 05 j 09:34	2° \mathbb{B} 05'48	6.32030 AU
minimum elong	-5251 Dec 08 j 10:34	9° \mathbb{M} 20'48	0°16'51	morning rise	-5245 Jun 19 j 00:01	5° \mathbb{B} 05'48	
max. Earth dist.	-5251 Dec 08 j 21:02	9° \mathbb{M} 26'59	6.06530 AU		-5245 Aug 06 j 09:53	15° \mathbb{B}	
morning rise	-5251 Dec 21 j 11:56	12° \mathbb{M} 26'07		retrograde	-5245 Oct 18 j 08:03	22° \mathbb{B} 28'39	
	-5250 Jan 01 j 11:49	15° \mathbb{M}		opposition	-5245 Dec 17 j 01:53	17° \mathbb{B} 32'55	0°41'45
	-5250 Mar 23 j 02:02	0° \mathbb{J}		min. Earth dist.	-5245 Dec 17 j 11:47	17° \mathbb{B} 29'40	4.35335 AU
retrograde	-5250 May 01 j 18:41	2° \mathbb{J} 23'36			-5244 Jan 06 j 10:39	15° \mathbb{R} \mathbb{B}	
	-5250 Jun 10 j 10:56	30° \mathbb{R} \mathbb{M}		direct	-5244 Feb 16 j 20:06	12° \mathbb{B} 29'07	
opposition	-5250 Jul 01 j 09:18	27° \mathbb{M} 22'07	-1°02'42		-5244 Mar 29 j 14:59	15° \mathbb{B}	
min. Earth dist.	-5250 Jun 30 j 18:14	27° \mathbb{M} 27'07	4.03820 AU		-5244 Jun 21 j 09:58	0° \mathbb{I}	
direct	-5250 Aug 28 j 23:16	22° \mathbb{M} 28'54		evening set	-5244 Jun 23 j 20:58	0° \mathbb{I} 32'05	
	-5250 Nov 07 j 21:09	0° \mathbb{J}		max. Earth dist.	-5244 Jul 05 j 22:51	3° \mathbb{I} 10'57	6.37431 AU
evening set	-5250 Dec 31 j 00:37	11° \mathbb{J} 36'42					
				conjunction	-5244 Jul 07 j 00:28	3° \mathbb{I} 25'02	0°49'54
conjunction	-5249 Jan 13 j 06:39	14° \mathbb{J} 45'22	-1°02'17	minimum elong	-5244 Jul 07 j 00:24	3° \mathbb{I} 25'00	0°50'09
minimum elong	-5249 Jan 13 j 06:35	14° \mathbb{J} 45'20	1°02'34	morning rise	-5244 Jul 20 j 00:33	6° \mathbb{I} 16'17	
max. Earth dist.	-5249 Jan 14 j 14:04	15° \mathbb{J} 04'02	6.02508 AU	retrograde	-5244 Nov 17 j 08:00	23° \mathbb{I} 20'25	
morning rise	-5249 Jan 26 j 16:15	17° \mathbb{J} 55'53		opposition	-5243 Jan 16 j 12:22	18° \mathbb{I} 27'38	1°37'09
	-5249 Mar 23 j 04:33	0° \mathbb{Z}		min. Earth dist.	-5243 Jan 17 j 11:20	18° \mathbb{I} 20'13	4.38281 AU
retrograde	-5249 Jun 07 j 16:46	8° \mathbb{Z} 10'09		direct	-5243 Mar 20 j 00:54	13° \mathbb{I} 25'04	
opposition	-5249 Aug 06 j 17:50	3° \mathbb{Z} 05'44	-1°56'13		-5243 Jul 19 j 07:20	0° \mathbb{G}	
min. Earth dist.	-5249 Aug 05 j 15:25	3° \mathbb{Z} 14'41	4.02967 AU	evening set	-5243 Jul 25 j 12:34	1° \mathbb{G} 21'27	
	-5249 Aug 31 j 14:06	30° \mathbb{R} \mathbb{J}		max. Earth dist.	-5243 Aug 05 j 16:07	3° \mathbb{G} 48'59	6.37556 AU
direct	-5249 Oct 03 j 18:32	28° \mathbb{J} 10'21					
	-5249 Nov 05 j 22:14	0° \mathbb{Z}		conjunction	-5243 Aug 07 j 06:54	4° \mathbb{G} 10'26	1°19'16
evening set	-5248 Feb 05 j 20:05	17° \mathbb{Z} 24'48		minimum elong	-5243 Aug 07 j 06:52	4° \mathbb{G} 10'25	1°19'33
				morning rise	-5243 Aug 19 j 22:21	6° \mathbb{G} 58'02	
conjunction	-5248 Feb 19 j 09:07	20° \mathbb{Z} 35'22	-1°24'54	retrograde	-5243 Dec 18 j 19:15	24° \mathbb{G} 09'02	
minimum elong	-5248 Feb 19 j 09:06	20° \mathbb{Z} 35'21	1°25'10	opposition	-5242 Feb 17 j 11:38	19° \mathbb{G} 17'31	2°05'17
max. Earth dist.	-5248 Feb 21 j 05:08	21° \mathbb{Z} 01'13	6.04787 AU	min. Earth dist.	-5242 Feb 18 j 16:29	19° \mathbb{G} 08'19	4.35720 AU
morning rise	-5248 Mar 04 j 00:41	23° \mathbb{Z} 47'10		direct	-5242 Apr 21 j 01:48	14° \mathbb{G} 17'12	
	-5248 Mar 31 j 10:58	0° \mathbb{A}			-5242 Aug 15 j 06:16	0° \mathbb{Q}	
retrograde	-5248 Jul 12 j 14:19	13° \mathbb{A} 39'43		evening set	-5242 Aug 25 j 15:26	2° \mathbb{Q} 17'37	
min. Earth dist.	-5248 Sep 09 j 00:17	8° \mathbb{A} 43'46	4.08242 AU	max. Earth dist.	-5242 Sep 05 j 12:48	4° \mathbb{Q} 44'01	6.32417 AU
opposition	-5248 Sep 10 j 02:48	8° \mathbb{A} 34'42	-2°05'42				
direct	-5248 Nov 07 j 10:52	3° \mathbb{A} 36'01		conjunction	-5242 Sep 07 j 04:05	5° \mathbb{Q} 06'07	1°26'14
	-5247 Feb 06 j 22:59	15° \mathbb{A}		minimum elong	-5242 Sep 07 j 04:06	5° \mathbb{Q} 06'07	1°26'29
evening set	-5247 Mar 13 j 18:28	22° \mathbb{A} 40'26		morning rise	-5242 Sep 19 j 14:53	7° \mathbb{Q} 53'53	
					-5242 Oct 22 j 15:46	15° \mathbb{Q}	
conjunction	-5247 Mar 27 j 12:03	25° \mathbb{A} 49'32	-1°16'02	retrograde	-5241 Jan 20 j 12:56	25° \mathbb{Q} 35'04	
minimum elong	-5247 Mar 27 j 12:06	25° \mathbb{A} 49'35	1°16'12	opposition	-5241 Mar 22 j 14:13	20° \mathbb{Q} 43'00	1°57'46
max. Earth dist.	-5247 Mar 29 j 02:29	26° \mathbb{A} 11'37	6.12541 AU	min. Earth dist.	-5241 Mar 23 j 17:06	20° \mathbb{Q} 34'28	4.28343 AU
morning rise	-5247 Apr 10 j 06:38	28° \mathbb{A} 58'57		direct	-5241 May 23 j 14:22	15° \mathbb{Q} 45'37	
	-5247 Apr 14 j 18:07	0° \mathbb{H}			-5241 Sep 08 j 04:36	0° \mathbb{M}	
retrograde	-5247 Aug 15 j 15:35	18° \mathbb{H} 00'48		evening set	-5241 Sep 25 j 23:42	3° \mathbb{M} 58'59	
opposition	-5247 Oct 13 j 23:53	12° \mathbb{H} 57'40	-1°30'22	max. Earth dist.	-5241 Oct 07 j 04:43	6° \mathbb{M} 33'03	6.23407 AU
min. Earth dist.	-5247 Oct 13 j 04:38	13° \mathbb{H} 04'13	4.17614 AU				
direct	-5247 Dec 12 j 06:43	7° \mathbb{H} 55'52		conjunction	-5241 Oct 08 j 11:46	6° \mathbb{M} 50'53	1°07'48
evening set	-5246 Apr 18 j 16:56	26° \mathbb{H} 38'41		minimum elong	-5241 Oct 08 j 11:50	6° \mathbb{M} 50'55	1°07'55
				morning rise	-5241 Oct 21 j 00:01	9° \mathbb{M} 43'01	

Attention, astronomical year style is used: The year -5240 in astronomical counting style is the year 5241 BCE in historical counting style.

retrograde	-5240 Feb 23 j 23:15	28° \mathbb{M} 11'50	min. Earth dist.	-5235 Oct 17 j 23:54	17° \mathbb{H} 55'52	4.19301 AU
opposition	-5240 Apr 25 j 03:19	23° \mathbb{M} 17'19	1°13'27	direct	-5235 Dec 17 j 05:08	12° \mathbb{H} 48'04
min. Earth dist.	-5240 Apr 25 j 18:52	23° \mathbb{M} 12'20	4.18226 AU		-5234 Apr 17 j 03:29	0° \mathbb{Y}
direct	-5240 Jun 24 j 23:59	18° \mathbb{M} 22'38		evening set	-5234 Apr 23 j 15:57	1° \mathbb{Y} 26'37
	-5240 Sep 26 j 11:51	0° \mathbb{L}				
evening set	-5240 Oct 27 j 08:46	6° \mathbb{L} 55'38		conjunction	-5234 May 07 j 09:25	4° \mathbb{Y} 30'39 -0°34'51
				minimum elong	-5234 May 07 j 09:28	4° \mathbb{Y} 30'41 0°34'50
conjunction	-5240 Nov 09 j 01:26	9° \mathbb{L} 53'49	0°27'19	max. Earth dist.	-5234 May 08 j 01:51	4° \mathbb{Y} 39'51 6.24468 AU
minimum elong	-5240 Nov 09 j 01:28	9° \mathbb{L} 53'50	0°27'17	morning rise	-5234 May 21 j 01:17	7° \mathbb{Y} 33'44
max. Earth dist.	-5240 Nov 08 j 15:04	9° \mathbb{L} 47'45	6.13162 AU	retrograde	-5234 Sep 21 j 12:36	25° \mathbb{Y} 31'14
morning rise	-5240 Nov 21 j 19:40	12° \mathbb{L} 53'04		opposition	-5234 Nov 19 j 23:20	20° \mathbb{Y} 32'16 -0°17'15
	-5239 Feb 20 j 07:50	0° \mathbb{M}		min. Earth dist.	-5234 Nov 19 j 20:18	20° \mathbb{Y} 33'17 4.29194 AU
retrograde	-5239 Mar 31 j 00:42	2° \mathbb{M} 15'23		direct	-5233 Jan 19 j 17:47	15° \mathbb{Y} 28'34
	-5239 May 08 j 21:45	30° \mathbb{R} \mathbb{L}		asc. node	-5233 Feb 25 j 04:45	17° \mathbb{Y} 27'45
opposition	-5239 May 31 j 00:09	27° \mathbb{L} 17'16	0°02'18		-5233 May 10 j 09:29	0° \mathbb{B}
min. Earth dist.	-5239 May 30 j 23:14	27° \mathbb{L} 17'34	4.08604 AU	evening set	-5233 May 27 j 18:36	3° \mathbb{B} 44'50
desc. node	-5239 Jun 11 j 18:12	25° \mathbb{L} 46'58				
direct	-5239 Jul 29 j 12:44	22° \mathbb{L} 24'15		conjunction	-5233 Jun 10 j 05:57	6° \mathbb{B} 42'47 0°12'33
	-5239 Oct 09 j 12:52	0° \mathbb{M}		minimum elong	-5233 Jun 10 j 05:56	6° \mathbb{B} 42'46 0°12'42
evening set	-5239 Nov 30 j 09:54	11° \mathbb{M} 18'53		behind sun begin	-5233 Jun 10 j 00:51	6° \mathbb{B} 39'59
				behind sun end	-5233 Jun 10 j 11:00	6° \mathbb{B} 45'33
conjunction	-5239 Dec 13 j 09:29	14° \mathbb{M} 23'40	-0°23'49	max. Earth dist.	-5233 Jun 09 j 20:56	6° \mathbb{B} 37'49 6.33214 AU
minimum elong	-5239 Dec 13 j 09:27	14° \mathbb{M} 23'39	0°24'00	morning rise	-5233 Jun 23 j 14:27	9° \mathbb{B} 39'11
max. Earth dist.	-5239 Dec 13 j 22:29	14° \mathbb{M} 31'24	6.05073 AU		-5233 Jul 18 j 15:12	15° \mathbb{B}
	-5239 Dec 15 j 22:37	15° \mathbb{M}		retrograde	-5233 Oct 22 j 17:44	26° \mathbb{B} 57'35
morning rise	-5239 Dec 26 j 12:16	17° \mathbb{M} 30'13		opposition	-5233 Dec 21 j 11:51	22° \mathbb{B} 02'25 0°50'44
	-5238 Feb 22 j 10:10	0° \mathbb{X}		min. Earth dist.	-5233 Dec 22 j 00:49	21° \mathbb{B} 58'10 4.36158 AU
retrograde	-5238 May 07 j 01:04	7° \mathbb{X} 34'09		direct	-5232 Feb 21 j 10:17	16° \mathbb{B} 58'43
opposition	-5238 Jul 06 j 13:58	2° \mathbb{X} 32'05	-1°12'17		-5232 Jun 04 j 21:13	0° \mathbb{H}
min. Earth dist.	-5238 Jul 05 j 19:36	2° \mathbb{X} 38'12	4.02886 AU	evening set	-5232 Jun 28 j 08:59	4° \mathbb{H} 59'58
	-5238 Jul 26 j 15:34	30° \mathbb{R} \mathbb{M}		max. Earth dist.	-5232 Jul 10 j 07:02	7° \mathbb{H} 36'44 6.37812 AU
direct	-5238 Sep 03 j 00:10	27° \mathbb{M} 38'40				
	-5238 Oct 10 j 22:16	0° \mathbb{X}		conjunction	-5232 Jul 11 j 11:12	7° \mathbb{H} 52'13 0°55'08
evening set	-5237 Jan 05 j 05:23	16° \mathbb{X} 49'39		minimum elong	-5232 Jul 11 j 11:08	7° \mathbb{H} 52'11 0°55'24
				morning rise	-5232 Jul 24 j 09:53	10° \mathbb{H} 42'45
conjunction	-5237 Jan 18 j 12:41	19° \mathbb{X} 58'59	-1°07'13	retrograde	-5232 Nov 21 j 16:25	27° \mathbb{H} 46'21
minimum elong	-5237 Jan 18 j 12:37	19° \mathbb{X} 58'56	1°07'31	opposition	-5231 Jan 20 j 22:50	22° \mathbb{H} 53'53 1°43'00
max. Earth dist.	-5237 Jan 20 j 00:49	20° \mathbb{X} 20'27	6.02170 AU	min. Earth dist.	-5231 Jan 21 j 22:35	22° \mathbb{H} 46'14 4.38234 AU
morning rise	-5237 Jan 31 j 23:10	23° \mathbb{X} 10'02		direct	-5231 Mar 24 j 11:21	17° \mathbb{H} 51'34
	-5237 Mar 02 j 21:18	0° \mathbb{Z}			-5231 Jul 02 j 16:16	0° \mathbb{G}
retrograde	-5237 Jun 12 j 23:22	13° \mathbb{Z} 24'18		evening set	-5231 Jul 29 j 21:58	5° \mathbb{G} 48'12
opposition	-5237 Aug 11 j 21:30	8° \mathbb{Z} 19'33	-2°00'29	max. Earth dist.	-5231 Aug 10 j 00:00	8° \mathbb{G} 15'10 6.37074 AU
min. Earth dist.	-5237 Aug 10 j 18:35	8° \mathbb{Z} 28'41	4.03262 AU			
direct	-5237 Oct 08 j 22:19	3° \mathbb{Z} 23'44		conjunction	-5231 Aug 11 j 15:15	8° \mathbb{G} 36'55 1°21'42
evening set	-5236 Feb 11 j 03:34	22° \mathbb{Z} 37'42		minimum elong	-5231 Aug 11 j 15:12	8° \mathbb{G} 36'54 1°22'00
				morning rise	-5231 Aug 24 j 05:43	11° \mathbb{G} 24'20
conjunction	-5236 Feb 24 j 17:18	25° \mathbb{Z} 48'12	-1°25'33	retrograde	-5231 Dec 23 j 08:39	28° \mathbb{G} 38'34
minimum elong	-5236 Feb 24 j 17:18	25° \mathbb{Z} 48'12	1°25'49	opposition	-5230 Feb 22 j 01:36	23° \mathbb{G} 47'11 2°06'28
max. Earth dist.	-5236 Feb 26 j 14:00	26° \mathbb{Z} 14'22	6.05635 AU	min. Earth dist.	-5230 Feb 23 j 07:23	23° \mathbb{G} 37'42 4.34840 AU
morning rise	-5236 Mar 09 j 09:37	28° \mathbb{Z} 59'51		direct	-5230 Apr 25 j 14:56	18° \mathbb{G} 47'18
	-5236 Mar 13 j 17:30	0° \mathbb{A}			-5230 Jul 29 j 06:49	0° \mathbb{Q}
	-5236 May 28 j 20:25	15° \mathbb{A}		evening set	-5230 Aug 30 j 00:44	6° \mathbb{Q} 49'31
retrograde	-5236 Jul 17 j 12:39	18° \mathbb{A} 45'57		max. Earth dist.	-5230 Sep 09 j 20:57	9° \mathbb{Q} 15'46 6.31199 AU
	-5236 Sep 05 j 07:34	15° \mathbb{R} \mathbb{A}				
min. Earth dist.	-5236 Sep 13 j 22:08	13° \mathbb{A} 50'16	4.09532 AU	conjunction	-5230 Sep 11 j 12:56	9° \mathbb{Q} 38'20 1°25'09
opposition	-5236 Sep 15 j 01:16	13° \mathbb{A} 41'00	-2°03'05	minimum elong	-5230 Sep 11 j 12:58	9° \mathbb{Q} 38'20 1°25'23
direct	-5236 Nov 12 j 11:12	8° \mathbb{A} 41'48		morning rise	-5230 Sep 23 j 23:45	12° \mathbb{Q} 26'35
	-5235 Jan 16 j 16:31	15° \mathbb{A}			-5230 Oct 05 j 11:51	15° \mathbb{Q}
evening set	-5235 Mar 18 j 23:22	27° \mathbb{A} 42'54			-5229 Jan 13 j 00:04	0° \mathbb{M}
	-5235 Mar 28 j 23:24	0° \mathbb{H}		retrograde	-5229 Jan 25 j 07:22	0° \mathbb{M} 14'11
					-5229 Feb 06 j 14:45	30° \mathbb{R} \mathbb{Q}
conjunction	-5235 Apr 01 j 17:12	0° \mathbb{H} 51'26	-1°12'21	opposition	-5229 Mar 27 j 09:14	25° \mathbb{Q} 21'53 1°53'38
minimum elong	-5235 Apr 01 j 17:16	0° \mathbb{H} 51'28	1°12'31	min. Earth dist.	-5229 Mar 28 j 10:36	25° \mathbb{Q} 13'48 4.26874 AU
max. Earth dist.	-5235 Apr 03 j 05:13	1° \mathbb{H} 12'03	6.14131 AU	direct	-5229 May 28 j 05:17	20° \mathbb{Q} 24'56
morning rise	-5235 Apr 15 j 11:46	4° \mathbb{H} 00'06			-5229 Aug 21 j 07:09	0° \mathbb{M}
retrograde	-5235 Aug 20 j 09:01	22° \mathbb{H} 52'56		evening set	-5229 Sep 30 j 11:56	8° \mathbb{M} 41'21
opposition	-5235 Oct 18 j 16:29	17° \mathbb{H} 50'13	-1°22'32	max. Earth dist.	-5229 Oct 11 j 21:16	11° \mathbb{M} 18'23 6.21844 AU

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 16

Attention, astronomical year style is used: The year -5229 in astronomical counting style is the year 5230 BCE in historical counting style.

conjunction	-5229 Oct 13 j 00:32	11° \mathbb{M} 34'07	1°03'13	morning rise	-5223 Apr 20 j 12:12	8° \mathbb{H} 50'52	
minimum elong	-5229 Oct 13 j 00:36	11° \mathbb{M} 34'09	1°03'20	retrograde	-5223 Aug 24 j 21:30	27° \mathbb{H} 35'22	
morning rise	-5229 Oct 25 j 13:15	14° \mathbb{M} 27'10		opposition	-5223 Oct 23 j 05:17	22° \mathbb{H} 33'07	-1°14'27
	-5228 Jan 14 j 10:30	0° \mathbb{L}		min. Earth dist.	-5223 Oct 22 j 13:59	22° \mathbb{H} 38'19	4.20772 AU
retrograde	-5228 Feb 29 j 00:08	3° \mathbb{L} 03'54		direct	-5223 Dec 21 j 20:57	17° \mathbb{H} 30'39	
	-5228 Apr 15 j 08:06	30° \mathbb{R} \mathbb{M}			-5222 Mar 31 j 04:47	0° \mathbb{Y}	
opposition	-5228 Apr 30 j 03:43	28° \mathbb{M} 09'01	1°04'35	evening set	-5222 Apr 28 j 11:20	6° \mathbb{Y} 05'54	
min. Earth dist.	-5228 Apr 30 j 17:29	28° \mathbb{M} 04'36	4.16693 AU				
direct	-5228 Jun 29 j 20:12	23° \mathbb{M} 14'44		conjunction	-5222 May 12 j 04:08	9° \mathbb{Y} 09'09	-0°28'32
	-5228 Sep 06 j 08:43	0° \mathbb{L}		minimum elong	-5222 May 12 j 04:11	9° \mathbb{Y} 09'10	0°28'30
evening set	-5228 Nov 01 j 02:20	11° \mathbb{L} 51'01		max. Earth dist.	-5222 May 12 j 15:14	9° \mathbb{Y} 15'20	6.25772 AU
				morning rise	-5222 May 25 j 19:24	12° \mathbb{Y} 11'24	
conjunction	-5228 Nov 13 j 19:44	14° \mathbb{L} 50'09	0°20'20		-5222 Sep 20 j 17:02	0° \mathbb{B}	
minimum elong	-5228 Nov 13 j 19:46	14° \mathbb{L} 50'10	0°20'17	retrograde	-5222 Sep 25 j 22:12	0° \mathbb{B} 02'43	
max. Earth dist.	-5228 Nov 13 j 11:48	14° \mathbb{L} 45'29	6.11816 AU		-5222 Oct 01 j 02:49	30° \mathbb{R} \mathbb{Y}	
morning rise	-5228 Nov 26 j 15:16	17° \mathbb{L} 50'32		opposition	-5222 Nov 24 j 08:54	25° \mathbb{Y} 04'17	-0°07'32
	-5227 Jan 22 j 13:44	0° \mathbb{M}		min. Earth dist.	-5222 Nov 24 j 09:09	25° \mathbb{Y} 04'12	4.30224 AU
retrograde	-5227 Apr 05 j 04:54	7° \mathbb{M} 19'45		asc. node	-5221 Jan 05 j 18:29	20° \mathbb{Y} 33'02	
desc. node	-5227 Apr 21 j 09:10	6° \mathbb{M} 55'07		direct	-5221 Jan 24 j 08:12	20° \mathbb{Y} 00'26	
opposition	-5227 Jun 05 j 04:11	2° \mathbb{M} 21'02	-0°08'45		-5221 Apr 22 j 19:01	0° \mathbb{B}	
min. Earth dist.	-5227 Jun 04 j 23:34	2° \mathbb{M} 22'32	4.07584 AU	evening set	-5221 Jun 01 j 09:06	8° \mathbb{B} 14'47	
	-5227 Jun 23 j 23:39	30° \mathbb{R} \mathbb{L}					
direct	-5227 Aug 03 j 12:12	27° \mathbb{L} 28'06		conjunction	-5221 Jun 14 j 19:32	11° \mathbb{B} 12'02	0°19'01
	-5227 Sep 12 j 08:02	0° \mathbb{M}		minimum elong	-5221 Jun 14 j 19:30	11° \mathbb{B} 12'01	0°19'11
	-5227 Nov 29 j 08:37	15° \mathbb{M}		max. Earth dist.	-5221 Jun 14 j 08:15	11° \mathbb{B} 05'49	6.33902 AU
evening set	-5227 Dec 05 j 09:12	16° \mathbb{M} 25'01		morning rise	-5221 Jun 28 j 02:40	14° \mathbb{B} 07'38	
					-5221 Jul 02 j 02:35	15° \mathbb{B}	
conjunction	-5227 Dec 18 j 09:58	19° \mathbb{M} 30'32	-0°30'52		-5221 Sep 27 j 08:44	0° \mathbb{I}	
minimum elong	-5227 Dec 18 j 09:55	19° \mathbb{M} 30'30	0°31'04	retrograde	-5221 Oct 27 j 00:40	1° \mathbb{I} 23'21	
max. Earth dist.	-5227 Dec 19 j 04:21	19° \mathbb{M} 41'27	6.04481 AU		-5221 Nov 25 j 16:40	30° \mathbb{R} \mathbb{B}	
morning rise	-5227 Dec 31 j 13:43	22° \mathbb{M} 37'47		opposition	-5221 Dec 25 j 20:50	26° \mathbb{B} 28'38	0°59'16
	-5226 Feb 01 j 22:45	0° \mathbb{Z}		min. Earth dist.	-5221 Dec 26 j 10:47	26° \mathbb{B} 24'04	4.36486 AU
retrograde	-5226 May 12 j 07:46	12° \mathbb{Z} 44'31		direct	-5220 Feb 25 j 20:20	21° \mathbb{B} 25'05	
opposition	-5226 Jul 11 j 18:06	7° \mathbb{Z} 41'55	-1°21'16		-5220 May 17 j 16:31	0° \mathbb{I}	
min. Earth dist.	-5226 Jul 10 j 22:33	7° \mathbb{Z} 48'27	4.02802 AU	evening set	-5220 Jul 02 j 20:12	9° \mathbb{I} 26'04	
direct	-5226 Sep 08 j 02:48	2° \mathbb{Z} 48'16					
evening set	-5225 Jan 10 j 09:01	21° \mathbb{Z} 59'24		conjunction	-5220 Jul 15 j 21:00	12° \mathbb{I} 17'47	0°59'59
				minimum elong	-5220 Jul 15 j 20:56	12° \mathbb{I} 17'45	1°00'14
conjunction	-5225 Jan 23 j 17:07	25° \mathbb{Z} 08'54	-1°11'34	max. Earth dist.	-5220 Jul 14 j 13:58	12° \mathbb{I} 00'42	6.37748 AU
minimum elong	-5225 Jan 23 j 17:03	25° \mathbb{Z} 08'52	1°11'51	morning rise	-5220 Jul 28 j 18:34	15° \mathbb{I} 07'51	
max. Earth dist.	-5225 Jan 25 j 07:01	25° \mathbb{Z} 31'22	6.02567 AU		-5220 Oct 19 j 03:00	0° \mathbb{E}	
morning rise	-5225 Feb 06 j 04:37	28° \mathbb{Z} 20'07		retrograde	-5220 Nov 26 j 03:44	2° \mathbb{E} 12'28	
	-5225 Feb 13 j 07:22	0° \mathbb{Z}			-5219 Jan 03 j 10:51	30° \mathbb{R} \mathbb{I}	
retrograde	-5225 Jun 17 j 23:28	18° \mathbb{Z} 31'15		opposition	-5219 Jan 25 j 10:13	27° \mathbb{I} 20'16	1°48'13
opposition	-5225 Aug 16 j 21:27	13° \mathbb{Z} 26'17	-2°03'41	min. Earth dist.	-5219 Jan 26 j 11:58	27° \mathbb{I} 12'00	4.37806 AU
min. Earth dist.	-5225 Aug 15 j 17:05	13° \mathbb{Z} 35'55	4.04124 AU	direct	-5219 Mar 29 j 00:21	22° \mathbb{I} 18'16	
direct	-5225 Oct 13 j 21:56	8° \mathbb{Z} 30'00			-5219 Jun 13 j 21:52	0° \mathbb{E}	
evening set	-5224 Feb 16 j 07:27	27° \mathbb{Z} 41'48		evening set	-5219 Aug 03 j 07:37	10° \mathbb{E} 15'58	
	-5224 Feb 26 j 04:46	0° \mathbb{A}		max. Earth dist.	-5219 Aug 14 j 08:18	12° \mathbb{E} 42'32	6.36304 AU
conjunction	-5224 Feb 29 j 21:52	0° \mathbb{A} 52'02	-1°25'31	conjunction	-5219 Aug 16 j 00:02	13° \mathbb{E} 04'36	1°23'39
minimum elong	-5224 Feb 29 j 21:53	0° \mathbb{A} 52'02	1°25'47	minimum elong	-5219 Aug 16 j 00:00	13° \mathbb{E} 04'35	1°23'57
max. Earth dist.	-5224 Mar 02 j 17:34	1° \mathbb{A} 17'32	6.06858 AU	morning rise	-5219 Aug 28 j 13:42	15° \mathbb{E} 52'00	
morning rise	-5224 Mar 14 j 14:39	4° \mathbb{A} 03'18			-5219 Nov 11 j 17:11	0° \mathbb{Q}	
	-5224 May 04 j 07:27	15° \mathbb{A}		retrograde	-5219 Dec 27 j 21:48	3° \mathbb{Q} 10'20	
retrograde	-5224 Jul 22 j 08:11	23° \mathbb{A} 42'00			-5218 Feb 13 j 03:57	30° \mathbb{R} \mathbb{E}	
opposition	-5224 Sep 19 j 19:34	18° \mathbb{A} 37'10	-1°59'39	opposition	-5218 Feb 26 j 16:51	28° \mathbb{E} 18'54	2°06'53
min. Earth dist.	-5224 Sep 18 j 18:21	18° \mathbb{A} 45'47	4.10964 AU	min. Earth dist.	-5218 Feb 27 j 21:28	28° \mathbb{E} 09'48	4.33808 AU
	-5224 Oct 19 j 15:24	15° \mathbb{R} \mathbb{A}		direct	-5218 Apr 30 j 03:19	23° \mathbb{E} 19'28	
direct	-5224 Nov 17 j 09:50	13° \mathbb{A} 37'27			-5218 Jul 09 j 14:18	0° \mathbb{Q}	
	-5224 Dec 16 j 09:35	15° \mathbb{A}		evening set	-5218 Sep 03 j 11:06	11° \mathbb{Q} 23'38	
	-5223 Mar 12 j 12:11	0° \mathbb{H}		max. Earth dist.	-5218 Sep 14 j 09:31	13° \mathbb{Q} 51'34	6.29997 AU
evening set	-5223 Mar 23 j 23:35	2° \mathbb{H} 34'56					
				conjunction	-5218 Sep 15 j 23:03	14° \mathbb{Q} 12'49	1°23'31
conjunction	-5223 Apr 06 j 17:47	5° \mathbb{H} 42'56	-1°08'18	minimum elong	-5218 Sep 15 j 23:05	14° \mathbb{Q} 12'50	1°23'43
minimum elong	-5223 Apr 06 j 17:51	5° \mathbb{H} 42'58	1°08'26		-5218 Sep 19 j 10:25	15° \mathbb{Q}	
max. Earth dist.	-5223 Apr 08 j 04:17	6° \mathbb{H} 02'36	6.15661 AU	morning rise	-5218 Sep 28 j 09:44	17° \mathbb{Q} 01'32	

Attention, astronomical year style is used: The year -5218 in astronomical counting style is the year 5219 BCE in historical counting style.

	-5218 Dec 02 j 12:29	0°♎		min. Earth dist.	-5212 Sep 23 j 12:35	23°≈40'13	4.12138 AU
retrograde	-5217 Jan 30 j 03:40	4°♎55'17		direct	-5212 Nov 22 j 05:20	18°≈31'45	
opposition	-5217 Apr 01 j 05:32	0°♎02'44	1°48'41		-5211 Feb 22 j 20:58	0°♐	
	-5217 Apr 01 j 14:08	30°♎♏		evening set	-5211 Mar 29 j 00:06	7°♐26'53	
min. Earth dist.	-5217 Apr 02 j 06:08	29°♏54'55	4.25567 AU				
direct	-5217 Jun 01 j 23:18	25°♏06'14		conjunction	-5211 Apr 11 j 18:18	10°♐34'24	-1°03'47
	-5217 Jul 30 j 11:06	0°♎		minimum elong	-5211 Apr 11 j 18:22	10°♐34'26	1°03'55
evening set	-5217 Oct 05 j 00:48	13°♎24'49		max. Earth dist.	-5211 Apr 13 j 00:20	10°♐51'29	6.16914 AU
				morning rise	-5211 Apr 25 j 12:46	13°♐41'46	
conjunction	-5217 Oct 17 j 13:46	16°♎18'18	0°58'11		-5211 Jul 22 j 01:53	0°♑	
minimum elong	-5217 Oct 17 j 13:50	16°♎18'20	0°58'17	retrograde	-5211 Aug 29 j 10:42	2°♑19'04	
max. Earth dist.	-5217 Oct 16 j 12:11	16°♎03'31	6.20545 AU		-5211 Oct 06 j 13:42	30°♎♐	
morning rise	-5217 Oct 30 j 03:20	19°♎12'15		opposition	-5211 Oct 27 j 18:21	27°♐17'17	-1°05'53
	-5217 Dec 19 j 20:33	0°♏		min. Earth dist.	-5211 Oct 27 j 05:36	27°♐21'36	4.21973 AU
retrograde	-5216 Mar 04 j 23:28	7°♏55'51		direct	-5211 Dec 26 j 14:29	22°♐14'29	
opposition	-5216 May 05 j 04:14	3°♏00'26	0°55'13		-5210 Mar 11 j 20:18	0°♑	
min. Earth dist.	-5216 May 05 j 14:36	2°♏57'06	4.15482 AU	evening set	-5210 May 03 j 07:15	10°♑47'25	
	-5216 May 30 j 10:07	30°♎♎					
direct	-5216 Jul 04 j 15:46	28°♎06'26		conjunction	-5210 May 16 j 23:41	13°♑50'02	-0°21'59
	-5216 Aug 08 j 11:36	0°♏		minimum elong	-5210 May 16 j 23:42	13°♑50'03	0°21'57
evening set	-5216 Nov 05 j 19:35	16°♏44'51		max. Earth dist.	-5210 May 17 j 08:42	13°♑55'03	6.26847 AU
				morning rise	-5210 May 30 j 13:57	16°♑51'29	
conjunction	-5216 Nov 18 j 13:58	19°♏44'50	0°13'15		-5210 Aug 05 j 15:23	0°♒	
minimum elong	-5216 Nov 18 j 13:59	19°♏44'50	0°13'09	retrograde	-5210 Sep 30 j 07:54	4°♒37'25	
behind sun begin	-5216 Nov 18 j 09:06	19°♏41'59		asc. node	-5210 Nov 15 j 17:44	1°♒21'50	
behind sun end	-5216 Nov 18 j 18:52	19°♏47'42			-5210 Nov 26 j 06:08	30°♎♑	
max. Earth dist.	-5216 Nov 18 j 10:48	19°♏42'58	6.10803 AU	opposition	-5210 Nov 28 j 19:36	29°♑39'34	0°02'20
morning rise	-5216 Dec 01 j 10:24	22°♏46'06		min. Earth dist.	-5210 Nov 28 j 21:23	29°♑38'58	4.31088 AU
	-5215 Jan 02 j 11:38	0°♎		direct	-5209 Jan 28 j 21:27	24°♑35'43	
desc. node	-5215 Mar 01 j 06:31	9°♎55'24			-5209 Apr 01 j 11:03	0°♒	
retrograde	-5215 Apr 10 j 10:14	12°♎20'56		evening set	-5209 Jun 06 j 00:45	12°♒48'34	
opposition	-5215 Jun 10 j 06:57	7°♎21'41	-0°19'40		-5209 Jun 16 j 00:04	15°♒	
min. Earth dist.	-5215 Jun 10 j 00:55	7°♎23'40	4.06848 AU				
direct	-5215 Aug 08 j 12:13	2°♎28'47		conjunction	-5209 Jun 19 j 09:50	15°♒45'04	0°25'28
	-5215 Nov 12 j 04:17	15°♎		minimum elong	-5209 Jun 19 j 09:47	15°♒45'03	0°25'40
evening set	-5215 Dec 10 j 07:48	21°♎27'22		max. Earth dist.	-5209 Jun 18 j 18:11	15°♒36'27	6.34482 AU
				morning rise	-5209 Jul 02 j 15:51	18°♒39'56	
conjunction	-5215 Dec 23 j 09:27	24°♎33'29	-0°37'37		-5209 Aug 28 j 12:35	0°♓	
minimum elong	-5215 Dec 23 j 09:24	24°♎33'27	0°37'52	retrograde	-5209 Oct 31 j 11:02	5°♓53'25	
max. Earth dist.	-5215 Dec 24 j 06:09	24°♎45'47	6.04072 AU	opposition	-5209 Dec 30 j 07:34	0°♓59'08	1°07'38
morning rise	-5214 Jan 05 j 14:26	27°♎41'24		min. Earth dist.	-5209 Dec 31 j 00:01	0°♓53'46	4.36772 AU
	-5214 Jan 15 j 11:09	0°♐			-5208 Jan 06 j 21:53	30°♎♒	
retrograde	-5214 May 17 j 10:15	17°♐50'08		direct	-5208 Mar 01 j 10:32	25°♒55'44	
opposition	-5214 Jul 16 j 19:52	12°♐47'08	-1°29'32		-5208 Apr 24 j 14:12	0°♓	
min. Earth dist.	-5214 Jul 15 j 21:55	12°♐54'29	4.02796 AU	evening set	-5208 Jul 07 j 08:27	13°♓56'20	
direct	-5214 Sep 13 j 01:11	7°♐53'15		max. Earth dist.	-5208 Jul 19 j 00:51	16°♓30'18	6.37722 AU
evening set	-5213 Jan 15 j 11:25	27°♐04'52					
	-5213 Jan 27 j 19:50	0°♑		conjunction	-5208 Jul 20 j 08:08	16°♓47'32	1°04'35
				minimum elong	-5208 Jul 20 j 08:04	16°♓47'30	1°04'50
conjunction	-5213 Jan 28 j 20:27	0°♑14'35	-1°15'21	morning rise	-5208 Aug 02 j 04:16	19°♓37'04	
minimum elong	-5213 Jan 28 j 20:23	0°♑14'33	1°15'38		-5208 Sep 22 j 13:09	0°♔	
max. Earth dist.	-5213 Jan 30 j 11:32	0°♑37'44	6.02938 AU	retrograde	-5208 Nov 30 j 13:17	6°♔42'28	
morning rise	-5213 Feb 11 j 08:45	3°♑25'57		opposition	-5207 Jan 29 j 22:43	1°♔50'29	1°52'55
retrograde	-5213 Jun 22 j 23:54	23°♑34'23		min. Earth dist.	-5207 Jan 31 j 00:08	1°♔42'19	4.37515 AU
opposition	-5213 Aug 21 j 19:52	18°♑29'18	-2°05'58		-5207 Feb 13 j 15:36	30°♎♓	
min. Earth dist.	-5213 Aug 20 j 16:09	18°♑38'44	4.04838 AU	direct	-5207 Apr 02 j 12:20	26°♓48'51	
direct	-5213 Oct 18 j 22:15	13°♑32'32			-5207 May 20 j 03:19	0°♔	
	-5212 Feb 09 j 14:16	0°≈		evening set	-5207 Aug 07 j 18:08	14°♔46'54	
evening set	-5212 Feb 21 j 10:20	2°≈43'05		max. Earth dist.	-5207 Aug 18 j 17:38	17°♔13'07	6.35771 AU
conjunction	-5212 Mar 06 j 01:35	5°≈53'12	-1°24'54	conjunction	-5207 Aug 20 j 09:30	17°♔35'19	1°25'09
minimum elong	-5212 Mar 06 j 01:36	5°≈53'13	1°25'08	minimum elong	-5207 Aug 20 j 09:29	17°♔35'18	1°25'26
max. Earth dist.	-5212 Mar 07 j 21:37	6°≈18'49	6.07851 AU	morning rise	-5207 Sep 01 j 22:29	20°♔22'37	
morning rise	-5212 Mar 19 j 18:45	9°≈04'11			-5207 Oct 18 j 11:28	0°♕	
	-5212 Apr 15 j 03:53	15°≈		retrograde	-5206 Jan 01 j 13:17	7°♕44'13	
retrograde	-5212 Jul 27 j 03:01	28°≈36'25		opposition	-5206 Mar 03 j 09:01	2°♕52'44	2°06'34
opposition	-5212 Sep 24 j 13:00	23°≈31'53	-1°55'28	min. Earth dist.	-5206 Mar 04 j 14:03	2°♕43'30	4.33069 AU

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 18

Attention, astronomical year style is used: The year -5206 in astronomical counting style is the year 5207 BCE in historical counting style.

	-5206 Mar 27 j 13:26	30° κ \mathfrak{S}			-5200 Jan 23 j 03:08	0° \mathfrak{A}	
direct	-5206 May 04 j 19:40	27° \mathfrak{S} 53'41		evening set	-5200 Feb 26 j 11:59	7° \mathfrak{A} 39'35	
	-5206 Jun 11 j 19:17	0° \mathfrak{Q}					
	-5206 Sep 03 j 12:47	15° \mathfrak{Q}		conjunction	-5200 Mar 11 j 03:47	10° \mathfrak{A} 49'39	-1°23'40
evening set	-5206 Sep 07 j 21:10	15° \mathfrak{Q} 58'29		minimum elong	-5200 Mar 11 j 03:49	10° \mathfrak{A} 49'40	1°23'53
max. Earth dist.	-5206 Sep 18 j 20:47	18° \mathfrak{Q} 27'26	6.29114 AU	max. Earth dist.	-5200 Mar 12 j 21:03	11° \mathfrak{A} 13'36	6.08618 AU
				morning rise	-5200 Mar 24 j 21:36	14° \mathfrak{A} 00'31	
conjunction	-5206 Sep 20 j 08:57	18° \mathfrak{Q} 47'56	1°21'23		-5200 Mar 29 j 05:15	15° \mathfrak{A}	
minimum elong	-5206 Sep 20 j 09:00	18° \mathfrak{Q} 47'57	1°21'36		-5200 Jun 14 j 10:48	0° \mathfrak{H}	
morning rise	-5206 Oct 02 j 19:40	21° \mathfrak{Q} 37'01		retrograde	-5200 Jul 31 j 19:49	3° \mathfrak{H} 27'12	
	-5206 Nov 10 j 22:51	0° \mathfrak{M}			-5200 Sep 17 j 03:54	30° \mathfrak{R} \mathfrak{A}	
retrograde	-5205 Feb 03 j 20:38	9° \mathfrak{M} 35'46		min. Earth dist.	-5200 Sep 28 j 06:01	28° \mathfrak{A} 30'50	4.13055 AU
opposition	-5205 Apr 06 j 01:15	4° \mathfrak{M} 42'51	1°43'03	opposition	-5200 Sep 29 j 05:09	28° \mathfrak{A} 22'55	-1°50'32
min. Earth dist.	-5205 Apr 06 j 23:11	4° \mathfrak{M} 35'52	4.24594 AU	direct	-5200 Nov 27 j 00:16	23° \mathfrak{A} 22'22	
	-5205 May 25 j 17:00	30° \mathfrak{R} \mathfrak{Q}			-5199 Feb 02 j 14:00	0° \mathfrak{H}	
direct	-5205 Jun 06 j 15:03	29° \mathfrak{Q} 46'43		evening set	-5199 Apr 02 j 23:33	12° \mathfrak{H} 16'03	
	-5205 Jun 18 j 13:49	0° \mathfrak{M}					
evening set	-5205 Oct 09 j 12:50	18° \mathfrak{M} 06'18		conjunction	-5199 Apr 16 j 18:06	15° \mathfrak{H} 23'16	-0°58'52
max. Earth dist.	-5205 Oct 21 j 04:03	20° \mathfrak{M} 47'31	6.19575 AU	minimum elong	-5199 Apr 16 j 18:10	15° \mathfrak{H} 23'18	0°58'57
				max. Earth dist.	-5199 Apr 17 j 22:48	15° \mathfrak{H} 39'33	6.17949 AU
conjunction	-5205 Oct 22 j 02:16	21° \mathfrak{M} 00'23	0°52'50	morning rise	-5199 Apr 30 j 12:15	18° \mathfrak{H} 30'06	
minimum elong	-5205 Oct 22 j 02:19	21° \mathfrak{M} 00'25	0°52'54		-5199 Jun 25 j 00:53	0° \mathfrak{Y}	
morning rise	-5205 Nov 03 j 16:25	23° \mathfrak{M} 55'02		retrograde	-5199 Sep 03 j 00:17	7° \mathfrak{Y} 01'02	
	-5205 Nov 30 j 21:20	0° \mathfrak{A}		opposition	-5199 Nov 01 j 07:20	1° \mathfrak{Y} 59'48	-0°56'56
retrograde	-5204 Mar 09 j 23:19	12° \mathfrak{A} 44'13		min. Earth dist.	-5199 Oct 31 j 20:18	2° \mathfrak{Y} 03'31	4.23016 AU
opposition	-5204 May 10 j 02:59	7° \mathfrak{A} 48'18	0°45'34		-5199 Nov 16 j 12:17	30° \mathfrak{R} \mathfrak{H}	
min. Earth dist.	-5204 May 10 j 12:15	7° \mathfrak{A} 45'19	4.14557 AU	direct	-5199 Dec 31 j 06:52	26° \mathfrak{H} 56'50	
direct	-5204 Jul 09 j 12:02	2° \mathfrak{A} 54'29			-5198 Feb 14 j 11:17	0° \mathfrak{Y}	
evening set	-5204 Nov 10 j 11:21	21° \mathfrak{A} 34'13		evening set	-5198 May 08 j 03:04	15° \mathfrak{Y} 27'47	
conjunction	-5204 Nov 23 j 06:34	24° \mathfrak{A} 34'55	0°06'11	conjunction	-5198 May 21 j 18:41	18° \mathfrak{Y} 29'43	-0°15'19
minimum elong	-5204 Nov 23 j 06:34	24° \mathfrak{A} 34'55	0°06'06	minimum elong	-5198 May 21 j 18:43	18° \mathfrak{Y} 29'44	0°15'15
behind sun begin	-5204 Nov 22 j 22:54	24° \mathfrak{A} 30'25		behind sun begin	-5198 May 21 j 16:31	18° \mathfrak{Y} 28'31	
behind sun end	-5204 Nov 23 j 14:14	24° \mathfrak{A} 39'25		behind sun end	-5198 May 21 j 20:54	18° \mathfrak{Y} 30'57	
max. Earth dist.	-5204 Nov 23 j 05:37	24° \mathfrak{A} 34'22	6.10012 AU	max. Earth dist.	-5198 May 21 j 23:35	18° \mathfrak{Y} 32'26	6.27830 AU
morning rise	-5204 Dec 06 j 04:10	27° \mathfrak{A} 37'01		morning rise	-5198 Jun 04 j 08:14	21° \mathfrak{Y} 30'25	
	-5204 Dec 16 j 10:21	0° \mathfrak{M}			-5198 Jul 14 j 19:38	0° \mathfrak{B}	
desc. node	-5203 Jan 09 j 22:19	5° \mathfrak{M} 25'55		asc. node	-5198 Sep 25 j 15:13	9° \mathfrak{B} 03'07	
	-5203 Mar 07 j 15:51	15° \mathfrak{M}		retrograde	-5198 Oct 04 j 17:45	9° \mathfrak{B} 11'21	
retrograde	-5203 Apr 15 j 10:10	17° \mathfrak{M} 16'26		opposition	-5198 Dec 03 j 06:31	4° \mathfrak{B} 13'59	0°12'10
	-5203 May 24 j 07:01	15° \mathfrak{R} \mathfrak{M}		min. Earth dist.	-5198 Dec 03 j 10:15	4° \mathfrak{B} 12'45	4.31942 AU
opposition	-5203 Jun 15 j 06:54	12° \mathfrak{M} 16'37	-0°30'14		-5197 Jan 10 j 09:54	30° \mathfrak{R} \mathfrak{Y}	
min. Earth dist.	-5203 Jun 14 j 22:05	12° \mathfrak{M} 19'31	4.06269 AU	direct	-5197 Feb 02 j 12:30	29° \mathfrak{Y} 10'06	
direct	-5203 Aug 13 j 07:33	7° \mathfrak{M} 23'40			-5197 Feb 25 j 22:04	0° \mathfrak{B}	
	-5203 Oct 24 j 00:51	15° \mathfrak{M}			-5197 May 30 j 19:16	15° \mathfrak{B}	
evening set	-5203 Dec 15 j 04:15	26° \mathfrak{M} 23'39		evening set	-5197 Jun 10 j 16:02	17° \mathfrak{B} 21'13	
conjunction	-5203 Dec 28 j 06:53	29° \mathfrak{M} 30'19	-0°43'59	conjunction	-5197 Jun 23 j 24:00	20° \mathfrak{B} 16'57	0°31'46
minimum elong	-5203 Dec 28 j 06:50	29° \mathfrak{M} 30'17	0°44'13	minimum elong	-5197 Jun 23 j 23:57	20° \mathfrak{B} 16'56	0°31'59
max. Earth dist.	-5203 Dec 29 j 05:59	29° \mathfrak{M} 44'03	6.03743 AU	max. Earth dist.	-5197 Jun 23 j 07:24	20° \mathfrak{B} 07'49	6.35149 AU
	-5203 Dec 30 j 08:49	0° \mathfrak{X}		morning rise	-5197 Jul 07 j 04:31	23° \mathfrak{B} 10'58	
morning rise	-5202 Jan 10 j 12:52	2° \mathfrak{X} 38'48			-5197 Aug 08 j 12:40	0° \mathfrak{I}	
retrograde	-5202 May 22 j 11:16	22° \mathfrak{X} 49'17		retrograde	-5197 Nov 04 j 19:13	10° \mathfrak{I} 21'54	
opposition	-5202 Jul 21 j 18:55	17° \mathfrak{X} 45'52	-1°36'59	opposition	-5196 Jan 03 j 18:06	5° \mathfrak{I} 28'00	1°15'33
min. Earth dist.	-5202 Jul 20 j 20:40	17° \mathfrak{X} 53'21	4.02755 AU	min. Earth dist.	-5196 Jan 04 j 11:25	5° \mathfrak{I} 22'23	4.37206 AU
direct	-5202 Sep 17 j 23:49	12° \mathfrak{X} 51'38		direct	-5196 Mar 05 j 23:10	0° \mathfrak{I} 24'49	
	-5201 Jan 11 j 15:24	0° \mathfrak{B}		evening set	-5196 Jul 11 j 19:46	18° \mathfrak{I} 24'15	
evening set	-5201 Jan 20 j 11:45	2° \mathfrak{B} 04'05		max. Earth dist.	-5196 Jul 23 j 07:58	20° \mathfrak{I} 56'04	6.37846 AU
conjunction	-5201 Feb 02 j 21:49	5° \mathfrak{B} 14'06	-1°18'30	conjunction	-5196 Jul 24 j 17:58	21° \mathfrak{I} 14'48	1°08'46
minimum elong	-5201 Feb 02 j 21:46	5° \mathfrak{B} 14'04	1°18'48	minimum elong	-5196 Jul 24 j 17:54	21° \mathfrak{I} 14'46	1°09'04
max. Earth dist.	-5201 Feb 04 j 14:47	5° \mathfrak{B} 38'19	6.03185 AU	morning rise	-5196 Aug 06 j 13:03	24° \mathfrak{I} 03'48	
morning rise	-5201 Feb 16 j 10:55	8° \mathfrak{B} 25'41			-5196 Sep 03 j 11:07	0° \mathfrak{S}	
retrograde	-5201 Jun 27 j 22:19	28° \mathfrak{B} 31'38		retrograde	-5196 Dec 05 j 00:18	11° \mathfrak{S} 09'42	
opposition	-5201 Aug 26 j 15:46	23° \mathfrak{B} 26'33	-2°07'19	opposition	-5195 Feb 03 j 10:53	6° \mathfrak{S} 17'51	1°56'55
min. Earth dist.	-5201 Aug 25 j 12:11	23° \mathfrak{B} 35'57	4.05372 AU	min. Earth dist.	-5195 Feb 04 j 13:47	6° \mathfrak{S} 09'14	4.37314 AU
direct	-5201 Oct 23 j 18:16	18° \mathfrak{B} 29'22		direct	-5195 Apr 07 j 02:11	1° \mathfrak{S} 16'30	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 19

Attention, astronomical year style is used: The year -5195 in astronomical counting style is the year 5196 BCE in historical counting style.

evening set	-5195 Aug 12 j 02:55	19° \mathfrak{D} 14'28		max. Earth dist.	-5189 Feb 09 j 20:58	10° \mathfrak{Z} 49'34	6.03428 AU
max. Earth dist.	-5195 Aug 23 j 02:31	21° \mathfrak{D} 40'57	6.35228 AU	morning rise	-5189 Feb 21 j 17:59	13° \mathfrak{Z} 37'09	
					-5189 May 14 j 20:59	0° \approx	
conjunction	-5195 Aug 24 j 17:36	22° \mathfrak{D} 02'45	1°26'09	retrograde	-5189 Jul 02 j 23:05	3° \approx 40'12	
minimum elong	-5195 Aug 24 j 17:35	22° \mathfrak{D} 02'45	1°26'25		-5189 Aug 21 j 03:21	30° \mathfrak{R} \mathfrak{Z}	
morning rise	-5195 Sep 06 j 05:47	24° \mathfrak{D} 49'58		min. Earth dist.	-5189 Aug 30 j 11:28	28° \mathfrak{Z} 44'39	4.06076 AU
	-5195 Sep 30 j 02:37	0° \mathfrak{Q}		opposition	-5189 Aug 31 j 15:38	28° \mathfrak{Z} 35'02	-2°07'46
retrograde	-5194 Jan 06 j 01:24	12° \mathfrak{Q} 15'09		direct	-5189 Oct 28 j 19:08	23° \mathfrak{Z} 37'24	
opposition	-5194 Mar 08 j 00:01	7° \mathfrak{Q} 23'34	2°05'31		-5188 Jan 01 j 22:06	0° \approx	
min. Earth dist.	-5194 Mar 09 j 03:56	7° \mathfrak{Q} 14'43	4.32210 AU	evening set	-5188 Mar 02 j 17:32	12° \approx 46'21	
direct	-5194 May 09 j 08:10	2° \mathfrak{Q} 24'57			-5188 Mar 12 j 09:01	15° \approx	
	-5194 Aug 18 j 02:07	15° \mathfrak{Q}					
evening set	-5194 Sep 12 j 06:20	20° \mathfrak{Q} 31'02		conjunction	-5188 Mar 16 j 10:06	15° \approx 56'13	-1°21'48
max. Earth dist.	-5194 Sep 23 j 06:27	23° \mathfrak{Q} 00'42	6.27997 AU	minimum elong	-5188 Mar 16 j 10:09	15° \approx 56'14	1°22'01
				max. Earth dist.	-5188 Mar 18 j 04:23	16° \approx 20'42	6.09761 AU
conjunction	-5194 Sep 24 j 17:54	23° \mathfrak{Q} 20'52	1°18'48	morning rise	-5188 Mar 30 j 04:05	19° \approx 06'40	
minimum elong	-5194 Sep 24 j 17:57	23° \mathfrak{Q} 20'53	1°19'00		-5188 May 20 j 01:40	0° \mathfrak{H}	
morning rise	-5194 Oct 07 j 04:48	26° \mathfrak{Q} 10'29		retrograde	-5188 Aug 05 j 15:58	8° \mathfrak{H} 25'47	
	-5194 Oct 24 j 09:12	0° \mathfrak{M}		min. Earth dist.	-5188 Oct 03 j 02:17	3° \mathfrak{H} 29'17	4.14533 AU
retrograde	-5193 Feb 08 j 16:42	14° \mathfrak{M} 15'25		opposition	-5188 Oct 04 j 00:09	3° \mathfrak{H} 21'50	-1°44'44
opposition	-5193 Apr 10 j 20:41	9° \mathfrak{M} 22'12	1°36'50		-5188 Oct 31 j 04:31	30° \mathfrak{R} \approx	
min. Earth dist.	-5193 Apr 11 j 18:15	9° \mathfrak{M} 15'20	4.23261 AU	direct	-5188 Dec 01 j 23:11	28° \approx 20'55	
direct	-5193 Jun 11 j 08:08	4° \mathfrak{M} 26'24			-5187 Jan 03 j 02:11	0° \mathfrak{H}	
evening set	-5193 Oct 14 j 00:50	22° \mathfrak{M} 48'31		evening set	-5187 Apr 08 j 01:19	17° \mathfrak{H} 10'42	
conjunction	-5193 Oct 26 j 14:57	25° \mathfrak{M} 43'29	0°47'08	conjunction	-5187 Apr 21 j 19:38	20° \mathfrak{H} 17'06	-0°53'31
minimum elong	-5193 Oct 26 j 15:00	25° \mathfrak{M} 43'30	0°47'10	minimum elong	-5187 Apr 21 j 19:42	20° \mathfrak{H} 17'09	0°53'35
max. Earth dist.	-5193 Oct 25 j 18:52	25° \mathfrak{M} 31'49	6.18153 AU	max. Earth dist.	-5187 Apr 22 j 21:42	20° \mathfrak{H} 31'50	6.19660 AU
morning rise	-5193 Nov 08 j 05:59	28° \mathfrak{M} 39'08		morning rise	-5187 May 05 j 13:29	23° \mathfrak{H} 23'03	
	-5193 Nov 14 j 02:42	0° \mathfrak{L}			-5187 Jun 05 j 01:00	0° \mathfrak{Y}	
retrograde	-5192 Mar 14 j 23:06	17° \mathfrak{L} 35'50		retrograde	-5187 Sep 07 j 11:44	11° \mathfrak{Y} 44'50	
opposition	-5192 May 15 j 02:45	12° \mathfrak{L} 39'26	0°35'32	opposition	-5187 Nov 05 j 20:44	6° \mathfrak{Y} 44'03	-0°47'38
min. Earth dist.	-5192 May 15 j 09:05	12° \mathfrak{L} 37'23	4.13152 AU	min. Earth dist.	-5187 Nov 05 j 10:52	6° \mathfrak{Y} 47'23	4.24808 AU
direct	-5192 Jul 14 j 05:55	7° \mathfrak{L} 45'52		direct	-5186 Jan 05 j 00:57	1° \mathfrak{Y} 40'50	
evening set	-5192 Nov 15 j 05:05	26° \mathfrak{L} 28'56		evening set	-5186 May 12 j 22:00	20° \mathfrak{Y} 06'54	
desc. node	-5192 Nov 19 j 13:57	27° \mathfrak{L} 30'34					
				conjunction	-5186 May 26 j 12:45	23° \mathfrak{Y} 07'43	-0°08'39
conjunction	-5192 Nov 28 j 01:16	29° \mathfrak{L} 30'37	-0°01'08	minimum elong	-5186 May 26 j 12:45	23° \mathfrak{Y} 07'43	0°08'33
minimum elong	-5192 Nov 28 j 01:14	29° \mathfrak{L} 30'36	0°01'15	behind sun begin	-5186 May 26 j 05:36	23° \mathfrak{Y} 03'46	
behind sun begin	-5192 Nov 27 j 17:09	29° \mathfrak{L} 25'51		behind sun end	-5186 May 26 j 19:55	23° \mathfrak{Y} 11'41	
behind sun end	-5192 Nov 28 j 09:20	29° \mathfrak{L} 35'21		max. Earth dist.	-5186 May 26 j 15:24	23° \mathfrak{Y} 09'10	6.29581 AU
max. Earth dist.	-5192 Nov 28 j 03:17	29° \mathfrak{L} 31'45	6.08746 AU	morning rise	-5186 Jun 09 j 01:02	26° \mathfrak{Y} 07'11	
	-5192 Nov 30 j 02:59	0° \mathfrak{M}			-5186 Jun 26 j 22:42	0° \mathfrak{Z}	
morning rise	-5192 Dec 10 j 24:00	2° \mathfrak{M} 33'46		asc. node	-5186 Aug 06 j 04:14	7° \mathfrak{Z} 45'39	
	-5191 Feb 07 j 01:33	15° \mathfrak{M}		retrograde	-5186 Oct 09 j 01:35	13° \mathfrak{Z} 40'37	
retrograde	-5191 Apr 20 j 14:49	22° \mathfrak{M} 19'48		opposition	-5186 Dec 07 j 15:48	8° \mathfrak{Z} 43'47	0°21'39
opposition	-5191 Jun 20 j 09:36	17° \mathfrak{M} 19'25	-0°40'51	min. Earth dist.	-5186 Dec 07 j 21:47	8° \mathfrak{Z} 41'48	4.33501 AU
min. Earth dist.	-5191 Jun 19 j 23:08	17° \mathfrak{M} 22'51	4.05257 AU	direct	-5185 Feb 07 j 02:54	3° \mathfrak{Z} 39'54	
	-5191 Jul 08 j 19:34	15° \mathfrak{R} \mathfrak{M}			-5185 May 13 j 22:05	15° \mathfrak{Z}	
direct	-5191 Aug 18 j 07:03	12° \mathfrak{M} 26'24		evening set	-5185 Jun 15 j 03:56	21° \mathfrak{Z} 46'40	
	-5191 Sep 27 j 02:20	15° \mathfrak{M}					
	-5191 Dec 13 j 20:26	0° \mathfrak{X}		conjunction	-5185 Jun 28 j 10:25	24° \mathfrak{Z} 41'18	0°37'40
evening set	-5191 Dec 20 j 04:36	1° \mathfrak{X} 29'34		minimum elong	-5185 Jun 28 j 10:22	24° \mathfrak{Z} 41'16	0°37'53
				max. Earth dist.	-5185 Jun 27 j 14:00	24° \mathfrak{Z} 30'05	6.36369 AU
conjunction	-5190 Jan 02 j 08:25	4° \mathfrak{X} 37'01	-0°50'11	morning rise	-5185 Jul 11 j 13:36	27° \mathfrak{Z} 34'15	
minimum elong	-5190 Jan 02 j 08:22	4° \mathfrak{X} 36'59	0°50'26		-5185 Jul 22 j 18:48	0° \mathfrak{I}	
max. Earth dist.	-5190 Jan 03 j 11:12	4° \mathfrak{X} 52'56	6.03077 AU	retrograde	-5185 Nov 09 j 00:05	14° \mathfrak{I} 41'13	
morning rise	-5190 Jan 15 j 15:29	7° \mathfrak{X} 46'16		opposition	-5184 Jan 08 j 01:19	9° \mathfrak{I} 47'38	1°22'42
retrograde	-5190 May 27 j 16:56	27° \mathfrak{X} 59'19		min. Earth dist.	-5184 Jan 08 j 20:39	9° \mathfrak{I} 41'22	4.38022 AU
opposition	-5190 Jul 26 j 21:37	22° \mathfrak{X} 55'36	-1°43'57	direct	-5184 Mar 10 j 09:28	4° \mathfrak{I} 44'32	
min. Earth dist.	-5190 Jul 25 j 21:57	23° \mathfrak{X} 03'33	4.02546 AU	evening set	-5184 Jul 16 j 02:30	22° \mathfrak{I} 41'35	
direct	-5190 Sep 23 j 00:26	18° \mathfrak{X} 01'04					
	-5190 Dec 24 j 19:10	0° \mathfrak{Z}		conjunction	-5184 Jul 28 j 23:31	25° \mathfrak{I} 31'28	1°12'23
evening set	-5189 Jan 25 j 17:00	7° \mathfrak{Z} 15'01		minimum elong	-5184 Jul 28 j 23:28	25° \mathfrak{I} 31'26	1°12'41
				max. Earth dist.	-5184 Jul 27 j 12:42	25° \mathfrak{I} 12'16	6.38174 AU
conjunction	-5189 Feb 08 j 03:52	10° \mathfrak{Z} 25'19	-1°21'10	morning rise	-5184 Aug 10 j 17:13	28° \mathfrak{I} 19'48	
minimum elong	-5189 Feb 08 j 03:50	10° \mathfrak{Z} 25'18	1°21'28		-5184 Aug 18 j 09:05	0° \mathfrak{D}	

Attention, astronomical year style is used: The year -5184 in astronomical counting style is the year 5185 BCE in historical counting style.

retrograde	-5184 Dec 09 j 05:28	15° \mathfrak{D} 25'50		direct	-5178 Sep 28 j 03:19	23° \mathfrak{X} 14'56	
opposition	-5183 Feb 07 j 18:36	10° \mathfrak{D} 34'09	2°00'05		-5178 Dec 03 j 19:18	0° \mathfrak{Z}	
min. Earth dist.	-5183 Feb 08 j 22:30	10° \mathfrak{D} 25'15	4.37137 AU	evening set	-5177 Jan 31 j 00:23	12° \mathfrak{Z} 30'05	
direct	-5183 Apr 11 j 10:11	5° \mathfrak{D} 33'05					
evening set	-5183 Aug 16 j 07:28	23° \mathfrak{D} 31'06		conjunction	-5177 Feb 13 j 12:23	15° \mathfrak{Z} 40'38	-1°23'12
max. Earth dist.	-5183 Aug 27 j 03:43	25° \mathfrak{D} 56'05	6.34530 AU	minimum elong	-5177 Feb 13 j 12:21	15° \mathfrak{Z} 40'37	1°23'28
				max. Earth dist.	-5177 Feb 15 j 08:49	16° \mathfrak{Z} 06'48	6.03847 AU
conjunction	-5183 Aug 28 j 21:17	26° \mathfrak{D} 19'19	1°26'37	morning rise	-5177 Feb 27 j 03:06	18° \mathfrak{Z} 52'32	
minimum elong	-5183 Aug 28 j 21:16	26° \mathfrak{D} 19'19	1°26'53		-5177 Apr 19 j 05:00	0° \mathfrak{X}	
morning rise	-5183 Sep 10 j 09:06	29° \mathfrak{D} 06'38		retrograde	-5177 Jul 08 j 02:08	8° \mathfrak{X} 51'16	
	-5183 Sep 14 j 09:25	0° \mathfrak{N}		opposition	-5177 Sep 05 j 16:22	3° \mathfrak{X} 46'04	-2°07'09
	-5183 Dec 09 j 01:31	15° \mathfrak{N}		min. Earth dist.	-5177 Sep 04 j 12:43	3° \mathfrak{X} 55'30	4.07038 AU
retrograde	-5182 Jan 10 j 12:48	16° \mathfrak{N} 36'14			-5177 Oct 07 j 05:25	30° \mathfrak{R} \mathfrak{Z}	
	-5182 Feb 12 j 05:52	15° \mathfrak{R} \mathfrak{N}		direct	-5177 Nov 02 j 21:59	28° \mathfrak{Z} 47'56	
opposition	-5182 Mar 12 j 11:31	11° \mathfrak{N} 44'32	2°03'48		-5177 Nov 29 j 18:32	0° \mathfrak{X}	
min. Earth dist.	-5182 Mar 13 j 16:20	11° \mathfrak{N} 35'22	4.31022 AU		-5176 Feb 24 j 05:09	15° \mathfrak{X}	
direct	-5182 May 13 j 18:07	6° \mathfrak{N} 46'11		evening set	-5176 Mar 08 j 00:12	17° \mathfrak{X} 54'29	
	-5182 Jul 31 j 09:24	15° \mathfrak{N}					
evening set	-5182 Sep 16 j 11:56	24° \mathfrak{N} 54'52		conjunction	-5176 Mar 21 j 17:11	21° \mathfrak{X} 03'57	-1°19'16
				minimum elong	-5176 Mar 21 j 17:14	21° \mathfrak{X} 03'59	1°19'28
conjunction	-5182 Sep 28 j 23:46	27° \mathfrak{N} 45'24	1°15'50	max. Earth dist.	-5176 Mar 23 j 10:10	21° \mathfrak{X} 27'35	6.11138 AU
minimum elong	-5182 Sep 28 j 23:49	27° \mathfrak{N} 45'25	1°16'01	morning rise	-5176 Apr 04 j 11:33	24° \mathfrak{X} 13'53	
max. Earth dist.	-5182 Sep 27 j 13:33	27° \mathfrak{N} 25'53	6.26420 AU		-5176 Apr 30 j 08:36	0° \mathfrak{X}	
	-5182 Oct 08 j 19:50	0° \mathfrak{N}		retrograde	-5176 Aug 10 j 09:46	13° \mathfrak{X} 24'23	
morning rise	-5182 Oct 11 j 10:53	0° \mathfrak{N} 35'48		opposition	-5176 Oct 08 j 18:56	8° \mathfrak{X} 20'44	-1°38'08
retrograde	-5181 Feb 13 j 09:21	18° \mathfrak{N} 48'44		min. Earth dist.	-5176 Oct 07 j 21:32	8° \mathfrak{X} 28'02	4.16143 AU
opposition	-5181 Apr 15 j 13:47	13° \mathfrak{N} 55'12	1°30'12	direct	-5176 Dec 06 j 21:16	3° \mathfrak{X} 19'24	
min. Earth dist.	-5181 Apr 16 j 09:45	13° \mathfrak{N} 48'50	4.21394 AU	evening set	-5175 Apr 13 j 02:50	22° \mathfrak{X} 05'03	
direct	-5181 Jun 15 j 19:45	8° \mathfrak{N} 59'47					
evening set	-5181 Oct 18 j 11:46	27° \mathfrak{N} 26'35		conjunction	-5175 Apr 26 j 20:57	25° \mathfrak{X} 10'39	-0°47'45
	-5181 Oct 29 j 11:38	0° \mathfrak{N}		minimum elong	-5175 Apr 26 j 21:01	25° \mathfrak{X} 10'41	0°47'48
max. Earth dist.	-5181 Oct 30 j 08:00	0° \mathfrak{N} 11'53	6.16164 AU	max. Earth dist.	-5175 Apr 27 j 19:52	25° \mathfrak{X} 23'34	6.21365 AU
				morning rise	-5175 May 10 j 14:16	28° \mathfrak{X} 15'39	
conjunction	-5181 Oct 31 j 02:32	0° \mathfrak{N} 22'41	0°41'14		-5175 May 18 j 10:10	0° \mathfrak{Y}	
minimum elong	-5181 Oct 31 j 02:35	0° \mathfrak{N} 22'43	0°41'16	retrograde	-5175 Sep 12 j 01:52	16° \mathfrak{Y} 28'54	
morning rise	-5181 Nov 12 j 18:39	3° \mathfrak{N} 19'40		opposition	-5175 Nov 10 j 10:33	11° \mathfrak{Y} 28'41	-0°37'59
retrograde	-5180 Mar 20 j 00:43	22° \mathfrak{N} 26'10		min. Earth dist.	-5175 Nov 10 j 03:36	11° \mathfrak{Y} 31'02	4.26418 AU
opposition	-5180 May 20 j 02:08	17° \mathfrak{N} 29'14	0°25'22	direct	-5174 Jan 09 j 20:39	6° \mathfrak{Y} 25'18	
min. Earth dist.	-5180 May 20 j 06:39	17° \mathfrak{N} 27'47	4.11185 AU	evening set	-5174 May 17 j 17:11	24° \mathfrak{Y} 47'26	
direct	-5180 Jul 19 j 00:35	12° \mathfrak{N} 35'51					
desc. node	-5180 Sep 29 j 17:14	20° \mathfrak{N} 15'20		conjunction	-5174 May 31 j 07:01	27° \mathfrak{Y} 47'18	-0°01'50
	-5180 Nov 13 j 23:30	0° \mathfrak{N}		minimum elong	-5174 May 31 j 07:00	27° \mathfrak{Y} 47'17	0°01'43
evening set	-5180 Nov 19 j 23:46	1° \mathfrak{N} 24'33		behind sun begin	-5174 May 30 j 22:44	27° \mathfrak{Y} 42'44	
				behind sun end	-5174 May 31 j 15:17	27° \mathfrak{Y} 51'51	
conjunction	-5180 Dec 02 j 21:12	4° \mathfrak{N} 27'31	-0°08'20	max. Earth dist.	-5174 May 31 j 06:11	27° \mathfrak{Y} 46'53	6.30966 AU
minimum elong	-5180 Dec 02 j 21:12	4° \mathfrak{N} 27'31	0°08'29		-5174 Jun 10 j 07:05	0° \mathfrak{Z}	
behind sun begin	-5180 Dec 02 j 14:05	4° \mathfrak{N} 23'19		morning rise	-5174 Jun 13 j 18:08	0° \mathfrak{Z} 45'42	
behind sun end	-5180 Dec 03 j 04:18	4° \mathfrak{N} 31'42		asc. node	-5174 Jun 15 j 06:02	1° \mathfrak{Z} 05'25	
max. Earth dist.	-5180 Dec 03 j 03:36	4° \mathfrak{N} 31'17	6.07003 AU		-5174 Aug 28 j 11:11	15° \mathfrak{Z}	
morning rise	-5180 Dec 15 j 21:13	7° \mathfrak{N} 32'02		retrograde	-5174 Oct 13 j 09:56	18° \mathfrak{Z} 13'26	
	-5179 Jan 17 j 19:17	15° \mathfrak{N}			-5174 Nov 28 j 19:43	15° \mathfrak{R} \mathfrak{Z}	
retrograde	-5179 Apr 25 j 21:26	27° \mathfrak{N} 26'09		opposition	-5174 Dec 12 j 02:24	13° \mathfrak{Z} 17'07	0°31'13
opposition	-5179 Jun 25 j 13:32	22° \mathfrak{N} 25'17	-0°51'13	min. Earth dist.	-5174 Dec 12 j 10:00	13° \mathfrak{Z} 14'36	4.34576 AU
min. Earth dist.	-5179 Jun 25 j 00:31	22° \mathfrak{N} 29'35	4.03931 AU	direct	-5173 Feb 11 j 16:41	8° \mathfrak{Z} 13'14	
direct	-5179 Aug 23 j 06:25	17° \mathfrak{N} 32'16			-5173 Apr 24 j 01:30	15° \mathfrak{Z}	
	-5179 Nov 26 j 07:05	0° \mathfrak{X}		evening set	-5173 Jun 19 j 17:46	26° \mathfrak{Z} 17'40	
evening set	-5179 Dec 25 j 07:25	6° \mathfrak{X} 39'49					
				conjunction	-5173 Jul 02 j 22:54	29° \mathfrak{Z} 11'28	0°43'31
conjunction	-5178 Jan 07 j 12:14	9° \mathfrak{X} 48'06	-0°56'02	minimum elong	-5173 Jul 02 j 22:51	29° \mathfrak{Z} 11'26	0°43'45
minimum elong	-5178 Jan 07 j 12:10	9° \mathfrak{X} 48'04	0°56'18	max. Earth dist.	-5173 Jul 01 j 23:55	28° \mathfrak{Z} 58'50	6.37053 AU
max. Earth dist.	-5178 Jan 08 j 17:23	10° \mathfrak{X} 05'27	6.02264 AU		-5173 Jul 06 j 15:10	0° \mathfrak{I}	
morning rise	-5178 Jan 20 j 20:38	12° \mathfrak{X} 58'15		morning rise	-5173 Jul 16 j 00:38	2° \mathfrak{I} 03'33	
	-5178 Apr 16 j 19:51	0° \mathfrak{Z}		retrograde	-5173 Nov 13 j 09:25	19° \mathfrak{I} 08'36	
retrograde	-5178 Jun 01 j 22:49	3° \mathfrak{Z} 13'59		opposition	-5172 Jan 12 j 11:46	14° \mathfrak{I} 15'27	1°29'41
	-5178 Jul 18 j 03:54	30° \mathfrak{R} \mathfrak{X}		min. Earth dist.	-5172 Jan 13 j 09:15	14° \mathfrak{I} 08'30	4.38285 AU
min. Earth dist.	-5178 Jul 31 j 00:01	28° \mathfrak{X} 18'37	4.02349 AU	direct	-5172 Mar 14 j 22:24	9° \mathfrak{I} 12'35	
opposition	-5178 Aug 01 j 02:01	28° \mathfrak{X} 09'50	-1°50'07	evening set	-5172 Jul 20 j 12:43	27° \mathfrak{I} 09'04	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 21

Attention, astronomical year style is used: The year -5172 in astronomical counting style is the year 5173 BCE in historical counting style.

max. Earth dist.	-5172 Jul 31 j 18:44	29° Π 37'41	6.37968 AU	minimum elong	-5166 Jan 12 j 16:36	14° X 59'09	1°01'45
				max. Earth dist.	-5166 Jan 14 j 02:19	15° X 19'12	6.02347 AU
conjunction	-5172 Aug 02 j 08:29	29° Π 58'31	1°15'47	morning rise	-5166 Jan 26 j 01:52	18° X 09'38	
minimum elong	-5172 Aug 02 j 08:26	29° Π 58'30	1°16'04		-5166 Mar 21 j 08:31	0° Z	
	-5172 Aug 02 j 11:10	0° D		retrograde	-5166 Jun 07 j 03:38	8° Z 24'06	
morning rise	-5172 Aug 15 j 01:14	2° D 46'30		min. Earth dist.	-5166 Aug 05 j 02:07	3° Z 28'30	4.02951 AU
retrograde	-5172 Dec 13 j 17:19	19° D 54'38		opposition	-5166 Aug 06 j 04:21	3° Z 19'38	-1°55'19
opposition	-5171 Feb 12 j 07:39	15° D 03'02	2°02'48		-5166 Sep 02 j 07:45	30° R X	
min. Earth dist.	-5171 Feb 13 j 12:15	14° D 53'54	4.36502 AU	direct	-5166 Oct 03 j 05:51	28° X 24'18	
direct	-5171 Apr 15 j 22:27	10° D 02'16			-5166 Nov 03 j 03:00	0° Z	
evening set	-5171 Aug 20 j 16:42	28° D 01'34		evening set	-5165 Feb 05 j 05:20	17° Z 37'55	
	-5171 Aug 29 j 12:56	0° Ω					
max. Earth dist.	-5171 Aug 31 j 13:49	0° Ω 27'23	6.33514 AU	conjunction	-5165 Feb 18 j 18:00	20° Z 48'17	-1°24'33
				minimum elong	-5165 Feb 18 j 17:59	20° Z 48'17	1°24'49
conjunction	-5171 Sep 02 j 06:03	0° Ω 49'57	1°26'38	max. Earth dist.	-5165 Feb 20 j 14:23	21° Z 14'20	6.04870 AU
minimum elong	-5171 Sep 02 j 06:03	0° Ω 49'57	1°26'54	morning rise	-5165 Mar 04 j 09:31	23° Z 59'59	
morning rise	-5171 Sep 14 j 17:18	3° Ω 37'27			-5165 Mar 30 j 20:28	0° \approx	
	-5171 Nov 09 j 18:14	15° Ω		retrograde	-5165 Jul 12 j 22:30	13° \approx 52'09	
retrograde	-5170 Jan 15 j 05:16	21° Ω 12'31		min. Earth dist.	-5165 Sep 09 j 09:04	8° \approx 56'33	4.08384 AU
opposition	-5170 Mar 17 j 05:02	16° Ω 20'43	2°01'17	opposition	-5165 Sep 10 j 13:02	8° \approx 47'00	-2°05'35
min. Earth dist.	-5170 Mar 18 j 09:12	16° Ω 11'46	4.29697 AU	direct	-5165 Nov 07 j 20:16	3° \approx 48'21	
	-5170 Mar 27 j 22:21	15° R Ω			-5164 Feb 06 j 09:21	15° \approx	
direct	-5170 May 18 j 08:28	11° Ω 22'49		evening set	-5164 Mar 13 j 02:28	22° \approx 51'29	
	-5170 Jul 07 j 13:00	15° Ω					
evening set	-5170 Sep 20 j 23:23	29° Ω 34'12		conjunction	-5164 Mar 26 j 19:50	26° \approx 00'25	-1°16'16
	-5170 Sep 22 j 20:47	0° P		minimum elong	-5164 Mar 26 j 19:54	26° \approx 00'28	1°16'26
max. Earth dist.	-5170 Oct 02 j 01:32	2° P 06'06	6.24902 AU	max. Earth dist.	-5164 Mar 28 j 10:16	26° \approx 22'30	6.12680 AU
				morning rise	-5164 Apr 09 j 14:16	29° \approx 09'42	
conjunction	-5170 Oct 03 j 11:13	2° P 25'23	1°12'15		-5164 Apr 13 j 06:51	0° X	
minimum elong	-5170 Oct 03 j 11:16	2° P 25'25	1°12'24	retrograde	-5164 Aug 15 j 01:43	18° X 11'39	
morning rise	-5170 Oct 15 j 22:55	5° P 16'39		opposition	-5164 Oct 13 j 09:48	13° X 08'23	-1°31'06
retrograde	-5169 Feb 18 j 09:16	23° P 37'18		min. Earth dist.	-5164 Oct 12 j 15:15	13° X 14'42	4.17703 AU
opposition	-5169 Apr 20 j 12:55	18° P 43'21	1°22'34	direct	-5164 Dec 11 j 17:33	8° X 06'39	
min. Earth dist.	-5169 Apr 21 j 06:57	18° P 37'35	4.19787 AU	evening set	-5163 Apr 18 j 00:09	26° X 48'37	
direct	-5169 Jun 20 j 14:35	13° P 48'16					
	-5169 Oct 13 j 03:00	0° $\underline{\Omega}$		conjunction	-5163 May 01 j 18:05	29° X 53'31	-0°41'52
evening set	-5169 Oct 23 j 03:40	2° $\underline{\Omega}$ 18'30		minimum elong	-5163 May 01 j 18:08	29° X 53'33	0°41'54
					-5163 May 02 j 05:38	0° Y	
conjunction	-5169 Nov 04 j 19:24	5° $\underline{\Omega}$ 15'39	0°34'47	max. Earth dist.	-5163 May 02 j 14:14	0° Y 04'50	6.22829 AU
minimum elong	-5169 Nov 04 j 19:26	5° $\underline{\Omega}$ 15'40	0°34'47	morning rise	-5163 May 15 j 10:46	2° Y 57'38	
max. Earth dist.	-5169 Nov 04 j 05:26	5° $\underline{\Omega}$ 07'29	6.14651 AU	retrograde	-5163 Sep 16 j 10:58	21° Y 03'40	
morning rise	-5169 Nov 17 j 12:25	8° $\underline{\Omega}$ 13'42		opposition	-5163 Nov 14 j 20:55	16° Y 04'01	-0°28'26
retrograde	-5168 Mar 25 j 05:22	27° $\underline{\Omega}$ 27'53		min. Earth dist.	-5163 Nov 14 j 15:29	16° Y 05'50	4.27665 AU
opposition	-5168 May 25 j 05:56	22° $\underline{\Omega}$ 30'26	0°14'33	direct	-5162 Jan 14 j 10:05	11° Y 00'28	
min. Earth dist.	-5168 May 25 j 07:44	22° $\underline{\Omega}$ 29'51	4.09917 AU	asc. node	-5162 Apr 25 j 07:34	23° Y 33'24	
direct	-5168 Jul 23 j 23:35	17° $\underline{\Omega}$ 37'17		evening set	-5162 May 22 j 09:26	29° Y 20'09	
desc. node	-5168 Aug 08 j 15:38	18° $\underline{\Omega}$ 01'24			-5162 May 25 j 09:59	0° B	
	-5168 Oct 27 j 13:37	0° M					
evening set	-5168 Nov 24 j 21:57	6° M 28'47		conjunction	-5162 Jun 04 j 22:10	2° B 19'12	0°04'55
				minimum elong	-5162 Jun 04 j 22:11	2° B 19'13	0°05'02
conjunction	-5168 Dec 07 j 20:14	9° M 32'33	-0°15'40	behind sun begin	-5162 Jun 04 j 14:11	2° B 14'49	
minimum elong	-5168 Dec 07 j 20:13	9° M 32'33	0°15'50	behind sun end	-5162 Jun 05 j 06:10	2° B 23'36	
behind sun begin	-5168 Dec 07 j 18:31	9° M 31'32		max. Earth dist.	-5162 Jun 04 j 16:49	2° B 16'17	6.31908 AU
behind sun end	-5168 Dec 07 j 21:55	9° M 33'33		morning rise	-5162 Jun 18 j 08:17	5° B 16'49	
max. Earth dist.	-5168 Dec 08 j 05:30	9° M 38'02	6.06098 AU		-5162 Aug 04 j 17:24	15° B	
morning rise	-5168 Dec 20 j 21:35	12° M 38'01		retrograde	-5162 Oct 17 j 19:20	22° B 40'40	
	-5168 Dec 31 j 00:31	15° M		opposition	-5162 Dec 16 j 11:33	17° B 44'54	0°40'22
	-5167 Mar 20 j 15:41	0° X		min. Earth dist.	-5162 Dec 16 j 22:18	17° B 41'22	4.35157 AU
retrograde	-5167 May 01 j 03:10	2° X 36'36			-5161 Jan 07 j 14:58	15° R B	
	-5167 Jun 11 j 17:49	30° R M		direct	-5161 Feb 16 j 05:51	12° B 41'06	
opposition	-5167 Jun 30 j 18:33	27° M 35'08	-1°01'19		-5161 Mar 28 j 04:32	15° B	
min. Earth dist.	-5167 Jun 30 j 02:21	27° M 40'30	4.03505 AU		-5161 Jun 20 j 19:35	0° II	
direct	-5167 Aug 28 j 08:24	22° M 41'56		evening set	-5161 Jun 24 j 05:51	0° II 44'45	
	-5167 Nov 06 j 02:40	0° X		max. Earth dist.	-5161 Jul 06 j 08:19	3° II 23'58	6.37215 AU
evening set	-5167 Dec 30 j 10:42	11° X 50'30					
				conjunction	-5161 Jul 07 j 09:47	3° II 37'58	0°49'01
conjunction	-5166 Jan 12 j 16:40	14° X 59'11	-1°01'29	minimum elong	-5161 Jul 07 j 09:44	3° II 37'56	0°49'16

Attention, astronomical year style is used: The year -5161 in astronomical counting style is the year 5162 BCE in historical counting style.



































































































































morning rise	-5161 Jul 20 j 10:12	6° Π 29'28				-5155 Oct 08 j 22:24	0° X	
retrograde	-5161 Nov 17 j 18:00	23° Π 34'31		evening set		-5154 Jan 04 j 12:48	16° X 57'45	
opposition	-5160 Jan 16 j 22:10	18° Π 41'42	1°36'05					
min. Earth dist.	-5160 Jan 17 j 20:20	18° Π 34'32	4.38062 AU	conjunction		-5154 Jan 17 j 19:36	20° X 06'44	-1°06'24
direct	-5160 Mar 19 j 08:44	13° Π 39'06		minimum elong		-5154 Jan 17 j 19:32	20° X 06'41	1°06'41
	-5160 Jul 17 j 13:55	0° E		max. Earth dist.		-5154 Jan 19 j 06:35	20° X 27'29	6.02515 AU
evening set	-5160 Jul 24 j 22:58	1° E 36'31		morning rise		-5154 Jan 31 j 05:54	23° X 17'30	
max. Earth dist.	-5160 Aug 05 j 03:34	4° E 04'39	6.37374 AU			-5154 Mar 01 j 14:46	0° E	
				retrograde		-5154 Jun 12 j 04:08	13° E 30'25	
conjunction	-5160 Aug 06 j 17:38	4° E 25'43	1°18'42	min. Earth dist.		-5154 Aug 10 j 00:42	8° E 35'06	4.03517 AU
minimum elong	-5160 Aug 06 j 17:35	4° E 25'42	1°18'59	opposition		-5154 Aug 11 j 04:27	8° E 25'42	-1°59'36
morning rise	-5160 Aug 19 j 09:19	7° E 13'31		direct		-5154 Oct 08 j 04:41	3° E 29'59	
retrograde	-5160 Dec 18 j 06:56	24° E 24'58		evening set		-5153 Feb 10 j 08:59	22° E 42'36	
opposition	-5159 Feb 16 j 21:42	19° E 33'33	2°04'46					
min. Earth dist.	-5159 Feb 18 j 03:05	19° E 24'11	4.35592 AU	conjunction		-5153 Feb 23 j 22:27	25° E 52'55	-1°25'17
direct	-5159 Apr 20 j 11:59	14° E 33'13		minimum elong		-5153 Feb 23 j 22:27	25° E 52'55	1°25'33
	-5159 Aug 13 j 10:53	0° Ω		max. Earth dist.		-5153 Feb 25 j 18:18	26° E 18'35	6.05770 AU
evening set	-5159 Aug 25 j 03:00	2° Ω 34'29		morning rise		-5153 Mar 09 j 14:30	29° E 04'24	
max. Earth dist.	-5159 Sep 04 j 23:11	5° Ω 00'17	6.32354 AU			-5153 Mar 13 j 14:35	0° \approx	
						-5153 May 28 j 12:43	15° \approx	
conjunction	-5159 Sep 06 j 15:48	5° Ω 23'07	1°26'06	retrograde		-5153 Jul 17 j 19:34	18° \approx 50'42	
minimum elong	-5159 Sep 06 j 15:48	5° Ω 23'07	1°26'21			-5153 Sep 06 j 04:33	15° R \approx	
morning rise	-5159 Sep 19 j 02:55	8° Ω 11'01		min. Earth dist.		-5153 Sep 14 j 06:05	13° \approx 54'37	4.09512 AU
	-5159 Oct 20 j 17:54	15° Ω		opposition		-5153 Sep 15 j 08:17	13° \approx 45'40	-2°03'12
retrograde	-5158 Jan 19 j 23:37	25° Ω 51'58		direct		-5153 Nov 12 j 19:16	8° \approx 46'31	
opposition	-5158 Mar 22 j 00:11	20° Ω 59'58	1°57'55			-5152 Jan 16 j 11:46	15° \approx	
min. Earth dist.	-5158 Mar 23 j 02:41	20° Ω 51'32	4.28368 AU	evening set		-5152 Mar 18 j 04:08	27° \approx 47'15	
direct	-5158 May 22 j 23:49	16° Ω 02'31				-5152 Mar 27 j 20:29	0° H	
	-5158 Sep 06 j 08:48	0° H						
evening set	-5158 Sep 25 j 11:40	4° H 16'19		conjunction		-5152 Mar 31 j 22:00	0° H 55'50	-1°12'46
				minimum elong		-5152 Mar 31 j 22:04	0° H 55'52	1°12'55
conjunction	-5158 Oct 07 j 23:55	7° H 08'13	1°08'08	max. Earth dist.		-5152 Apr 02 j 11:05	1° H 17'04	6.13956 AU
minimum elong	-5158 Oct 07 j 23:58	7° H 08'15	1°08'15	morning rise		-5152 Apr 14 j 16:27	4° H 04'34	
max. Earth dist.	-5158 Oct 06 j 18:14	6° H 51'10	6.23536 AU	retrograde		-5152 Aug 19 j 16:13	22° H 58'53	
morning rise	-5158 Oct 20 j 11:56	10° H 00'14		min. Earth dist.		-5152 Oct 17 j 06:37	18° H 02'01	4.18995 AU
retrograde	-5157 Feb 23 j 09:17	28° H 27'56		opposition		-5152 Oct 18 j 00:06	17° H 56'05	-1°23'32
opposition	-5157 Apr 25 j 12:59	23° H 33'35	1°14'17	direct		-5152 Dec 16 j 10:36	12° H 53'59	
min. Earth dist.	-5157 Apr 26 j 05:09	23° H 28'25	4.18463 AU			-5151 Apr 15 j 21:13	0° Y	
direct	-5157 Jun 25 j 10:48	18° H 38'56		evening set		-5151 Apr 22 j 21:41	1° Y 33'16	
	-5157 Sep 25 j 16:56	0° E						
evening set	-5157 Oct 27 j 20:16	7° E 11'28		conjunction		-5151 May 06 j 15:08	4° Y 37'30	-0°35'43
				minimum elong		-5151 May 06 j 15:11	4° Y 37'32	0°35'42
conjunction	-5157 Nov 09 j 12:37	10° E 09'25	0°28'04	max. Earth dist.		-5151 May 07 j 06:16	4° Y 45'59	6.24042 AU
minimum elong	-5157 Nov 09 j 12:39	10° E 09'26	0°28'02	morning rise		-5151 May 20 j 07:22	7° Y 40'53	
max. Earth dist.	-5157 Nov 09 j 00:48	10° E 02'30	6.13483 AU	retrograde		-5151 Sep 20 j 22:36	25° Y 40'39	
morning rise	-5157 Nov 22 j 06:48	13° E 08'29		opposition		-5151 Nov 19 j 08:17	20° Y 41'31	-0°18'39
	-5156 Feb 18 j 16:52	0° L		min. Earth dist.		-5151 Nov 19 j 05:55	20° Y 42'18	4.28685 AU
retrograde	-5156 Mar 30 j 08:02	2° L 28'55		direct		-5150 Jan 19 j 02:17	15° Y 37'47	
	-5156 May 10 j 07:30	30° R E		asc. node		-5150 Mar 04 j 17:24	18° Y 33'21	
opposition	-5156 May 30 j 08:50	27° E 30'53	0°03'38			-5150 May 08 j 21:20	0° E	
min. Earth dist.	-5156 May 30 j 07:19	27° E 31'22	4.08988 AU	evening set		-5150 May 27 j 02:16	3° E 55'34	
desc. node	-5156 Jun 18 j 02:51	25° E 10'43						
direct	-5156 Jul 28 j 22:17	22° E 37'50		conjunction		-5150 Jun 09 j 14:09	6° E 53'55	0°11'34
	-5156 Oct 07 j 18:55	0° L		minimum elong		-5150 Jun 09 j 14:08	6° E 53'55	0°11'43
evening set	-5156 Nov 29 j 19:36	11° L 31'15		behind sun begin		-5150 Jun 09 j 08:25	6° E 50'46	
				behind sun end		-5150 Jun 09 j 19:50	6° E 57'03	
conjunction	-5156 Dec 12 j 19:03	14° L 35'46	-0°22'51	max. Earth dist.		-5150 Jun 09 j 06:40	6° E 49'48	6.32665 AU
minimum elong	-5156 Dec 12 j 19:01	14° L 35'44	0°23'02	morning rise		-5150 Jun 22 j 22:54	9° E 50'41	
max. Earth dist.	-5156 Dec 13 j 09:11	14° L 44'09	6.05492 AU			-5150 Jul 17 j 00:46	15° E	
	-5156 Dec 14 j 11:52	15° L		retrograde		-5150 Oct 22 j 03:37	27° E 11'14	
morning rise	-5156 Dec 25 j 21:20	17° L 41'56		opposition		-5150 Dec 20 j 21:53	22° E 15'56	0°49'25
	-5155 Feb 20 j 19:16	0° X		min. Earth dist.		-5150 Dec 21 j 09:33	22° E 12'06	4.35622 AU
retrograde	-5155 May 06 j 09:17	7° X 43'47		direct		-5149 Feb 20 j 17:37	17° E 12'14	
opposition	-5155 Jul 05 j 21:46	2° X 41'50	-1°10'51			-5149 Jun 04 j 02:16	0° H	
min. Earth dist.	-5155 Jul 05 j 04:35	2° X 47'33	4.03291 AU	evening set		-5149 Jun 28 j 19:16	5° H 15'16	
	-5155 Jul 27 j 10:40	30° R L						
direct	-5155 Sep 02 j 09:45	27° L 48'28		conjunction		-5149 Jul 11 j 21:44	8° H 07'50	0°54'19

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 23

Attention, astronomical year style is used: The year -5149 in astronomical counting style is the year 5150 BCE in historical counting style.

minimum elong	-5149 Jul 11 j 21:41	8° Π 07'48	0°54'35		-5143 Feb 01 j 02:02	0° ♁	
max. Earth dist.	-5149 Jul 10 j 17:20	7° Π 52'12	6.37351 AU	retrograde	-5143 May 11 j 09:55	12° ♁ 43'48	
morning rise	-5149 Jul 24 j 20:56	10° Π 58'44		opposition	-5143 Jul 10 j 21:56	7° ♁ 41'24	-1°19'40
retrograde	-5149 Nov 22 j 05:52	28° Π 03'46		min. Earth dist.	-5143 Jul 10 j 02:25	7° ♁ 47'54	4.03126 AU
opposition	-5148 Jan 21 j 10:13	23° Π 11'16	1°42'04	direct	-5143 Sep 07 j 06:19	2° ♁ 47'49	
min. Earth dist.	-5148 Jan 22 j 10:22	23° Π 03'28	4.37892 AU	evening set	-5142 Jan 09 j 12:45	21° ♁ 58'02	
direct	-5148 Mar 23 j 23:00	18° Π 08'56					
	-5148 Jun 30 j 16:01	0° ♁		conjunction	-5142 Jan 22 j 20:32	25° ♁ 07'21	-1°10'44
evening set	-5148 Jul 29 j 09:55	6° ♁ 06'41		minimum elong	-5142 Jan 22 j 20:29	25° ♁ 07'18	1°11'00
max. Earth dist.	-5148 Aug 09 j 13:07	8° ♁ 34'17	6.36906 AU	max. Earth dist.	-5142 Jan 24 j 08:59	25° ♁ 28'58	6.02652 AU
				morning rise	-5142 Feb 05 j 07:38	28° ♁ 18'23	
conjunction	-5148 Aug 11 j 03:37	8° ♁ 55'38	1°21'14		-5142 Feb 12 j 13:24	0° ♁	
minimum elong	-5148 Aug 11 j 03:34	8° ♁ 55'36	1°21'31	retrograde	-5142 Jun 17 j 03:54	18° ♁ 29'59	
morning rise	-5148 Aug 23 j 18:21	11° ♁ 43'14		min. Earth dist.	-5142 Aug 14 j 22:52	13° ♁ 34'18	4.03949 AU
retrograde	-5148 Dec 22 j 19:41	28° ♁ 57'32		opposition	-5142 Aug 16 j 01:54	13° ♁ 25'07	-2°02'56
opposition	-5147 Feb 21 j 12:59	24° ♁ 06'05	2°06'02	direct	-5142 Oct 13 j 03:26	8° ♁ 28'57	
min. Earth dist.	-5147 Feb 22 j 17:16	23° ♁ 57'04	4.34891 AU	evening set	-5141 Feb 15 j 10:41	27° ♁ 41'24	
direct	-5147 Apr 25 j 01:05	19° ♁ 06'09			-5141 Feb 25 j 08:26	0° ♁	
	-5147 Jul 27 j 05:41	0° ♁					
evening set	-5147 Aug 29 j 13:26	7° ♁ 08'18		conjunction	-5141 Mar 01 j 01:04	0° ♁ 51'47	-1°25'22
max. Earth dist.	-5147 Sep 09 j 11:27	9° ♁ 35'27	6.31484 AU	minimum elong	-5141 Mar 01 j 01:04	0° ♁ 51'47	1°25'38
				max. Earth dist.	-5141 Mar 02 j 21:21	1° ♁ 17'39	6.06460 AU
conjunction	-5147 Sep 11 j 01:47	9° ♁ 57'03	1°25'04	morning rise	-5141 Mar 14 j 17:41	4° ♁ 03'12	
minimum elong	-5147 Sep 11 j 01:48	9° ♁ 57'04	1°25'18		-5141 May 04 j 09:01	15° ♁	
morning rise	-5147 Sep 23 j 12:34	12° ♁ 45'12		retrograde	-5141 Jul 22 j 14:52	23° ♁ 44'28	
	-5147 Oct 03 j 15:07	15° ♁		min. Earth dist.	-5141 Sep 19 j 00:10	18° ♁ 48'28	4.10402 AU
	-5146 Jan 06 j 11:01	0° ♁		opposition	-5141 Sep 20 j 01:49	18° ♁ 39'42	-2°00'00
retrograde	-5146 Jan 24 j 18:19	0° ♁ 30'59			-5141 Oct 20 j 08:49	15° ♁	
	-5146 Feb 12 j 00:31	30° ♁		direct	-5141 Nov 17 j 14:10	13° ♁ 40'10	
opposition	-5146 Mar 26 j 19:28	25° ♁ 38'45	1°53'50		-5141 Dec 16 j 02:11	15° ♁	
min. Earth dist.	-5146 Mar 27 j 21:24	25° ♁ 30'31	4.27373 AU		-5140 Mar 11 j 09:17	0° ♁	
direct	-5146 May 27 j 17:36	20° ♁ 41'44		evening set	-5140 Mar 23 j 04:38	2° ♁ 39'33	
	-5146 Aug 19 j 10:01	0° ♁					
evening set	-5146 Sep 29 j 23:33	8° ♁ 56'37		conjunction	-5140 Apr 05 j 22:40	5° ♁ 47'49	-1°08'47
max. Earth dist.	-5146 Oct 11 j 07:35	11° ♁ 32'43	6.22503 AU	minimum elong	-5140 Apr 05 j 22:44	5° ♁ 47'52	1°08'56
				max. Earth dist.	-5140 Apr 07 j 07:52	6° ♁ 06'48	6.14978 AU
conjunction	-5146 Oct 12 j 11:57	11° ♁ 49'03	1°03'38	morning rise	-5140 Apr 19 j 17:21	8° ♁ 56'10	
minimum elong	-5146 Oct 12 j 12:01	11° ♁ 49'05	1°03'45	retrograde	-5140 Aug 24 j 06:41	27° ♁ 44'07	
morning rise	-5146 Oct 25 j 00:39	14° ♁ 41'46		opposition	-5140 Oct 22 j 14:01	22° ♁ 41'46	-1°15'30
	-5145 Jan 12 j 06:32	0° ♁		min. Earth dist.	-5140 Oct 21 j 22:45	22° ♁ 46'57	4.20043 AU
retrograde	-5145 Feb 28 j 06:17	3° ♁ 15'15		direct	-5140 Dec 21 j 04:39	17° ♁ 39'23	
	-5145 Apr 17 j 06:08	30° ♁		evening set	-5139 Mar 29 j 16:07	0° ♁	
opposition	-5145 Apr 30 j 11:35	28° ♁ 20'23	1°05'34		-5139 Apr 27 j 18:38	6° ♁ 16'49	
min. Earth dist.	-5145 May 01 j 00:43	28° ♁ 16'10	4.17454 AU				
direct	-5145 Jun 30 j 04:57	23° ♁ 25'59		conjunction	-5139 May 11 j 11:51	9° ♁ 20'30	-0°29'21
	-5145 Sep 05 j 18:42	0° ♁		minimum elong	-5139 May 11 j 11:54	9° ♁ 20'31	0°29'19
evening set	-5145 Nov 01 j 11:18	11° ♁ 59'53		max. Earth dist.	-5139 May 12 j 01:28	9° ♁ 28'07	6.25073 AU
				morning rise	-5139 May 25 j 03:13	12° ♁ 23'09	
conjunction	-5145 Nov 14 j 04:33	14° ♁ 58'35	0°21'15		-5139 Sep 12 j 02:26	0° ♁	
minimum elong	-5145 Nov 14 j 04:34	14° ♁ 58'36	0°21'12	retrograde	-5139 Sep 25 j 09:06	0° ♁ 17'21	
max. Earth dist.	-5145 Nov 13 j 21:07	14° ♁ 54'14	6.12595 AU		-5139 Oct 08 j 14:13	30° ♁	
morning rise	-5145 Nov 26 j 23:33	17° ♁ 58'26		opposition	-5139 Nov 23 j 19:33	25° ♁ 18'48	-0°08'47
	-5144 Jan 22 j 07:30	0° ♁		min. Earth dist.	-5139 Nov 23 j 18:26	25° ♁ 19'11	4.29615 AU
retrograde	-5144 Apr 04 j 10:54	7° ♁ 24'07		asc. node	-5138 Jan 12 j 06:28	20° ♁ 27'29	
desc. node	-5144 Apr 28 j 19:16	6° ♁ 28'41		direct	-5138 Jan 23 j 16:10	20° ♁ 15'04	
opposition	-5144 Jun 04 j 09:39	2° ♁ 25'34	-0°07'07		-5138 Apr 20 j 19:59	0° ♁	
min. Earth dist.	-5144 Jun 04 j 06:55	2° ♁ 26'27	4.08284 AU	evening set	-5138 May 31 j 19:02	8° ♁ 31'05	
	-5144 Jun 23 j 21:18	30° ♁					
direct	-5144 Aug 02 j 20:24	27° ♁ 32'34		conjunction	-5138 Jun 14 j 05:38	11° ♁ 28'39	0°18'10
	-5144 Sep 11 j 01:26	0° ♁		minimum elong	-5138 Jun 14 j 05:36	11° ♁ 28'38	0°18'21
	-5144 Nov 28 j 10:37	15° ♁		max. Earth dist.	-5138 Jun 13 j 18:05	11° ♁ 22'17	6.33423 AU
evening set	-5144 Dec 04 j 15:16	16° ♁ 27'19		morning rise	-5138 Jun 27 j 13:19	14° ♁ 24'38	
					-5138 Jun 30 j 06:00	15° ♁	
conjunction	-5144 Dec 17 j 15:33	19° ♁ 32'25	-0°29'44		-5138 Sep 23 j 15:23	0° ♁	
minimum elong	-5144 Dec 17 j 15:30	19° ♁ 32'23	0°29'56	retrograde	-5138 Oct 26 j 13:56	1° ♁ 41'58	
max. Earth dist.	-5144 Dec 18 j 07:33	19° ♁ 41'54	6.05021 AU		-5138 Nov 28 j 11:42	30° ♁	
morning rise	-5144 Dec 30 j 19:03	22° ♁ 39'16		opposition	-5138 Dec 25 j 08:39	26° ♁ 47'06	0°58'09

Attention, astronomical year style is used: The year -5138 in astronomical counting style is the year 5139 BCE in historical counting style.

min. Earth dist.	-5138 Dec 25 j 22:41	26°  42'30	4.36164 AU	opposition	-5132 Jun 09 j 11:47	7°  25'23	-0°17'59
direct	-5137 Feb 25 j 08:12	21°  43'30		min. Earth dist.	-5132 Jun 09 j 05:57	7°  27'17	4.07129 AU
	-5137 May 16 j 10:15	0°  II		direct	-5132 Aug 07 j 17:03	2°  32'25	
evening set	-5137 Jul 03 j 07:38	9°  II45'15			-5132 Nov 11 j 04:44	15°  M	
max. Earth dist.	-5137 Jul 15 j 04:12	12°  II21'21	6.37615 AU	evening set	-5132 Dec 09 j 13:56	21°  M30'25	
conjunction	-5137 Jul 16 j 08:56	12°  II37'10	0°59'18	conjunction	-5132 Dec 22 j 15:19	24°  M36'22	-0°36'32
minimum elong	-5137 Jul 16 j 08:52	12°  II37'08	0°59'33	minimum elong	-5132 Dec 22 j 15:16	24°  M36'20	0°36'45
morning rise	-5137 Jul 29 j 06:39	15°  II27'24		max. Earth dist.	-5132 Dec 23 j 10:33	24°  M47'48	6.04157 AU
	-5137 Oct 16 j 18:53	0°  ☿		morning rise	-5131 Jan 04 j 19:54	27°  M44'05	
retrograde	-5137 Nov 26 j 14:17	2°  ☿32'05			-5131 Jan 14 j 12:04	0°  ☿	
	-5136 Jan 06 j 22:08	30°  R  II		retrograde	-5131 May 16 j 15:39	17°  ☿52'37	
opposition	-5136 Jan 25 j 21:49	27°  II39'47	1°47'24	min. Earth dist.	-5131 Jul 15 j 04:44	12°  ☿56'34	4.02649 AU
min. Earth dist.	-5136 Jan 26 j 21:57	27°  II32'01	4.37866 AU	opposition	-5131 Jul 16 j 01:10	12°  ☿49'44	-1°28'08
direct	-5136 Mar 28 j 10:37	22°  II37'45		direct	-5131 Sep 12 j 08:06	7°  ☿55'52	
	-5136 Jun 11 j 13:44	0°  ☿		evening set	-5130 Jan 14 j 16:51	27°  ☿08'10	
evening set	-5136 Aug 02 j 19:42	10°  ☿35'07			-5130 Jan 26 j 19:26	0°  ☿	
max. Earth dist.	-5136 Aug 13 j 20:44	13°  ☿01'47	6.36554 AU	conjunction	-5130 Jan 28 j 01:45	0°  ☿17'58	-1°14'39
conjunction	-5136 Aug 15 j 12:12	13°  ☿23'43	1°23'16	minimum elong	-5130 Jan 28 j 01:41	0°  ☿17'56	1°14'56
minimum elong	-5136 Aug 15 j 12:10	13°  ☿23'42	1°23'33	max. Earth dist.	-5130 Jan 29 j 17:05	0°  ☿41'16	6.02597 AU
morning rise	-5136 Aug 28 j 02:08	16°  ☿11'06		morning rise	-5130 Feb 10 j 13:49	3°  ☿29'25	
	-5136 Nov 08 j 22:10	0°  ♂		retrograde	-5130 Jun 22 j 07:38	23°  ☿39'45	
retrograde	-5136 Dec 27 j 09:20	3°  ♂28'02		min. Earth dist.	-5130 Aug 19 j 23:13	18°  ☿44'16	4.04362 AU
	-5135 Feb 15 j 00:58	30°  R  ☿		opposition	-5130 Aug 21 j 03:05	18°  ☿34'47	-2°05'27
opposition	-5135 Feb 26 j 03:21	28°  ☿36'34	2°06'34	direct	-5130 Oct 18 j 04:08	13°  ☿38'14	
min. Earth dist.	-5135 Feb 27 j 08:45	28°  ☿27'13	4.34212 AU		-5129 Feb 08 j 08:23	0°  ♊	
direct	-5135 Apr 29 j 16:01	23°  ☿36'59		evening set	-5129 Feb 20 j 16:59	2°  ♊50'23	
	-5135 Jul 07 j 09:16	0°  ♂		conjunction	-5129 Mar 06 j 07:58	6°  ♊00'41	-1°24'50
evening set	-5135 Sep 02 j 22:28	11°  ♂39'56		minimum elong	-5129 Mar 06 j 07:59	6°  ♊00'42	1°25'04
max. Earth dist.	-5135 Sep 13 j 20:37	14°  ♂07'31	6.30513 AU	max. Earth dist.	-5129 Mar 08 j 02:56	6°  ♊25'44	6.07303 AU
conjunction	-5135 Sep 15 j 10:33	14°  ♂28'57	1°23'33	morning rise	-5129 Mar 20 j 01:16	9°  ♊11'58	
minimum elong	-5135 Sep 15 j 10:35	14°  ♂28'58	1°23'45		-5129 Apr 14 j 19:07	15°  ♊	
	-5135 Sep 17 j 17:30	15°  ♂		retrograde	-5129 Jul 27 j 12:05	28°  ♊47'02	
morning rise	-5135 Sep 27 j 21:15	17°  ♂17'27		opposition	-5129 Sep 24 j 22:35	23°  ♊42'27	-1°55'51
	-5135 Nov 30 j 10:13	0°  ♊		min. Earth dist.	-5129 Sep 23 j 21:30	23°  ♊51'02	4.11610 AU
retrograde	-5134 Jan 29 j 10:11	5°  ♊08'39		direct	-5129 Nov 22 j 14:01	18°  ♊42'29	
opposition	-5134 Mar 31 j 13:48	0°  ♊16'06	1°49'05		-5128 Feb 22 j 06:44	0°  ♋	
min. Earth dist.	-5134 Apr 01 j 13:42	0°  ♊08'30	4.26160 AU	evening set	-5128 Mar 28 j 08:20	7°  ♋39'00	
	-5134 Apr 02 j 16:28	30°  R  ♂		conjunction	-5128 Apr 11 j 02:43	10°  ♋46'44	-1°04'16
direct	-5134 Jun 01 j 07:55	25°  ♂19'27		minimum elong	-5128 Apr 11 j 02:47	10°  ♋46'47	1°04'22
	-5134 Jul 28 j 11:40	0°  ♊		max. Earth dist.	-5128 Apr 12 j 11:41	11°  ♋05'31	6.16509 AU
evening set	-5134 Oct 04 j 10:41	13°  ♊36'24		morning rise	-5128 Apr 24 j 21:04	13°  ♋54'18	
conjunction	-5134 Oct 16 j 23:31	16°  ♊29'34	0°58'45		-5128 Jul 19 j 11:41	0°  ♌	
minimum elong	-5134 Oct 16 j 23:35	16°  ♊29'36	0°58'51	retrograde	-5128 Aug 28 j 22:12	2°  ♌33'28	
max. Earth dist.	-5134 Oct 15 j 21:53	16°  ♊14'45	6.21155 AU		-5128 Oct 08 j 02:56	30°  R  ♋	
morning rise	-5134 Oct 29 j 12:47	19°  ♊23'08		opposition	-5128 Oct 27 j 05:36	27°  ♋31'35	-1°06'52
	-5134 Dec 18 j 08:36	0°  ♌		min. Earth dist.	-5128 Oct 26 j 15:38	27°  ♋36'19	4.21750 AU
retrograde	-5133 Mar 05 j 06:39	8°  ♌03'50		direct	-5128 Dec 26 j 00:26	22°  ♋28'59	
opposition	-5133 May 05 j 10:37	3°  ♌08'31	0°56'25		-5127 Mar 09 j 21:35	0°  ♌	
min. Earth dist.	-5133 May 05 j 22:52	3°  ♌04'35	4.16038 AU	evening set	-5127 May 02 j 16:29	11°  ♌01'50	
	-5133 Jun 01 j 01:23	30°  R  ♊		conjunction	-5127 May 16 j 08:52	14°  ♌04'28	-0°22'48
direct	-5133 Jul 05 j 01:00	28°  ♊14'22		minimum elong	-5127 May 16 j 08:54	14°  ♌04'30	0°22'45
	-5133 Aug 07 j 13:47	0°  ♌		max. Earth dist.	-5127 May 16 j 18:36	14°  ♌09'53	6.26832 AU
evening set	-5133 Nov 06 j 03:26	16°  ♌51'16		morning rise	-5127 May 29 j 23:28	17°  ♌06'01	
conjunction	-5133 Nov 18 j 21:31	19°  ♌50'56	0°14'15		-5127 Aug 03 j 11:17	0°  ♌	
minimum elong	-5133 Nov 18 j 21:33	19°  ♌50'57	0°14'11	retrograde	-5127 Sep 29 j 18:17	4°  ♌52'09	
behind sun begin	-5133 Nov 18 j 17:29	19°  ♌48'34		asc. node	-5127 Nov 22 j 14:13	0°  ♌39'21	
behind sun end	-5133 Nov 19 j 01:37	19°  ♌53'19			-5127 Nov 27 j 12:52	30°  R  ♌	
max. Earth dist.	-5133 Nov 18 j 16:09	19°  ♌47'47	6.11246 AU	opposition	-5127 Nov 28 j 06:38	29°  ♌54'05	0°01'00
morning rise	-5133 Dec 01 j 17:46	22°  ♌51'53		min. Earth dist.	-5127 Nov 28 j 07:33	29°  ♌53'47	4.31282 AU
	-5132 Jan 02 j 08:50	0°  ♌		direct	-5126 Jan 28 j 08:26	24°  ♌50'14	
desc. node	-5132 Mar 08 j 21:03	10°  ♌52'11			-5126 Mar 30 j 08:14	0°  ♌	
retrograde	-5132 Apr 09 j 13:34	12°  ♌24'31		evening set	-5126 Jun 05 j 09:41	13°  ♌01'42	

Attention, astronomical year style is used: The year -5126 in astronomical counting style is the year 5127 BCE in historical counting style.

	-5126 Jun 14 j 09:27	15°♄		minimum elong	-5121 Nov 23 j 14:14	24°♌41'44	0°07'11
				behind sun begin	-5121 Nov 23 j 06:48	24°♌37'22	
conjunction	-5126 Jun 18 j 19:06	15°♄58'09	0°24'30	behind sun end	-5121 Nov 23 j 21:39	24°♌46'06	
minimum elong	-5126 Jun 18 j 19:04	15°♄58'08	0°24'43	max. Earth dist.	-5121 Nov 23 j 11:56	24°♌40'24	6.09373 AU
max. Earth dist.	-5126 Jun 18 j 06:05	15°♄50'59	6.34875 AU	morning rise	-5121 Dec 06 j 11:42	27°♌44'04	
morning rise	-5126 Jul 02 j 01:10	18°♄52'54			-5121 Dec 16 j 05:18	0°♌	
	-5126 Aug 26 j 16:48	0°♌		desc. node	-5120 Jan 18 j 16:03	7°♌18'22	
retrograde	-5126 Oct 30 j 19:06	6°♌05'00			-5120 Mar 05 j 16:03	15°♌	
opposition	-5126 Dec 29 j 16:45	1°♌10'35	1°06'14	retrograde	-5120 Apr 14 j 18:54	17°♌25'54	
min. Earth dist.	-5126 Dec 30 j 08:12	1°♌05'33	4.37299 AU		-5120 May 25 j 01:01	15°♌	
	-5125 Jan 07 j 19:13	30°♌		opposition	-5120 Jun 14 j 14:18	12°♌26'13	-0°28'40
direct	-5125 Mar 01 j 19:31	26°♌07'09		min. Earth dist.	-5120 Jun 14 j 06:35	12°♌28'45	4.05509 AU
	-5125 Apr 23 j 15:06	0°♌		direct	-5120 Aug 12 j 15:21	7°♌33'16	
evening set	-5125 Jul 07 j 16:29	14°♌05'41			-5120 Oct 22 j 10:23	15°♌	
max. Earth dist.	-5125 Jul 19 j 07:40	16°♌38'48	6.38314 AU	evening set	-5120 Dec 14 j 13:52	26°♌36'27	
conjunction	-5125 Jul 20 j 16:13	16°♌56'43	1°03'43	conjunction	-5120 Dec 27 j 16:32	29°♌43'28	-0°43'02
minimum elong	-5125 Jul 20 j 16:09	16°♌56'41	1°03'59	minimum elong	-5120 Dec 27 j 16:28	29°♌43'26	0°43'17
morning rise	-5125 Aug 02 j 12:45	19°♌46'08			-5120 Dec 28 j 20:17	0°♌	
	-5125 Sep 22 j 03:07	0°♌		max. Earth dist.	-5120 Dec 28 j 16:09	29°♌57'32	6.02945 AU
retrograde	-5125 Nov 30 j 20:49	6°♌49'28		morning rise	-5119 Jan 09 j 22:23	2°♌52'17	
opposition	-5124 Jan 30 j 05:39	1°♌57'23	1°51'52	retrograde	-5119 May 21 j 23:07	23°♌05'46	
min. Earth dist.	-5124 Jan 31 j 08:08	1°♌48'53	4.38093 AU	min. Earth dist.	-5119 Jul 20 j 07:00	18°♌10'06	4.02010 AU
	-5124 Feb 14 j 21:29	30°♌		opposition	-5119 Jul 21 j 05:43	18°♌02'29	-1°35'56
direct	-5124 Apr 01 j 20:53	26°♌55'33		direct	-5119 Sep 17 j 09:38	13°♌08'24	
	-5124 May 18 j 13:41	0°♌			-5118 Jan 09 j 18:10	0°♌	
evening set	-5124 Aug 07 j 00:43	14°♌51'55		evening set	-5118 Jan 19 j 23:25	2°♌23'19	
max. Earth dist.	-5124 Aug 18 j 00:34	17°♌18'05	6.36267 AU				
conjunction	-5124 Aug 19 j 16:28	17°♌40'16	1°24'43	conjunction	-5118 Feb 02 j 09:13	5°♌33'34	-1°17'59
minimum elong	-5124 Aug 19 j 16:27	17°♌40'15	1°25'00	minimum elong	-5118 Feb 02 j 09:10	5°♌33'32	1°18'16
morning rise	-5124 Sep 01 j 05:30	20°♌27'25		max. Earth dist.	-5118 Feb 04 j 01:52	5°♌57'38	6.02551 AU
	-5124 Oct 17 j 09:41	0°♌		morning rise	-5118 Feb 15 j 22:23	8°♌45'26	
retrograde	-5124 Dec 31 j 16:48	7°♌47'13		retrograde	-5118 Jun 27 j 10:59	28°♌53'52	
opposition	-5123 Mar 02 j 13:30	2°♌55'44	2°06'21	min. Earth dist.	-5118 Aug 25 j 00:25	23°♌58'32	4.04912 AU
min. Earth dist.	-5123 Mar 03 j 18:39	2°♌46'28	4.33429 AU	opposition	-5118 Aug 26 j 05:19	23°♌48'40	-2°06'56
	-5123 Mar 27 j 05:19	30°♌		direct	-5118 Oct 23 j 07:14	18°♌51'34	
direct	-5123 May 03 j 23:59	27°♌56'30			-5117 Jan 20 j 20:27	0°♌	
	-5123 Jun 10 j 14:16	0°♌		evening set	-5117 Feb 26 j 00:34	8°♌02'40	
	-5123 Sep 02 j 14:29	15°♌		conjunction	-5117 Mar 11 j 16:26	11°♌12'49	-1°23'36
evening set	-5123 Sep 07 j 03:25	16°♌00'57		minimum elong	-5117 Mar 11 j 16:28	11°♌12'50	1°23'49
max. Earth dist.	-5123 Sep 18 j 00:50	18°♌28'37	6.29285 AU	max. Earth dist.	-5117 Mar 13 j 12:59	11°♌38'42	6.08383 AU
conjunction	-5123 Sep 19 j 15:12	18°♌50'21	1°21'36	morning rise	-5117 Mar 25 j 10:02	14°♌23'44	
minimum elong	-5123 Sep 19 j 15:14	18°♌50'22	1°21'48		-5117 Mar 28 j 01:07	15°♌	
morning rise	-5123 Oct 02 j 02:00	21°♌39'24		retrograde	-5117 Jun 12 j 03:13	0°♌	
	-5123 Nov 10 j 00:41	0°♌			-5117 Aug 01 j 10:31	3°♌51'16	
retrograde	-5122 Feb 03 j 02:13	9°♌37'21			-5117 Sep 20 j 19:26	30°♌	
opposition	-5122 Apr 05 j 04:54	4°♌44'34	1°43'52	opposition	-5117 Sep 29 j 19:47	28°♌46'52	-1°50'46
min. Earth dist.	-5122 Apr 06 j 05:14	4°♌36'50	4.24539 AU	min. Earth dist.	-5117 Sep 28 j 19:58	28°♌55'00	4.13051 AU
	-5122 May 25 j 14:30	30°♌		direct	-5117 Nov 27 j 14:46	23°♌46'26	
direct	-5122 Jun 05 j 20:36	29°♌48'15			-5116 Jan 31 j 20:26	0°♌	
	-5122 Jun 17 j 00:58	0°♌		evening set	-5116 Apr 02 j 12:03	12°♌39'06	
evening set	-5122 Oct 08 j 19:15	18°♌09'06		conjunction	-5116 Apr 16 j 06:22	15°♌46'07	-0°59'14
max. Earth dist.	-5122 Oct 20 j 08:23	20°♌49'12	6.19294 AU	minimum elong	-5116 Apr 16 j 06:26	15°♌46'10	0°59'19
conjunction	-5122 Oct 21 j 08:45	21°♌03'18	0°53'39	max. Earth dist.	-5116 Apr 17 j 12:18	16°♌03'06	6.18152 AU
minimum elong	-5122 Oct 21 j 08:49	21°♌03'20	0°53'43	morning rise	-5116 Apr 30 j 00:37	18°♌52'53	
morning rise	-5122 Nov 02 j 22:52	23°♌58'03			-5116 Jun 22 j 11:30	0°♌	
	-5122 Nov 29 j 21:36	0°♌		retrograde	-5116 Sep 02 j 12:01	7°♌23'05	
retrograde	-5121 Mar 10 j 04:03	12°♌48'01		opposition	-5116 Oct 31 j 21:07	2°♌21'38	-0°57'45
opposition	-5121 May 10 j 07:33	7°♌52'18	0°47'06	min. Earth dist.	-5116 Oct 31 j 08:38	2°♌25'52	4.23409 AU
min. Earth dist.	-5121 May 10 j 17:10	7°♌49'12	4.14080 AU		-5116 Nov 19 j 02:34	30°♌	
direct	-5121 Jul 09 j 15:29	2°♌58'26		direct	-5116 Dec 30 j 20:24	27°♌18'43	
evening set	-5121 Nov 10 j 19:05	21°♌40'47			-5115 Feb 11 j 02:11	0°♌	
				evening set	-5115 May 07 j 14:03	15°♌47'23	
conjunction	-5121 Nov 23 j 14:13	24°♌41'43	0°07'17	conjunction	-5115 May 21 j 05:45	18°♌49'04	-0°16'03

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 26

Attention, astronomical year style is used: The year -5115 in astronomical counting style is the year 5116 BCE in historical counting style.

minimum elong	-5115 May 21 j 05:46	18° Υ 49'05	0°15'59	direct	-5109 Jul 14 j 14:15	7° Ω 56'19	
max. Earth dist.	-5115 May 21 j 12:38	18° Υ 52'53	6.28381 AU	evening set	-5109 Nov 15 j 15:39	26° Ω 42'03	
morning rise	-5115 Jun 03 j 19:14	21° Υ 49'31		desc. node	-5109 Nov 27 j 09:15	29° Ω 28'13	
	-5115 Jul 12 j 16:48	0° \mathcal{B}					
asc. node	-5115 Oct 01 j 22:02	9° \mathcal{B} 28'13		conjunction	-5109 Nov 28 j 11:54	29° Ω 43'59	-0°00'09
retrograde	-5115 Oct 04 j 05:05	9° \mathcal{B} 28'44		minimum elong	-5109 Nov 28 j 11:54	29° Ω 43'59	0°00'17
opposition	-5115 Dec 02 j 18:16	4° \mathcal{B} 31'14	0°10'54	behind sun begin	-5109 Nov 28 j 03:51	29° Ω 39'15	
min. Earth dist.	-5115 Dec 02 j 21:45	4° \mathcal{B} 30'05	4.32585 AU	behind sun end	-5109 Nov 28 j 19:57	29° Ω 48'43	
	-5114 Jan 14 j 08:37	30° \mathcal{K} Υ		max. Earth dist.	-5109 Nov 28 j 14:20	29° Ω 45'22	6.08170 AU
direct	-5114 Feb 02 j 01:04	29° Υ 27'21			-5109 Nov 29 j 14:59	0° \mathcal{M}	
	-5114 Feb 20 j 21:09	0° \mathcal{B}		morning rise	-5109 Dec 11 j 10:31	2° \mathcal{M} 47'22	
	-5114 May 29 j 00:56	15° \mathcal{B}			-5108 Feb 06 j 03:46	15° \mathcal{M}	
evening set	-5114 Jun 10 j 01:21	17° \mathcal{B} 35'44		retrograde	-5108 Apr 20 j 01:46	22° \mathcal{M} 35'09	
				opposition	-5108 Jun 19 j 19:47	17° \mathcal{M} 34'57	-0°39'29
conjunction	-5114 Jun 23 j 09:24	20° \mathcal{B} 31'15	0°30'51	min. Earth dist.	-5108 Jun 19 j 09:11	17° \mathcal{M} 38'26	4.04748 AU
minimum elong	-5114 Jun 23 j 09:21	20° \mathcal{B} 31'14	0°31'03		-5108 Jul 10 j 12:31	15° \mathcal{K} \mathcal{M}	
max. Earth dist.	-5114 Jun 22 j 16:11	20° \mathcal{B} 21'47	6.35814 AU	direct	-5108 Aug 17 j 16:43	12° \mathcal{M} 42'02	
morning rise	-5114 Jul 06 j 14:13	23° \mathcal{B} 25'05			-5108 Sep 24 j 08:28	15° \mathcal{M}	
	-5114 Aug 06 j 19:24	0° \mathcal{I}			-5108 Dec 12 j 02:35	0° \mathcal{X}	
retrograde	-5114 Nov 04 j 03:47	10° \mathcal{I} 33'58		evening set	-5108 Dec 19 j 16:36	1° \mathcal{X} 47'06	
opposition	-5113 Jan 03 j 03:18	5° \mathcal{I} 39'56	1°14'12				
min. Earth dist.	-5113 Jan 03 j 20:49	5° \mathcal{I} 34'13	4.37839 AU	conjunction	-5107 Jan 01 j 20:08	4° \mathcal{X} 54'39	-0°49'22
direct	-5113 Mar 06 j 08:55	0° \mathcal{I} 36'35		minimum elong	-5107 Jan 01 j 20:04	4° \mathcal{X} 54'37	0°49'36
evening set	-5113 Jul 12 j 03:40	18° \mathcal{I} 33'54		max. Earth dist.	-5107 Jan 02 j 22:07	5° \mathcal{X} 10'07	6.02677 AU
max. Earth dist.	-5113 Jul 23 j 16:56	21° \mathcal{I} 06'00	6.38404 AU	morning rise	-5107 Jan 15 j 03:10	8° \mathcal{X} 04'03	
				retrograde	-5107 May 27 j 03:58	28° \mathcal{X} 18'16	
conjunction	-5113 Jul 25 j 02:13	21° \mathcal{I} 24'20	1°07'59	min. Earth dist.	-5107 Jul 25 j 08:55	23° \mathcal{X} 22'52	4.02286 AU
minimum elong	-5113 Jul 25 j 02:09	21° \mathcal{I} 24'18	1°08'15	opposition	-5107 Jul 26 j 09:44	23° \mathcal{X} 14'31	-1°42'57
morning rise	-5113 Aug 06 j 21:21	24° \mathcal{I} 13'10		direct	-5107 Sep 22 j 12:38	18° \mathcal{X} 20'03	
	-5113 Sep 03 j 02:00	0° \mathcal{O}			-5107 Dec 22 j 19:28	0° \mathcal{Z}	
retrograde	-5113 Dec 05 j 06:34	11° \mathcal{O} 17'16		evening set	-5106 Jan 25 j 04:49	7° \mathcal{Z} 34'20	
opposition	-5112 Feb 03 j 17:45	6° \mathcal{O} 25'23	1°55'59				
min. Earth dist.	-5112 Feb 04 j 20:58	6° \mathcal{O} 16'41	4.37746 AU	conjunction	-5106 Feb 07 j 15:40	10° \mathcal{Z} 44'37	-1°20'41
direct	-5112 Apr 06 j 09:15	1° \mathcal{O} 23'54		minimum elong	-5106 Feb 07 j 15:37	10° \mathcal{Z} 44'36	1°20'58
evening set	-5112 Aug 11 j 10:18	19° \mathcal{O} 20'53		max. Earth dist.	-5106 Feb 09 j 11:16	11° \mathcal{Z} 10'22	6.03328 AU
max. Earth dist.	-5112 Aug 22 j 07:08	21° \mathcal{O} 45'46	6.35489 AU	morning rise	-5106 Feb 21 j 05:24	13° \mathcal{Z} 56'23	
					-5106 May 12 j 01:44	0° \mathcal{A}	
conjunction	-5112 Aug 24 j 01:04	22° \mathcal{O} 09'08	1°25'49	retrograde	-5106 Jul 02 j 12:18	3° \mathcal{A} 59'39	
minimum elong	-5112 Aug 24 j 01:03	22° \mathcal{O} 09'08	1°26'04		-5106 Aug 23 j 02:37	30° \mathcal{K} \mathcal{Z}	
morning rise	-5112 Sep 05 j 13:36	24° \mathcal{O} 56'21		min. Earth dist.	-5106 Aug 30 j 00:25	29° \mathcal{Z} 04'00	4.06104 AU
	-5112 Sep 28 j 22:36	0° \mathcal{Q}		opposition	-5106 Aug 31 j 04:32	28° \mathcal{Z} 54'25	-2°07'22
retrograde	-5111 Jan 05 j 08:37	12° \mathcal{Q} 20'34		direct	-5106 Oct 28 j 08:23	23° \mathcal{Z} 56'51	
opposition	-5111 Mar 07 j 05:37	7° \mathcal{Q} 29'01	2°05'26		-5106 Dec 30 j 14:12	0° \mathcal{A}	
min. Earth dist.	-5111 Mar 08 j 11:19	7° \mathcal{Q} 19'34	4.32273 AU	evening set	-5105 Mar 03 j 04:39	13° \mathcal{A} 04'51	
direct	-5111 May 08 j 14:48	2° \mathcal{Q} 30'07			-5105 Mar 11 j 12:06	15° \mathcal{A}	
	-5111 Aug 16 j 22:35	15° \mathcal{Q}					
evening set	-5111 Sep 11 j 13:57	20° \mathcal{Q} 36'55		conjunction	-5105 Mar 16 j 20:55	16° \mathcal{A} 14'33	-1°21'47
max. Earth dist.	-5111 Sep 22 j 13:23	23° \mathcal{Q} 06'10	6.27859 AU	minimum elong	-5105 Mar 16 j 20:58	16° \mathcal{A} 14'35	1°22'00
				max. Earth dist.	-5105 Mar 18 j 15:28	16° \mathcal{A} 39'10	6.09856 AU
conjunction	-5111 Sep 24 j 01:51	23° \mathcal{Q} 26'54	1°19'04	morning rise	-5105 Mar 30 j 14:56	19° \mathcal{A} 24'56	
minimum elong	-5111 Sep 24 j 01:53	23° \mathcal{Q} 26'55	1°19'15		-5105 May 18 j 22:32	0° \mathcal{H}	
morning rise	-5111 Oct 06 j 12:43	26° \mathcal{Q} 16'35		retrograde	-5105 Aug 06 j 02:20	8° \mathcal{H} 43'54	
	-5111 Oct 23 j 05:54	0° \mathcal{P}		opposition	-5105 Oct 04 j 12:29	3° \mathcal{H} 39'49	-1°45'05
retrograde	-5110 Feb 07 j 22:42	14° \mathcal{P} 21'43		min. Earth dist.	-5105 Oct 03 j 13:27	3° \mathcal{H} 47'41	4.14650 AU
opposition	-5110 Apr 10 j 02:24	9° \mathcal{P} 28'39	1°37'40		-5105 Nov 03 j 20:20	30° \mathcal{K} \mathcal{A}	
min. Earth dist.	-5110 Apr 11 j 00:34	9° \mathcal{P} 21'36	4.22945 AU	direct	-5105 Dec 02 j 10:36	28° \mathcal{A} 38'57	
direct	-5110 Jun 10 j 13:00	4° \mathcal{P} 32'46			-5105 Dec 31 j 09:57	0° \mathcal{H}	
evening set	-5110 Oct 13 j 09:51	22° \mathcal{P} 57'00		evening set	-5104 Apr 07 j 11:30	17° \mathcal{H} 27'47	
conjunction	-5110 Oct 25 j 23:51	25° \mathcal{P} 52'08	0°47'54	conjunction	-5104 Apr 21 j 05:46	20° \mathcal{H} 34'07	-0°53'59
minimum elong	-5110 Oct 25 j 23:55	25° \mathcal{P} 52'10	0°47'56	minimum elong	-5104 Apr 21 j 05:50	20° \mathcal{H} 34'09	0°54'03
max. Earth dist.	-5110 Oct 25 j 01:50	25° \mathcal{P} 39'20	6.17689 AU	max. Earth dist.	-5104 Apr 22 j 08:09	20° \mathcal{H} 49'01	6.19760 AU
morning rise	-5110 Nov 07 j 14:55	28° \mathcal{P} 47'59		morning rise	-5104 May 04 j 23:35	23° \mathcal{H} 40'00	
	-5110 Nov 12 j 20:05	0° \mathcal{U}			-5104 Jun 03 j 02:35	0° \mathcal{Y}	
retrograde	-5109 Mar 15 j 08:35	17° \mathcal{U} 46'11		retrograde	-5104 Sep 07 j 00:33	12° \mathcal{Y} 02'06	
opposition	-5109 May 15 j 10:30	12° \mathcal{U} 49'55	0°36'54	opposition	-5104 Nov 05 j 08:52	7° \mathcal{Y} 01'14	-0°48'36
min. Earth dist.	-5109 May 15 j 17:51	12° \mathcal{U} 47'33	4.12589 AU	min. Earth dist.	-5104 Nov 04 j 23:36	7° \mathcal{Y} 04'22	4.24856 AU

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 27

Attention, astronomical year style is used: The year -5103 in astronomical counting style is the year 5104 BCE in historical counting style.

direct	-5103 Jan 04 j 13:41	1°♂58'06		minimum elong	-5098 Oct 30 j 16:15	0°♂44'13	0°41'47
evening set	-5103 May 12 j 07:55	20°♂23'41		max. Earth dist.	-5098 Oct 29 j 22:45	0°♂34'01	6.16368 AU
				morning rise	-5098 Nov 12 j 08:02	3°♂40'58	
conjunction	-5103 May 25 j 22:51	23°♂24'35	-0°09'26	retrograde	-5097 Mar 20 j 11:41	22°♂45'58	
minimum elong	-5103 May 25 j 22:52	23°♂24'35	0°09'20	opposition	-5097 May 20 j 13:25	17°♂49'11	0°26'23
behind sun begin	-5103 May 25 j 15:59	23°♂20'47		min. Earth dist.	-5097 May 20 j 18:09	17°♂47'39	4.11480 AU
behind sun end	-5103 May 26 j 05:46	23°♂28'23		direct	-5097 Jul 19 j 12:35	12°♂55'49	
max. Earth dist.	-5103 May 26 j 01:51	23°♂26'13	6.29557 AU	desc. node	-5097 Oct 06 j 04:05	21°♂43'31	
morning rise	-5103 Jun 08 j 11:23	26°♂24'09			-5097 Nov 13 j 03:11	0°♂	
	-5103 Jun 25 j 01:10	0°♂		evening set	-5097 Nov 20 j 12:23	1°♂43'37	
asc. node	-5103 Aug 12 j 08:35	9°♂07'51					
retrograde	-5103 Oct 08 j 12:36	13°♂58'17		conjunction	-5097 Dec 03 j 09:25	4°♂46'18	-0°07'33
opposition	-5103 Dec 07 j 03:31	9°♂01'21	0°20'27	minimum elong	-5097 Dec 03 j 09:24	4°♂46'17	0°07'42
min. Earth dist.	-5103 Dec 07 j 08:46	8°♂59'36	4.33421 AU	behind sun begin	-5097 Dec 03 j 02:04	4°♂41'58	
direct	-5102 Feb 06 j 13:11	3°♂57'27		behind sun end	-5097 Dec 03 j 16:44	4°♂50'37	
	-5102 May 11 j 20:49	15°♂		max. Earth dist.	-5097 Dec 03 j 14:23	4°♂49'13	6.07352 AU
evening set	-5102 Jun 14 j 14:43	22°♂04'34		morning rise	-5097 Dec 16 j 09:18	7°♂50'34	
					-5096 Jan 16 j 21:31	15°♂	
conjunction	-5102 Jun 27 j 21:30	24°♂59'22	0°36'51	retrograde	-5096 Apr 25 j 06:22	27°♂42'45	
minimum elong	-5102 Jun 27 j 21:27	24°♂59'21	0°37'04	opposition	-5096 Jun 24 j 23:53	22°♂41'56	-0°49'56
max. Earth dist.	-5102 Jun 27 j 01:27	24°♂48'21	6.36250 AU	min. Earth dist.	-5096 Jun 24 j 10:25	22°♂46'23	4.04298 AU
morning rise	-5102 Jul 11 j 00:57	27°♂52'30		direct	-5096 Aug 22 j 17:49	17°♂48'53	
	-5102 Jul 20 j 20:11	0°♂			-5096 Nov 24 j 13:22	0°♂	
retrograde	-5102 Nov 08 j 12:56	15°♂00'08		evening set	-5096 Dec 24 j 17:56	6°♂54'58	
opposition	-5101 Jan 07 j 13:03	10°♂06'35	1°21'37				
min. Earth dist.	-5101 Jan 08 j 08:47	10°♂00'11	4.37871 AU	conjunction	-5095 Jan 06 j 22:36	10°♂02'59	-0°55'15
direct	-5101 Mar 10 j 21:07	5°♂03'29		minimum elong	-5095 Jan 06 j 22:32	10°♂02'57	0°55'30
evening set	-5101 Jul 16 j 14:29	23°♂01'17		max. Earth dist.	-5095 Jan 08 j 04:54	10°♂21'00	6.02627 AU
max. Earth dist.	-5101 Jul 27 j 23:37	25°♂31'26	6.38007 AU	morning rise	-5095 Jan 20 j 06:29	13°♂12'46	
					-5095 Apr 14 j 13:06	0°♂	
conjunction	-5101 Jul 29 j 11:47	25°♂51'22	1°11'47	retrograde	-5095 Jun 01 j 08:38	3°♂26'53	
minimum elong	-5101 Jul 29 j 11:43	25°♂51'20	1°12'04		-5095 Jul 19 j 06:02	30°♂	
morning rise	-5101 Aug 11 j 05:54	28°♂39'55		min. Earth dist.	-5095 Jul 30 j 10:42	28°♂31'15	4.02663 AU
	-5101 Aug 17 j 08:34	0°♂		opposition	-5095 Jul 31 j 11:45	28°♂22'48	-1°49'07
retrograde	-5101 Dec 09 j 18:28	15°♂46'28		direct	-5095 Sep 27 j 14:13	23°♂27'58	
opposition	-5100 Feb 08 j 06:34	10°♂54'46	1°59'25		-5095 Dec 02 j 01:25	0°♂	
min. Earth dist.	-5100 Feb 09 j 10:25	10°♂45'51	4.36986 AU	evening set	-5094 Jan 30 j 08:52	12°♂41'32	
direct	-5100 Apr 10 j 21:22	5°♂53'36					
evening set	-5100 Aug 15 j 20:27	23°♂52'30		conjunction	-5094 Feb 12 j 20:26	15°♂51'48	-1°22'46
max. Earth dist.	-5100 Aug 26 j 18:21	26°♂18'21	6.34427 AU	minimum elong	-5094 Feb 12 j 20:24	15°♂51'47	1°23'02
				max. Earth dist.	-5094 Feb 14 j 15:49	16°♂17'21	6.04070 AU
conjunction	-5100 Aug 28 j 10:40	26°♂40'54	1°26'21	morning rise	-5094 Feb 26 j 11:03	19°♂03'32	
minimum elong	-5100 Aug 28 j 10:39	26°♂40'54	1°26'36		-5094 Apr 17 j 14:51	0°♂	
morning rise	-5100 Sep 09 j 22:32	29°♂28'18		retrograde	-5094 Jul 07 j 09:18	9°♂01'43	
	-5100 Sep 12 j 07:40	0°♂		min. Earth dist.	-5094 Sep 03 j 21:03	4°♂06'14	4.07155 AU
	-5100 Dec 05 j 00:17	15°♂		opposition	-5094 Sep 05 j 01:35	3°♂56'29	-2°06'55
retrograde	-5099 Jan 10 j 01:15	16°♂57'53			-5094 Oct 08 j 16:36	30°♂	
	-5099 Feb 15 j 11:25	15°♂		direct	-5094 Nov 02 j 06:27	28°♂58'25	
opposition	-5099 Mar 11 j 23:23	12°♂06'17	2°03'42		-5094 Nov 27 j 01:56	0°♂	
min. Earth dist.	-5099 Mar 13 j 04:11	11°♂57'08	4.30988 AU		-5093 Feb 22 j 19:19	15°♂	
direct	-5099 May 13 j 05:38	7°♂07'53		evening set	-5093 Mar 08 j 07:30	18°♂04'08	
	-5099 Jul 28 j 22:51	15°♂					
evening set	-5099 Sep 16 j 01:50	25°♂17'10		conjunction	-5093 Mar 22 j 00:20	21°♂13'30	-1°19'26
max. Earth dist.	-5099 Sep 27 j 02:02	27°♂47'25	6.26457 AU	minimum elong	-5093 Mar 22 j 00:24	21°♂13'32	1°19'37
				max. Earth dist.	-5093 Mar 23 j 16:50	21°♂36'52	6.11130 AU
conjunction	-5099 Sep 28 j 13:35	28°♂07'42	1°15'58	morning rise	-5093 Apr 04 j 18:34	24°♂23'24	
minimum elong	-5099 Sep 28 j 13:38	28°♂07'43	1°16'08		-5093 Apr 29 j 21:51	0°♂	
	-5099 Oct 06 j 18:34	0°♂		retrograde	-5093 Aug 10 j 19:59	13°♂34'45	
morning rise	-5099 Oct 11 j 00:54	0°♂58'08		min. Earth dist.	-5093 Oct 08 j 08:11	8°♂37'59	4.15996 AU
retrograde	-5098 Feb 12 j 22:14	19°♂10'21		opposition	-5093 Oct 09 j 04:36	8°♂31'01	-1°38'46
opposition	-5098 Apr 15 j 01:31	14°♂16'53	1°30'42	direct	-5093 Dec 07 j 07:35	3°♂29'44	
min. Earth dist.	-5098 Apr 15 j 21:41	14°♂10'27	4.21510 AU	evening set	-5092 Apr 12 j 10:17	22°♂15'30	
direct	-5098 Jun 15 j 08:11	9°♂21'22					
evening set	-5098 Oct 18 j 01:22	27°♂48'10		conjunction	-5092 Apr 26 j 04:31	25°♂21'15	-0°48'24
	-5098 Oct 27 j 12:24	0°♂		minimum elong	-5092 Apr 26 j 04:35	25°♂21'18	0°48'27
				max. Earth dist.	-5092 Apr 27 j 04:27	25°♂34'44	6.21085 AU
conjunction	-5098 Oct 30 j 16:12	0°♂44'11	0°41'46	morning rise	-5092 May 09 j 21:54	28°♂26'25	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 28

Attention, astronomical year style is used: The year -5092 in astronomical counting style is the year 5093 BCE in historical counting style.

	-5092 May 16 j 22:10	0°♊		min. Earth dist.	-5086 Apr 20 j 18:25	18°♎56'39	4.20426 AU
retrograde	-5092 Sep 11 j 11:26	16°♊41'26		direct	-5086 Jun 20 j 03:12	14°♎07'27	
opposition	-5092 Nov 09 j 20:51	11°♊41'06	-0°39'10		-5086 Oct 11 j 08:32	0°♏	
min. Earth dist.	-5092 Nov 09 j 12:50	11°♊43'48	4.26041 AU	evening set	-5086 Oct 22 j 15:51	2°♏35'40	
direct	-5091 Jan 09 j 04:40	6°♊37'45					
evening set	-5091 May 17 j 02:09	25°♊00'58		conjunction	-5086 Nov 04 j 07:11	5°♏32'22	0°35'26
				minimum elong	-5086 Nov 04 j 07:13	5°♏32'23	0°35'26
conjunction	-5091 May 30 j 16:07	28°♊01'05	-0°02'43	max. Earth dist.	-5086 Nov 03 j 15:32	5°♏23'14	6.15370 AU
minimum elong	-5091 May 30 j 16:07	28°♊01'06	0°02'36	morning rise	-5086 Nov 17 j 00:04	8°♏30'01	
behind sun begin	-5091 May 30 j 07:52	27°♊56'33		retrograde	-5085 Mar 25 j 12:11	27°♏40'50	
behind sun end	-5091 May 31 j 00:22	28°♊05'38		opposition	-5085 May 25 j 14:29	22°♏43'28	0°15'50
max. Earth dist.	-5091 May 30 j 14:46	28°♊00'23	6.30521 AU	min. Earth dist.	-5085 May 25 j 16:09	22°♏42'55	4.10635 AU
	-5091 Jun 08 j 15:00	0°♋		direct	-5085 Jul 24 j 09:33	17°♏50'15	
morning rise	-5091 Jun 13 j 03:39	0°♋59'51		desc. node	-5085 Aug 16 j 03:59	18°♏40'41	
asc. node	-5091 Jun 21 j 22:12	2°♋54'51			-5085 Oct 27 j 02:09	0°♌	
	-5091 Aug 25 j 23:16	15°♋		evening set	-5085 Nov 25 j 07:09	6°♌39'28	
retrograde	-5091 Oct 12 j 23:16	18°♋29'36					
	-5091 Nov 30 j 10:49	15°♋8		conjunction	-5085 Dec 08 j 05:16	9°♌42'51	-0°14'41
opposition	-5091 Dec 11 j 13:55	13°♋33'12	0°29'58	minimum elong	-5085 Dec 08 j 05:15	9°♌42'50	0°14'51
min. Earth dist.	-5091 Dec 11 j 22:11	13°♋30'28	4.34094 AU	behind sun begin	-5085 Dec 08 j 01:55	9°♌40'52	
direct	-5090 Feb 11 j 03:56	8°♋29'20		behind sun end	-5085 Dec 08 j 08:34	9°♌44'47	
	-5090 Apr 21 j 20:13	15°♋		max. Earth dist.	-5085 Dec 08 j 14:51	9°♌48'30	6.06741 AU
evening set	-5090 Jun 19 j 04:47	26°♋35'21		morning rise	-5085 Dec 21 j 06:02	12°♌47'48	
max. Earth dist.	-5090 Jul 01 j 11:57	29°♋17'11	6.36573 AU		-5085 Dec 30 j 16:26	15°♌	
					-5084 Mar 18 j 21:30	0°♍	
conjunction	-5090 Jul 02 j 10:23	29°♋29'31	0°42'44	retrograde	-5084 Apr 30 j 10:30	2°♍43'39	
minimum elong	-5090 Jul 02 j 10:20	29°♋29'29	0°42'57		-5084 Jun 12 j 00:40	30°♍	
	-5090 Jul 04 j 17:48	0°♎		min. Earth dist.	-5084 Jun 29 j 10:53	27°♍47'07	4.03987 AU
morning rise	-5090 Jul 15 j 12:29	2°♎21'58		opposition	-5084 Jun 30 j 01:14	27°♍42'22	-0°59'47
retrograde	-5090 Nov 12 j 22:08	19°♎28'43		direct	-5084 Aug 27 j 17:06	22°♍49'12	
opposition	-5089 Jan 12 j 00:15	14°♎35'30	1°28'42		-5084 Nov 04 j 20:00	0°♎	
min. Earth dist.	-5089 Jan 12 j 20:36	14°♎28'55	4.37864 AU	evening set	-5084 Dec 29 j 17:24	11°♎56'16	
direct	-5089 Mar 15 j 08:40	9°♎32'38					
evening set	-5089 Jul 21 j 01:52	27°♎30'40		conjunction	-5083 Jan 11 j 22:53	15°♎04'39	-1°00'35
max. Earth dist.	-5089 Aug 01 j 09:27	0°♏00'12	6.37674 AU	minimum elong	-5083 Jan 11 j 22:49	15°♎04'36	1°00'52
	-5089 Aug 01 j 09:06	0°♏		max. Earth dist.	-5083 Jan 13 j 06:09	15°♎23'13	6.02615 AU
				morning rise	-5083 Jan 25 j 07:53	18°♎14'51	
conjunction	-5089 Aug 02 j 21:57	0°♏20'22	1°15'14		-5083 Mar 20 j 04:04	0°♏	
minimum elong	-5089 Aug 02 j 21:54	0°♏20'20	1°15'31	retrograde	-5083 Jun 06 j 08:06	8°♏28'39	
morning rise	-5089 Aug 15 j 14:56	3°♏08'35		min. Earth dist.	-5083 Aug 04 j 08:00	3°♏33'17	4.02984 AU
retrograde	-5089 Dec 14 j 07:59	20°♏17'26		opposition	-5083 Aug 05 j 10:33	3°♏24'19	-1°54'20
opposition	-5088 Feb 12 j 20:54	15°♏25'55	2°02'14		-5083 Sep 02 j 09:44	30°♎	
min. Earth dist.	-5088 Feb 14 j 01:29	15°♏16'47	4.36372 AU	direct	-5083 Oct 02 j 11:02	28°♎29'07	
direct	-5088 Apr 15 j 11:48	10°♏25'11			-5083 Nov 01 j 13:56	0°♏	
evening set	-5088 Aug 20 j 07:01	28°♏25'03		evening set	-5082 Feb 04 j 10:40	17°♏42'39	
	-5088 Aug 27 j 09:18	0°♐					
max. Earth dist.	-5088 Aug 31 j 03:48	0°♐50'41	6.33579 AU	conjunction	-5082 Feb 17 j 23:08	20°♏53'02	-1°24'12
				minimum elong	-5082 Feb 17 j 23:07	20°♏53'01	1°24'27
conjunction	-5088 Sep 01 j 20:30	1°♐13'29	1°26'25	max. Earth dist.	-5082 Feb 19 j 18:27	21°♏18'30	6.04680 AU
minimum elong	-5088 Sep 01 j 20:30	1°♐13'29	1°26'40	morning rise	-5082 Mar 03 j 14:22	24°♏04'44	
morning rise	-5088 Sep 14 j 08:02	4°♐01'04			-5082 Mar 29 j 16:07	0°♑	
	-5088 Nov 07 j 02:30	15°♐		retrograde	-5082 Jul 12 j 06:38	13°♑58'41	
retrograde	-5087 Jan 14 j 18:13	21°♐35'18		opposition	-5082 Sep 09 j 20:39	8°♑53'33	-2°05'36
opposition	-5087 Mar 16 j 17:43	16°♐43'31	2°01'13	min. Earth dist.	-5082 Sep 08 j 17:45	9°♑02'44	4.07985 AU
min. Earth dist.	-5087 Mar 17 j 21:00	16°♐34'50	4.29973 AU	direct	-5082 Nov 07 j 04:24	3°♑55'02	
	-5087 Mar 30 j 14:38	15°♑			-5081 Feb 05 j 01:29	15°♑	
direct	-5087 May 17 j 20:52	11°♐45'34		evening set	-5081 Mar 13 j 08:39	22°♑59'27	
	-5087 Jul 04 j 06:21	15°♐					
evening set	-5087 Sep 20 j 13:21	29°♐56'13		conjunction	-5081 Mar 27 j 02:05	26°♑08'39	-1°16'33
	-5087 Sep 20 j 20:03	0°♑		minimum elong	-5081 Mar 27 j 02:08	26°♑08'41	1°16'42
max. Earth dist.	-5087 Oct 01 j 17:29	2°♑29'02	6.25379 AU	max. Earth dist.	-5081 Mar 28 j 17:32	26°♑31'21	6.12125 AU
				morning rise	-5081 Apr 09 j 20:30	29°♑18'12	
conjunction	-5087 Oct 03 j 01:19	2°♑47'14	1°12'26		-5081 Apr 12 j 21:56	0°♒	
minimum elong	-5087 Oct 03 j 01:22	2°♑47'16	1°12'34	retrograde	-5081 Aug 15 j 11:21	18°♒23'06	
morning rise	-5087 Oct 15 j 12:46	5°♑38'14		opposition	-5081 Oct 13 j 19:21	13°♒19'48	-1°31'54
retrograde	-5086 Feb 17 j 20:11	23°♑56'23		min. Earth dist.	-5081 Oct 12 j 23:42	13°♒26'30	4.17065 AU
opposition	-5086 Apr 19 j 23:56	19°♑02'32	1°23'10	direct	-5081 Dec 12 j 00:40	8°♒18'12	

Attention, astronomical year style is used: The year -5080 in astronomical counting style is the year 5081 BCE in historical counting style.

evening set	-5080 Apr 17 j 08:37	27° X 02'08		minimum elong	-5075 Oct 07 j 11:56	7° M 24'54	1°08'36
	-5080 Apr 30 j 13:28	0° Y		morning rise	-5075 Oct 19 j 23:55	10° M 16'38	
				retrograde	-5074 Feb 22 j 16:29	28° M 41'32	
conjunction	-5080 May 01 j 02:32	0° Y 07'21	-0°42'33	opposition	-5074 Apr 24 j 21:38	23° M 47'12	1°15'08
minimum elong	-5080 May 01 j 02:36	0° Y 07'23	0°42'34	min. Earth dist.	-5074 Apr 25 j 13:36	23° M 42'06	4.19035 AU
max. Earth dist.	-5080 May 01 j 21:58	0° Y 18'17	6.22162 AU	direct	-5074 Jun 24 j 20:13	18° M 52'22	
morning rise	-5080 May 14 j 19:35	3° Y 11'53			-5074 Sep 24 j 03:23	0° A	
retrograde	-5080 Sep 16 j 00:01	21° Y 20'52		evening set	-5074 Oct 27 j 06:25	7° A 23'21	
opposition	-5080 Nov 14 j 08:44	16° Y 21'03	-0°29'32				
min. Earth dist.	-5080 Nov 14 j 03:31	16° Y 22'48	4.27031 AU	conjunction	-5074 Nov 08 j 22:39	10° A 21'00	0°28'52
direct	-5079 Jan 13 j 21:18	11° Y 17'31		minimum elong	-5074 Nov 08 j 22:42	10° A 21'02	0°28'51
asc. node	-5079 May 01 j 05:37	25° Y 12'32		max. Earth dist.	-5074 Nov 08 j 11:01	10° A 14'12	6.13994 AU
evening set	-5079 May 21 j 20:04	29° Y 38'56		morning rise	-5074 Nov 21 j 16:24	13° A 19'41	
	-5079 May 23 j 10:24	0° B			-5073 Feb 16 j 17:29	0° M	
				retrograde	-5073 Mar 30 j 16:08	2° M 37'42	
conjunction	-5079 Jun 04 j 09:18	2° B 38'23	0°04'09		-5073 May 11 j 21:54	30° R A	
minimum elong	-5079 Jun 04 j 09:17	2° B 38'22	0°04'16	opposition	-5073 May 30 j 16:05	27° A 39'49	0°05'05
behind sun begin	-5079 Jun 04 j 01:10	2° B 33'55		min. Earth dist.	-5073 May 30 j 16:34	27° A 39'39	4.09373 AU
behind sun end	-5079 Jun 04 j 17:23	2° B 42'50		desc. node	-5073 Jun 26 j 00:23	24° A 31'06	
max. Earth dist.	-5079 Jun 04 j 06:16	2° B 36'45	6.31366 AU	direct	-5073 Jul 29 j 07:50	22° A 46'40	
morning rise	-5079 Jun 17 j 19:34	5° B 36'18			-5073 Oct 07 j 09:27	0° M	
	-5079 Aug 02 j 09:00	15° B		evening set	-5073 Nov 30 j 03:56	11° M 39'06	
retrograde	-5079 Oct 17 j 07:55	23° B 02'05					
opposition	-5079 Dec 16 j 00:32	18° B 06'09	0°39'18	conjunction	-5073 Dec 13 j 03:01	14° M 43'23	-0°21'50
min. Earth dist.	-5079 Dec 16 j 09:31	18° B 03'12	4.34749 AU	minimum elong	-5073 Dec 13 j 02:59	14° M 43'22	0°22'00
	-5078 Jan 10 j 11:39	15° R B		max. Earth dist.	-5073 Dec 13 j 14:35	14° M 50'15	6.05701 AU
direct	-5078 Feb 15 j 16:13	13° B 02'21			-5073 Dec 14 j 07:01	15° M	
	-5078 Mar 24 j 08:06	15° B		morning rise	-5073 Dec 26 j 05:09	17° M 49'22	
	-5078 Jun 18 j 15:15	0° I			-5072 Feb 20 j 11:34	0° A	
evening set	-5078 Jun 23 j 18:38	1° I 07'01		retrograde	-5072 May 05 j 14:39	7° A 50'17	
				min. Earth dist.	-5072 Jul 04 j 11:19	2° A 54'11	4.03293 AU
conjunction	-5078 Jul 06 j 22:44	4° I 00'26	0°48'20	opposition	-5072 Jul 05 j 04:30	2° A 48'28	-1°09'24
minimum elong	-5078 Jul 06 j 22:40	4° I 00'24	0°48'36		-5072 Jul 27 j 18:05	30° R M	
max. Earth dist.	-5078 Jul 05 j 21:26	3° I 46'31	6.36975 AU	direct	-5072 Sep 01 j 15:55	27° M 55'07	
morning rise	-5078 Jul 19 j 23:34	6° I 52'09			-5072 Oct 07 j 06:26	0° A	
retrograde	-5078 Nov 17 j 09:04	23° I 57'43		evening set	-5071 Jan 03 j 20:06	17° A 04'42	
opposition	-5077 Jan 16 j 11:37	19° I 04'47	1°35'14				
min. Earth dist.	-5077 Jan 17 j 10:05	18° I 57'32	4.37993 AU	conjunction	-5071 Jan 17 j 02:43	20° A 13'41	-1°05'37
direct	-5077 Mar 19 j 22:55	14° I 02'06		minimum elong	-5071 Jan 17 j 02:39	20° A 13'39	1°05'53
	-5077 Jul 16 j 08:52	0° E		max. Earth dist.	-5071 Jan 18 j 12:44	20° A 33'54	6.02314 AU
evening set	-5077 Jul 25 j 12:28	1° E 59'31		morning rise	-5071 Jan 30 j 12:41	23° A 24'26	
max. Earth dist.	-5077 Aug 05 j 18:09	4° E 28'09	6.37480 AU		-5071 Feb 28 j 08:17	0° B	
				retrograde	-5071 Jun 11 j 12:52	13° B 38'46	
conjunction	-5077 Aug 07 j 07:28	4° E 48'47	1°18'15	min. Earth dist.	-5071 Aug 09 j 10:12	8° B 43'09	4.03118 AU
minimum elong	-5077 Aug 07 j 07:25	4° E 48'46	1°18'31	opposition	-5071 Aug 10 j 12:45	8° B 34'09	-1°58'51
morning rise	-5077 Aug 19 j 23:21	7° E 36'38		direct	-5071 Oct 07 j 13:49	3° B 38'33	
retrograde	-5077 Dec 18 j 18:42	24° E 47'12		evening set	-5070 Feb 09 j 16:45	22° B 52'39	
opposition	-5076 Feb 17 j 10:18	19° E 55'39	2°04'17				
min. Earth dist.	-5076 Feb 18 j 14:24	19° E 46'41	4.35870 AU	conjunction	-5070 Feb 23 j 06:12	26° B 03'11	-1°25'01
direct	-5076 Apr 19 j 23:42	14° E 55'12		minimum elong	-5070 Feb 23 j 06:11	26° B 03'11	1°25'17
	-5076 Aug 11 j 09:02	0° O		max. Earth dist.	-5070 Feb 25 j 03:05	26° B 29'30	6.05242 AU
evening set	-5076 Aug 24 j 16:18	2° O 55'33		morning rise	-5070 Mar 08 j 22:09	29° B 14'55	
max. Earth dist.	-5076 Sep 04 j 13:45	5° O 21'53	6.32783 AU		-5070 Mar 12 j 03:52	0° A	
					-5070 May 26 j 10:47	15° A	
conjunction	-5076 Sep 06 j 05:12	5° O 44'03	1°25'59	retrograde	-5070 Jul 17 j 06:37	19° A 04'02	
minimum elong	-5076 Sep 06 j 05:13	5° O 44'03	1°26'14		-5070 Sep 07 j 07:25	15° R A	
morning rise	-5076 Sep 18 j 16:19	8° O 31'47		opposition	-5070 Sep 14 j 18:55	13° A 59'05	-2°03'18
	-5076 Oct 18 j 15:35	15° O		min. Earth dist.	-5070 Sep 13 j 15:46	14° A 08'22	4.08946 AU
retrograde	-5075 Jan 19 j 11:05	26° O 10'36		direct	-5070 Nov 12 j 03:52	9° A 00'11	
opposition	-5075 Mar 21 j 11:05	21° O 18'36	1°58'01		-5069 Jan 14 j 12:01	15° A	
min. Earth dist.	-5075 Mar 22 j 14:33	21° O 09'53	4.28901 AU	evening set	-5069 Mar 18 j 13:52	28° A 02'43	
direct	-5075 May 22 j 12:58	16° O 21'01			-5069 Mar 27 j 02:53	0° X	
	-5075 Sep 04 j 12:54	0° M					
evening set	-5075 Sep 24 j 23:47	4° M 33'16		conjunction	-5069 Apr 01 j 07:35	1° X 11'32	-1°13'02
max. Earth dist.	-5075 Oct 06 j 04:28	7° M 06'52	6.24112 AU	minimum elong	-5069 Apr 01 j 07:39	1° X 11'34	1°13'11
				max. Earth dist.	-5069 Apr 02 j 20:20	1° X 32'37	6.13431 AU
conjunction	-5075 Oct 07 j 11:52	7° M 24'53	1°08'29	morning rise	-5069 Apr 15 j 02:17	4° X 20'35	

Attention, astronomical year style is used: The year -5069 in astronomical counting style is the year 5070 BCE in historical counting style.

retrograde	-5069 Aug 20 j 05:11	23° H 17'29		evening set	-5063 Sep 29 j 06:44	9° H 01'45	
opposition	-5069 Oct 18 j 12:55	18° H 14'36	-1°24'14				
min. Earth dist.	-5069 Oct 17 j 18:53	18° H 20'44	4.18596 AU	conjunction	-5063 Oct 11 j 19:11	11° H 54'10	1°04'15
direct	-5069 Dec 16 j 22:53	13° H 12'41		minimum elong	-5063 Oct 11 j 19:14	11° H 54'12	1°04'21
	-5068 Apr 13 j 21:04	0° Y		max. Earth dist.	-5063 Oct 10 j 13:24	11° H 37'02	6.22499 AU
evening set	-5068 Apr 22 j 08:42	1° Y 52'43		morning rise	-5063 Oct 24 j 07:43	14° H 46'52	
					-5062 Jan 10 j 21:43	0° A	
conjunction	-5068 May 06 j 02:25	4° Y 57'07	-0°36'20	retrograde	-5062 Feb 27 j 13:07	3° A 20'08	
minimum elong	-5068 May 06 j 02:28	4° Y 57'09	0°36'19		-5062 Apr 17 j 03:36	30° R H	
max. Earth dist.	-5068 May 06 j 21:01	5° Y 07'32	6.23848 AU	opposition	-5062 Apr 29 j 16:30	28° H 25'28	1°06'53
morning rise	-5068 May 19 j 18:37	8° Y 00'37		min. Earth dist.	-5062 Apr 30 j 08:11	28° H 20'26	4.17193 AU
retrograde	-5068 Sep 20 j 11:21	26° Y 01'16		direct	-5062 Jun 29 j 11:45	23° H 30'55	
opposition	-5068 Nov 18 j 21:34	21° Y 02'02	-0°19'43		-5062 Sep 04 j 12:53	0° A	
min. Earth dist.	-5068 Nov 18 j 17:21	21° Y 03'27	4.28725 AU	evening set	-5062 Oct 31 j 19:06	12° A 06'42	
direct	-5067 Jan 18 j 13:44	15° Y 58'28					
asc. node	-5067 Mar 10 j 18:26	19° Y 44'55		conjunction	-5062 Nov 13 j 12:15	15° A 05'35	0°22'17
	-5067 May 06 j 18:44	0° B		minimum elong	-5062 Nov 13 j 12:16	15° A 05'36	0°22'13
evening set	-5067 May 26 j 13:40	4° B 15'21		max. Earth dist.	-5062 Nov 13 j 02:03	14° A 59'36	6.12097 AU
				morning rise	-5062 Nov 26 j 07:17	18° A 05'38	
conjunction	-5067 Jun 09 j 01:31	7° B 13'38	0°10'45		-5061 Jan 20 j 21:15	0° M	
minimum elong	-5067 Jun 09 j 01:30	7° B 13'38	0°10'54	retrograde	-5061 Apr 04 j 17:48	7° M 33'03	
behind sun begin	-5067 Jun 08 j 19:21	7° B 10'15		desc. node	-5061 May 07 j 07:25	5° M 55'59	
behind sun end	-5067 Jun 09 j 07:40	7° B 17'00		opposition	-5061 Jun 04 j 16:30	2° M 34'38	-0°05'31
max. Earth dist.	-5067 Jun 08 j 18:16	7° B 09'39	6.32938 AU	min. Earth dist.	-5061 Jun 04 j 13:48	2° M 35'31	4.07596 AU
morning rise	-5067 Jun 22 j 10:39	10° B 10'24			-5061 Jun 25 j 12:42	30° R A	
	-5067 Jul 14 j 22:58	15° B		direct	-5061 Aug 03 j 01:51	27° A 41'36	
retrograde	-5067 Oct 21 j 16:14	27° B 30'02			-5061 Sep 10 j 01:19	0° M	
opposition	-5067 Dec 20 j 10:01	22° B 34'35	0°48'09		-5061 Nov 27 j 23:41	15° M	
min. Earth dist.	-5067 Dec 20 j 21:41	22° B 30'45	4.36088 AU	evening set	-5061 Dec 05 j 00:54	16° M 39'29	
direct	-5066 Feb 20 j 06:39	17° B 30'50					
	-5066 Jun 02 j 03:10	0° H		conjunction	-5061 Dec 18 j 01:11	19° M 44'56	-0°28'43
evening set	-5066 Jun 28 j 05:34	5° H 31'49		minimum elong	-5061 Dec 18 j 01:08	19° M 44'55	0°28'55
max. Earth dist.	-5066 Jul 10 j 05:59	8° H 09'44	6.37967 AU	max. Earth dist.	-5061 Dec 18 j 16:36	19° M 54'07	6.04209 AU
				morning rise	-5061 Dec 31 j 04:31	22° M 52'07	
conjunction	-5066 Jul 11 j 08:25	8° H 24'15	0°53'29		-5060 Jan 31 j 10:05	0° J	
minimum elong	-5066 Jul 11 j 08:21	8° H 24'14	0°53'45	retrograde	-5060 May 10 j 21:35	12° J 59'50	
morning rise	-5066 Jul 24 j 07:39	11° H 14'58		opposition	-5060 Jul 10 j 08:20	7° J 57'31	-1°18'27
retrograde	-5066 Nov 21 j 13:41	28° H 17'49		min. Earth dist.	-5060 Jul 09 j 13:43	8° J 03'44	4.02251 AU
opposition	-5065 Jan 20 j 19:42	23° H 25'12	1°40'56	direct	-5060 Sep 06 j 17:12	3° J 03'58	
min. Earth dist.	-5065 Jan 21 j 18:49	23° H 17'45	4.38582 AU	evening set	-5059 Jan 09 j 00:41	22° J 17'24	
direct	-5065 Mar 24 j 07:53	18° H 22'47					
	-5065 Jun 30 j 00:41	0° E		conjunction	-5059 Jan 22 j 08:29	25° J 27'06	-1°10'05
evening set	-5065 Jul 29 j 18:49	6° E 18'14		minimum elong	-5059 Jan 22 j 08:25	25° J 27'04	1°10'21
max. Earth dist.	-5065 Aug 09 j 21:02	8° E 45'06	6.37594 AU	max. Earth dist.	-5059 Jan 23 j 22:17	25° J 49'34	6.01811 AU
				morning rise	-5059 Feb 04 j 19:33	28° J 38'32	
conjunction	-5065 Aug 11 j 12:32	9° E 06'58	1°20'40		-5059 Feb 10 j 14:22	0° Z	
minimum elong	-5065 Aug 11 j 12:29	9° E 06'56	1°20'56	retrograde	-5059 Jun 16 j 18:40	18° Z 53'19	
morning rise	-5065 Aug 24 j 03:31	11° E 54'22		min. Earth dist.	-5059 Aug 14 j 11:42	13° Z 58'01	4.03238 AU
retrograde	-5065 Dec 23 j 03:33	29° E 06'14		opposition	-5059 Aug 15 j 15:52	13° Z 48'27	-2°02'22
opposition	-5064 Feb 21 j 19:55	24° E 14'47	2°05'30	direct	-5059 Oct 12 j 15:54	8° Z 52'25	
min. Earth dist.	-5064 Feb 23 j 02:00	24° E 05'12	4.35488 AU	evening set	-5058 Feb 15 j 00:40	28° Z 06'50	
direct	-5064 Apr 24 j 10:19	19° E 14'39			-5058 Feb 23 j 02:34	0° A	
	-5064 Jul 25 j 22:06	0° O					
evening set	-5064 Aug 28 j 20:57	7° O 15'20		conjunction	-5058 Feb 28 j 14:49	1° A 17'24	-1°25'08
max. Earth dist.	-5064 Sep 08 j 17:12	9° O 41'19	6.31919 AU	minimum elong	-5058 Feb 28 j 14:50	1° A 17'24	1°25'23
				max. Earth dist.	-5058 Mar 02 j 11:23	1° A 43'28	6.05932 AU
conjunction	-5064 Sep 10 j 09:30	10° O 04'00	1°25'03	morning rise	-5058 Mar 14 j 07:33	4° A 29'04	
minimum elong	-5064 Sep 10 j 09:31	10° O 04'01	1°25'16		-5058 May 01 j 15:46	15° A	
morning rise	-5064 Sep 22 j 20:23	12° O 52'00		retrograde	-5058 Jul 22 j 06:04	24° A 12'17	
	-5064 Oct 02 j 10:45	15° O		opposition	-5058 Sep 19 j 17:54	19° A 07'19	-1°59'59
	-5063 Jan 04 j 05:57	0° H		min. Earth dist.	-5058 Sep 18 j 15:05	19° A 16'30	4.10099 AU
retrograde	-5063 Jan 23 j 22:06	0° H 36'03			-5058 Oct 25 j 13:27	15° R A	
	-5063 Feb 12 j 16:52	30° R O		direct	-5058 Nov 17 j 05:55	14° A 07'50	
opposition	-5063 Mar 26 j 00:13	25° O 43'51	1°54'15		-5058 Dec 10 j 03:10	15° A	
min. Earth dist.	-5063 Mar 27 j 02:34	25° O 35'29	4.27605 AU		-5057 Mar 09 j 22:10	0° H	
direct	-5063 May 26 j 22:16	20° O 46'37		evening set	-5057 Mar 23 j 19:17	3° H 07'20	
	-5063 Aug 18 j 06:30	0° H					

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 31

Attention, astronomical year style is used: The year -5057 in astronomical counting style is the year 5058 BCE in historical counting style.

conjunction	-5057 Apr 06 j 13:26	6° X 15'38	-1°08'57	minimum elong	-5052 Sep 14 j 19:15	14° Ω 37'23	1°23'48
minimum elong	-5057 Apr 06 j 13:31	6° X 15'41	1°09'05		-5052 Sep 16 j 11:16	15° Ω	
max. Earth dist.	-5057 Apr 08 j 02:03	6° X 36'34	6.14933 AU	morning rise	-5052 Sep 27 j 06:05	17° Ω 25'52	
morning rise	-5057 Apr 20 j 07:55	9° X 23'56			-5052 Nov 28 j 22:26	0° W	
retrograde	-5057 Aug 24 j 22:27	28° X 11'53		retrograde	-5051 Jan 28 j 18:39	5° W 16'28	
opposition	-5057 Oct 23 j 06:13	23° X 09'23	-1°15'58	opposition	-5051 Mar 30 j 20:13	0° W 24'03	1°49'36
min. Earth dist.	-5057 Oct 22 j 13:45	23° X 14'58	4.20242 AU	min. Earth dist.	-5051 Mar 31 j 22:30	0° W 15'42	4.26085 AU
direct	-5057 Dec 21 j 20:23	18° X 07'05			-5051 Apr 02 j 23:55	30° R Ω	
	-5056 Mar 27 j 02:53	0° Y		direct	-5051 May 31 j 16:00	25° Ω 27'13	
evening set	-5056 Apr 27 j 08:42	6° Y 42'50			-5051 Jul 26 j 22:06	0° W	
				evening set	-5051 Oct 03 j 19:46	13° W 45'33	
conjunction	-5056 May 11 j 01:43	9° Y 46'17	-0°29'51	max. Earth dist.	-5051 Oct 15 j 05:03	16° W 22'54	6.20863 AU
minimum elong	-5056 May 11 j 01:45	9° Y 46'18	0°29'50				
max. Earth dist.	-5056 May 11 j 15:46	9° Y 54'08	6.25478 AU	conjunction	-5051 Oct 16 j 08:43	16° W 38'53	0°59'21
morning rise	-5056 May 24 j 17:16	12° Y 48'47		minimum elong	-5051 Oct 16 j 08:47	16° W 38'55	0°59'27
	-5056 Sep 04 j 07:19	0° Z		morning rise	-5051 Oct 28 j 21:59	19° W 32'35	
retrograde	-5056 Sep 24 j 22:33	0° Z 41'35			-5051 Dec 16 j 20:31	0° Ω	
	-5056 Oct 15 j 11:18	30° R Y		retrograde	-5050 Mar 04 j 14:03	8° Ω 14'08	
opposition	-5056 Nov 23 j 10:17	25° Y 42'49	-0°09'44	opposition	-5050 May 04 j 17:55	3° Ω 19'03	0°57'38
min. Earth dist.	-5056 Nov 23 j 08:32	25° Y 43'24	4.30187 AU	min. Earth dist.	-5050 May 05 j 06:19	3° Ω 15'04	4.15579 AU
asc. node	-5055 Jan 17 j 13:21	20° Y 42'13			-5050 Jun 02 j 04:33	30° R W	
direct	-5055 Jan 23 j 07:31	20° Y 39'02		direct	-5050 Jul 04 j 07:07	28° W 24'53	
	-5055 Apr 18 j 09:29	0° Z			-5050 Aug 05 j 02:42	0° Ω	
evening set	-5055 May 31 j 07:12	8° Z 52'25		evening set	-5050 Nov 05 j 14:00	17° Ω 04'24	
conjunction	-5055 Jun 13 j 18:01	11° Z 49'44	0°17'24	conjunction	-5050 Nov 18 j 08:02	20° Ω 04'18	0°15'09
minimum elong	-5055 Jun 13 j 17:59	11° Z 49'43	0°17'35	minimum elong	-5050 Nov 18 j 08:03	20° Ω 04'19	0°15'05
max. Earth dist.	-5055 Jun 13 j 08:39	11° Z 44'35	6.34120 AU	behind sun begin	-5050 Nov 18 j 04:57	20° Ω 02'30	
morning rise	-5055 Jun 27 j 01:39	14° Z 45'26		behind sun end	-5050 Nov 18 j 11:09	20° Ω 06'08	
	-5055 Jun 28 j 04:19	15° Z		max. Earth dist.	-5050 Nov 18 j 01:48	20° Ω 00'38	6.10678 AU
	-5055 Sep 20 j 02:12	0° Π		morning rise	-5050 Dec 01 j 04:10	23° Ω 05'29	
retrograde	-5055 Oct 26 j 00:35	2° Π 00'32			-5050 Dec 31 j 16:43	0° M	
	-5055 Dec 01 j 00:44	30° R Z		desc. node	-5049 Mar 16 j 09:56	11° M 43'45	
opposition	-5055 Dec 24 j 20:42	27° Z 05'34	0°56'55	retrograde	-5049 Apr 10 j 01:08	12° M 40'12	
min. Earth dist.	-5055 Dec 25 j 10:03	27° Z 01'11	4.36912 AU	opposition	-5049 Jun 09 j 21:49	7° M 41'13	-0°16'36
direct	-5054 Feb 24 j 20:24	22° Z 01'56		min. Earth dist.	-5049 Jun 09 j 16:53	7° M 42'50	4.06513 AU
	-5054 May 14 j 07:11	0° Π		direct	-5049 Aug 08 j 03:37	2° M 48'18	
evening set	-5054 Jul 02 j 18:12	10° Π 01'00			-5049 Nov 10 j 08:13	15° M	
				evening set	-5049 Dec 10 j 02:07	21° M 48'56	
conjunction	-5054 Jul 15 j 19:30	12° Π 52'40	0°58'30	conjunction	-5049 Dec 23 j 03:30	24° M 55'09	-0°35'40
minimum elong	-5054 Jul 15 j 19:27	12° Π 52'38	0°58'45	minimum elong	-5049 Dec 23 j 03:27	24° M 55'07	0°35'53
max. Earth dist.	-5054 Jul 14 j 13:05	12° Π 35'58	6.38344 AU	max. Earth dist.	-5049 Dec 23 j 23:25	25° M 07'00	6.03578 AU
morning rise	-5054 Jul 28 j 17:34	15° Π 42'42		morning rise	-5048 Jan 05 j 08:00	28° M 03'07	
	-5054 Oct 14 j 08:33	0° E			-5048 Jan 13 j 15:05	0° Z	
retrograde	-5054 Nov 26 j 00:11	2° E 45'04		retrograde	-5048 May 16 j 04:36	18° Z 13'34	
	-5053 Jan 08 j 04:46	30° R Π		opposition	-5048 Jul 15 j 13:44	13° Z 10'49	-1°27'03
opposition	-5053 Jan 25 j 07:14	27° Π 52'42	1°46'21	min. Earth dist.	-5048 Jul 14 j 16:38	13° Z 17'52	4.02184 AU
min. Earth dist.	-5053 Jan 26 j 08:38	27° Π 44'31	4.38516 AU	direct	-5048 Sep 11 j 19:54	8° Z 17'05	
direct	-5053 Mar 28 j 21:43	22° Π 50'30		evening set	-5047 Jan 14 j 06:08	27° Z 30'46	
	-5053 Jun 10 j 19:26	0° E			-5047 Jan 24 j 18:14	0° Z	
evening set	-5053 Aug 03 j 04:43	10° E 46'03					
max. Earth dist.	-5053 Aug 14 j 05:57	13° E 12'35	6.37074 AU				
				conjunction	-5047 Jan 27 j 14:43	0° Z 40'38	-1°14'04
conjunction	-5053 Aug 15 j 21:35	13° E 34'33	1°22'46	minimum elong	-5047 Jan 27 j 14:40	0° Z 40'36	1°14'20
minimum elong	-5053 Aug 15 j 21:33	13° E 34'32	1°23'03	max. Earth dist.	-5047 Jan 29 j 05:41	1° Z 03'44	6.02272 AU
morning rise	-5053 Aug 28 j 11:32	16° E 21'46		morning rise	-5047 Feb 10 j 02:45	3° Z 52'12	
	-5053 Nov 08 j 03:30	0° Ω		retrograde	-5047 Jun 21 j 20:36	24° Z 03'36	
retrograde	-5053 Dec 27 j 15:34	3° Ω 36'57		opposition	-5047 Aug 20 j 17:12	18° Z 58'31	-2°04'52
	-5052 Feb 16 j 13:39	30° R E		min. Earth dist.	-5047 Aug 19 j 12:20	19° Z 08'21	4.04187 AU
opposition	-5052 Feb 26 j 10:27	28° E 45'30	2°06'10	direct	-5047 Oct 17 j 18:29	14° Z 02'00	
min. Earth dist.	-5052 Feb 27 j 16:00	28° E 36'07	4.34567 AU		-5046 Feb 06 j 03:54	0° \approx	
direct	-5052 Apr 28 j 22:49	23° E 45'47		evening set	-5046 Feb 20 j 05:54	3° \approx 13'59	
	-5052 Jul 05 j 20:50	0° Ω					
evening set	-5052 Sep 02 j 07:06	11° Ω 48'22		conjunction	-5046 Mar 05 j 20:54	6° \approx 24'15	-1°24'38
max. Earth dist.	-5052 Sep 13 j 03:05	14° Ω 14'42	6.30665 AU	minimum elong	-5046 Mar 05 j 20:55	6° \approx 24'16	1°24'51
				max. Earth dist.	-5046 Mar 07 j 18:32	6° \approx 50'51	6.07276 AU
conjunction	-5052 Sep 14 j 19:13	14° Ω 37'22	1°23'36	morning rise	-5046 Mar 19 j 13:53	9° \approx 35'26	

Attention, astronomical year style is used: The year -5046 in astronomical counting style is the year 5047 BCE in historical counting style.

	-5046 Apr 12 j 12:41	15°♊		retrograde	-5040 Jan 01 j 07:39	8°♏11'31	
retrograde	-5046 Jul 27 j 02:29	29°♊10'39		opposition	-5040 Mar 02 j 02:52	3°♏20'03	2°06'03
min. Earth dist.	-5046 Sep 23 j 11:46	24°♊14'32	4.11679 AU	min. Earth dist.	-5040 Mar 03 j 08:41	3°♏10'33	4.33344 AU
opposition	-5046 Sep 24 j 12:59	24°♊05'56	-1°55'53		-5040 Mar 30 j 21:40	30°♏	
direct	-5046 Nov 22 j 04:20	19°♊06'02		direct	-5040 May 03 j 13:56	28°♏20'41	
	-5045 Feb 19 j 22:49	0°♋			-5040 Jun 06 j 03:23	0°♏	
evening set	-5045 Mar 28 j 20:38	8°♋01'32			-5040 Aug 31 j 08:40	15°♏	
				evening set	-5040 Sep 06 j 18:10	16°♏25'47	
conjunction	-5045 Apr 11 j 14:48	11°♋09'09	-1°04'31	max. Earth dist.	-5040 Sep 17 j 16:32	18°♏53'55	6.29252 AU
minimum elong	-5045 Apr 11 j 14:53	11°♋09'11	1°04'37				
max. Earth dist.	-5045 Apr 12 j 23:41	11°♋27'51	6.16605 AU	conjunction	-5040 Sep 19 j 06:16	19°♏15'17	1°21'35
morning rise	-5045 Apr 25 j 09:17	14°♋16'41		minimum elong	-5040 Sep 19 j 06:18	19°♏15'19	1°21'46
	-5045 Jul 17 j 00:14	0°♌		morning rise	-5040 Oct 01 j 17:02	22°♏04'22	
retrograde	-5045 Aug 29 j 10:21	2°♌55'51			-5040 Nov 07 j 13:24	0°♍	
	-5045 Oct 11 j 18:57	30°♌		retrograde	-5039 Feb 02 j 14:58	10°♍01'51	
opposition	-5045 Oct 27 j 19:27	27°♌53'49	-1°07'31	opposition	-5039 Apr 04 j 17:58	5°♍09'09	1°44'06
min. Earth dist.	-5045 Oct 27 j 04:46	27°♌58'48	4.21838 AU	min. Earth dist.	-5039 Apr 05 j 17:45	5°♍01'35	4.24585 AU
direct	-5045 Dec 26 j 13:38	22°♌51'14		direct	-5039 Jun 05 j 09:01	0°♍12'47	
	-5044 Mar 07 j 08:25	0°♌		evening set	-5039 Oct 08 j 10:27	18°♍33'53	
evening set	-5044 May 02 j 04:10	11°♌23'19					
				conjunction	-5039 Oct 20 j 23:46	21°♍28'00	0°53'59
conjunction	-5044 May 15 j 20:41	14°♌25'57	-0°23'25	minimum elong	-5039 Oct 20 j 23:50	21°♍28'02	0°54'02
minimum elong	-5044 May 15 j 20:43	14°♌25'58	0°23'22	max. Earth dist.	-5039 Oct 19 j 22:45	21°♍13'30	6.19414 AU
max. Earth dist.	-5044 May 16 j 07:26	14°♌31'56	6.26892 AU	morning rise	-5039 Nov 02 j 13:51	24°♍22'40	
morning rise	-5044 May 29 j 11:17	17°♌27'29			-5039 Nov 27 j 15:02	0°♎	
	-5044 Jul 31 j 16:54	0°♍		retrograde	-5038 Mar 09 j 17:55	13°♎11'36	
retrograde	-5044 Sep 29 j 08:07	5°♍13'57		opposition	-5038 May 09 j 20:32	8°♎15'55	0°47'51
opposition	-5044 Nov 27 j 20:08	0°♍15'49	-0°00'01	min. Earth dist.	-5038 May 10 j 06:41	8°♎12'39	4.14269 AU
asc. node	-5044 Nov 27 j 22:25	0°♍15'03		direct	-5038 Jul 09 j 05:56	3°♎21'59	
min. Earth dist.	-5044 Nov 27 j 21:13	0°♍15'28	4.31295 AU	evening set	-5038 Nov 10 j 09:23	22°♎03'52	
	-5044 Nov 29 j 19:40	30°♎					
direct	-5043 Jan 27 j 22:01	25°♎12'01		conjunction	-5038 Nov 23 j 04:27	25°♎04'38	0°07'54
	-5043 Mar 27 j 11:25	0°♎		minimum elong	-5038 Nov 23 j 04:27	25°♎04'38	0°07'49
evening set	-5043 Jun 04 j 21:42	13°♎23'14		behind sun begin	-5038 Nov 22 j 21:11	25°♎00'22	
	-5043 Jun 12 j 06:15	15°♎		behind sun end	-5038 Nov 23 j 11:44	25°♎08'55	
				max. Earth dist.	-5038 Nov 23 j 02:45	25°♎03'39	6.09631 AU
conjunction	-5043 Jun 18 j 07:17	16°♎19'47	0°23'46	morning rise	-5038 Dec 06 j 01:39	28°♎06'45	
minimum elong	-5043 Jun 18 j 07:15	16°♎19'46	0°23'58		-5038 Dec 14 j 04:03	0°♏	
max. Earth dist.	-5043 Jun 17 j 17:24	16°♎12'09	6.34827 AU	desc. node	-5037 Jan 23 j 09:25	8°♏41'57	
morning rise	-5043 Jul 01 j 13:45	19°♎14'42			-5037 Mar 03 j 04:58	15°♏	
	-5043 Aug 24 j 02:03	0°♐		retrograde	-5037 Apr 15 j 06:39	17°♏46'56	
retrograde	-5043 Oct 30 j 08:24	6°♐27'18			-5037 May 28 j 15:06	15°♏	
opposition	-5043 Dec 29 j 05:56	1°♐32'46	1°05'11	opposition	-5037 Jun 15 j 02:39	12°♏47'22	-0°27'34
min. Earth dist.	-5043 Dec 29 j 21:28	1°♐27'42	4.37206 AU	min. Earth dist.	-5037 Jun 14 j 18:52	12°♏49'55	4.05830 AU
	-5042 Jan 10 j 06:49	30°♑		direct	-5037 Aug 13 j 04:09	7°♏54'28	
direct	-5042 Mar 01 j 08:18	26°♑29'15			-5037 Oct 21 j 03:25	15°♏	
	-5042 Apr 20 j 09:22	0°♒		evening set	-5037 Dec 15 j 02:52	26°♏56'26	
evening set	-5042 Jul 07 j 05:22	14°♒28'14			-5037 Dec 27 j 23:48	0°♓	
max. Earth dist.	-5042 Jul 18 j 22:11	17°♒02'11	6.38200 AU				
				conjunction	-5037 Dec 28 j 05:05	0°♓03'09	-0°42'18
conjunction	-5042 Jul 20 j 05:31	17°♒19'26	1°03'05	minimum elong	-5037 Dec 28 j 05:02	0°♓03'07	0°42'32
minimum elong	-5042 Jul 20 j 05:28	17°♒19'24	1°03'21	max. Earth dist.	-5037 Dec 29 j 03:13	0°♓16'19	6.03286 AU
morning rise	-5042 Aug 02 j 02:12	20°♒09'00		morning rise	-5036 Jan 10 j 10:44	3°♓11'41	
	-5042 Sep 19 j 12:34	0°♓		retrograde	-5036 May 21 j 08:56	23°♓23'30	
retrograde	-5042 Nov 30 j 09:55	7°♓12'43		opposition	-5036 Jul 20 j 17:10	18°♓20'15	-1°34'53
opposition	-5041 Jan 29 j 18:48	2°♓20'38	1°51'06	min. Earth dist.	-5036 Jul 19 j 18:11	18°♓27'57	4.02330 AU
min. Earth dist.	-5041 Jan 30 j 20:56	2°♓12'15	4.37971 AU	direct	-5036 Sep 16 j 22:06	13°♓26'10	
	-5041 Feb 17 j 19:01	30°♓			-5035 Jan 08 j 00:43	0°♔	
direct	-5041 Apr 02 j 09:30	27°♓18'47		evening set	-5035 Jan 19 j 10:09	2°♔39'37	
	-5041 May 15 j 21:46	0°♔					
evening set	-5041 Aug 07 j 14:45	15°♔15'48		conjunction	-5035 Feb 01 j 19:48	5°♔49'38	-1°17'26
max. Earth dist.	-5041 Aug 18 j 13:08	17°♔41'13	6.36153 AU	minimum elong	-5035 Feb 01 j 19:45	5°♔49'36	1°17'43
				max. Earth dist.	-5035 Feb 03 j 13:41	6°♔14'25	6.02834 AU
conjunction	-5041 Aug 20 j 06:35	18°♔04'16	1°24'21	morning rise	-5035 Feb 15 j 08:28	9°♔01'12	
minimum elong	-5041 Aug 20 j 06:34	18°♔04'16	1°24'37	retrograde	-5035 Jun 26 j 22:16	29°♔08'45	
morning rise	-5041 Sep 01 j 20:00	20°♔51'35		opposition	-5035 Aug 25 j 16:24	24°♔03'35	-2°06'26
	-5041 Oct 15 j 19:36	0°♕		min. Earth dist.	-5035 Aug 24 j 12:14	24°♔13'10	4.05121 AU














































































































































Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 33

Attention, astronomical year style is used: The year -5035 in astronomical counting style is the year 5036 BCE in historical counting style.

direct	-5035 Oct 22 j 18:52	19° ♁ 06'36		max. Earth dist.	-5029 Aug 23 j 00:34	22° ♁ 13'20	6.35386 AU
	-5034 Jan 19 j 02:59	0° ♁					
evening set	-5034 Feb 25 j 09:48	8° ♁ 16'28		conjunction	-5029 Aug 24 j 16:27	22° ♁ 35'34	1°25'30
				minimum elong	-5029 Aug 24 j 16:26	22° ♁ 35'34	1°25'44
conjunction	-5034 Mar 11 j 01:19	11° ♁ 26'28	-1°23'32	morning rise	-5029 Sep 06 j 05:02	25° ♁ 22'53	
minimum elong	-5034 Mar 11 j 01:20	11° ♁ 26'29	1°23'45		-5029 Sep 27 j 11:28	0° ♁	
max. Earth dist.	-5034 Mar 12 j 21:01	11° ♁ 51'51	6.08481 AU	retrograde	-5028 Jan 05 j 23:01	12° ♁ 47'01	
morning rise	-5034 Mar 24 j 18:54	14° ♁ 37'18		opposition	-5028 Mar 06 j 19:45	7° ♁ 55'33	2°05'11
	-5034 Mar 26 j 10:21	15° ♁		min. Earth dist.	-5028 Mar 08 j 00:48	7° ♁ 46'20	4.32367 AU
	-5034 Jun 09 j 22:37	0° ♁		direct	-5028 May 08 j 04:39	2° ♁ 56'43	
retrograde	-5034 Jul 31 j 19:35	4° ♁ 05'07			-5028 Aug 14 j 11:03	15° ♁	
	-5034 Sep 21 j 23:55	30° ♁		evening set	-5028 Sep 11 j 05:28	21° ♁ 03'23	
min. Earth dist.	-5034 Sep 28 j 06:01	29° ♁ 09'04	4.13037 AU	max. Earth dist.	-5028 Sep 22 j 04:11	23° ♁ 32'11	6.28149 AU
opposition	-5034 Sep 29 j 06:38	29° ♁ 00'39	-1°51'04				
direct	-5034 Nov 27 j 00:35	24° ♁ 00'18		conjunction	-5028 Sep 23 j 17:16	23° ♁ 53'15	1°19'05
	-5033 Jan 29 j 21:33	0° ♁		minimum elong	-5028 Sep 23 j 17:18	23° ♁ 53'17	1°19'16
evening set	-5033 Apr 02 j 20:56	12° ♁ 52'43		morning rise	-5028 Oct 06 j 04:19	26° ♁ 42'53	
					-5028 Oct 20 j 21:38	0° ♁	
conjunction	-5033 Apr 16 j 15:14	15° ♁ 59'47	-0°59'42	retrograde	-5027 Feb 07 j 12:29	14° ♁ 46'19	
minimum elong	-5033 Apr 16 j 15:18	15° ♁ 59'49	0°59'46	opposition	-5027 Apr 09 j 15:28	9° ♁ 53'16	1°37'58
max. Earth dist.	-5033 Apr 17 j 21:10	16° ♁ 16'46	6.18023 AU	min. Earth dist.	-5027 Apr 10 j 13:33	9° ♁ 46'14	4.23415 AU
morning rise	-5033 Apr 30 j 09:26	19° ♁ 06'35		direct	-5027 Jun 10 j 03:04	4° ♁ 57'18	
	-5033 Jun 21 j 13:25	0° ♁		evening set	-5027 Oct 13 j 00:01	23° ♁ 20'05	
retrograde	-5033 Sep 03 j 00:27	7° ♁ 38'07					
opposition	-5033 Nov 01 j 08:32	2° ♁ 36'38	-0°58'41	conjunction	-5027 Oct 25 j 14:03	26° ♁ 14'56	0°48'20
min. Earth dist.	-5033 Oct 31 j 20:49	2° ♁ 40'35	4.23167 AU	minimum elong	-5027 Oct 25 j 14:06	26° ♁ 14'58	0°48'22
	-5033 Nov 21 j 17:01	30° ♁		max. Earth dist.	-5027 Oct 24 j 17:15	26° ♁ 02'52	6.18301 AU
direct	-5033 Dec 31 j 08:03	27° ♁ 33'47		morning rise	-5027 Nov 07 j 04:46	29° ♁ 10'24	
	-5032 Feb 09 j 09:00	0° ♁			-5027 Nov 10 j 18:56	0° ♁	
evening set	-5032 May 06 j 23:45	16° ♁ 03'04		retrograde	-5026 Mar 14 j 18:36	18° ♁ 05'31	
				opposition	-5026 May 14 j 21:27	13° ♁ 09'22	0°37'52
conjunction	-5032 May 20 j 15:37	19° ♁ 04'59	-0°16'49	min. Earth dist.	-5026 May 15 j 05:09	13° ♁ 06'54	4.13287 AU
minimum elong	-5032 May 20 j 15:39	19° ♁ 05'00	0°16'45	direct	-5026 Jul 14 j 02:21	8° ♁ 15'45	
max. Earth dist.	-5032 May 20 j 22:47	19° ♁ 08'57	6.28034 AU	evening set	-5026 Nov 15 j 03:27	26° ♁ 59'10	
morning rise	-5032 Jun 03 j 05:22	22° ♁ 05'42					
	-5032 Jul 10 j 16:56	0° ♁		conjunction	-5026 Nov 27 j 23:12	0° ♁ 00'36	0°00'42
retrograde	-5032 Oct 03 j 16:47	9° ♁ 46'45		minimum elong	-5026 Nov 27 j 23:13	0° ♁ 00'37	0°00'35
asc. node	-5032 Oct 07 j 22:39	9° ♁ 44'58		behind sun begin	-5026 Nov 27 j 15:09	29° ♁ 55'52	
opposition	-5032 Dec 02 j 06:25	4° ♁ 49'09	0°09'44	behind sun end	-5026 Nov 28 j 07:18	0° ♁ 05'22	
min. Earth dist.	-5032 Dec 02 j 09:06	4° ♁ 48'16	4.32176 AU		-5026 Nov 27 j 22:05	0° ♁	
	-5031 Jan 19 j 23:59	30° ♁		max. Earth dist.	-5026 Nov 27 j 23:47	0° ♁ 00'55	6.08861 AU
direct	-5031 Feb 01 j 11:20	29° ♁ 45'17		desc. node	-5026 Dec 03 j 05:52	1° ♁ 15'26	
	-5031 Feb 14 j 01:20	0° ♁		morning rise	-5026 Dec 10 j 21:37	3° ♁ 03'34	
	-5031 May 27 j 00:20	15° ♁			-5025 Feb 04 j 06:17	15° ♁	
evening set	-5031 Jun 09 j 12:47	17° ♁ 55'04		retrograde	-5025 Apr 20 j 08:50	22° ♁ 48'15	
				opposition	-5025 Jun 20 j 04:32	17° ♁ 48'07	-0°38'06
conjunction	-5031 Jun 22 j 21:10	20° ♁ 50'53	0°30'04	min. Earth dist.	-5025 Jun 19 j 18:09	17° ♁ 51'32	4.05339 AU
minimum elong	-5031 Jun 22 j 21:07	20° ♁ 50'52	0°30'15		-5025 Jul 12 j 22:11	15° ♁	
max. Earth dist.	-5031 Jun 22 j 04:30	20° ♁ 41'43	6.35385 AU	direct	-5025 Aug 18 j 03:07	12° ♁ 55'08	
morning rise	-5031 Jul 06 j 02:18	23° ♁ 45'03			-5025 Sep 22 j 21:31	15° ♁	
	-5031 Aug 04 j 15:02	0° ♁			-5025 Dec 11 j 16:15	0° ♁	
retrograde	-5031 Nov 03 j 18:21	10° ♁ 55'40		evening set	-5025 Dec 20 j 01:25	1° ♁ 58'14	
opposition	-5030 Jan 02 j 16:28	6° ♁ 01'38	1°13'11				
min. Earth dist.	-5030 Jan 03 j 10:09	5° ♁ 55'53	4.37419 AU	conjunction	-5024 Jan 02 j 04:47	5° ♁ 05'28	-0°48'28
direct	-5030 Mar 05 j 21:37	0° ♁ 58'20		minimum elong	-5024 Jan 02 j 04:43	5° ♁ 05'26	0°48'42
evening set	-5030 Jul 11 j 17:12	18° ♁ 57'13		max. Earth dist.	-5024 Jan 03 j 06:59	5° ♁ 21'03	6.03115 AU
max. Earth dist.	-5030 Jul 23 j 06:00	21° ♁ 29'13	6.38032 AU	morning rise	-5024 Jan 15 j 11:18	8° ♁ 14'29	
				retrograde	-5024 May 26 j 12:13	28° ♁ 27'06	
conjunction	-5030 Jul 24 j 16:03	21° ♁ 47'58	1°07'23	opposition	-5024 Jul 25 j 17:33	23° ♁ 23'31	-1°41'48
minimum elong	-5030 Jul 24 j 15:59	21° ♁ 47'56	1°07'39	min. Earth dist.	-5024 Jul 24 j 18:18	23° ♁ 31'19	4.02514 AU
morning rise	-5030 Aug 06 j 11:37	24° ♁ 37'07		direct	-5024 Sep 21 j 21:30	18° ♁ 29'07	
	-5030 Aug 31 j 16:57	0° ♁			-5024 Dec 21 j 11:12	0° ♁	
retrograde	-5030 Dec 04 j 21:36	11° ♁ 42'23		evening set	-5023 Jan 24 j 11:52	7° ♁ 42'34	
opposition	-5029 Feb 03 j 07:47	6° ♁ 50'31	1°55'19				
min. Earth dist.	-5029 Feb 04 j 10:30	6° ♁ 41'57	4.37478 AU	conjunction	-5023 Feb 06 j 22:17	10° ♁ 52'42	-1°20'10
direct	-5029 Apr 06 j 22:17	1° ♁ 49'00		minimum elong	-5023 Feb 06 j 22:15	10° ♁ 52'41	1°20'26
evening set	-5029 Aug 12 j 01:20	19° ♁ 47'08		max. Earth dist.	-5023 Feb 08 j 15:48	11° ♁ 51'13	6.03324 AU

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 34

Attention, astronomical year style is used: The year -5023 in astronomical counting style is the year 5024 BCE in historical counting style.

morning rise	-5023 Feb 20 j 11:57	14° 	25	opposition	-5017 Feb 07 j 20:35	11° 	19°21	1°58'50
	-5023 May 10 j 09:22	0° 		min. Earth dist.	-5017 Feb 09 j 00:26	11° 	10°27	4.37154 AU
retrograde	-5023 Jul 01 j 18:50	4° 	08'24	direct	-5017 Apr 11 j 12:00	6° 	18°08	
	-5023 Aug 23 j 13:21	30° 		evening set	-5017 Aug 16 j 10:49	24° 	16°23	
min. Earth dist.	-5023 Aug 29 j 08:06	29° 	12'59	4.05886 AU	max. Earth dist.	-5017 Aug 27 j 08:07	26° 	41'49
opposition	-5023 Aug 30 j 12:48	29° 	03'13	-2°07'04				
direct	-5023 Oct 27 j 15:27	24° 	05'46		conjunction	-5017 Aug 29 j 01:06	27° 	04'42
	-5023 Dec 29 j 00:28	0° 			minimum elong	-5017 Aug 29 j 01:06	27° 	04'42
evening set	-5022 Mar 02 j 11:37	13° 	14'26		morning rise	-5017 Sep 10 j 13:14	29° 	52'03
	-5022 Mar 10 j 02:25	15° 				-5017 Sep 11 j 03:32	0° 	
						-5017 Dec 02 j 04:10	15° 	
conjunction	-5022 Mar 16 j 03:51	16° 	24'17	-1°21'52	retrograde	-5016 Jan 10 j 13:44	17° 	20'02
minimum elong	-5022 Mar 16 j 03:54	16° 	24'18	1°22'04		-5016 Feb 19 j 12:27	15° 	
max. Earth dist.	-5022 Mar 17 j 21:57	16° 	48'40	6.09461 AU	opposition	-5016 Mar 11 j 12:00	12° 	28'21
morning rise	-5022 Mar 29 j 21:46	19° 	34'49		min. Earth dist.	-5016 Mar 12 j 16:16	12° 	19'22
	-5022 May 17 j 07:14	0° 			direct	-5016 May 12 j 18:17	7° 	29'49
retrograde	-5022 Aug 05 j 13:39	8° 	56'17			-5016 Jul 26 j 13:08	15° 	
opposition	-5022 Oct 03 j 22:39	3° 	52'09	-1°45'37	evening set	-5016 Sep 15 j 15:17	25° 	37'48
min. Earth dist.	-5022 Oct 03 j 00:29	3° 	59'43	4.14118 AU	max. Earth dist.	-5016 Sep 26 j 16:50	28° 	08'33
	-5022 Nov 05 j 14:10	30° 						6.26998 AU
direct	-5022 Dec 01 j 20:53	28° 	51'22		conjunction	-5016 Sep 28 j 03:11	28° 	28'08
	-5022 Dec 28 j 09:15	0° 			minimum elong	-5016 Sep 28 j 03:14	28° 	28'09
evening set	-5021 Apr 07 j 20:10	17° 	41'47			-5016 Oct 04 j 20:24	0° 	
					morning rise	-5016 Oct 10 j 14:16	1° 	18'17
conjunction	-5021 Apr 21 j 14:38	20° 	48'27	-0°54'32	retrograde	-5015 Feb 12 j 08:42	19° 	27'56
minimum elong	-5021 Apr 21 j 14:42	20° 	48'29	0°54'35	opposition	-5015 Apr 14 j 12:00	14° 	34'33
max. Earth dist.	-5021 Apr 22 j 18:18	21° 	04'06	6.19145 AU	min. Earth dist.	-5015 Apr 15 j 09:02	14° 	27'50
morning rise	-5021 May 05 j 08:36	23° 	54'41		direct	-5015 Jun 14 j 20:16	9° 	38'57
	-5021 Jun 02 j 06:26	0° 			evening set	-5015 Oct 17 j 13:16	28° 	04'09
retrograde	-5021 Sep 07 j 12:13	12° 	19'37			-5015 Oct 25 j 21:01	0° 	
opposition	-5021 Nov 05 j 20:54	7° 	18'38	-0°49'35	max. Earth dist.	-5015 Oct 29 j 08:02	0° 	48'20
min. Earth dist.	-5021 Nov 05 j 10:10	7° 	22'15	4.24235 AU				6.16926 AU
direct	-5020 Jan 04 j 23:10	2° 	15'33		conjunction	-5015 Oct 30 j 03:46	0° 	59'49
evening set	-5020 May 11 j 18:55	20° 	42'53		minimum elong	-5015 Oct 30 j 03:49	0° 	59'51
					morning rise	-5015 Nov 11 j 19:32	3° 	56'18
conjunction	-5020 May 25 j 10:00	23° 	44'06	-0°10'09	retrograde	-5014 Mar 19 j 19:09	22° 	58'44
minimum elong	-5020 May 25 j 10:00	23° 	44'06	0°10'03	opposition	-5014 May 19 j 22:02	18° 	02'01
behind sun begin	-5020 May 25 j 03:25	23° 	40'27		min. Earth dist.	-5014 May 20 j 03:02	18° 	00'24
behind sun end	-5020 May 25 j 16:36	23° 	47'45		direct	-5014 Jul 18 j 22:17	13° 	08'32
max. Earth dist.	-5020 May 25 j 13:12	23° 	45'52	6.28988 AU	desc. node	-5014 Oct 12 j 17:40	23° 	22'16
morning rise	-5020 Jun 07 j 22:54	26° 	44'03			-5014 Nov 11 j 17:00	0° 	
	-5020 Jun 22 j 22:57	0° 			evening set	-5014 Nov 19 j 22:06	1° 	55'07
asc. node	-5020 Aug 17 j 20:21	10° 	22'34					
retrograde	-5020 Oct 08 j 04:05	14° 	20'24		conjunction	-5014 Dec 02 j 19:02	4° 	57'34
opposition	-5020 Dec 06 j 17:19	9° 	23'19	0°19'25	minimum elong	-5014 Dec 02 j 19:02	4° 	57'34
min. Earth dist.	-5020 Dec 06 j 22:42	9° 	21'31	4.32945 AU	behind sun begin	-5014 Dec 02 j 11:29	4° 	53'07
direct	-5019 Feb 06 j 02:42	4° 	19'25		behind sun end	-5014 Dec 03 j 02:36	5° 	02'01
	-5019 May 09 j 11:23	15° 			max. Earth dist.	-5014 Dec 03 j 00:08	5° 	00'33
evening set	-5019 Jun 14 j 03:40	22° 	27'41		morning rise	-5014 Dec 15 j 18:27	8° 	01'32
						-5013 Jan 15 j 10:47	15° 	
conjunction	-5019 Jun 27 j 10:53	25° 	22'47	0°36'11	retrograde	-5013 Apr 25 j 15:23	27° 	52'17
minimum elong	-5019 Jun 27 j 10:50	25° 	22'46	0°36'23	opposition	-5013 Jun 25 j 07:47	22° 	51'39
max. Earth dist.	-5019 Jun 26 j 16:12	25° 	12'31	6.35905 AU	min. Earth dist.	-5013 Jun 24 j 20:13	22° 	55'28
morning rise	-5019 Jul 10 j 14:38	28° 	16'11		direct	-5013 Aug 23 j 03:17	17° 	58'36
	-5019 Jul 18 j 13:45	0° 				-5013 Nov 24 j 04:36	0° 	
retrograde	-5019 Nov 08 j 02:54	15° 	24'49		evening set	-5013 Dec 25 j 02:30	7° 	24'31
opposition	-5018 Jan 07 j 03:16	10° 	31'06	1°20'45				
min. Earth dist.	-5018 Jan 07 j 21:30	10° 	25'10	4.37685 AU	conjunction	-5012 Jan 07 j 06:46	10° 	25'12
direct	-5018 Mar 10 j 09:26	5° 	27'56		minimum elong	-5012 Jan 07 j 06:42	10° 	25'12
evening set	-5018 Jul 16 j 04:46	23° 	26'07		max. Earth dist.	-5012 Jan 08 j 10:34	10° 	28'57
max. Earth dist.	-5018 Jul 27 j 15:33	25° 	57'08	6.38007 AU	morning rise	-5012 Jan 20 j 14:34	13° 	22'10
						-5012 Apr 12 j 16:27	0° 	
conjunction	-5018 Jul 29 j 02:18	26° 	16'18	1°11'16	retrograde	-5012 May 31 j 15:57	3° 	36'52
minimum elong	-5018 Jul 29 j 02:15	26° 	16'16	1°11'33		-5012 Jul 19 j 22:11	30° 	
morning rise	-5018 Aug 10 j 20:38	29° 	11'04	56	opposition	-5012 Jul 30 j 20:11	28° 	25'32
	-5018 Aug 15 j 01:25	0° 			min. Earth dist.	-5012 Jul 29 j 18:48	28° 	29'41
retrograde	-5018 Dec 09 j 09:23	16° 	21'05		direct	-5012 Sep 26 j 21:20	23° 	28'38

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 35

Attention, astronomical year style is used: The year -5012 in astronomical counting style is the year 5013 BCE in historical counting style.

	-5012 Nov 30 j 10:10	0°♁		max. Earth dist.	-5006 Jul 31 j 20:37	0°♁17'06	6.38446 AU
evening set	-5011 Jan 29 j 17:21	12°♁53'00					
				conjunction	-5006 Aug 02 j 09:00	0°♁37'10	1°14'35
conjunction	-5011 Feb 12 j 04:48	16°♁03'25 -1°22'21		minimum elong	-5006 Aug 02 j 08:57	0°♁37'08	1°14'51
minimum elong	-5011 Feb 12 j 04:46	16°♁03'24 1°22'36		morning rise	-5006 Aug 15 j 02:05	3°♁25'08	
max. Earth dist.	-5011 Feb 13 j 23:42	16°♁28'44 6.03626 AU		retrograde	-5006 Dec 13 j 15:31	20°♁31'07	
morning rise	-5011 Feb 25 j 19:11	19°♁15'17		opposition	-5005 Feb 12 j 05:43	15°♁39'28	2°01'27
	-5011 Apr 15 j 20:56	0°≈		min. Earth dist.	-5005 Feb 13 j 09:52	15°♁30'28	4.37144 AU
retrograde	-5011 Jul 06 j 21:02	9°≈16'08		direct	-5005 Apr 15 j 20:25	10°♁38'32	
min. Earth dist.	-5011 Sep 03 j 08:42	4°≈20'26 4.06586 AU		evening set	-5005 Aug 20 j 16:05	28°♁36'07	
opposition	-5011 Sep 04 j 12:26	4°≈10'58 -2°06'46			-5005 Aug 26 j 22:52	0°♁	
	-5011 Oct 11 j 07:00	30°♁♁		max. Earth dist.	-5005 Aug 31 j 12:39	1°♁01'22	6.34274 AU
direct	-5011 Nov 01 j 17:29	29°♁13'05					
	-5011 Nov 23 j 05:59	0°≈		conjunction	-5005 Sep 02 j 05:39	1°♁24'19	1°26'12
	-5010 Feb 21 j 00:13	15°≈		minimum elong	-5005 Sep 02 j 05:39	1°♁24'19	1°26'26
evening set	-5010 Mar 07 j 17:26	18°≈20'44		morning rise	-5005 Sep 14 j 17:11	4°♁11'38	
					-5005 Nov 06 j 13:56	15°♁	
conjunction	-5010 Mar 21 j 10:21	21°≈30'26 -1°19'32		retrograde	-5004 Jan 15 j 01:09	21°♁43'12	
minimum elong	-5010 Mar 21 j 10:24	21°≈30'28 1°19'43		opposition	-5004 Mar 15 j 23:53	16°♁51'27	2°01'16
max. Earth dist.	-5010 Mar 23 j 04:30	21°≈54'46 6.10523 AU		min. Earth dist.	-5004 Mar 17 j 05:16	16°♁42'07	4.30507 AU
morning rise	-5010 Apr 04 j 04:35	24°≈40'39			-5004 Mar 30 j 23:22	15°♁♁	
	-5010 Apr 27 j 23:05	0°♁		direct	-5004 May 17 j 05:23	11°♁53'16	
retrograde	-5010 Aug 10 j 09:11	13°♁55'00			-5004 Jul 02 j 14:28	15°♁	
opposition	-5010 Oct 08 j 17:44	8°♁51'17 -1°39'16		evening set	-5004 Sep 19 j 21:10	0°♁02'54	
min. Earth dist.	-5010 Oct 07 j 19:38	8°♁58'49 4.15458 AU			-5004 Sep 19 j 16:03	0°♁	
direct	-5010 Dec 06 j 18:27	3°♁50'13		max. Earth dist.	-5004 Sep 30 j 21:53	2°♁33'42	6.25683 AU
evening set	-5009 Apr 12 j 22:26	22°♁37'32					
				conjunction	-5004 Oct 02 j 09:05	2°♁53'48	1°12'50
conjunction	-5009 Apr 26 j 16:36	25°♁43'28 -0°48'53		minimum elong	-5004 Oct 02 j 09:08	2°♁53'50	1°12'58
minimum elong	-5009 Apr 26 j 16:40	25°♁43'30 0°48'56		morning rise	-5004 Oct 14 j 20:39	5°♁44'41	
max. Earth dist.	-5009 Apr 27 j 16:50	25°♁57'08 6.20693 AU		retrograde	-5003 Feb 17 j 00:18	24°♁01'25	
morning rise	-5009 May 10 j 10:14	28°♁48'53		opposition	-5003 Apr 19 j 04:38	19°♁07'38	1°24'12
	-5009 May 15 j 17:49	0°♁		min. Earth dist.	-5003 Apr 20 j 00:02	19°♁01'27	4.20466 AU
retrograde	-5009 Sep 12 j 02:53	17°♁05'38		direct	-5003 Jun 19 j 08:13	14°♁12'18	
opposition	-5009 Nov 10 j 11:29	12°♁05'12 -0°40'02			-5003 Oct 10 j 06:05	0°♁	
min. Earth dist.	-5009 Nov 10 j 03:05	12°♁08'01 4.25857 AU		evening set	-5003 Oct 21 j 23:25	2°♁41'26	
direct	-5008 Jan 09 j 19:18	7°♁01'57					
evening set	-5008 May 16 j 15:01	25°♁25'06		conjunction	-5003 Nov 03 j 14:48	5°♁38'13	0°36'22
				minimum elong	-5003 Nov 03 j 14:51	5°♁38'15	0°36'22
conjunction	-5008 May 30 j 05:17	28°♁25'18 -0°03'25		max. Earth dist.	-5003 Nov 02 j 22:14	5°♁28'32	6.15143 AU
minimum elong	-5008 May 30 j 05:17	28°♁25'17 0°03'18		morning rise	-5003 Nov 16 j 07:24	8°♁35'53	
behind sun begin	-5008 May 29 j 21:04	28°♁20'46		retrograde	-5002 Mar 24 j 20:08	27°♁47'21	
behind sun end	-5008 May 30 j 13:29	28°♁29'49		opposition	-5002 May 24 j 20:24	22°♁50'11	0°17'26
max. Earth dist.	-5008 May 30 j 07:08	28°♁26'16 6.30588 AU		min. Earth dist.	-5002 May 25 j 00:30	22°♁48'51	4.10143 AU
	-5008 Jun 06 j 08:23	0°♁		direct	-5002 Jul 23 j 16:46	17°♁56'51	
morning rise	-5008 Jun 12 j 16:50	1°♁24'04		desc. node	-5002 Aug 23 j 20:15	19°♁30'21	
asc. node	-5008 Jun 27 j 08:29	4°♁34'56			-5002 Oct 25 j 19:16	0°♁	
	-5008 Aug 22 j 15:56	15°♁		evening set	-5002 Nov 24 j 15:57	6°♁48'38	
retrograde	-5008 Oct 12 j 12:02	18°♁53'32					
	-5008 Dec 03 j 03:37	15°♁♁		conjunction	-5002 Dec 07 j 13:53	9°♁52'17	-0°13'37
opposition	-5008 Dec 11 j 03:54	13°♁56'59 0°28'52		minimum elong	-5002 Dec 07 j 13:52	9°♁52'16	0°13'47
min. Earth dist.	-5008 Dec 11 j 10:06	13°♁54'56 4.34410 AU		behind sun begin	-5002 Dec 07 j 09:28	9°♁49'40	
direct	-5007 Feb 10 j 16:06	8°♁53'09		behind sun end	-5002 Dec 07 j 18:16	9°♁54'52	
	-5007 Apr 19 j 00:50	15°♁		max. Earth dist.	-5002 Dec 07 j 20:45	9°♁56'21	6.06030 AU
evening set	-5007 Jun 18 j 17:16	26°♁57'30		morning rise	-5002 Dec 20 j 14:45	12°♁57'34	
					-5002 Dec 29 j 07:49	15°♁	
conjunction	-5007 Jul 01 j 22:53	29°♁51'29 0°41'56			-5001 Mar 17 j 16:03	0°♁♁	
minimum elong	-5007 Jul 01 j 22:50	29°♁51'27 0°42'10		retrograde	-5001 Apr 30 j 19:05	2°♁56'07	
max. Earth dist.	-5007 Jul 01 j 00:46	29°♁39'20 6.37114 AU			-5001 Jun 14 j 04:18	30°♁♁	
	-5007 Jul 02 j 14:23	0°♁		opposition	-5001 Jun 30 j 10:03	27°♁54'56	-0°58'22
morning rise	-5007 Jul 15 j 01:16	2°♁43'48		min. Earth dist.	-5001 Jun 29 j 19:20	27°♁59'49	4.03124 AU
retrograde	-5007 Nov 12 j 10:56	19°♁48'32		direct	-5001 Aug 28 j 00:17	23°♁01'47	
opposition	-5006 Jan 11 j 12:13	14°♁55'13 1°27'33			-5001 Nov 03 j 23:57	0°♁♁	
min. Earth dist.	-5006 Jan 12 j 09:05	14°♁48'27 4.38558 AU		evening set	-5001 Dec 30 j 04:26	12°♁12'22	
direct	-5006 Mar 14 j 22:14	9°♁52'14					
evening set	-5006 Jul 20 j 12:40	27°♁47'41		conjunction	-5000 Jan 12 j 09:58	15°♁21'11	-0°59'48
	-5006 Jul 30 j 13:36	0°♁		minimum elong	-5000 Jan 12 j 09:54	15°♁21'08	1°00'03

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 36

Attention, astronomical year style is used: The year -5000 in astronomical counting style is the year 5001 BCE in historical counting style.

max. Earth dist.	-5000 Jan 13 j 17:29	15° ♁ 39'57	6.01691 AU	retrograde	-4995 Nov 16 j 18:50	24° ♂ 15'54	
morning rise	-5000 Jan 25 j 18:50	18° ♁ 31'47		opposition	-4994 Jan 15 j 23:05	19° ♂ 22'55	1°34'08
	-5000 Mar 18 j 00:16	0° ♂		min. Earth dist.	-4994 Jan 16 j 20:46	19° ♂ 15'55	4.38796 AU
retrograde	-5000 Jun 05 j 22:15	8° ♂ 49'21		direct	-4994 Mar 19 j 09:53	14° ♂ 20'12	
opposition	-5000 Aug 04 j 23:30	3° ♂ 45'01	-1°53'33		-4994 Jul 14 j 14:06	0° ♂	
min. Earth dist.	-5000 Aug 03 j 21:26	3° ♂ 53'50	4.02075 AU	evening set	-4994 Jul 24 j 23:15	2° ♂ 15'08	
	-5000 Sep 05 j 17:14	30° ♁ ♂		max. Earth dist.	-4994 Aug 05 j 03:34	4° ♂ 42'48	6.38224 AU
direct	-5000 Oct 02 j 00:23	28° ♁ 49'53					
	-5000 Oct 28 j 07:18	0° ♂		conjunction	-4994 Aug 06 j 18:15	5° ♂ 04'10	1°17'39
evening set	-4999 Feb 04 j 00:14	18° ♂ 06'25		minimum elong	-4994 Aug 06 j 18:13	5° ♂ 04'08	1°17'54
				morning rise	-4994 Aug 19 j 10:23	7° ♂ 51'48	
conjunction	-4999 Feb 17 j 12:44	21° ♂ 17'11	-1°23'49	retrograde	-4994 Dec 18 j 04:40	24° ♂ 59'57	
minimum elong	-4999 Feb 17 j 12:43	21° ♂ 17'10	1°24'04	opposition	-4993 Feb 16 j 19:16	20° ♂ 08'27	2°03'37
max. Earth dist.	-4999 Feb 19 j 10:13	21° ♂ 43'57	6.03884 AU	min. Earth dist.	-4993 Feb 18 j 01:12	19° ♂ 58'54	4.36486 AU
morning rise	-4999 Mar 03 j 03:59	24° ♂ 29'15		direct	-4993 Apr 20 j 10:43	15° ♂ 07'52	
	-4999 Mar 27 j 08:01	0° ♁			-4993 Aug 10 j 21:12	0° ♂	
retrograde	-4999 Jul 11 j 22:56	14° ♁ 26'12		evening set	-4993 Aug 25 j 01:35	3° ♂ 06'47	
min. Earth dist.	-4999 Sep 08 j 08:06	9° ♁ 30'46	4.07391 AU	max. Earth dist.	-4993 Sep 04 j 21:25	5° ♂ 32'02	6.33217 AU
opposition	-4999 Sep 09 j 12:43	9° ♁ 21'00	-2°05'23				
direct	-4999 Nov 06 j 18:39	4° ♁ 22'37		conjunction	-4993 Sep 06 j 14:42	5° ♂ 55'12	1°25'50
	-4998 Feb 02 j 09:34	15° ♁		minimum elong	-4993 Sep 06 j 14:43	5° ♂ 55'12	1°26'04
evening set	-4998 Mar 13 j 00:08	23° ♁ 28'23		morning rise	-4993 Sep 19 j 01:54	8° ♂ 42'48	
					-4993 Oct 18 j 04:23	15° ♂	
conjunction	-4998 Mar 26 j 17:24	26° ♁ 37'43	-1°16'33	retrograde	-4992 Jan 19 j 17:16	26° ♂ 20'07	
minimum elong	-4998 Mar 26 j 17:27	26° ♁ 37'45	1°16'42	opposition	-4992 Mar 20 j 18:03	21° ♂ 28'11	1°58'12
max. Earth dist.	-4998 Mar 28 j 09:23	27° ♁ 00'44	6.11771 AU	min. Earth dist.	-4992 Mar 21 j 21:49	21° ♂ 19'22	4.29129 AU
morning rise	-4998 Apr 09 j 11:59	29° ♁ 47'27		direct	-4992 May 21 j 19:33	16° ♂ 30'27	
	-4998 Apr 10 j 10:00	0° ♁			-4992 Sep 03 j 03:59	0° ♁	
retrograde	-4998 Aug 15 j 04:21	18° ♁ 53'34		evening set	-4992 Sep 24 j 08:55	4° ♁ 43'00	
opposition	-4998 Oct 13 j 12:44	13° ♁ 50'04	-1°32'08				
min. Earth dist.	-4998 Oct 12 j 16:18	13° ♁ 57'02	4.16966 AU	conjunction	-4992 Oct 06 j 21:03	7° ♁ 34'39	1°08'54
direct	-4998 Dec 11 j 18:15	8° ♁ 48'30		minimum elong	-4992 Oct 06 j 21:07	7° ♁ 34'41	1°09'01
evening set	-4997 Apr 18 j 00:13	27° ♁ 31'51		max. Earth dist.	-4992 Oct 05 j 12:22	7° ♁ 15'54	6.24110 AU
	-4997 Apr 29 j 00:28	0° ♁		morning rise	-4992 Oct 19 j 09:00	10° ♁ 26'23	
				retrograde	-4991 Feb 22 j 01:24	28° ♁ 51'13	
conjunction	-4997 May 01 j 18:18	0° ♁ 37'01	-0°42'52	opposition	-4991 Apr 24 j 04:36	23° ♁ 57'08	1°16'09
minimum elong	-4997 May 01 j 18:22	0° ♁ 37'03	0°42'53	min. Earth dist.	-4991 Apr 24 j 23:00	23° ♁ 51'15	4.18799 AU
max. Earth dist.	-4997 May 02 j 17:11	0° ♁ 49'53	6.22331 AU	direct	-4991 Jun 24 j 04:54	19° ♁ 02'13	
morning rise	-4997 May 15 j 11:12	3° ♁ 41'27			-4991 Sep 22 j 15:40	0° ♁	
retrograde	-4997 Sep 16 j 15:40	21° ♁ 49'43		evening set	-4991 Oct 26 j 16:17	7° ♁ 35'07	
opposition	-4997 Nov 15 j 01:27	16° ♁ 49'47	-0°30'13				
min. Earth dist.	-4997 Nov 14 j 18:31	16° ♁ 52'06	4.27435 AU	conjunction	-4991 Nov 08 j 08:26	10° ♁ 32'57	0°29'43
direct	-4996 Jan 14 j 12:57	11° ♁ 46'21		minimum elong	-4991 Nov 08 j 08:28	10° ♁ 32'59	0°29'41
asc. node	-4996 May 05 j 20:06	26° ♁ 42'59		max. Earth dist.	-4991 Nov 07 j 18:12	10° ♁ 24'37	6.13555 AU
evening set	-4996 May 21 j 10:33	0° ♁ 05'34		morning rise	-4991 Nov 21 j 02:13	13° ♁ 31'49	
	-4996 May 21 j 00:23	0° ♁			-4990 Feb 14 j 07:09	0° ♁	
				retrograde	-4990 Mar 30 j 01:01	2° ♁ 51'24	
conjunction	-4996 Jun 03 j 23:36	3° ♁ 04'44	0°03'32		-4990 May 13 j 07:01	30° ♁ ♂	
minimum elong	-4996 Jun 03 j 23:36	3° ♁ 04'44	0°03'39	opposition	-4990 May 30 j 00:51	27° ♁ 53'43	0°06'30
behind sun begin	-4996 Jun 03 j 15:26	3° ♁ 00'15		min. Earth dist.	-4990 May 30 j 01:05	27° ♁ 53'39	4.08801 AU
behind sun end	-4996 Jun 04 j 07:46	3° ♁ 09'13		desc. node	-4990 Jul 02 j 16:19	24° ♁ 05'38	
max. Earth dist.	-4996 Jun 03 j 20:29	3° ♁ 03'03	6.31960 AU	direct	-4990 Jul 28 j 15:14	23° ♁ 00'37	
morning rise	-4996 Jun 17 j 10:08	6° ♁ 02'29			-4990 Oct 05 j 11:15	0° ♁	
	-4996 Jul 30 j 17:05	15° ♁		evening set	-4990 Nov 29 j 15:20	11° ♁ 55'48	
retrograde	-4996 Oct 16 j 22:34	23° ♁ 26'20					
opposition	-4996 Dec 15 j 15:11	18° ♁ 30'16	0°38'15	conjunction	-4990 Dec 12 j 14:23	15° ♁ 00'21	-0°20'54
min. Earth dist.	-4996 Dec 16 j 00:24	18° ♁ 27'14	4.35472 AU	minimum elong	-4990 Dec 12 j 14:21	15° ♁ 00'20	0°21'04
	-4995 Jan 14 j 04:40	15° ♁ ♂			-4990 Dec 12 j 13:48	15° ♁	
direct	-4995 Feb 15 j 08:08	13° ♁ 26'26		max. Earth dist.	-4990 Dec 13 j 01:59	15° ♁ 07'15	6.05075 AU
	-4995 Mar 19 j 20:42	15° ♁		morning rise	-4990 Dec 25 j 16:20	18° ♁ 06'34	
	-4995 Jun 16 j 12:03	0° ♁			-4989 Feb 18 j 07:17	0° ♁	
evening set	-4995 Jun 23 j 07:04	1° ♁ 28'17		retrograde	-4989 May 06 j 03:37	8° ♁ 09'54	
max. Earth dist.	-4995 Jul 05 j 11:50	4° ♁ 08'29	6.37773 AU	opposition	-4989 Jul 05 j 16:17	3° ♁ 08'11	-1°08'11
				min. Earth dist.	-4989 Jul 04 j 23:48	3° ♁ 13'40	4.02678 AU
conjunction	-4995 Jul 06 j 11:29	4° ♁ 21'28	0°47'35		-4989 Jul 31 j 09:27	30° ♁ ♂	
minimum elong	-4995 Jul 06 j 11:26	4° ♁ 21'26	0°47'50	direct	-4989 Sep 02 j 04:13	28° ♁ 14'55	
morning rise	-4995 Jul 19 j 12:18	7° ♁ 12'54			-4989 Oct 04 j 16:40	0° ♁	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 37

Attention, astronomical year style is used: The year -4988 in astronomical counting style is the year 4989 BCE in historical counting style.

evening set	-4988 Jan 04 j 09:04	17° 𐀓 26'42		max. Earth dist.	-4983 Jul 09 j 17:54	8° 𐀓 32'20	6.37906 AU
				morning rise	-4983 Jul 23 j 21:33	11° 𐀓 38'35	
conjunction	-4988 Jan 17 j 15:36	20° 𐀓 35'53	-1°04'54	retrograde	-4983 Nov 21 j 04:38	28° 𐀓 41'44	
minimum elong	-4988 Jan 17 j 15:33	20° 𐀓 35'51	1°05'10	opposition	-4982 Jan 20 j 09:31	23° 𐀓 49'02	1°40'05
max. Earth dist.	-4988 Jan 19 j 02:55	20° 𐀓 56'54	6.01784 AU	min. Earth dist.	-4982 Jan 21 j 09:30	23° 𐀓 41'18	4.38491 AU
morning rise	-4988 Jan 31 j 01:28	23° 𐀓 46'51		direct	-4982 Mar 23 j 22:23	18° 𐀓 46'31	
	-4988 Feb 27 j 03:24	0° 𐀓			-4982 Jun 27 j 14:27	0° 𐀓	
retrograde	-4988 Jun 11 j 03:07	14° 𐀓 02'56		evening set	-4982 Jul 29 j 08:56	6° 𐀓 42'28	
min. Earth dist.	-4988 Aug 08 j 23:05	9° 𐀓 07'43	4.02738 AU	max. Earth dist.	-4982 Aug 09 j 12:26	9° 𐀓 09'59	6.37495 AU
opposition	-4988 Aug 10 j 02:46	8° 𐀓 58'21	-1°58'05				
direct	-4988 Oct 07 j 02:55	4° 𐀓 02'51		conjunction	-4982 Aug 11 j 03:06	9° 𐀓 31'22	1°20'12
evening set	-4987 Feb 09 j 06:27	23° 𐀓 17'39		minimum elong	-4982 Aug 11 j 03:03	9° 𐀓 31'21	1°20'28
				morning rise	-4982 Aug 23 j 18:10	12° 𐀓 18'53	
conjunction	-4987 Feb 22 j 19:34	26° 𐀓 28'10	-1°24'41	retrograde	-4982 Dec 22 j 16:37	29° 𐀓 30'54	
minimum elong	-4987 Feb 22 j 19:34	26° 𐀓 28'10	1°24'56	opposition	-4981 Feb 21 j 09:36	24° 𐀓 39'26	2°05'03
max. Earth dist.	-4987 Feb 24 j 16:23	26° 𐀓 54'28	6.05015 AU	min. Earth dist.	-4981 Feb 22 j 14:51	24° 𐀓 30'08	4.35405 AU
morning rise	-4987 Mar 08 j 11:30	29° 𐀓 39'58		direct	-4981 Apr 24 j 23:03	19° 𐀓 39'16	
	-4987 Mar 09 j 22:00	0° 𐀓			-4981 Jul 24 j 10:23	0° 𐀓	
	-4987 May 23 j 03:24	15° 𐀓		evening set	-4981 Aug 29 j 12:07	7° 𐀓 40'36	
retrograde	-4987 Jul 16 j 20:35	19° 𐀓 29'52		max. Earth dist.	-4981 Sep 09 j 07:49	10° 𐀓 06'18	6.31872 AU
	-4987 Sep 10 j 02:33	15° 𐀓					
min. Earth dist.	-4987 Sep 13 j 06:09	14° 𐀓 34'13	4.08857 AU	conjunction	-4981 Sep 11 j 00:42	10° 𐀓 29'19	1°24'54
opposition	-4987 Sep 14 j 09:59	14° 𐀓 24'42	-2°03'06	minimum elong	-4981 Sep 11 j 00:43	10° 𐀓 29'20	1°25'07
direct	-4987 Nov 11 j 19:11	9° 𐀓 25'46		morning rise	-4981 Sep 23 j 11:47	13° 𐀓 17'25	
	-4986 Jan 11 j 13:35	15° 𐀓			-4981 Oct 01 j 04:08	15° 𐀓	
evening set	-4986 Mar 18 j 03:00	28° 𐀓 27'40			-4981 Dec 29 j 18:15	0° 𐀓	
	-4986 Mar 24 j 20:33	0° 𐀓		retrograde	-4980 Jan 24 j 13:35	1° 𐀓 01'15	
					-4980 Feb 19 j 10:26	30° 𐀓	
conjunction	-4986 Mar 31 j 20:47	1° 𐀓 36'26	-1°13'07	opposition	-4980 Mar 25 j 14:02	26° 𐀓 09'07	1°54'18
minimum elong	-4986 Mar 31 j 20:50	1° 𐀓 36'29	1°13'16	min. Earth dist.	-4980 Mar 26 j 17:29	26° 𐀓 00'24	4.27601 AU
max. Earth dist.	-4986 Apr 02 j 12:05	1° 𐀓 58'59	6.13454 AU	direct	-4980 May 26 j 13:32	21° 𐀓 11'47	
morning rise	-4986 Apr 14 j 15:14	4° 𐀓 45'24			-4980 Aug 15 j 16:53	0° 𐀓	
retrograde	-4986 Aug 19 j 19:38	23° 𐀓 42'21		evening set	-4980 Sep 28 j 22:16	9° 𐀓 27'22	
min. Earth dist.	-4986 Oct 17 j 09:17	18° 𐀓 45'35	4.18675 AU	max. Earth dist.	-4980 Oct 10 j 04:38	12° 𐀓 02'27	6.22549 AU
opposition	-4986 Oct 18 j 03:48	18° 𐀓 39'18	-1°24'39				
direct	-4986 Dec 16 j 13:09	13° 𐀓 37'24		conjunction	-4980 Oct 11 j 10:49	12° 𐀓 19'49	1°04'27
	-4985 Apr 12 j 14:29	0° 𐀓		minimum elong	-4980 Oct 11 j 10:52	12° 𐀓 19'51	1°04'33
evening set	-4985 Apr 22 j 21:32	2° 𐀓 16'29		morning rise	-4980 Oct 23 j 23:21	15° 𐀓 12'28	
					-4979 Jan 07 j 10:52	0° 𐀓	
conjunction	-4985 May 06 j 15:05	5° 𐀓 20'47	-0°36'48	retrograde	-4979 Feb 27 j 01:43	3° 𐀓 44'57	
minimum elong	-4985 May 06 j 15:08	5° 𐀓 20'49	0°36'47		-4979 Apr 20 j 02:26	30° 𐀓	
max. Earth dist.	-4985 May 07 j 08:56	5° 𐀓 30'47	6.23922 AU	opposition	-4979 Apr 29 j 05:58	28° 𐀓 50'23	1°07'26
morning rise	-4985 May 20 j 07:30	8° 𐀓 24'18		min. Earth dist.	-4979 Apr 29 j 20:49	28° 𐀓 45'38	4.17321 AU
retrograde	-4985 Sep 21 j 00:56	26° 𐀓 25'05		direct	-4979 Jun 29 j 00:36	23° 𐀓 55'50	
opposition	-4985 Nov 19 j 11:58	21° 𐀓 25'39	-0°20'35		-4979 Sep 01 j 18:26	0° 𐀓	
min. Earth dist.	-4985 Nov 19 j 07:46	21° 𐀓 27'04	4.28774 AU	evening set	-4979 Oct 31 j 10:25	12° 𐀓 31'32	
direct	-4984 Jan 19 j 04:08	16° 𐀓 22'01					
asc. node	-4984 Mar 15 j 17:07	20° 𐀓 54'21		conjunction	-4979 Nov 13 j 03:23	15° 𐀓 30'15	0°22'47
	-4984 May 04 j 11:17	0° 𐀓		minimum elong	-4979 Nov 13 j 03:24	15° 𐀓 30'16	0°22'44
evening set	-4984 May 26 j 02:14	4° 𐀓 38'23		max. Earth dist.	-4979 Nov 12 j 17:19	15° 𐀓 24'21	6.12297 AU
				morning rise	-4979 Nov 25 j 22:11	18° 𐀓 30'08	
conjunction	-4984 Jun 08 j 14:25	7° 𐀓 36'44	0°10'05		-4978 Jan 18 j 07:43	0° 𐀓	
minimum elong	-4984 Jun 08 j 14:24	7° 𐀓 36'43	0°10'13	retrograde	-4978 Apr 04 j 07:30	7° 𐀓 56'18	
behind sun begin	-4984 Jun 08 j 07:55	7° 𐀓 33'10		desc. node	-4978 May 11 j 16:26	5° 𐀓 50'12	
behind sun end	-4984 Jun 08 j 20:52	7° 𐀓 40'17		opposition	-4978 Jun 04 j 05:47	2° 𐀓 57'59	-0°04'34
max. Earth dist.	-4984 Jun 08 j 08:43	7° 𐀓 33'37	6.32957 AU	min. Earth dist.	-4978 Jun 04 j 03:50	2° 𐀓 58'37	4.07849 AU
morning rise	-4984 Jun 21 j 23:35	10° 𐀓 33'32			-4978 Jun 28 j 18:03	30° 𐀓	
	-4984 Jul 12 j 15:39	15° 𐀓		direct	-4978 Aug 02 j 16:54	28° 𐀓 04'58	
retrograde	-4984 Oct 21 j 05:34	27° 𐀓 53'26			-4978 Sep 06 j 04:40	0° 𐀓	
opposition	-4984 Dec 19 j 23:56	22° 𐀓 57'54	0°47'09		-4978 Nov 25 j 23:06	15° 𐀓	
min. Earth dist.	-4984 Dec 20 j 11:07	22° 𐀓 54'13	4.36069 AU	evening set	-4978 Dec 04 j 14:57	17° 𐀓 02'01	
direct	-4983 Feb 19 j 19:48	17° 𐀓 54'09					
	-4983 May 30 j 18:25	0° 𐀓		conjunction	-4978 Dec 17 j 15:02	20° 𐀓 07'15	-0°28'02
evening set	-4983 Jun 27 j 18:52	5° 𐀓 55'08		minimum elong	-4978 Dec 17 j 15:00	20° 𐀓 07'13	0°28'13
				max. Earth dist.	-4978 Dec 18 j 06:42	20° 𐀓 16'34	6.04506 AU
conjunction	-4983 Jul 10 j 21:50	8° 𐀓 47'41	0°52'50	morning rise	-4978 Dec 30 j 18:07	23° 𐀓 14'12	
minimum elong	-4983 Jul 10 j 21:47	8° 𐀓 47'39	0°53'04		-4977 Jan 29 j 07:33	0° 𐀓	

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 38

Attention, astronomical year style is used: The year -4977 in astronomical counting style is the year 4978 BCE in historical counting style.

retrograde	-4977 May 11 j 09:18	13°♌20'18		direct	-4971 Feb 24 j 08:36	22°♏23'42	
opposition	-4977 Jul 10 j 20:52	8°♌18'07	-1°17'23		-4971 May 11 j 17:00	0°♐	
min. Earth dist.	-4977 Jul 10 j 01:58	8°♌24'25	4.02576 AU	evening set	-4971 Jul 02 j 07:14	10°♐24'15	
direct	-4977 Sep 07 j 05:52	3°♌24'41		max. Earth dist.	-4971 Jul 14 j 04:09	13°♐00'22	6.37961 AU
evening set	-4976 Jan 09 j 13:02	22°♌36'47					
conjunction	-4976 Jan 22 j 20:23	25°♌46'11	-1°09'28	conjunction	-4971 Jul 15 j 09:00	13°♐16'15	0°57'51
minimum elong	-4976 Jan 22 j 20:20	25°♌46'09	1°09'44	minimum elong	-4971 Jul 15 j 08:57	13°♐16'13	0°58'05
max. Earth dist.	-4976 Jan 24 j 08:41	26°♌07'44	6.02120 AU	morning rise	-4971 Jul 28 j 07:16	16°♐06'33	
morning rise	-4976 Feb 05 j 07:15	28°♌57'21			-4971 Oct 10 j 16:15	0°♑	
	-4976 Feb 09 j 17:58	0°♑		retrograde	-4971 Nov 25 j 14:23	3°♑10'13	
retrograde	-4976 Jun 16 j 05:03	19°♑11'02			-4970 Jan 11 j 08:40	30°♑	
min. Earth dist.	-4976 Aug 13 j 23:30	14°♑15'48	4.03490 AU	opposition	-4970 Jan 24 j 21:09	28°♑17'53	1°45'34
opposition	-4976 Aug 15 j 03:46	14°♑06'12	-2°01'40	min. Earth dist.	-4970 Jan 25 j 21:54	28°♑09'56	4.38191 AU
direct	-4976 Oct 12 j 04:43	9°♑10'14		direct	-4970 Mar 28 j 10:47	23°♑15'44	
evening set	-4975 Feb 14 j 10:56	28°♑23'22			-4970 Jun 07 j 21:21	0°♑	
	-4975 Feb 21 j 08:39	0°♒		evening set	-4970 Aug 02 j 19:41	11°♑12'35	
				max. Earth dist.	-4970 Aug 13 j 20:05	13°♑38'46	6.36852 AU
conjunction	-4975 Feb 28 j 01:01	1°♒33'46	-1°24'55	conjunction	-4970 Aug 15 j 12:40	14°♑01'18	1°22'21
minimum elong	-4975 Feb 28 j 01:01	1°♒33'47	1°25'09	minimum elong	-4970 Aug 15 j 12:38	14°♑01'16	1°22'38
max. Earth dist.	-4975 Mar 01 j 23:04	2°♒00'42	6.06118 AU	morning rise	-4970 Aug 28 j 03:03	16°♑48'44	
morning rise	-4975 Mar 13 j 17:21	4°♒45'15			-4970 Nov 04 j 13:15	0°♒	
	-4975 Apr 29 j 16:58	15°♒		retrograde	-4970 Dec 27 j 07:36	4°♒04'23	
retrograde	-4975 Jul 21 j 18:01	24°♒28'23			-4969 Feb 19 j 20:42	30°♒	
min. Earth dist.	-4975 Sep 18 j 03:13	19°♒32'27	4.10195 AU	opposition	-4969 Feb 26 j 01:08	29°♒12'58	2°05'47
opposition	-4975 Sep 19 j 05:37	19°♒23'26	-2°00'01	min. Earth dist.	-4969 Feb 27 j 06:46	29°♒03'32	4.34491 AU
	-4975 Oct 28 j 22:46	15°♒		direct	-4969 Apr 29 j 13:55	24°♒13'11	
direct	-4975 Nov 16 j 17:25	14°♒24'06			-4969 Jul 03 j 16:43	0°♒	
	-4975 Dec 05 j 15:24	15°♒		evening set	-4969 Sep 02 j 22:46	12°♒16'12	
	-4974 Mar 08 j 03:37	0°♓		max. Earth dist.	-4969 Sep 13 j 20:36	14°♒43'29	6.30772 AU
evening set	-4974 Mar 23 j 04:52	3°♓22'54					
conjunction	-4974 Apr 05 j 22:47	6°♓31'08	-1°09'14	conjunction	-4969 Sep 15 j 11:11	15°♒05'16	1°23'30
minimum elong	-4974 Apr 05 j 22:51	6°♓31'11	1°09'21	minimum elong	-4969 Sep 15 j 11:13	15°♒05'17	1°23'42
max. Earth dist.	-4974 Apr 07 j 10:32	6°♓51'34	6.14909 AU		-4969 Sep 15 j 01:52	15°♒	
morning rise	-4974 Apr 19 j 17:25	9°♓39'29		morning rise	-4969 Sep 27 j 22:01	17°♒53'44	
retrograde	-4974 Aug 24 j 08:49	28°♓28'21			-4969 Nov 26 j 18:28	0°♓	
opposition	-4974 Oct 22 j 17:54	23°♓25'45	-1°16'42	retrograde	-4968 Jan 29 j 07:55	5°♓43'18	
min. Earth dist.	-4974 Oct 22 j 01:01	23°♓31'29	4.20110 AU	opposition	-4968 Mar 30 j 10:12	0°♓50'56	1°49'41
direct	-4974 Dec 21 j 06:57	18°♓23'31		min. Earth dist.	-4968 Mar 31 j 11:22	0°♓42'57	4.26398 AU
	-4973 Mar 26 j 04:19	0°♓			-4968 Apr 06 j 03:16	30°♓	
evening set	-4973 Apr 27 j 18:33	6°♓59'33		direct	-4968 May 31 j 05:35	25°♓54'05	
					-4968 Jul 23 j 12:46	0°♓	
conjunction	-4973 May 11 j 11:46	10°♓03'10	-0°30'31	evening set	-4968 Oct 03 j 11:10	14°♓11'29	
minimum elong	-4973 May 11 j 11:48	10°♓03'11	0°30'29				
max. Earth dist.	-4973 May 12 j 02:34	10°♓11'26	6.25251 AU	conjunction	-4968 Oct 15 j 23:56	17°♓04'33	0°59'38
morning rise	-4973 May 25 j 03:22	13°♓05'48		minimum elong	-4968 Oct 15 j 23:59	17°♓04'35	0°59'43
	-4973 Aug 31 j 12:55	0°♔		max. Earth dist.	-4968 Oct 14 j 20:05	16°♓48'29	6.21351 AU
retrograde	-4973 Sep 25 j 11:46	1°♔00'09		morning rise	-4968 Oct 28 j 13:08	19°♓58'00	
	-4973 Oct 20 j 06:02	30°♔			-4968 Dec 14 j 07:34	0°♔	
opposition	-4973 Nov 23 j 22:42	26°♔01'21	-0°10'49	retrograde	-4967 Mar 04 j 03:05	8°♔36'59	
min. Earth dist.	-4973 Nov 23 j 21:11	26°♔01'52	4.29878 AU	opposition	-4967 May 04 j 06:18	3°♔41'54	0°58'21
direct	-4972 Jan 23 j 19:29	20°♔57'40		min. Earth dist.	-4967 May 04 j 19:16	3°♔37'45	4.16192 AU
asc. node	-4972 Jan 24 j 09:14	20°♔57'42			-4967 Jun 06 j 00:17	30°♔	
	-4972 Apr 16 j 03:47	0°♕		direct	-4967 Jul 03 j 21:31	28°♔47'37	
evening set	-4972 May 30 j 18:21	9°♕11'58			-4967 Jul 31 j 13:32	0°♕	
				evening set	-4967 Nov 05 j 03:12	17°♕25'03	
conjunction	-4972 Jun 13 j 05:23	12°♕09'34	0°16'38	conjunction	-4967 Nov 17 j 21:04	20°♕24'33	0°15'50
minimum elong	-4972 Jun 13 j 05:22	12°♕09'33	0°16'48	minimum elong	-4967 Nov 17 j 21:06	20°♕24'34	0°15'46
max. Earth dist.	-4972 Jun 12 j 19:21	12°♕04'03	6.33740 AU	behind sun begin	-4967 Nov 17 j 19:04	20°♕23'23	
morning rise	-4972 Jun 26 j 13:28	15°♕05'36		behind sun end	-4967 Nov 17 j 23:08	20°♕25'46	
	-4972 Jun 26 j 03:15	15°♕		max. Earth dist.	-4967 Nov 17 j 15:04	20°♕21'02	6.11353 AU
	-4972 Sep 16 j 10:02	0°♖		morning rise	-4967 Nov 30 j 16:51	23°♕25'17	
retrograde	-4972 Oct 25 j 14:08	2°♖22'26			-4967 Dec 29 j 17:47	0°♖	
	-4972 Dec 03 j 22:55	30°♖		desc. node	-4966 Mar 21 j 21:40	12°♖24'32	
opposition	-4972 Dec 24 j 09:54	27°♖27'22	0°55'52	retrograde	-4966 Apr 09 j 10:00	12°♖56'40	
min. Earth dist.	-4972 Dec 24 j 23:07	27°♖23'02	4.36507 AU	opposition	-4966 Jun 09 j 07:58	7°♖57'47	-0°15'21

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 39

Attention, astronomical year style is used: The year -4966 in astronomical counting style is the year 4967 BCE in historical counting style.

min. Earth dist.	-4966 Jun 09 j 03:19	7° \mathbb{M} 59'18	4.07181 AU	conjunction	-4960 Jun 17 j 20:17	16° \mathbb{B} 42'16	0°23'04
direct	-4966 Aug 07 j 14:36	3° \mathbb{M} 04'50		minimum elong	-4960 Jun 17 j 20:15	16° \mathbb{B} 42'14	0°23'15
	-4966 Nov 08 j 15:35	15° \mathbb{M}		max. Earth dist.	-4960 Jun 17 j 07:46	16° \mathbb{B} 35'22	6.34403 AU
evening set	-4966 Dec 09 j 12:33	22° \mathbb{M} 03'06		morning rise	-4960 Jul 01 j 03:03	19° \mathbb{B} 37'29	
					-4960 Aug 21 j 09:34	0° \mathbb{I}	
conjunction	-4966 Dec 22 j 13:28	25° \mathbb{M} 08'52	-0°34'47	retrograde	-4960 Oct 29 j 23:58	6° \mathbb{I} 51'30	
minimum elong	-4966 Dec 22 j 13:26	25° \mathbb{M} 08'51	0°35'00	opposition	-4960 Dec 28 j 20:19	1° \mathbb{I} 56'55	1°04'15
max. Earth dist.	-4966 Dec 23 j 07:13	25° \mathbb{M} 19'25	6.04148 AU	min. Earth dist.	-4960 Dec 29 j 11:33	1° \mathbb{I} 51'57	4.36920 AU
morning rise	-4965 Jan 04 j 17:42	28° \mathbb{M} 16'26			-4959 Jan 13 j 04:01	30° \mathbb{R} \mathbb{B}	
	-4965 Jan 12 j 02:11	0° \mathbb{A}		direct	-4959 Feb 28 j 22:25	26° \mathbb{B} 53'25	
retrograde	-4965 May 16 j 11:41	18° \mathbb{A} 24'33			-4959 Apr 16 j 18:57	0° \mathbb{I}	
opposition	-4965 Jul 15 j 22:15	13° \mathbb{A} 21'51	-1°25'47	evening set	-4959 Jul 06 j 19:35	14° \mathbb{I} 53'07	
min. Earth dist.	-4965 Jul 15 j 01:38	13° \mathbb{A} 28'44	4.02573 AU				
direct	-4965 Sep 12 j 05:48	8° \mathbb{A} 28'05		conjunction	-4959 Jul 19 j 20:01	17° \mathbb{I} 44'30	1°02'31
evening set	-4964 Jan 14 j 14:05	27° \mathbb{A} 40'22		minimum elong	-4959 Jul 19 j 19:57	17° \mathbb{I} 44'28	1°02'46
	-4964 Jan 24 j 10:09	0° \mathbb{B}		max. Earth dist.	-4959 Jul 18 j 12:33	17° \mathbb{I} 27'12	6.38071 AU
				morning rise	-4959 Aug 01 j 17:05	20° \mathbb{I} 34'15	
conjunction	-4964 Jan 27 j 22:33	0° \mathbb{B} 50'02	-1°13'24		-4959 Sep 16 j 19:17	0° \mathbb{B}	
minimum elong	-4964 Jan 27 j 22:29	0° \mathbb{B} 50'00	1°13'40	retrograde	-4959 Nov 30 j 00:40	7° \mathbb{B} 38'07	
max. Earth dist.	-4964 Jan 29 j 13:47	1° \mathbb{B} 13'18	6.02459 AU	opposition	-4958 Jan 29 j 09:08	2° \mathbb{B} 45'57	1°50'25
morning rise	-4964 Feb 10 j 10:06	4° \mathbb{B} 01'21		min. Earth dist.	-4958 Jan 30 j 10:34	2° \mathbb{B} 37'47	4.38010 AU
retrograde	-4964 Jun 21 j 05:40	24° \mathbb{B} 12'33			-4958 Feb 21 j 05:26	30° \mathbb{R} \mathbb{I}	
min. Earth dist.	-4964 Aug 18 j 22:03	19° \mathbb{B} 16'59	4.04153 AU	direct	-4958 Apr 01 j 23:16	27° \mathbb{I} 44'01	
opposition	-4964 Aug 20 j 01:44	19° \mathbb{B} 07'34	-2°04'16		-4958 May 11 j 18:34	0° \mathbb{B}	
direct	-4964 Oct 17 j 03:11	14° \mathbb{B} 11'10		evening set	-4958 Aug 07 j 05:28	15° \mathbb{B} 40'55	
	-4963 Feb 04 j 19:08	0° \approx		max. Earth dist.	-4958 Aug 18 j 06:07	18° \mathbb{B} 07'26	6.36372 AU
evening set	-4963 Feb 19 j 13:12	3° \approx 23'08					
				conjunction	-4958 Aug 19 j 21:37	18° \mathbb{B} 29'24	1°24'01
conjunction	-4963 Mar 05 j 03:52	6° \approx 33'25	-1°24'32	minimum elong	-4958 Aug 19 j 21:35	18° \mathbb{B} 29'23	1°24'16
minimum elong	-4963 Mar 05 j 03:53	6° \approx 33'26	1°24'45	morning rise	-4958 Sep 01 j 11:01	21° \mathbb{B} 16'40	
max. Earth dist.	-4963 Mar 06 j 23:57	6° \approx 59'08	6.07025 AU		-4958 Oct 13 j 06:08	0° \mathbb{Q}	
morning rise	-4963 Mar 18 j 20:55	9° \approx 44'43		retrograde	-4958 Dec 31 j 20:44	8° \mathbb{Q} 35'22	
	-4963 Apr 11 j 02:20	15° \approx		opposition	-4957 Mar 02 j 16:09	3° \mathbb{Q} 43'56	2°05'45
retrograde	-4963 Jul 26 j 10:53	29° \approx 21'47		min. Earth dist.	-4957 Mar 03 j 21:33	3° \mathbb{Q} 34'35	4.33720 AU
opposition	-4963 Sep 23 j 22:41	24° \approx 17'02	-1°56'11		-4957 Apr 04 j 22:59	30° \mathbb{R} \mathbb{B}	
min. Earth dist.	-4963 Sep 22 j 20:47	24° \approx 25'53	4.11262 AU	direct	-4957 May 04 j 03:30	28° \mathbb{B} 44'34	
direct	-4963 Nov 21 j 12:36	19° \approx 17'13			-4957 Jun 02 j 07:25	0° \mathbb{Q}	
	-4962 Feb 18 j 07:47	0° \mathbb{X}			-4957 Aug 30 j 05:34	15° \mathbb{Q}	
evening set	-4962 Mar 28 j 04:58	8° \mathbb{X} 14'01		evening set	-4957 Sep 07 j 08:26	16° \mathbb{Q} 48'35	
				max. Earth dist.	-4957 Sep 18 j 05:30	19° \mathbb{Q} 15'52	6.29748 AU
conjunction	-4962 Apr 10 j 23:14	11° \mathbb{X} 21'54	-1°04'56				
minimum elong	-4962 Apr 10 j 23:18	11° \mathbb{X} 21'57	1°05'02	conjunction	-4957 Sep 19 j 20:24	19° \mathbb{Q} 37'53	1°21'36
max. Earth dist.	-4962 Apr 12 j 08:28	11° \mathbb{X} 40'50	6.16076 AU	minimum elong	-4957 Sep 19 j 20:26	19° \mathbb{Q} 37'54	1°21'47
morning rise	-4962 Apr 24 j 17:45	14° \mathbb{X} 29'43		morning rise	-4957 Oct 02 j 07:21	22° \mathbb{Q} 26'48	
	-4962 Jul 14 j 11:33	0° \mathbb{Y}			-4957 Nov 06 j 08:00	0° \mathbb{P}	
retrograde	-4962 Aug 28 j 23:36	3° \mathbb{Y} 11'40		retrograde	-4956 Feb 03 j 02:57	10° \mathbb{P} 21'59	
	-4962 Oct 13 j 09:23	30° \mathbb{R} \mathbb{X}		opposition	-4956 Apr 04 j 05:21	5° \mathbb{P} 29'20	1°44'25
opposition	-4962 Oct 27 j 07:13	28° \mathbb{X} 09'34	-1°08'24	min. Earth dist.	-4956 Apr 05 j 05:35	5° \mathbb{P} 21'37	4.25154 AU
min. Earth dist.	-4962 Oct 26 j 17:03	28° \mathbb{X} 14'22	4.21248 AU	direct	-4956 Jun 04 j 21:36	0° \mathbb{P} 32'49	
direct	-4962 Dec 26 j 01:08	23° \mathbb{X} 07'04		evening set	-4956 Oct 07 j 23:03	18° \mathbb{P} 52'25	
	-4961 Mar 06 j 05:00	0° \mathbb{Y}		max. Earth dist.	-4956 Oct 19 j 11:53	21° \mathbb{P} 32'04	6.20008 AU
evening set	-4961 May 02 j 14:42	11° \mathbb{Y} 40'52					
				conjunction	-4956 Oct 20 j 12:26	21° \mathbb{P} 46'16	0°54'28
conjunction	-4961 May 16 j 07:26	14° \mathbb{Y} 43'52	-0°24'06	minimum elong	-4956 Oct 20 j 12:30	21° \mathbb{P} 46'18	0°54'30
minimum elong	-4961 May 16 j 07:28	14° \mathbb{Y} 43'53	0°24'03	morning rise	-4956 Nov 02 j 02:12	24° \mathbb{P} 40'35	
max. Earth dist.	-4961 May 16 j 19:05	14° \mathbb{Y} 50'22	6.26291 AU		-4956 Nov 25 j 19:07	0° \mathbb{A}	
morning rise	-4961 May 29 j 22:21	17° \mathbb{Y} 45'47		retrograde	-4955 Mar 09 j 02:37	13° \mathbb{A} 26'42	
	-4961 Jul 30 j 03:54	0° \mathbb{B}		opposition	-4955 May 09 j 05:48	8° \mathbb{A} 31'12	0°48'52
retrograde	-4961 Sep 29 j 21:04	5° \mathbb{B} 34'44		min. Earth dist.	-4955 May 09 j 16:43	8° \mathbb{A} 27'42	4.14833 AU
opposition	-4961 Nov 28 j 09:31	0° \mathbb{B} 36'27	-0°01'03	direct	-4955 Jul 08 j 16:08	3° \mathbb{A} 37'14	
min. Earth dist.	-4961 Nov 28 j 09:15	0° \mathbb{B} 36'32	4.30753 AU	evening set	-4955 Nov 09 j 20:06	22° \mathbb{A} 17'37	
	-4961 Dec 02 j 23:08	30° \mathbb{R} \mathbb{Y}					
asc. node	-4961 Dec 04 j 09:26	29° \mathbb{Y} 48'41		conjunction	-4955 Nov 22 j 14:44	25° \mathbb{A} 18'02	0°08'46
direct	-4960 Jan 28 j 09:20	25° \mathbb{Y} 32'40		minimum elong	-4955 Nov 22 j 14:45	25° \mathbb{A} 18'03	0°08'41
	-4960 Mar 24 j 14:29	0° \mathbb{B}		behind sun begin	-4955 Nov 22 j 07:44	25° \mathbb{A} 13'56	
evening set	-4960 Jun 04 j 10:24	13° \mathbb{B} 45'25		behind sun end	-4955 Nov 22 j 21:46	25° \mathbb{A} 22'10	
	-4960 Jun 10 j 02:31	15° \mathbb{B}		max. Earth dist.	-4955 Nov 22 j 10:40	25° \mathbb{A} 15'40	6.10095 AU

Attention, astronomical year style is used: The year -4955 in astronomical counting style is the year 4956 BCE in historical counting style.

morning rise	-4955 Dec 05 j 11:46	28°♄19'51	retrograde	-4949 Oct 04 j 08:57	10°♄12'36	
	-4955 Dec 12 j 15:42	0°♄	asc. node	-4949 Oct 14 j 02:08	10°♄03'10	
desc. node	-4954 Jan 29 j 20:56	10°♄14'52	opposition	-4949 Dec 02 j 21:33	5°♄14'51	0°08'44
	-4954 Mar 01 j 00:58	15°♄	min. Earth dist.	-4949 Dec 02 j 23:49	5°♄14'06	4.32257 AU
retrograde	-4954 Apr 14 j 13:27	17°♄57'59	direct	-4948 Feb 02 j 02:53	0°♄11'02	
	-4954 May 29 j 12:30	15°♄		-4948 May 24 j 14:51	15°♄	
opposition	-4954 Jun 14 j 10:35	12°♄58'32 -0°26'07	evening set	-4948 Jun 09 j 02:08	18°♄19'46	
min. Earth dist.	-4954 Jun 14 j 03:23	13°♄00'54 4.06127 AU				
direct	-4954 Aug 12 j 13:30	8°♄05'35	conjunction	-4948 Jun 22 j 10:46	21°♄15'32	0°29'19
	-4954 Oct 19 j 12:55	15°♄	minimum elong	-4948 Jun 22 j 10:44	21°♄15'31	0°29'31
evening set	-4954 Dec 14 j 11:38	27°♄06'53	max. Earth dist.	-4948 Jun 21 j 20:14	21°♄07'33	6.35727 AU
	-4954 Dec 26 j 15:07	0°♄	morning rise	-4948 Jul 05 j 16:03	24°♄09'37	
				-4948 Aug 02 j 04:57	0°♄	
conjunction	-4954 Dec 27 j 13:46	0°♄13'29 -0°41'21	retrograde	-4948 Nov 03 j 06:36	11°♄18'50	
minimum elong	-4954 Dec 27 j 13:43	0°♄13'27 0°41'35	opposition	-4947 Jan 02 j 05:58	6°♄24'37	1°12'04
max. Earth dist.	-4954 Dec 28 j 11:55	0°♄26'39 6.03397 AU	min. Earth dist.	-4947 Jan 02 j 21:57	6°♄19'24	4.37993 AU
morning rise	-4953 Jan 09 j 18:59	3°♄21'49	direct	-4947 Mar 05 j 10:07	1°♄21'14	
retrograde	-4953 May 21 j 18:10	23°♄33'22	evening set	-4947 Jul 11 j 05:30	19°♄17'44	
min. Earth dist.	-4953 Jul 20 j 03:53	18°♄37'29 4.02220 AU	max. Earth dist.	-4947 Jul 22 j 19:33	21°♄50'07	6.38795 AU
opposition	-4953 Jul 21 j 01:18	18°♄30'18 -1°33'40				
direct	-4953 Sep 17 j 06:56	13°♄36'18	conjunction	-4947 Jul 24 j 04:27	22°♄08'13	1°06'40
	-4952 Jan 07 j 14:35	0°♄	minimum elong	-4947 Jul 24 j 04:24	22°♄08'11	1°06'57
evening set	-4952 Jan 19 j 18:32	2°♄50'25	morning rise	-4947 Aug 06 j 00:08	24°♄57'06	
				-4947 Aug 29 j 15:48	0°♄	
conjunction	-4952 Feb 02 j 03:50	6°♄00'28 -1°16'51	retrograde	-4947 Dec 04 j 08:27	11°♄59'27	
minimum elong	-4952 Feb 02 j 03:47	6°♄00'26 1°17'07	opposition	-4946 Feb 02 j 18:26	7°♄07'30	1°54'23
max. Earth dist.	-4952 Feb 03 j 19:29	6°♄23'57 6.02505 AU	min. Earth dist.	-4946 Feb 03 j 21:40	6°♄58'47	4.38336 AU
morning rise	-4952 Feb 15 j 16:31	9°♄12'11	direct	-4946 Apr 06 j 10:35	2°♄05'50	
retrograde	-4952 Jun 26 j 06:45	29°♄21'39	evening set	-4946 Aug 11 j 11:35	20°♄01'05	
min. Earth dist.	-4952 Aug 23 j 21:18	24°♄26'24 4.04617 AU	max. Earth dist.	-4946 Aug 22 j 09:08	22°♄26'03	6.36245 AU
opposition	-4952 Aug 25 j 02:11	24°♄16'34 -2°06'01				
direct	-4952 Oct 22 j 03:01	19°♄19'45	conjunction	-4946 Aug 24 j 02:45	22°♄49'12	1°25'06
	-4951 Jan 17 j 08:55	0°♄	minimum elong	-4946 Aug 24 j 02:44	22°♄49'11	1°25'20
evening set	-4951 Feb 24 j 19:04	8°♄31'28	morning rise	-4946 Sep 05 j 15:30	25°♄36'13	
				-4946 Sep 25 j 21:46	0°♄	
conjunction	-4951 Mar 10 j 10:35	11°♄41'44 -1°23'29	retrograde	-4945 Jan 05 j 06:04	12°♄57'07	
minimum elong	-4951 Mar 10 j 10:37	11°♄41'45 1°23'42	opposition	-4945 Mar 07 j 03:12	8°♄05'33	2°04'55
max. Earth dist.	-4951 Mar 12 j 06:28	12°♄07'16 6.07871 AU	min. Earth dist.	-4945 Mar 08 j 08:47	7°♄56'09	4.33145 AU
morning rise	-4951 Mar 24 j 04:04	14°♄52'51	direct	-4945 May 08 j 12:45	3°♄06'26	
	-4951 Mar 24 j 16:29	15°♄		-4945 Aug 14 j 03:18	15°♄	
	-4951 Jun 07 j 09:04	0°♄	evening set	-4945 Sep 11 j 13:40	21°♄11'02	
retrograde	-4951 Jul 31 j 09:27	4°♄23'53	max. Earth dist.	-4945 Sep 22 j 12:14	23°♄39'28	6.28769 AU
	-4951 Sep 23 j 20:03	30°♄				
opposition	-4951 Sep 28 j 19:11	29°♄19'25 -1°51'24	conjunction	-4945 Sep 24 j 01:37	24°♄00'41	1°19'16
min. Earth dist.	-4951 Sep 27 j 18:59	29°♄27'41 4.12398 AU	minimum elong	-4945 Sep 24 j 01:39	24°♄00'42	1°19'27
direct	-4951 Nov 26 j 13:00	24°♄19'15	morning rise	-4945 Oct 06 j 12:28	26°♄50'00	
	-4950 Jan 27 j 10:01	0°♄		-4945 Oct 20 j 17:26	0°♄	
evening set	-4950 Apr 02 j 08:26	13°♄13'37	retrograde	-4944 Feb 07 j 17:45	14°♄50'55	
			opposition	-4944 Apr 08 j 20:27	9°♄57'59	1°38'42
conjunction	-4950 Apr 16 j 02:53	16°♄21'01 -1°00'04	min. Earth dist.	-4944 Apr 09 j 20:30	9°♄50'19	4.23812 AU
minimum elong	-4950 Apr 16 j 02:58	16°♄21'03 1°00'08	direct	-4944 Jun 09 j 09:37	5°♄01'48	
max. Earth dist.	-4950 Apr 17 j 10:53	16°♄39'11 6.17448 AU	evening set	-4944 Oct 12 j 07:17	23°♄24'12	
morning rise	-4950 Apr 29 j 21:14	19°♄28'09				
	-4950 Jun 19 j 00:31	0°♄	conjunction	-4944 Oct 24 j 21:03	26°♄18'55	0°49'08
retrograde	-4950 Sep 02 j 14:21	8°♄02'10	minimum elong	-4944 Oct 24 j 21:06	26°♄18'57	0°49'10
opposition	-4950 Oct 31 j 22:56	3°♄00'36 -0°59'26	max. Earth dist.	-4944 Oct 23 j 20:30	26°♄04'40	6.18416 AU
min. Earth dist.	-4950 Oct 31 j 09:09	3°♄05'15 4.22756 AU	morning rise	-4944 Nov 06 j 11:48	29°♄14'18	
	-4950 Nov 24 j 21:47	30°♄		-4944 Nov 09 j 19:12	0°♄	
direct	-4950 Dec 30 j 20:13	27°♄57'53	retrograde	-4943 Mar 13 j 23:07	18°♄08'48	
	-4949 Feb 05 j 06:44	0°♄	opposition	-4943 May 14 j 01:58	13°♄12'46	0°39'25
evening set	-4949 May 07 j 13:06	16°♄28'02	min. Earth dist.	-4943 May 14 j 10:52	13°♄09'53	4.13098 AU
			direct	-4943 Jul 13 j 07:23	8°♄18'57	
conjunction	-4949 May 21 j 05:01	19°♄30'03 -0°17'26	evening set	-4943 Nov 14 j 10:42	27°♄04'03	
minimum elong	-4949 May 21 j 05:02	19°♄30'04 0°17'21		-4943 Nov 26 j 20:54	0°♄	
max. Earth dist.	-4949 May 21 j 13:18	19°♄34'40 6.27858 AU				
morning rise	-4949 Jun 03 j 19:00	22°♄30'55	conjunction	-4943 Nov 27 j 06:34	0°♄05'42	0°01'51
	-4949 Jul 09 j 03:12	0°♄	minimum elong	-4943 Nov 27 j 06:33	0°♄05'41	0°01'44

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 41

Attention, astronomical year style is used: The year -4943 in astronomical counting style is the year 4944 BCE in historical counting style.

behind sun begin	-4943 Nov 26 j 22:28	0° \mathbb{M} 00'56		behind sun end	-4937 May 26 j 07:53	24° \mathbb{Y} 16'59	
behind sun end	-4943 Nov 27 j 14:38	0° \mathbb{M} 10'27		max. Earth dist.	-4937 May 26 j 07:49	24° \mathbb{Y} 16'57	6.29357 AU
max. Earth dist.	-4943 Nov 27 j 06:29	0° \mathbb{M} 05'39	6.08394 AU	morning rise	-4937 Jun 08 j 14:18	27° \mathbb{Y} 13'15	
morning rise	-4943 Dec 10 j 04:37	3° \mathbb{M} 08'45			-4937 Jun 21 j 08:23	0° \mathbb{B}	
desc. node	-4943 Dec 11 j 07:39	3° \mathbb{M} 24'36		asc. node	-4937 Aug 23 j 01:51	11° \mathbb{B} 28'52	
	-4942 Feb 02 j 23:57	15° \mathbb{M}		retrograde	-4937 Oct 08 j 18:22	14° \mathbb{B} 48'18	
retrograde	-4942 Apr 19 j 17:54	22° \mathbb{M} 55'16		opposition	-4937 Dec 07 j 09:13	9° \mathbb{B} 51'06	0°18'31
opposition	-4942 Jun 19 j 11:21	17° \mathbb{M} 55'20	-0°36'27	min. Earth dist.	-4937 Dec 07 j 12:43	9° \mathbb{B} 49'57	4.33525 AU
min. Earth dist.	-4942 Jun 19 j 02:56	17° \mathbb{M} 58'07	4.04629 AU	direct	-4936 Feb 06 j 17:14	4° \mathbb{B} 47'17	
	-4942 Jul 13 j 08:07	15° \mathbb{R} \mathbb{M}			-4936 May 06 j 19:24	15° \mathbb{B}	
direct	-4942 Aug 17 j 10:20	13° \mathbb{M} 02'22		evening set	-4936 Jun 13 j 17:34	22° \mathbb{B} 53'02	
	-4942 Sep 21 j 01:49	15° \mathbb{M}		max. Earth dist.	-4936 Jun 26 j 05:59	25° \mathbb{B} 37'33	6.36651 AU
	-4942 Dec 10 j 07:54	0° \mathbb{X}					
evening set	-4942 Dec 19 j 10:28	2° \mathbb{X} 08'38		conjunction	-4936 Jun 27 j 00:43	25° \mathbb{B} 47'50	0°35'29
				minimum elong	-4936 Jun 27 j 00:40	25° \mathbb{B} 47'49	0°35'41
conjunction	-4941 Jan 01 j 13:38	5° \mathbb{X} 16'13	-0°47'29	morning rise	-4936 Jul 10 j 04:42	28° \mathbb{B} 40'59	
minimum elong	-4941 Jan 01 j 13:34	5° \mathbb{X} 16'11	0°47'43		-4936 Jul 16 j 06:11	0° \mathbb{I}	
max. Earth dist.	-4941 Jan 02 j 13:41	5° \mathbb{X} 30'33	6.02228 AU	retrograde	-4936 Nov 07 j 16:57	15° \mathbb{I} 47'12	
morning rise	-4941 Jan 14 j 20:17	8° \mathbb{X} 25'40		opposition	-4935 Jan 06 j 16:36	10° \mathbb{I} 53'26	1°19'39
retrograde	-4941 May 26 j 22:27	28° \mathbb{X} 42'00		min. Earth dist.	-4935 Jan 07 j 11:32	10° \mathbb{I} 47'17	4.38518 AU
min. Earth dist.	-4941 Jul 25 j 03:53	23° \mathbb{X} 46'36	4.01538 AU	direct	-4935 Mar 10 j 00:22	5° \mathbb{I} 50'13	
opposition	-4941 Jul 26 j 03:59	23° \mathbb{X} 38'30	-1°40'44	evening set	-4935 Jul 15 j 16:32	23° \mathbb{I} 45'32	
direct	-4941 Sep 22 j 05:55	18° \mathbb{X} 44'12		max. Earth dist.	-4935 Jul 27 j 03:34	26° \mathbb{I} 16'21	6.38858 AU
	-4941 Dec 20 j 14:01	0° \mathbb{B}					
evening set	-4940 Jan 24 j 23:36	8° \mathbb{B} 01'18		conjunction	-4935 Jul 28 j 14:19	26° \mathbb{I} 35'28	1°10'36
				minimum elong	-4935 Jul 28 j 14:16	26° \mathbb{I} 35'26	1°10'52
conjunction	-4940 Feb 07 j 10:05	11° \mathbb{B} 11'54	-1°19'38	morning rise	-4935 Aug 10 j 08:44	29° \mathbb{I} 23'50	
minimum elong	-4940 Feb 07 j 10:03	11° \mathbb{B} 11'53	1°19'53		-4935 Aug 13 j 02:59	0° \mathbb{C}	
max. Earth dist.	-4940 Feb 09 j 04:35	11° \mathbb{B} 37'04	6.02364 AU	retrograde	-4935 Dec 08 j 18:12	16° \mathbb{C} 27'10	
morning rise	-4940 Feb 20 j 23:38	14° \mathbb{B} 24'02		opposition	-4934 Feb 07 j 06:37	11° \mathbb{C} 35'23	1°57'58
	-4940 May 07 j 09:47	0° \mathbb{A}		min. Earth dist.	-4934 Feb 08 j 10:07	11° \mathbb{C} 26'35	4.37960 AU
retrograde	-4940 Jul 01 j 10:36	4° \mathbb{A} 32'05		direct	-4934 Apr 10 j 21:37	6° \mathbb{C} 34'03	
	-4940 Aug 26 j 02:00	30° \mathbb{R} \mathbb{B}		evening set	-4934 Aug 15 j 20:50	24° \mathbb{C} 30'03	
min. Earth dist.	-4940 Aug 28 j 22:43	29° \mathbb{B} 36'37	4.05026 AU	max. Earth dist.	-4934 Aug 26 j 17:46	26° \mathbb{C} 55'02	6.35448 AU
opposition	-4940 Aug 30 j 03:22	29° \mathbb{B} 26'50	-2°06'41				
direct	-4940 Oct 27 j 05:59	24° \mathbb{B} 29'31		conjunction	-4934 Aug 28 j 11:13	27° \mathbb{C} 18'09	1°25'48
	-4940 Dec 26 j 04:08	0° \mathbb{A}		minimum elong	-4934 Aug 28 j 11:12	27° \mathbb{C} 18'09	1°26'02
evening set	-4939 Mar 02 j 01:53	13° \mathbb{A} 40'43		morning rise	-4934 Sep 09 j 23:21	0° \mathbb{Q} 05'15	
	-4939 Mar 07 j 18:58	15° \mathbb{A}			-4934 Sep 09 j 13:52	0° \mathbb{Q}	
					-4934 Nov 29 j 22:07	15° \mathbb{Q}	
conjunction	-4939 Mar 15 j 18:10	16° \mathbb{A} 50'54	-1°21'45	retrograde	-4933 Jan 09 j 22:09	17° \mathbb{Q} 30'47	
minimum elong	-4939 Mar 15 j 18:12	16° \mathbb{A} 50'56	1°21'57		-4933 Feb 20 j 11:49	15° \mathbb{R} \mathbb{Q}	
max. Earth dist.	-4939 Mar 17 j 14:57	17° \mathbb{A} 16'53	6.08786 AU	opposition	-4933 Mar 11 j 19:33	12° \mathbb{Q} 39'13	2°03'27
morning rise	-4939 Mar 29 j 12:07	20° \mathbb{A} 01'47		min. Earth dist.	-4933 Mar 13 j 01:48	12° \mathbb{Q} 29'36	4.31968 AU
	-4939 May 14 j 12:18	0° \mathbb{H}		direct	-4933 May 13 j 03:50	7° \mathbb{Q} 40'33	
retrograde	-4939 Aug 05 j 06:10	9° \mathbb{H} 25'47			-4933 Jul 25 j 22:50	15° \mathbb{Q}	
opposition	-4939 Oct 03 j 15:34	4° \mathbb{H} 21'33	-1°45'43	evening set	-4933 Sep 16 j 00:11	25° \mathbb{Q} 47'33	
min. Earth dist.	-4939 Oct 02 j 15:11	4° \mathbb{H} 29'52	4.13696 AU	max. Earth dist.	-4933 Sep 26 j 22:31	28° \mathbb{Q} 16'25	6.27309 AU
	-4939 Nov 11 j 19:34	30° \mathbb{R} \mathbb{A}					
direct	-4939 Dec 01 j 11:54	29° \mathbb{A} 20'54		conjunction	-4933 Sep 28 j 12:03	28° \mathbb{Q} 37'47	1°16'23
	-4939 Dec 21 j 09:51	0° \mathbb{H}		minimum elong	-4933 Sep 28 j 12:06	28° \mathbb{Q} 37'49	1°16'32
evening set	-4938 Apr 07 j 11:57	18° \mathbb{H} 11'59		morning rise	-4933 Oct 04 j 12:31	0° \mathbb{P}	
					-4933 Oct 10 j 23:16	1° \mathbb{P} 27'50	
conjunction	-4938 Apr 21 j 06:16	21° \mathbb{H} 18'41	-0°54'44	retrograde	-4932 Feb 12 j 14:20	19° \mathbb{P} 36'15	
minimum elong	-4938 Apr 21 j 06:20	21° \mathbb{H} 18'43	0°54'48	opposition	-4932 Apr 13 j 18:06	14° \mathbb{P} 42'58	1°32'03
max. Earth dist.	-4938 Apr 22 j 10:46	21° \mathbb{H} 34'49	6.18997 AU	min. Earth dist.	-4932 Apr 14 j 15:54	14° \mathbb{P} 36'01	4.22164 AU
morning rise	-4938 May 05 j 00:25	24° \mathbb{H} 25'02		direct	-4932 Jun 14 j 02:27	9° \mathbb{P} 47'12	
	-4938 May 30 j 12:23	0° \mathbb{Y}		evening set	-4932 Oct 16 j 22:03	28° \mathbb{P} 13'18	
retrograde	-4938 Sep 07 j 05:59	12° \mathbb{Y} 50'28			-4932 Oct 24 j 14:04	0° \mathbb{U}	
opposition	-4938 Nov 05 j 14:24	7° \mathbb{Y} 49'19	-0°50'05				
min. Earth dist.	-4938 Nov 05 j 03:13	7° \mathbb{Y} 53'06	4.24350 AU	conjunction	-4932 Oct 29 j 12:38	1° \mathbb{U} 09'03	0°43'10
direct	-4937 Jan 04 j 17:16	2° \mathbb{Y} 46'18		minimum elong	-4932 Oct 29 j 12:41	1° \mathbb{U} 09'05	0°43'11
evening set	-4937 May 12 j 10:15	21° \mathbb{Y} 12'22		max. Earth dist.	-4932 Oct 28 j 16:10	0° \mathbb{U} 57'08	6.16755 AU
				morning rise	-4932 Nov 11 j 04:08	4° \mathbb{U} 05'32	
conjunction	-4937 May 26 j 01:30	24° \mathbb{Y} 13'28	-0°10'39	retrograde	-4931 Mar 19 j 04:05	23° \mathbb{U} 08'29	
minimum elong	-4937 May 26 j 01:31	24° \mathbb{Y} 13'28	0°10'33	opposition	-4931 May 19 j 05:08	18° \mathbb{U} 12'02	0°29'02
behind sun begin	-4937 May 25 j 19:09	24° \mathbb{Y} 09'58		min. Earth dist.	-4931 May 19 j 12:18	18° \mathbb{U} 09'43	4.11559 AU

Attention, astronomical year style is used: The year -4931 in astronomical counting style is the year 4932 BCE in historical counting style.

direct	-4931 Jul 18 j 06:45	13°♏18'31		conjunction	-4925 May 30 j 17:47	28°♑47'31	-0°04'03
desc. node	-4931 Oct 19 j 21:37	25°♏12'11		minimum elong	-4925 May 30 j 17:47	28°♑47'31	0°03'56
	-4931 Nov 10 j 06:00	0°♎		behind sun begin	-4925 May 30 j 09:38	28°♑43'01	
evening set	-4931 Nov 19 j 07:56	2°♎07'22		behind sun end	-4925 May 31 j 01:57	28°♑52'01	
				max. Earth dist.	-4925 May 30 j 18:27	28°♑47'52	6.30630 AU
conjunction	-4931 Dec 02 j 04:41	5°♎10'00	-0°05'37		-4925 Jun 05 j 04:47	0°♎	
minimum elong	-4931 Dec 02 j 04:40	5°♎10'00	0°05'46	morning rise	-4925 Jun 13 j 05:42	1°♎46'22	
behind sun begin	-4931 Dec 01 j 20:54	5°♎05'25		asc. node	-4925 Jul 03 j 05:57	6°♎05'24	
behind sun end	-4931 Dec 02 j 12:26	5°♎14'34			-4925 Aug 20 j 15:22	15°♎	
max. Earth dist.	-4931 Dec 02 j 07:19	5°♎11'32	6.07137 AU	retrograde	-4925 Oct 13 j 02:42	19°♎16'03	
morning rise	-4931 Dec 15 j 04:08	8°♎14'11			-4925 Dec 06 j 14:32	15°♎♎	
	-4930 Jan 13 j 19:56	15°♎		opposition	-4925 Dec 11 j 17:55	14°♎19'21	0°27'52
retrograde	-4930 Apr 25 j 00:30	28°♎07'00		min. Earth dist.	-4925 Dec 12 j 00:48	14°♎17'05	4.34422 AU
opposition	-4930 Jun 24 j 17:21	23°♎06'31	-0°47'04	direct	-4924 Feb 11 j 06:32	9°♎15'28	
min. Earth dist.	-4930 Jun 24 j 05:06	23°♎10'33	4.03818 AU		-4924 Apr 16 j 06:32	15°♎	
direct	-4930 Aug 22 j 11:28	18°♎13'32		evening set	-4924 Jun 18 j 05:53	27°♎19'35	
	-4930 Nov 22 j 09:06	0°♎♎			-4924 Jun 30 j 10:57	0°♎	
evening set	-4930 Dec 24 j 13:57	7°♎♎22'00					
				conjunction	-4924 Jul 01 j 11:57	0°♎♎13'44	0°41'15
conjunction	-4929 Jan 06 j 18:14	10°♎♎30'11	-0°53'31	minimum elong	-4924 Jul 01 j 11:54	0°♎♎13'42	0°41'29
minimum elong	-4929 Jan 06 j 18:10	10°♎♎30'09	0°53'46	max. Earth dist.	-4924 Jun 30 j 15:14	0°♎♎02'21	6.37095 AU
max. Earth dist.	-4929 Jan 07 j 22:46	10°♎♎47'11	6.01941 AU	morning rise	-4924 Jul 14 j 14:28	3°♎♎06'08	
morning rise	-4929 Jan 20 j 01:48	13°♎♎40'09		retrograde	-4924 Nov 11 j 23:35	20°♎♎11'09	
	-4929 Apr 10 j 19:53	0°♎♎		opposition	-4923 Jan 11 j 01:41	15°♎♎17'45	1°26'37
retrograde	-4929 Jun 01 j 05:15	3°♎♎57'13		min. Earth dist.	-4923 Jan 11 j 21:40	15°♎♎11'17	4.38513 AU
	-4929 Jul 23 j 01:08	30°♎♎♎		direct	-4923 Mar 14 j 10:08	10°♎♎14'45	
min. Earth dist.	-4929 Jul 30 j 07:46	29°♎♎01'41	4.01833 AU	evening set	-4923 Jul 20 j 02:22	28°♎♎10'33	
opposition	-4929 Jul 31 j 08:42	28°♎♎53'17	-1°47'10		-4923 Jul 28 j 09:45	0°♎♎	
direct	-4929 Sep 27 j 10:44	23°♎♎58'37		max. Earth dist.	-4923 Jul 31 j 09:32	0°♎♎39'35	6.38385 AU
	-4929 Nov 28 j 23:12	0°♎♎					
evening set	-4928 Jan 30 j 06:05	13°♎♎14'58		conjunction	-4923 Aug 01 j 22:50	1°♎♎00'09	1°14'03
				minimum elong	-4923 Aug 01 j 22:47	1°♎♎00'07	1°14'18
conjunction	-4928 Feb 12 j 17:27	16°♎♎25'33	-1°21'51	morning rise	-4923 Aug 14 j 16:18	3°♎♎48'16	
minimum elong	-4928 Feb 12 j 17:25	16°♎♎25'32	1°22'06	retrograde	-4923 Dec 13 j 06:41	20°♎♎54'25	
max. Earth dist.	-4928 Feb 14 j 14:09	16°♎♎51'56	6.03192 AU	opposition	-4922 Feb 11 j 19:11	16°♎♎02'48	2°00'51
morning rise	-4928 Feb 26 j 07:46	19°♎♎37'35		min. Earth dist.	-4922 Feb 13 j 00:30	15°♎♎53'26	4.37074 AU
	-4928 Apr 13 j 11:09	0°♎♎♎		direct	-4922 Apr 15 j 10:55	11°♎♎01'48	
retrograde	-4928 Jul 06 j 11:01	9°♎♎39'50		evening set	-4922 Aug 20 j 06:31	29°♎♎00'01	
min. Earth dist.	-4928 Sep 02 j 21:31	4°♎♎44'33	4.06314 AU		-4922 Aug 24 j 18:25	0°♎♎	
opposition	-4928 Sep 04 j 02:46	4°♎♎34'34	-2°06'22	max. Earth dist.	-4922 Aug 31 j 02:56	1°♎♎25'10	6.34210 AU
	-4928 Oct 17 j 06:42	30°♎♎♎					
direct	-4928 Nov 01 j 06:35	29°♎♎36'45		conjunction	-4922 Sep 01 j 20:23	1°♎♎48'22	1°25'57
	-4928 Nov 16 j 09:19	0°♎♎♎		minimum elong	-4922 Sep 01 j 20:23	1°♎♎48'22	1°26'11
	-4927 Feb 18 j 18:58	15°♎♎♎		morning rise	-4922 Sep 14 j 08:05	4°♎♎35'47	
evening set	-4927 Mar 07 j 06:28	18°♎♎44'26			-4922 Nov 03 j 22:00	15°♎♎	
				retrograde	-4921 Jan 14 j 14:01	22°♎♎07'19	
conjunction	-4927 Mar 20 j 23:07	21°♎♎54'04	-1°19'28	opposition	-4921 Mar 16 j 13:15	17°♎♎15'35	2°01'10
minimum elong	-4927 Mar 20 j 23:10	21°♎♎54'06	1°19'39	min. Earth dist.	-4921 Mar 17 j 17:44	17°♎♎06'32	4.30482 AU
max. Earth dist.	-4927 Mar 22 j 17:12	22°♎♎18'24	6.10392 AU		-4921 Apr 04 j 00:40	15°♎♎♎	
morning rise	-4927 Apr 03 j 17:25	25°♎♎04'19		direct	-4921 May 17 j 17:42	12°♎♎17'22	
	-4927 Apr 25 j 16:15	0°♎♎♎			-4921 Jun 29 j 22:12	15°♎♎	
retrograde	-4927 Aug 09 j 23:18	14°♎♎♎19'12			-4921 Sep 18 j 11:26	0°♎♎♎	
min. Earth dist.	-4927 Oct 07 j 10:15	9°♎♎♎22'49	4.15430 AU	evening set	-4921 Sep 20 j 12:16	0°♎♎♎27'36	
opposition	-4927 Oct 08 j 08:32	9°♎♎♎15'13	-1°39'29	max. Earth dist.	-4921 Oct 01 j 13:36	2°♎♎58'43	6.25710 AU
direct	-4927 Dec 06 j 09:40	4°♎♎♎14'05					
evening set	-4926 Apr 12 j 11:01	23°♎♎♎00'37		conjunction	-4921 Oct 03 j 00:17	3°♎♎18'32	1°12'56
				minimum elong	-4921 Oct 03 j 00:20	3°♎♎18'34	1°13'04
conjunction	-4926 Apr 26 j 05:21	26°♎♎♎06'33	-0°49'14	morning rise	-4921 Oct 15 j 11:48	6°♎♎09'25	
minimum elong	-4926 Apr 26 j 05:25	26°♎♎♎06'35	0°49'16	retrograde	-4920 Feb 17 j 15:05	24°♎♎25'39	
max. Earth dist.	-4926 Apr 27 j 07:53	26°♎♎♎21'31	6.20732 AU	opposition	-4920 Apr 18 j 18:01	19°♎♎32'02	1°24'37
morning rise	-4926 May 09 j 22:52	29°♎♎♎11'54		min. Earth dist.	-4920 Apr 19 j 14:33	19°♎♎25'28	4.20551 AU
	-4926 May 13 j 13:04	0°♎♎♎		direct	-4920 Jun 18 j 23:17	14°♎♎36'41	
retrograde	-4926 Sep 11 j 16:26	17°♎♎♎28'44			-4920 Oct 08 j 01:41	0°♎♎♎	
opposition	-4926 Nov 10 j 01:47	12°♎♎♎28'07	-0°40'47	evening set	-4920 Oct 21 j 14:32	3°♎♎06'00	
min. Earth dist.	-4926 Nov 09 j 16:30	12°♎♎♎31'15	4.25918 AU				
direct	-4925 Jan 09 j 08:16	7°♎♎♎24'54		conjunction	-4920 Nov 03 j 05:47	6°♎♎02'41	0°36'48
evening set	-4925 May 17 j 03:35	25°♎♎♎47'21		minimum elong	-4920 Nov 03 j 05:50	6°♎♎02'43	0°36'48

Planetary Phenomena of Jupiter from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 43

Attention, astronomical year style is used: The year -4920 in astronomical counting style is the year 4921 BCE in historical counting style.

max. Earth dist.	-4920 Nov 02 j 12:01	5° Ω 52'19	6.15282 AU	retrograde	-4914 Sep 16 j 02:59	22° Υ 06'51	
morning rise	-4920 Nov 15 j 22:23	9° Ω 00'16		opposition	-4914 Nov 14 j 13:12	17° Υ 06'47	-0°31'16
retrograde	-4919 Mar 24 j 07:58	28° Ω 10'40		min. Earth dist.	-4914 Nov 14 j 06:25	17° Υ 09'04	4.27201 AU
opposition	-4919 May 24 j 09:17	23° Ω 13'38	0°18'18	direct	-4913 Jan 14 j 00:02	12° Υ 03'22	
min. Earth dist.	-4919 May 24 j 12:27	23° Ω 12'37	4.10352 AU	asc. node	-4913 May 12 j 20:40	28° Υ 25'29	
direct	-4919 Jul 23 j 05:16	18° Ω 20'21			-4913 May 20 j 02:21	0° \mathcal{B}	
desc. node	-4919 Aug 28 j 08:04	20° Ω 24'32		evening set	-4913 May 21 j 20:43	0° \mathcal{B} 23'12	
	-4919 Oct 23 j 14:24	0° \mathcal{M}					
evening set	-4919 Nov 24 j 06:08	7° \mathcal{M} 11'41		conjunction	-4913 Jun 04 j 10:10	3° \mathcal{B} 22'37	0°02'44
				minimum elong	-4913 Jun 04 j 10:09	3° \mathcal{B} 22'37	0°02'51
conjunction	-4919 Dec 07 j 03:55	10° \mathcal{M} 15'08	-0°12'57	behind sun begin	-4913 Jun 04 j 01:56	3° \mathcal{B} 18'05	
minimum elong	-4919 Dec 07 j 03:54	10° \mathcal{M} 15'07	0°13'06	behind sun end	-4913 Jun 04 j 18:22	3° \mathcal{B} 27'08	
behind sun begin	-4919 Dec 06 j 22:58	10° \mathcal{M} 12'12		max. Earth dist.	-4913 Jun 04 j 08:29	3° \mathcal{B} 21'44	6.31656 AU
behind sun end	-4919 Dec 07 j 08:49	10° \mathcal{M} 18'01		morning rise	-4913 Jun 17 j 20:48	6° \mathcal{B} 20'34	
max. Earth dist.	-4919 Dec 07 j 11:20	10° \mathcal{M} 19'31	6.06297 AU		-4913 Jul 29 j 12:45	15° \mathcal{B}	
morning rise	-4919 Dec 20 j 04:24	13° \mathcal{M} 20'09		retrograde	-4913 Oct 17 j 10:49	23° \mathcal{B} 45'56	
	-4919 Dec 27 j 06:48	15° \mathcal{M}		opposition	-4913 Dec 16 j 03:33	18° \mathcal{B} 49'48	0°37'06
	-4918 Mar 14 j 10:04	0° \mathcal{A}		min. Earth dist.	-4913 Dec 16 j 12:15	18° \mathcal{B} 46'56	4.35119 AU
retrograde	-4918 Apr 30 j 07:58	3° \mathcal{A} 17'22			-4912 Jan 18 j 08:36	15° $\mathcal{R}\mathcal{B}$	
	-4918 Jun 16 j 14:25	30° $\mathcal{R}\mathcal{M}$		direct	-4912 Feb 15 j 19:14	13° \mathcal{B} 46'01	
opposition	-4918 Jun 29 j 22:40	28° \mathcal{M} 16'18	-0°57'17		-4912 Mar 15 j 14:22	15° \mathcal{B}	
min. Earth dist.	-4918 Jun 29 j 08:51	28° \mathcal{M} 20'53	4.03421 AU		-4912 Jun 14 j 09:32	0° Π	
direct	-4918 Aug 27 j 14:31	23° \mathcal{M} 23'13		evening set	-4912 Jun 22 j 19:01	1° Π 49'00	
	-4918 Nov 01 j 15:03	0° \mathcal{A}					
evening set	-4918 Dec 29 j 16:58	12° \mathcal{A} 32'38		conjunction	-4912 Jul 05 j 23:38	4° Π 42'27	0°46'51
				minimum elong	-4912 Jul 05 j 23:34	4° Π 42'25	0°47'05
conjunction	-4917 Jan 11 j 22:15	15° \mathcal{A} 41'12	-0°59'07	max. Earth dist.	-4912 Jul 04 j 22:41	4° Π 28'45	6.37396 AU
minimum elong	-4917 Jan 11 j 22:11	15° \mathcal{A} 41'10	0°59'22	morning rise	-4912 Jul 19 j 00:59	7° Π 34'14	
max. Earth dist.	-4917 Jan 13 j 06:01	16° \mathcal{A} 00'06	6.01996 AU	retrograde	-4912 Nov 16 j 09:22	24° Π 38'36	
morning rise	-4917 Jan 25 j 06:53	18° \mathcal{A} 51'34		opposition	-4911 Jan 15 j 12:16	19° Π 45'33	1°33'13
	-4917 Mar 16 j 20:33	0° \mathcal{B}		min. Earth dist.	-4911 Jan 16 j 10:30	19° Π 38'22	4.38431 AU
retrograde	-4917 Jun 06 j 09:20	9° \mathcal{B} 07'47		direct	-4911 Mar 18 j 23:13	14° Π 42'45	
min. Earth dist.	-4917 Aug 04 j 08:51	4° \mathcal{B} 12'32	4.02369 AU		-4911 Jul 12 j 07:20	0° \mathcal{E}	
opposition	-4917 Aug 05 j 11:22	4° \mathcal{B} 03'35	-1°52'41	evening set	-4911 Jul 24 j 12:56	2° \mathcal{E} 39'03	
	-4917 Sep 10 j 02:25	30° $\mathcal{R}\mathcal{A}$		max. Earth dist.	-4911 Aug 04 j 19:10	5° \mathcal{E} 07'47	6.37922 AU
direct	-4917 Oct 02 j 12:02	29° \mathcal{A} 08'36					
	-4917 Oct 24 j 23:26	0° \mathcal{B}		conjunction	-4911 Aug 06 j 08:27	5° \mathcal{E} 28'23	1°17'08
evening set	-4916 Feb 04 j 11:00	18° \mathcal{B} 23'46		minimum elong	-4911 Aug 06 j 08:24	5° \mathcal{E} 28'21	1°17'23
				morning rise	-4911 Aug 19 j 00:43	8° \mathcal{E} 16'14	
conjunction	-4916 Feb 17 j 23:05	21° \mathcal{B} 34'15	-1°23'27	retrograde	-4911 Dec 17 j 17:52	25° \mathcal{E} 25'09	
minimum elong	-4916 Feb 17 j 23:03	21° \mathcal{B} 34'14	1°23'42	opposition	-4910 Feb 16 j 08:56	20° \mathcal{E} 33'39	2°03'06
max. Earth dist.	-4916 Feb 19 j 19:12	22° \mathcal{B} 00'13	6.04126 AU	min. Earth dist.	-4910 Feb 17 j 13:36	20° \mathcal{E} 24'30	4.36293 AU
morning rise	-4916 Mar 02 j 14:09	24° \mathcal{B} 46'08		direct	-4910 Apr 19 j 23:16	15° \mathcal{E} 33'05	
	-4916 Mar 25 j 11:51	0° \approx			-4910 Aug 08 j 11:52	0° \mathcal{Q}	
retrograde	-4916 Jul 11 j 09:18	14° \approx 42'38		evening set	-4910 Aug 24 j 16:45	3° \mathcal{Q} 32'50	
min. Earth dist.	-4916 Sep 07 j 19:43	9° \approx 47'08	4.07550 AU	max. Earth dist.	-4910 Sep 04 j 12:39	5° \mathcal{Q} 58'10	6.33177 AU
opposition	-4916 Sep 09 j 00:11	9° \approx 37'24	-2°05'11				
direct	-4916 Nov 06 j 06:49	4° \approx 39'06		conjunction	-4910 Sep 06 j 05:55	6° \mathcal{Q} 21'19	1°25'38
	-4915 Jan 31 j 12:27	15° \approx		minimum elong	-4910 Sep 06 j 05:55	6° \mathcal{Q} 21'19	1°25'51
evening set	-4915 Mar 12 j 09:23	23° \approx 43'53		morning rise	-4910 Sep 18 j 17:21	9° \mathcal{Q} 09'01	
					-4910 Oct 15 j 17:05	15° \mathcal{Q}	
conjunction	-4915 Mar 26 j 02:41	26° \approx 53'08	-1°16'41	retrograde	-4909 Jan 19 j 08:30	26° \mathcal{Q} 45'55	
minimum elong	-4915 Mar 26 j 02:44	26° \approx 53'10	1°16'50	opposition	-4909 Mar 21 j 07:56	21° \mathcal{Q} 54'03	1°58'09
max. Earth dist.	-4915 Mar 27 j 20:19	27° \approx 17'07	6.11844 AU	min. Earth dist.	-4909 Mar 22 j 12:13	21° \mathcal{Q} 45'03	4.29265 AU
morning rise	-4915 Apr 08 j 21:00	0° \mathcal{H} 02'46		direct	-4909 May 22 j 11:01	16° \mathcal{Q} 56'14	
	-4915 Apr 08 j 16:09	0° \mathcal{H}			-4909 Sep 01 j 19:22	0° \mathcal{P}	
retrograde	-4915 Aug 14 j 15:43	19° \mathcal{H} 09'24		evening set	-4909 Sep 25 j 00:07	5° \mathcal{P} 08'27	
min. Earth dist.	-4915 Oct 12 j 03:39	14° \mathcal{H} 12'52	4.16945 AU	max. Earth dist.	-4909 Oct 06 j 03:58	7° \mathcal{P} 41'26	6.24431 AU
opposition	-4915 Oct 13 j 00:09	14° \mathcal{H} 05'53	-1°32'41				
direct	-4915 Dec 11 j 04:38	9° \mathcal{H} 04'27		conjunction	-4909 Oct 07 j 12:21	7° \mathcal{P} 59'59	1°09'04
evening set	-4914 Apr 17 j 09:35	27° \mathcal{H} 47'33		minimum elong	-4909 Oct 07 j 12:24	8° \mathcal{P} 00'01	1°09'11
	-4914 Apr 27 j 05:44	0° \mathcal{Y}		morning rise	-4909 Oct 20 j 00:16	10° \mathcal{P} 51'34	
				retrograde	-4908 Feb 22 j 12:32	29° \mathcal{P} 14'21	
conjunction	-4914 May 01 j 03:33	0° \mathcal{Y} 52'45	-0°43'27	opposition	-4908 Apr 23 j 17:04	24° \mathcal{P} 20'17	1°16'41
minimum elong	-4914 May 01 j 03:36	0° \mathcal{Y} 52'48	0°43'28	min. Earth dist.	-4908 Apr 24 j 10:18	24° \mathcal{P} 14'47	4.19303 AU
max. Earth dist.	-4914 May 02 j 01:15	1° \mathcal{Y} 04'57	6.22194 AU	direct	-4908 Jun 23 j 17:18	19° \mathcal{P} 25'18	
morning rise	-4914 May 14 j 20:45	3° \mathcal{Y} 57'20			-4908 Sep 20 j 10:51	0° \mathcal{U}	

Attention, astronomical year style is used: The year -4908 in astronomical counting style is the year 4909 BCE in historical counting style.

evening set	-4908 Oct 26 j 06:11	7°♌56'34		conjunction	-4902 May 06 j 00:25	5°♊35'19	-0°37'28
				minimum elong	-4902 May 06 j 00:28	5°♊35'21	0°37'27
conjunction	-4908 Nov 07 j 22:06	10°♌54'02	0°30'18	max. Earth dist.	-4902 May 06 j 19:33	5°♊46'04	6.23336 AU
minimum elong	-4908 Nov 07 j 22:08	10°♌54'03	0°30'15	morning rise	-4902 May 19 j 16:56	8°♊39'10	
max. Earth dist.	-4908 Nov 07 j 08:07	10°♌45'51	6.14184 AU	retrograde	-4902 Sep 20 j 14:20	26°♊42'39	
morning rise	-4908 Nov 20 j 15:34	13°♌52'29		opposition	-4902 Nov 19 j 00:10	21°♊43'11	-0°21'40
	-4907 Feb 11 j 09:14	0°♌		min. Earth dist.	-4902 Nov 18 j 19:48	21°♊44'38	4.28200 AU
retrograde	-4907 Mar 29 j 11:38	3°♌08'54		direct	-4901 Jan 18 j 15:30	16°♊39'40	
	-4907 May 15 j 04:06	30°♌		asc. node	-4901 Mar 22 j 14:19	22°♊11'32	
opposition	-4907 May 29 j 11:29	28°♌11'15	0°07'38		-4901 May 03 j 10:03	0°♌	
min. Earth dist.	-4907 May 29 j 12:45	28°♌10'50	4.09475 AU	evening set	-4901 May 26 j 13:39	4°♌57'44	
desc. node	-4907 Jul 08 j 06:06	23°♌56'40					
direct	-4907 Jul 28 j 04:25	23°♌18'03		conjunction	-4901 Jun 09 j 02:03	7°♌56'26	0°09'20
	-4907 Oct 03 j 10:39	0°♌		minimum elong	-4901 Jun 09 j 02:01	7°♌56'25	0°09'28
evening set	-4907 Nov 29 j 02:22	12°♌10'49		behind sun begin	-4901 Jun 08 j 19:13	7°♌52'41	
	-4907 Dec 10 j 23:57	15°♌		behind sun end	-4901 Jun 09 j 08:50	8°♌00'10	
conjunction	-4907 Dec 12 j 01:07	15°♌14'56	-0°20'02	max. Earth dist.	-4901 Jun 08 j 20:28	7°♌53'22	6.32440 AU
minimum elong	-4907 Dec 12 j 01:05	15°♌14'55	0°20'12	morning rise	-4901 Jun 22 j 11:39	10°♌53'37	
max. Earth dist.	-4907 Dec 12 j 12:08	15°♌21'28	6.05719 AU		-4901 Jul 11 j 12:57	15°♌	
morning rise	-4907 Dec 25 j 02:43	18°♌20'41		retrograde	-4901 Oct 21 j 19:19	28°♌15'28	
	-4906 Feb 16 j 14:03	0°♌		opposition	-4901 Dec 20 j 13:28	23°♌19'49	0°46'06
retrograde	-4906 May 05 j 10:52	8°♌21'02		min. Earth dist.	-4901 Dec 20 j 23:55	23°♌16'22	4.35665 AU
min. Earth dist.	-4906 Jul 04 j 08:37	3°♌24'51	4.03220 AU	direct	-4900 Feb 20 j 08:14	18°♌16'04	
opposition	-4906 Jul 05 j 00:54	3°♌19'27	-1°06'49		-4900 May 28 j 10:01	0°♌	
	-4906 Aug 01 j 16:20	30°♌		evening set	-4900 Jun 27 j 08:00	6°♌18'13	
direct	-4906 Sep 01 j 13:23	28°♌26'13		max. Earth dist.	-4900 Jul 09 j 09:46	8°♌56'56	6.37661 AU
	-4906 Oct 02 j 06:41	0°♌					
evening set	-4905 Jan 03 j 17:32	17°♌36'04		conjunction	-4900 Jul 10 j 11:24	9°♌11'01	0°52'11
				minimum elong	-4900 Jul 10 j 11:21	9°♌11'00	0°52'25
conjunction	-4905 Jan 16 j 23:37	20°♌44'54	-1°04'07	morning rise	-4900 Jul 23 j 11:17	12°♌02'07	
minimum elong	-4905 Jan 16 j 23:33	20°♌44'52	1°04'22	retrograde	-4900 Nov 20 j 18:24	29°♌05'56	
max. Earth dist.	-4905 Jan 18 j 08:27	21°♌04'26	6.02154 AU	opposition	-4899 Jan 19 j 23:18	24°♌13'13	1°39'16
morning rise	-4905 Jan 30 j 09:12	23°♌55'33		min. Earth dist.	-4899 Jan 20 j 22:16	24°♌05'49	4.38415 AU
	-4905 Feb 25 j 19:46	0°♌		direct	-4899 Mar 23 j 11:39	19°♌10'44	
retrograde	-4905 Jun 11 j 09:37	14°♌10'32			-4899 Jun 25 j 03:12	0°♌	
min. Earth dist.	-4905 Aug 09 j 07:32	9°♌15'09	4.02880 AU	evening set	-4899 Jul 28 j 23:12	7°♌06'54	
opposition	-4905 Aug 10 j 10:34	9°♌06'00	-1°57'12	max. Earth dist.	-4899 Aug 09 j 02:04	9°♌34'05	6.37592 AU
direct	-4905 Oct 07 j 11:43	4°♌10'33					
evening set	-4904 Feb 09 j 13:12	23°♌24'50		conjunction	-4899 Aug 10 j 17:26	9°♌55'51	1°19'46
				minimum elong	-4899 Aug 10 j 17:23	9°♌55'50	1°20'02
conjunction	-4904 Feb 23 j 02:15	26°♌35'19	-1°24'23	morning rise	-4899 Aug 23 j 08:53	12°♌43'27	
minimum elong	-4904 Feb 23 j 02:15	26°♌35'19	1°24'38	retrograde	-4899 Dec 22 j 06:46	29°♌54'44	
max. Earth dist.	-4904 Feb 24 j 23:44	27°♌02'01	6.04942 AU				
morning rise	-4904 Mar 07 j 17:49	29°♌47'02					
	-4904 Mar 08 j 16:06	0°♌					
	-4904 May 21 j 13:54	15°♌					
retrograde	-4904 Jul 16 j 06:03	19°♌38'08					
	-4904 Sep 10 j 11:40	15°♌					
opposition	-4904 Sep 13 j 18:43	14°♌33'02	-2°03'09				
min. Earth dist.	-4904 Sep 12 j 15:32	14°♌42'19	4.08589 AU				
direct	-4904 Nov 11 j 03:13	9°♌34'17					
	-4903 Jan 10 j 00:09	15°♌					
evening set	-4903 Mar 17 j 10:13	28°♌37'01					
	-4903 Mar 23 j 11:14	0°♌					
conjunction	-4903 Mar 31 j 03:48	1°♌45'56	-1°13'25				
minimum elong	-4903 Mar 31 j 03:51	1°♌45'59	1°13'33				
max. Earth dist.	-4903 Apr 01 j 18:02	2°♌07'53	6.13012 AU				
morning rise	-4903 Apr 13 j 22:28	4°♌55'10					
retrograde	-4903 Aug 19 j 05:09	23°♌54'45					
opposition	-4903 Oct 17 j 14:08	18°♌51'37	-1°25'26				
min. Earth dist.	-4903 Oct 16 j 19:03	18°♌58'07	4.18129 AU				
direct	-4903 Dec 15 j 21:52	13°♌49'49					
	-4902 Apr 10 j 22:01	0°♌					
evening set	-4902 Apr 22 j 06:36	2°♌30'40					