

Attention, astronomical year style is used: The year -11400 in astronomical counting style is the year 11401 BCE in historical counting style.

direct	-11400 Mar 05 j 13:40	3° Υ 25'00		max. Earth dist.	-11394 Jul 02 j 04:05	19° Υ 00'19	31.26261 AU
evening set	-11400 Jun 04 j 00:51	5° Υ 21'21		morning rise	-11394 Jul 18 j 02:53	19° Υ 36'08	
				retrograde	-11394 Oct 12 j 23:51	21° Υ 29'00	
conjunction	-11400 Jun 19 j 12:23	5° Υ 56'01	0°51'20	opposition	-11394 Dec 30 j 16:35	20° Υ 06'56	1°33'39
minimum elong	-11400 Jun 19 j 12:23	5° Υ 56'00	0°51'21	min. Earth dist.	-11394 Dec 31 j 09:34	20° Υ 05'47	29.26472 AU
max. Earth dist.	-11400 Jun 18 j 15:50	5° Υ 54'05	31.24549 AU	direct	-11393 Mar 22 j 01:29	18° Υ 42'29	
morning rise	-11400 Jul 04 j 20:31	6° Υ 30'23		evening set	-11393 Jun 19 j 23:51	20° Υ 38'17	
retrograde	-11400 Sep 29 j 06:43	8° Υ 22'46					
opposition	-11400 Dec 16 j 14:02	7° Υ 00'59	0°57'55	conjunction	-11393 Jul 05 j 07:00	21° Υ 12'36	1°30'18
min. Earth dist.	-11400 Dec 17 j 10:27	6° Υ 59'35	29.24876 AU	minimum elong	-11393 Jul 05 j 06:59	21° Υ 12'36	1°30'29
direct	-11399 Mar 08 j 02:27	5° Υ 36'19		max. Earth dist.	-11393 Jul 04 j 14:55	21° Υ 11'05	31.26524 AU
evening set	-11399 Jun 06 j 11:21	7° Υ 32'36		morning rise	-11393 Jul 20 j 11:35	21° Υ 46'43	
				retrograde	-11393 Oct 15 j 09:15	23° Υ 39'40	
conjunction	-11399 Jun 21 j 22:05	8° Υ 07'12	0°57'12	opposition	-11392 Jan 02 j 04:58	22° Υ 17'34	1°39'11
minimum elong	-11399 Jun 21 j 22:04	8° Υ 07'12	0°57'14	min. Earth dist.	-11392 Jan 02 j 20:24	22° Υ 16'31	29.26775 AU
max. Earth dist.	-11399 Jun 21 j 00:52	8° Υ 05'12	31.25076 AU	direct	-11392 Mar 23 j 15:16	20° Υ 53'11	
morning rise	-11399 Jul 07 j 05:50	8° Υ 41'33		evening set	-11392 Jun 21 j 09:45	22° Υ 48'55	
retrograde	-11399 Oct 01 j 17:51	10° Υ 34'01					
opposition	-11399 Dec 19 j 02:25	9° Υ 12'13	1°04'08	conjunction	-11392 Jul 06 j 16:10	23° Υ 23'11	1°35'24
min. Earth dist.	-11399 Dec 19 j 21:58	9° Υ 10'53	29.25345 AU	minimum elong	-11392 Jul 06 j 16:09	23° Υ 23'11	1°35'37
direct	-11398 Mar 10 j 13:21	7° Υ 47'36		max. Earth dist.	-11392 Jul 06 j 00:13	23° Υ 21'41	31.26869 AU
evening set	-11398 Jun 08 j 21:42	9° Υ 43'49		morning rise	-11392 Jul 21 j 20:23	23° Υ 57'17	
				retrograde	-11392 Oct 16 j 20:37	25° Υ 50'20	
conjunction	-11398 Jun 24 j 08:00	10° Υ 18'23	1°02'59	opposition	-11391 Jan 03 j 17:36	24° Υ 28'13	1°44'34
minimum elong	-11398 Jun 24 j 07:59	10° Υ 18'23	1°03'03	min. Earth dist.	-11391 Jan 04 j 08:08	24° Υ 27'15	29.27175 AU
max. Earth dist.	-11398 Jun 23 j 12:11	10° Υ 16'31	31.25465 AU	direct	-11391 Mar 26 j 02:37	23° Υ 03'56	
morning rise	-11398 Jul 09 j 15:04	10° Υ 52'41		evening set	-11391 Jun 23 j 19:19	24° Υ 59'35	
retrograde	-11398 Oct 04 j 03:28	12° Υ 45'13		max. Earth dist.	-11391 Jul 08 j 11:23	25° Υ 32'31	31.27291 AU
opposition	-11398 Dec 21 j 14:45	11° Υ 23'23	1°10'16				
min. Earth dist.	-11398 Dec 22 j 10:47	11° Υ 22'02	29.25674 AU	conjunction	-11391 Jul 09 j 01:19	25° Υ 33'49	1°40'22
direct	-11397 Mar 13 j 00:53	9° Υ 58'49		minimum elong	-11391 Jul 09 j 01:18	25° Υ 33'49	1°40'36
evening set	-11397 Jun 11 j 08:04	11° Υ 54'58		morning rise	-11391 Jul 24 j 04:56	26° Υ 07'53	
				retrograde	-11391 Oct 19 j 05:55	28° Υ 01'05	
conjunction	-11397 Jun 26 j 17:36	12° Υ 29'28	1°08'40	opposition	-11390 Jan 06 j 06:18	26° Υ 38'57	1°49'48
minimum elong	-11397 Jun 26 j 17:35	12° Υ 29'28	1°08'45	min. Earth dist.	-11390 Jan 06 j 20:09	26° Υ 38'01	29.27613 AU
max. Earth dist.	-11397 Jun 25 j 21:23	12° Υ 27'34	31.25738 AU	direct	-11390 Mar 28 j 15:21	25° Υ 14'45	
morning rise	-11397 Jul 12 j 00:19	13° Υ 03'45		evening set	-11390 Jun 26 j 05:09	27° Υ 10'21	
retrograde	-11397 Oct 06 j 14:57	14° Υ 56'21					
opposition	-11397 Dec 24 j 03:04	13° Υ 34'28	1°16'18	conjunction	-11390 Jul 11 j 10:25	27° Υ 44'33	1°45'11
min. Earth dist.	-11397 Dec 24 j 21:36	13° Υ 33'13	29.25901 AU	minimum elong	-11390 Jul 11 j 10:24	27° Υ 44'32	1°45'27
direct	-11396 Mar 14 j 12:01	12° Υ 09'56		max. Earth dist.	-11390 Jul 10 j 20:20	27° Υ 43'13	31.27731 AU
evening set	-11396 Jun 12 j 18:06	14° Υ 05'59		morning rise	-11390 Jul 26 j 13:45	28° Υ 18'35	
max. Earth dist.	-11396 Jun 27 j 08:04	14° Υ 38'39	31.25917 AU	retrograde	-11390 Sep 25 j 03:42	0° \mathcal{B}	
				retrograde	-11390 Oct 21 j 16:43	0° \mathcal{B} 11'54	
conjunction	-11396 Jun 28 j 03:06	14° Υ 40'27	1°14'15		-11390 Nov 17 j 21:38	30° \mathcal{R} Υ	
minimum elong	-11396 Jun 28 j 03:06	14° Υ 40'27	1°14'22	opposition	-11389 Jan 08 j 18:48	28° Υ 49'47	1°54'52
morning rise	-11396 Jul 13 j 09:12	15° Υ 14'41		min. Earth dist.	-11389 Jan 09 j 07:24	28° Υ 48'55	29.28055 AU
retrograde	-11396 Oct 08 j 01:34	17° Υ 07'22		direct	-11389 Mar 31 j 01:45	27° Υ 25'40	
opposition	-11396 Dec 25 j 15:39	15° Υ 45'25	1°22'12	evening set	-11389 Jun 28 j 14:50	29° Υ 21'12	
min. Earth dist.	-11396 Dec 26 j 10:34	15° Υ 44'09	29.26068 AU				
direct	-11395 Mar 17 j 00:54	14° Υ 20'55		conjunction	-11389 Jul 13 j 19:41	29° Υ 55'22	1°49'52
evening set	-11395 Jun 15 j 04:10	16° Υ 16'52		minimum elong	-11389 Jul 13 j 19:40	29° Υ 55'22	1°50'08
				max. Earth dist.	-11389 Jul 13 j 07:19	29° Υ 54'12	31.28131 AU
conjunction	-11395 Jun 30 j 12:29	16° Υ 51'17	1°19'43		-11389 Jul 15 j 20:44	0° \mathcal{B}	
minimum elong	-11395 Jun 30 j 12:28	16° Υ 51'17	1°19'52	morning rise	-11389 Jul 28 j 22:24	0° \mathcal{B} 29'22	
max. Earth dist.	-11395 Jun 29 j 18:05	16° Υ 49'33	31.26079 AU	retrograde	-11389 Oct 24 j 02:25	2° \mathcal{B} 22'50	
morning rise	-11395 Jul 15 j 18:08	17° Υ 25'28		opposition	-11388 Jan 11 j 07:40	1° \mathcal{B} 00'41	1°59'47
retrograde	-11395 Oct 10 j 13:31	19° Υ 18'14		min. Earth dist.	-11388 Jan 11 j 20:25	0° \mathcal{B} 59'50	29.28422 AU
opposition	-11395 Dec 28 j 04:03	17° Υ 56'14	1°28'00		-11388 Feb 22 j 04:41	30° \mathcal{R} Υ	
min. Earth dist.	-11395 Dec 28 j 21:10	17° Υ 55'04	29.26241 AU	direct	-11388 Apr 01 j 12:53	29° Υ 36'40	
direct	-11394 Mar 19 j 14:16	16° Υ 31'45			-11388 May 09 j 15:20	0° \mathcal{B}	
evening set	-11394 Jun 17 j 14:01	18° Υ 27'37		evening set	-11388 Jun 30 j 00:35	1° \mathcal{B} 32'08	
conjunction	-11394 Jul 02 j 21:43	19° Υ 01'59	1°25'04	conjunction	-11388 Jul 15 j 04:43	2° \mathcal{B} 06'15	1°54'23
minimum elong	-11394 Jul 02 j 21:42	19° Υ 01'59	1°25'14	minimum elong	-11388 Jul 15 j 04:42	2° \mathcal{B} 06'15	1°54'41

Attention, astronomical year style is used: The year -11388 in astronomical counting style is the year 11389 BCE in historical counting style.

max. Earth dist.	-11388 Jul 14 j 16:19	2°05'05	31.28445 AU	min. Earth dist.	-11381 Jan 27 j 08:58	16°01'06	29.27731 AU
morning rise	-11388 Jul 30 j 07:08	2°04'14			-11381 Mar 27 j 16:11	15°08	
retrograde	-11388 Oct 25 j 14:22	4°03'35		direct	-11381 Apr 18 j 01:34	14°05'248	
opposition	-11387 Jan 12 j 20:31	3°01'40	2°04'32		-11381 May 08 j 22:48	15°08	
min. Earth dist.	-11387 Jan 13 j 07:34	3°01'056	29.28684 AU	evening set	-11381 Jul 15 j 19:05	16°04'739	
direct	-11387 Apr 03 j 23:54	1°04'743					
evening set	-11387 Jul 02 j 10:18	3°04'3'07		conjunction	-11381 Jul 30 j 19:56	17°02'1'31	2°21'04
				minimum elong	-11381 Jul 30 j 19:55	17°02'1'31	2°21'29
conjunction	-11387 Jul 17 j 13:59	4°01'7'12	1°58'44	max. Earth dist.	-11381 Jul 30 j 13:02	17°02'0'52	31.27431 AU
minimum elong	-11387 Jul 17 j 13:58	4°01'7'12	1°59'03	morning rise	-11381 Aug 14 j 20:05	17°05'5'20	
max. Earth dist.	-11387 Jul 17 j 02:35	4°01'6'07	31.28623 AU	retrograde	-11381 Nov 10 j 18:53	19°04'9'46	
morning rise	-11387 Aug 01 j 15:55	4°05'1'09		opposition	-11380 Jan 29 j 14:52	18°02'7'05	2°32'22
retrograde	-11387 Oct 28 j 01:29	6°04'4'54		min. Earth dist.	-11380 Jan 29 j 20:07	18°02'6'44	29.27519 AU
opposition	-11386 Jan 15 j 09:30	5°02'2'41	2°09'06	direct	-11380 Apr 19 j 12:23	17°03'0'22	
min. Earth dist.	-11386 Jan 15 j 21:00	5°02'1'54	29.28806 AU	evening set	-11380 Jul 17 j 04:07	18°05'8'08	
direct	-11386 Apr 06 j 11:29	3°05'8'47					
evening set	-11386 Jul 04 j 19:58	5°05'4'06		conjunction	-11380 Aug 01 j 04:43	19°03'1'58	2°24'06
				minimum elong	-11380 Aug 01 j 04:42	19°03'1'58	2°24'33
conjunction	-11386 Jul 19 j 23:08	6°02'8'08	2°02'55	max. Earth dist.	-11380 Jul 31 j 23:58	19°03'1'31	31.27249 AU
minimum elong	-11386 Jul 19 j 23:07	6°02'8'08	2°03'16	morning rise	-11380 Aug 16 j 04:29	20°05'0'47	
max. Earth dist.	-11386 Jul 19 j 12:16	6°02'7'07	31.28666 AU	retrograde	-11380 Nov 12 j 04:33	22°00'0'23	
morning rise	-11386 Aug 04 j 00:44	7°02'0'04		opposition	-11379 Jan 31 j 03:56	20°03'7'38	2°35'30
retrograde	-11386 Oct 30 j 13:35	8°05'5'56		min. Earth dist.	-11379 Jan 31 j 08:42	20°03'7'19	29.27392 AU
opposition	-11385 Jan 17 j 22:22	7°03'3'39	2°13'28	direct	-11379 Apr 21 j 23:31	19°01'3'59	
min. Earth dist.	-11385 Jan 18 j 08:16	7°03'2'59	29.28771 AU	evening set	-11379 Jul 19 j 13:19	21°08'0'40	
direct	-11385 Apr 08 j 23:55	6°09'0'47					
evening set	-11385 Jul 07 j 05:38	8°05'0'02		conjunction	-11379 Aug 03 j 13:29	21°04'2'30	2°26'56
				minimum elong	-11379 Aug 03 j 13:28	21°04'2'30	2°27'24
conjunction	-11385 Jul 22 j 08:15	8°03'9'02	2°06'55	max. Earth dist.	-11379 Aug 03 j 09:20	21°04'2'06	31.27169 AU
minimum elong	-11385 Jul 22 j 08:14	8°03'9'02	2°07'17	morning rise	-11379 Aug 18 j 13:11	22°01'6'18	
max. Earth dist.	-11385 Jul 21 j 21:40	8°03'8'02	31.28545 AU	retrograde	-11379 Nov 14 j 16:32	24°01'1'03	
morning rise	-11385 Aug 06 j 09:30	9°01'2'56		opposition	-11378 Feb 02 j 16:45	22°04'8'17	2°38'25
retrograde	-11385 Nov 02 j 00:43	11°06'0'55		min. Earth dist.	-11378 Feb 02 j 19:18	22°04'8'07	29.27353 AU
opposition	-11384 Jan 20 j 11:19	9°04'4'33	2°17'39	direct	-11378 Apr 24 j 09:59	21°02'4'43	
min. Earth dist.	-11384 Jan 20 j 21:24	9°04'3'53	29.28600 AU	evening set	-11378 Jul 21 j 22:23	23°01'9'21	
direct	-11384 Apr 10 j 10:57	8°02'0'43					
evening set	-11384 Jul 08 j 15:07	10°01'5'52		conjunction	-11378 Aug 05 j 22:19	23°05'3'09	2°29'33
				minimum elong	-11378 Aug 05 j 22:18	23°05'3'09	2°30'03
conjunction	-11384 Jul 23 j 17:22	10°04'9'49	2°10'45	max. Earth dist.	-11378 Aug 05 j 19:29	23°05'2'53	31.27143 AU
minimum elong	-11384 Jul 23 j 17:21	10°04'9'49	2°11'08	morning rise	-11378 Aug 20 j 21:49	24°02'6'57	
max. Earth dist.	-11384 Jul 23 j 08:16	10°04'8'58	31.28316 AU	retrograde	-11378 Nov 17 j 03:58	26°02'1'52	
morning rise	-11384 Aug 07 j 18:12	11°02'3'42		opposition	-11377 Feb 05 j 05:49	24°05'9'04	2°41'07
retrograde	-11384 Nov 03 j 11:03	13°01'7'47		min. Earth dist.	-11377 Feb 05 j 08:22	24°05'8'54	29.27349 AU
opposition	-11383 Jan 22 j 00:16	11°05'5'21	2°21'39	direct	-11377 Apr 26 j 20:29	23°03'5'36	
min. Earth dist.	-11383 Jan 22 j 08:56	11°05'4'45	29.28327 AU	evening set	-11377 Jul 24 j 07:28	25°03'0'10	
direct	-11383 Apr 13 j 01:01	10°03'1'32					
evening set	-11383 Jul 11 j 00:30	12°02'6'34		conjunction	-11377 Aug 08 j 07:07	26°03'0'57	2°31'58
				minimum elong	-11377 Aug 08 j 07:06	26°03'0'57	2°32'28
conjunction	-11383 Jul 26 j 02:11	13°00'0'30	2°14'23	max. Earth dist.	-11377 Aug 08 j 05:28	26°03'0'48	31.27138 AU
minimum elong	-11383 Jul 26 j 02:10	13°00'0'29	2°14'47	morning rise	-11377 Aug 23 j 06:27	26°03'7'45	
max. Earth dist.	-11383 Jul 25 j 17:05	12°05'9'38	31.28009 AU	retrograde	-11377 Nov 19 j 16:29	28°03'2'50	
morning rise	-11383 Aug 10 j 02:53	13°03'4'21		opposition	-11376 Feb 07 j 18:48	27°01'0'01	2°43'34
	-11383 Sep 25 j 07:07	15°08		min. Earth dist.	-11376 Feb 07 j 19:24	27°00'9'59	29.27330 AU
retrograde	-11383 Nov 05 j 22:55	15°02'8'33		direct	-11376 Apr 28 j 07:22	25°04'6'38	
	-11383 Dec 19 j 04:00	15°08		evening set	-11376 Jul 25 j 16:43	27°04'1'10	
opposition	-11382 Jan 24 j 13:13	14°06'0'00	2°25'26				
min. Earth dist.	-11382 Jan 24 j 21:06	14°05'0'29	29.28024 AU	conjunction	-11376 Aug 09 j 16:01	28°01'4'56	2°34'09
direct	-11382 Apr 15 j 12:42	12°04'2'13		minimum elong	-11376 Aug 09 j 16:00	28°01'4'56	2°34'40
evening set	-11382 Jul 13 j 09:45	14°03'7'09		max. Earth dist.	-11376 Aug 09 j 14:49	28°01'4'49	31.27087 AU
	-11382 Jul 23 j 14:25	15°08		morning rise	-11376 Aug 24 j 15:19	28°04'8'43	
					-11376 Sep 29 j 21:49	0°02	
conjunction	-11382 Jul 28 j 11:09	15°01'1'03	2°17'49	retrograde	-11376 Nov 21 j 04:40	0°02'43'59	
minimum elong	-11382 Jul 28 j 11:08	15°01'1'03	2°18'14		-11375 Jan 15 j 06:28	30°08	
max. Earth dist.	-11382 Jul 28 j 04:06	15°01'0'23	31.27695 AU	opposition	-11375 Feb 09 j 08:03	29°02'1'08	2°45'48
morning rise	-11382 Aug 12 j 11:25	15°04'4'53		min. Earth dist.	-11375 Feb 09 j 08:38	29°02'1'06	29.27262 AU
retrograde	-11382 Nov 08 j 08:03	17°03'9'11		direct	-11375 Apr 30 j 17:22	27°05'7'49	
opposition	-11381 Jan 27 j 01:58	16°01'6'34	2°29'00	evening set	-11375 Jul 28 j 01:48	29°05'2'17	

Attention, astronomical year style is used: The year -11375 in astronomical counting style is the year 11376 BCE in historical counting style.

	-11375 Jul 31 j 13:03	0°II		opposition	-11368 Feb 26 j 03:57	14°II39'01	2°54'36
				min. Earth dist.	-11368 Feb 25 j 22:20	14°II39'24	29.23960 AU
conjunction	-11375 Aug 12 j 01:02	0°II26'02	2°36'07	direct	-11368 May 16 j 04:36	13°II15'52	
minimum elong	-11375 Aug 12 j 01:01	0°II26'02	2°36'39	evening set	-11368 Aug 11 j 17:24	15°II09'36	
max. Earth dist.	-11375 Aug 12 j 01:28	0°II26'05	31.26966 AU				
morning rise	-11375 Aug 27 j 00:08	0°II59'49		conjunction	-11368 Aug 26 j 16:05	15°II43'19	2°43'32
retrograde	-11375 Nov 23 j 16:29	2°II55'14		minimum elong	-11368 Aug 26 j 16:05	15°II43'19	2°44'09
opposition	-11374 Feb 11 j 21:11	1°II32'21	2°47'47	max. Earth dist.	-11368 Aug 26 j 22:44	15°II43'57	31.23464 AU
min. Earth dist.	-11374 Feb 11 j 20:25	1°II32'24	29.27081 AU	morning rise	-11368 Sep 10 j 15:43	16°II17'09	
direct	-11374 May 03 j 06:57	0°II09'06		retrograde	-11368 Dec 08 j 23:17	18°II13'23	
evening set	-11374 Jul 30 j 11:11	2°II03'29		opposition	-11367 Feb 27 j 16:55	16°II49'52	2°54'52
				min. Earth dist.	-11367 Feb 27 j 09:02	16°II50'24	29.23483 AU
conjunction	-11374 Aug 14 j 10:03	2°II37'14	2°37'52	direct	-11367 May 18 j 15:14	15°II26'45	
minimum elong	-11374 Aug 14 j 10:02	2°II37'14	2°38'24	evening set	-11367 Aug 14 j 02:21	17°II20'24	
max. Earth dist.	-11374 Aug 14 j 10:08	2°II37'15	31.26717 AU				
morning rise	-11374 Aug 29 j 09:16	3°II11'01		conjunction	-11367 Aug 29 j 01:01	17°II54'07	2°43'40
retrograde	-11374 Nov 26 j 05:54	5°II06'35		minimum elong	-11367 Aug 29 j 01:00	17°II54'07	2°44'17
opposition	-11373 Feb 14 j 10:15	3°II43'37	2°49'32	max. Earth dist.	-11367 Aug 29 j 08:16	17°II54'49	31.23034 AU
min. Earth dist.	-11373 Feb 14 j 08:58	3°II43'42	29.26778 AU	morning rise	-11367 Sep 13 j 01:00	18°II27'59	
direct	-11373 May 05 j 18:15	2°II20'25		retrograde	-11367 Dec 11 j 11:50	20°II24'21	
evening set	-11373 Aug 01 j 20:20	4°II14'43		opposition	-11366 Mar 02 j 06:02	19°II00'46	2°54'52
				min. Earth dist.	-11366 Mar 01 j 21:49	19°II01'19	29.23107 AU
conjunction	-11373 Aug 16 j 19:14	4°II48'28	2°39'23	direct	-11366 May 21 j 00:52	17°II37'42	
minimum elong	-11373 Aug 16 j 19:14	4°II48'27	2°39'56	evening set	-11366 Aug 16 j 11:16	19°II31'17	
max. Earth dist.	-11373 Aug 16 j 21:03	4°II48'38	31.26336 AU				
morning rise	-11373 Aug 31 j 18:17	5°II22'15		conjunction	-11366 Aug 31 j 10:12	20°II05'02	2°43'34
retrograde	-11373 Nov 28 j 15:44	7°II17'56		minimum elong	-11366 Aug 31 j 10:11	20°II05'02	2°44'10
opposition	-11372 Feb 16 j 23:29	5°II54'54	2°51'02	max. Earth dist.	-11366 Aug 31 j 19:26	20°II05'54	31.22696 AU
min. Earth dist.	-11372 Feb 16 j 21:34	5°II55'01	29.26328 AU	morning rise	-11366 Sep 15 j 10:16	20°II38'55	
direct	-11372 May 07 j 06:54	4°II31'43		retrograde	-11366 Dec 13 j 24:00	22°II35'24	
evening set	-11372 Aug 03 j 05:29	6°II25'55		opposition	-11365 Mar 04 j 18:53	21°II11'48	2°54'38
				min. Earth dist.	-11365 Mar 04 j 09:02	21°II12'28	29.22792 AU
conjunction	-11372 Aug 18 j 04:07	6°II59'38	2°40'41	direct	-11365 May 23 j 13:10	19°II48'49	
minimum elong	-11372 Aug 18 j 04:07	6°II59'38	2°41'15	evening set	-11365 Aug 18 j 20:20	21°II42'20	
max. Earth dist.	-11372 Aug 18 j 05:49	6°II59'48	31.25833 AU				
morning rise	-11372 Sep 02 j 03:22	7°II33'26		conjunction	-11365 Sep 02 j 19:14	22°II16'06	2°43'13
retrograde	-11372 Nov 30 j 03:17	9°II29'13		minimum elong	-11365 Sep 02 j 19:14	22°II16'06	2°43'50
opposition	-11371 Feb 18 j 12:42	8°II06'06	2°52'18	max. Earth dist.	-11365 Sep 03 j 04:29	22°II16'58	31.22408 AU
min. Earth dist.	-11371 Feb 18 j 09:28	8°II06'19	29.25779 AU	morning rise	-11365 Sep 17 j 19:46	22°II50'00	
direct	-11371 May 09 j 18:46	6°II42'55		retrograde	-11365 Dec 16 j 14:11	24°II46'39	
evening set	-11371 Aug 05 j 14:32	8°II37'00		opposition	-11364 Mar 06 j 08:01	23°II23'01	2°54'08
				min. Earth dist.	-11364 Mar 05 j 21:21	23°II23'44	29.22519 AU
conjunction	-11371 Aug 20 j 13:14	9°II10'44	2°41'44	direct	-11364 May 24 j 23:19	22°II00'06	
minimum elong	-11371 Aug 20 j 13:14	9°II10'44	2°42'19	evening set	-11364 Aug 20 j 05:12	23°II53'35	
max. Earth dist.	-11371 Aug 20 j 16:37	9°II11'03	31.25232 AU				
morning rise	-11371 Sep 04 j 12:28	9°II44'32		conjunction	-11364 Sep 04 j 04:27	24°II27'21	2°42'38
retrograde	-11371 Dec 02 j 13:22	11°II40'25		minimum elong	-11364 Sep 04 j 04:27	24°II27'21	2°43'16
opposition	-11370 Feb 21 j 01:47	10°II17'11	2°53'19	max. Earth dist.	-11364 Sep 04 j 15:42	24°II28'25	31.22126 AU
min. Earth dist.	-11370 Feb 20 j 22:28	10°II17'24	29.25156 AU	morning rise	-11364 Sep 19 j 05:10	25°II01'18	
direct	-11370 May 12 j 06:51	8°II54'01		retrograde	-11364 Dec 18 j 01:12	26°II58'05	
evening set	-11370 Aug 07 j 23:33	10°II47'58		opposition	-11363 Mar 08 j 21:12	25°II34'26	2°53'23
				min. Earth dist.	-11363 Mar 08 j 09:50	25°II35'12	29.22213 AU
conjunction	-11370 Aug 22 j 22:11	11°II21'41	2°42'34	direct	-11363 May 27 j 11:14	24°II11'36	
minimum elong	-11370 Aug 22 j 22:10	11°II21'41	2°43'10	evening set	-11363 Aug 22 j 14:27	26°II05'01	
max. Earth dist.	-11370 Aug 23 j 02:04	11°II22'03	31.24604 AU				
morning rise	-11370 Sep 06 j 21:35	11°II53'30		conjunction	-11363 Sep 06 j 13:48	26°II38'49	2°41'49
retrograde	-11370 Dec 05 j 00:54	13°II51'29		minimum elong	-11363 Sep 06 j 13:48	26°II38'49	2°42'26
opposition	-11369 Feb 23 j 14:47	12°II28'09	2°54'05	max. Earth dist.	-11363 Sep 07 j 00:58	26°II39'53	31.21799 AU
min. Earth dist.	-11369 Feb 23 j 09:22	12°II28'30	29.24533 AU	morning rise	-11363 Sep 21 j 15:00	27°II12'48	
direct	-11369 May 14 j 18:09	11°II04'58		retrograde	-11363 Dec 20 j 14:21	29°II09'43	
evening set	-11369 Aug 10 j 08:28	12°II58'49		opposition	-11362 Mar 11 j 10:11	27°II46'03	2°52'23
				min. Earth dist.	-11362 Mar 10 j 21:43	27°II46'54	29.21846 AU
conjunction	-11369 Aug 25 j 07:03	13°II32'32	2°43'10	direct	-11362 May 29 j 22:30	26°II23'17	
minimum elong	-11369 Aug 25 j 07:03	13°II32'32	2°43'46	evening set	-11362 Aug 24 j 23:40	28°II16'38	
max. Earth dist.	-11369 Aug 25 j 12:11	13°II33'01	31.23987 AU				
morning rise	-11369 Sep 09 j 06:34	14°II06'21		conjunction	-11362 Sep 08 j 23:21	28°II50'28	2°40'45
retrograde	-11369 Dec 07 j 11:25	16°II02'28		minimum elong	-11362 Sep 08 j 23:21	28°II50'28	2°41'23

Attention, astronomical year style is used: The year -11362 in astronomical counting style is the year 11363 BCE in historical counting style.

max. Earth dist.	-11362 Sep 09 j 11:49	28°II51'39	31.21368 AU	min. Earth dist.	-11355 Mar 26 j 12:20	13°III0'04	29.16436 AU
morning rise	-11362 Sep 24 j 00:51	29°II24'29		direct	-11355 Jun 14 j 02:28	11°III46'10	
	-11362 Oct 10 j 17:06	0°III		evening set	-11355 Sep 08 j 16:20	13°III38'54	
retrograde	-11362 Dec 23 j 01:54	1°III21'33					
	-11361 Mar 12 j 15:20	30°RII		conjunction	-11355 Sep 23 j 18:51	14°III12'57	2°27'00
opposition	-11361 Mar 13 j 23:24	29°II57'50	2°51'08	minimum elong	-11355 Sep 23 j 18:52	14°III12'57	2°27'37
min. Earth dist.	-11361 Mar 13 j 11:08	29°II58'40	29.21351 AU	max. Earth dist.	-11355 Sep 24 j 12:57	14°III14'39	31.15836 AU
direct	-11361 Jun 01 j 10:19	28°II35'07		morning rise	-11355 Oct 08 j 23:58	14°III47'15	
	-11361 Aug 14 j 03:23	0°III		retrograde	-11354 Jan 07 j 15:06	16°III44'55	
evening set	-11361 Aug 27 j 08:52	0°III28'24		opposition	-11354 Mar 29 j 18:14	15°III20'38	2°35'36
				min. Earth dist.	-11354 Mar 29 j 00:10	15°III21'52	29.15692 AU
conjunction	-11361 Sep 11 j 08:49	1°III02'15	2°39'28	direct	-11354 Jun 16 j 14:03	13°III57'56	
minimum elong	-11361 Sep 11 j 08:49	1°III02'15	2°40'06	evening set	-11354 Sep 11 j 01:42	15°III50'36	
max. Earth dist.	-11361 Sep 11 j 21:33	1°III03'28	31.20816 AU				
morning rise	-11361 Sep 26 j 10:45	1°III36'19		conjunction	-11354 Sep 26 j 04:38	16°III24'40	2°24'09
retrograde	-11361 Dec 25 j 14:12	3°III33'30		minimum elong	-11354 Sep 26 j 04:38	16°III24'40	2°24'47
opposition	-11360 Mar 15 j 12:33	2°III09'44	2°49'38	max. Earth dist.	-11354 Sep 26 j 22:49	16°III26'24	31.15154 AU
min. Earth dist.	-11360 Mar 14 j 22:38	2°III10'40	29.20723 AU	morning rise	-11354 Oct 11 j 10:30	16°III59'02	
direct	-11360 Jun 02 j 21:40	0°III47'02		retrograde	-11353 Jan 10 j 05:26	18°III56'47	
evening set	-11360 Aug 28 j 18:12	2°III40'15		min. Earth dist.	-11353 Mar 31 j 11:39	17°III33'46	29.15047 AU
				opposition	-11353 Apr 01 j 07:02	17°III32'27	2°32'27
conjunction	-11360 Sep 12 j 18:27	3°III14'07	2°37'57	direct	-11353 Jun 19 j 01:31	16°III09'46	
minimum elong	-11360 Sep 12 j 18:27	3°III14'07	2°38'35	evening set	-11353 Sep 13 j 10:53	18°III02'22	
max. Earth dist.	-11360 Sep 13 j 07:41	3°III15'22	31.20115 AU				
morning rise	-11360 Sep 27 j 20:54	3°III48'13		conjunction	-11353 Sep 28 j 14:25	18°III36'30	2°21'06
retrograde	-11360 Dec 27 j 01:06	5°III45'30		minimum elong	-11353 Sep 28 j 14:26	18°III36'30	2°21'43
opposition	-11359 Mar 18 j 01:46	4°III21'40	2°47'53	max. Earth dist.	-11353 Sep 29 j 10:10	18°III38'22	31.14541 AU
min. Earth dist.	-11359 Mar 17 j 12:18	4°III22'34	29.19959 AU	morning rise	-11353 Oct 13 j 20:53	19°III10'55	
direct	-11359 Jun 05 j 08:03	2°III58'59		retrograde	-11352 Jan 12 j 17:39	21°III08'46	
evening set	-11359 Aug 31 j 03:24	4°III52'05		opposition	-11352 Apr 02 j 19:56	19°III44'23	2°29'03
				min. Earth dist.	-11352 Apr 02 j 00:30	19°III45'42	29.14453 AU
conjunction	-11359 Sep 15 j 04:09	5°III26'00	2°36'12	direct	-11352 Jun 20 j 13:09	18°III21'45	
minimum elong	-11359 Sep 15 j 04:09	5°III26'00	2°36'50	evening set	-11352 Sep 14 j 20:21	20°III14'18	
max. Earth dist.	-11359 Sep 15 j 18:27	5°III27'21	31.19305 AU				
morning rise	-11359 Sep 30 j 07:02	6°III00'08		conjunction	-11352 Sep 30 j 00:27	20°III48'28	2°17'49
retrograde	-11359 Dec 29 j 13:02	7°III57'30		minimum elong	-11352 Sep 30 j 00:28	20°III48'28	2°18'26
opposition	-11358 Mar 20 j 14:45	6°III33'34	2°45'54	max. Earth dist.	-11352 Sep 30 j 20:44	20°III50'24	31.13982 AU
min. Earth dist.	-11358 Mar 19 j 23:38	6°III34'35	29.19086 AU	morning rise	-11352 Oct 15 j 07:37	21°III22'57	
direct	-11358 Jun 07 j 18:47	5°III10'52		retrograde	-11351 Jan 14 j 06:24	23°III20'53	
evening set	-11358 Sep 02 j 12:44	7°III03'53		min. Earth dist.	-11351 Apr 04 j 11:37	21°III57'54	29.13889 AU
				opposition	-11351 Apr 05 j 08:37	21°III56'29	2°25'27
conjunction	-11358 Sep 17 j 13:43	7°III37'49	2°34'14	direct	-11351 Jun 23 j 00:13	20°III33'53	
minimum elong	-11358 Sep 17 j 13:43	7°III37'49	2°34'52	evening set	-11351 Sep 17 j 05:58	22°III26'23	
max. Earth dist.	-11358 Sep 18 j 04:03	7°III39'10	31.18399 AU				
morning rise	-11358 Oct 02 j 17:15	8°III11'59		conjunction	-11351 Oct 02 j 10:37	23°III00'36	2°14'21
retrograde	-11357 Jan 01 j 01:31	10°III09'26		minimum elong	-11351 Oct 02 j 10:38	23°III00'36	2°14'57
opposition	-11357 Mar 23 j 03:43	8°III45'24	2°43'41	max. Earth dist.	-11351 Oct 03 j 07:18	23°III02'33	31.13406 AU
min. Earth dist.	-11357 Mar 22 j 12:46	8°III46'25	29.18167 AU	morning rise	-11351 Oct 17 j 18:32	23°III35'08	
direct	-11357 Jun 10 j 04:39	7°III22'42		retrograde	-11350 Jan 16 j 17:50	25°III33'10	
evening set	-11357 Sep 04 j 21:52	9°III15'36		opposition	-11350 Apr 07 j 21:27	24°III08'44	2°21'37
				min. Earth dist.	-11350 Apr 07 j 01:01	24°III10'07	29.13286 AU
conjunction	-11357 Sep 19 j 23:26	9°III49'34	2°32'03	direct	-11350 Jun 25 j 10:36	22°III46'10	
minimum elong	-11357 Sep 19 j 23:27	9°III49'34	2°32'40	evening set	-11350 Sep 19 j 15:36	24°III38'37	
max. Earth dist.	-11357 Sep 20 j 15:39	9°III51'06	31.17486 AU				
morning rise	-11357 Oct 05 j 03:21	10°III23'47		conjunction	-11350 Oct 04 j 20:57	25°III12'53	2°10'40
retrograde	-11356 Jan 03 j 13:48	12°III21'18		minimum elong	-11350 Oct 04 j 20:58	25°III12'53	2°11'15
opposition	-11356 Mar 24 j 16:37	10°III57'10	2°41'13	max. Earth dist.	-11350 Oct 05 j 18:38	25°III14'56	31.12779 AU
min. Earth dist.	-11356 Mar 24 j 00:07	10°III58'17	29.17261 AU	morning rise	-11350 Oct 20 j 05:27	25°III47'28	
direct	-11356 Jun 11 j 16:47	9°III34'27		retrograde	-11349 Jan 19 j 06:23	27°III45'35	
evening set	-11356 Sep 06 j 07:06	11°III27'16		opposition	-11349 Apr 10 j 10:04	26°III21'07	2°17'35
				min. Earth dist.	-11349 Apr 09 j 12:17	26°III22'36	29.12600 AU
conjunction	-11356 Sep 21 j 08:58	12°III01'16	2°29'38	direct	-11349 Jun 27 j 21:36	24°III58'35	
minimum elong	-11356 Sep 21 j 08:58	12°III01'16	2°30'15	evening set	-11349 Sep 22 j 01:32	26°III50'58	
max. Earth dist.	-11356 Sep 22 j 01:06	12°III02'47	31.16619 AU				
morning rise	-11356 Oct 06 j 13:38	12°III35'31		conjunction	-11349 Oct 07 j 07:21	27°III25'18	2°06'47
retrograde	-11355 Jan 05 j 03:53	14°III33'07		minimum elong	-11349 Oct 07 j 07:22	27°III25'18	2°07'22
opposition	-11355 Mar 27 j 05:34	13°III08'53	2°38'32	max. Earth dist.	-11349 Oct 08 j 04:36	27°III27'18	31.12046 AU

Attention, astronomical year style is used: The year -11349 in astronomical counting style is the year 11350 BCE in historical counting style.

morning rise	-11349 Oct 22 j 16:43	27° $\overline{59}$ '56		direct	-11342 Jul 13 j 02:22	10° $\overline{25}$ '30	
retrograde	-11348 Jan 21 j 19:03	29° $\overline{58}$ '08		evening set	-11342 Oct 06 j 23:27	12° $\overline{17}$ '30	
opposition	-11348 Apr 11 j 22:56	28° $\overline{33}$ '37	2°13'20				
min. Earth dist.	-11348 Apr 11 j 01:46	28° $\overline{35}$ '03	29.11808 AU	conjunction	-11342 Oct 22 j 10:14	12° $\overline{52}$ '11	1°34'50
direct	-11348 Jun 29 j 07:10	27° $\overline{11}$ '04		minimum elong	-11342 Oct 22 j 10:15	12° $\overline{52}$ '11	1°35'20
evening set	-11348 Sep 23 j 11:18	29° $\overline{03}$ '24		max. Earth dist.	-11342 Oct 23 j 11:01	12° $\overline{54}$ '32	31.05057 AU
				morning rise	-11342 Nov 07 j 01:02	13° $\overline{27}$ '15	
conjunction	-11348 Oct 08 j 17:59	29° $\overline{37}$ '47	2°02'44		-11342 Dec 28 j 06:26	15° $\overline{00}$ '	
minimum elong	-11348 Oct 08 j 18:00	29° $\overline{37}$ '47	2°03'18	retrograde	-11341 Feb 06 j 12:50	15° $\overline{25}$ '42	
max. Earth dist.	-11348 Oct 09 j 16:31	29° $\overline{39}$ '55	31.11196 AU		-11341 Mar 19 j 18:06	15° $\overline{38}$ '	
	-11348 Oct 18 j 13:32	0° $\overline{00}$ '		opposition	-11341 Apr 28 j 14:03	14° $\overline{00}$ '40	1°38'35
morning rise	-11348 Oct 24 j 03:57	0° $\overline{12}$ '29		min. Earth dist.	-11341 Apr 27 j 14:02	14° $\overline{02}$ '19	29.04777 AU
retrograde	-11347 Jan 23 j 07:12	2° $\overline{10}$ '44		direct	-11341 Jul 15 j 12:51	12° $\overline{37}$ '57	
opposition	-11347 Apr 14 j 11:37	0° $\overline{46}$ '09	2°08'54	evening set	-11341 Oct 09 j 09:36	14° $\overline{29}$ '55	
min. Earth dist.	-11347 Apr 13 j 13:37	0° $\overline{47}$ '39	29.10875 AU		-11341 Oct 22 j 19:48	15° $\overline{00}$ '	
	-11347 May 14 j 06:30	30° $\overline{38}$ '					
direct	-11347 Jul 01 j 18:50	29° $\overline{23}$ '36		conjunction	-11341 Oct 24 j 21:15	15° $\overline{04}$ '40	1°29'40
	-11347 Aug 17 j 07:40	0° $\overline{00}$ '		minimum elong	-11341 Oct 24 j 21:16	15° $\overline{04}$ '40	1°30'08
evening set	-11347 Sep 25 j 21:24	1° $\overline{15}$ '52		max. Earth dist.	-11341 Oct 25 j 23:14	15° $\overline{07}$ '07	31.04305 AU
				morning rise	-11341 Nov 09 j 12:44	15° $\overline{39}$ '47	
conjunction	-11347 Oct 11 j 04:37	1° $\overline{50}$ '17	1°58'29	retrograde	-11340 Feb 09 j 02:02	17° $\overline{38}$ '17	
minimum elong	-11347 Oct 11 j 04:38	1° $\overline{50}$ '17	1°59'03	min. Earth dist.	-11340 Apr 29 j 00:38	16° $\overline{15}$ '00	29.04067 AU
max. Earth dist.	-11347 Oct 12 j 02:15	1° $\overline{52}$ '20	31.10215 AU	opposition	-11340 Apr 30 j 02:09	16° $\overline{13}$ '14	1°32'58
morning rise	-11347 Oct 26 j 15:32	2° $\overline{25}$ '03			-11340 Jun 23 j 04:39	15° $\overline{38}$ '	
retrograde	-11346 Jan 25 j 21:07	4° $\overline{23}$ '20		direct	-11340 Jul 16 j 23:48	14° $\overline{50}$ '32	
min. Earth dist.	-11346 Apr 16 j 02:15	3° $\overline{00}$ '10	29.09834 AU		-11340 Aug 09 j 06:25	15° $\overline{00}$ '	
opposition	-11346 Apr 17 j 00:10	2° $\overline{58}$ '40	2°04'16	evening set	-11340 Oct 10 j 19:58	16° $\overline{42}$ '29	
direct	-11346 Jul 04 j 04:15	1° $\overline{36}$ '04					
evening set	-11346 Sep 28 j 07:19	3° $\overline{28}$ '17		conjunction	-11340 Oct 26 j 08:14	17° $\overline{17}$ '18	1°24'20
				minimum elong	-11340 Oct 26 j 08:15	17° $\overline{17}$ '18	1°24'48
conjunction	-11346 Oct 13 j 15:21	4° $\overline{02}$ '46	1°54'05	max. Earth dist.	-11340 Oct 27 j 09:55	17° $\overline{19}$ '43	31.03649 AU
minimum elong	-11346 Oct 13 j 15:22	4° $\overline{02}$ '46	1°54'38	morning rise	-11340 Nov 11 j 00:42	17° $\overline{52}$ '30	
max. Earth dist.	-11346 Oct 14 j 14:21	4° $\overline{04}$ '56	31.09135 AU	retrograde	-11339 Feb 10 j 14:02	19° $\overline{51}$ '03	
morning rise	-11346 Oct 29 j 02:54	4° $\overline{37}$ '35		opposition	-11339 May 02 j 14:26	18° $\overline{25}$ '59	1°27'12
retrograde	-11345 Jan 28 j 08:55	6° $\overline{35}$ '53		min. Earth dist.	-11339 May 01 j 13:29	18° $\overline{27}$ '42	29.03443 AU
opposition	-11345 Apr 19 j 12:43	5° $\overline{11}$ '08	1°59'28	direct	-11339 Jul 19 j 09:03	17° $\overline{03}$ '19	
min. Earth dist.	-11345 Apr 18 j 14:29	5° $\overline{12}$ '39	29.08714 AU	evening set	-11339 Oct 13 j 06:27	18° $\overline{55}$ '16	
direct	-11345 Jul 06 j 16:01	3° $\overline{48}$ '30					
evening set	-11345 Sep 30 j 17:12	5° $\overline{40}$ '38		conjunction	-11339 Oct 28 j 19:37	19° $\overline{30}$ '08	1°18'53
				minimum elong	-11339 Oct 28 j 19:38	19° $\overline{30}$ '08	1°19'19
conjunction	-11345 Oct 16 j 01:51	6° $\overline{15}$ '09	1°49'30	max. Earth dist.	-11339 Oct 29 j 22:40	19° $\overline{32}$ '41	31.03054 AU
minimum elong	-11345 Oct 16 j 01:52	6° $\overline{15}$ '10	1°50'02	morning rise	-11339 Nov 13 j 12:41	20° $\overline{05}$ '23	
max. Earth dist.	-11345 Oct 17 j 00:38	6° $\overline{17}$ '19	31.08024 AU	retrograde	-11338 Feb 13 j 01:43	22° $\overline{03}$ '59	
morning rise	-11345 Oct 31 j 14:18	6° $\overline{50}$ '02		min. Earth dist.	-11338 May 04 j 00:42	20° $\overline{40}$ '42	29.02847 AU
retrograde	-11344 Jan 30 j 23:39	8° $\overline{48}$ '22		opposition	-11338 May 05 j 02:22	20° $\overline{38}$ '56	1°21'18
min. Earth dist.	-11344 Apr 20 j 02:06	7° $\overline{25}$ '06	29.07604 AU	direct	-11338 Jul 21 j 19:46	19° $\overline{16}$ '16	
opposition	-11344 Apr 21 j 01:12	7° $\overline{23}$ '31	1°54'30	evening set	-11338 Oct 15 j 17:12	21° $\overline{08}$ '15	
direct	-11344 Jul 08 j 03:33	6° $\overline{00}$ '51					
evening set	-11344 Oct 02 j 03:14	7° $\overline{52}$ '55		conjunction	-11338 Oct 31 j 06:56	21° $\overline{43}$ '10	1°13'18
				minimum elong	-11338 Oct 31 j 06:57	21° $\overline{43}$ '10	1°13'44
conjunction	-11344 Oct 17 j 12:38	8° $\overline{27}$ '30	1°44'46	max. Earth dist.	-11338 Nov 01 j 09:05	21° $\overline{45}$ '37	31.02472 AU
minimum elong	-11344 Oct 17 j 12:39	8° $\overline{27}$ '30	1°45'18	morning rise	-11338 Nov 16 j 00:56	22° $\overline{18}$ '28	
max. Earth dist.	-11344 Oct 18 j 12:35	8° $\overline{29}$ '46	31.06936 AU	retrograde	-11337 Feb 15 j 15:48	24° $\overline{17}$ '08	
morning rise	-11344 Nov 02 j 01:49	9° $\overline{02}$ '26		opposition	-11337 May 07 j 14:33	22° $\overline{52}$ '04	1°15'17
retrograde	-11343 Feb 01 j 11:49	11° $\overline{00}$ '48		min. Earth dist.	-11337 May 06 j 13:06	22° $\overline{53}$ '50	29.02252 AU
opposition	-11343 Apr 23 j 13:32	9° $\overline{35}$ '52	1°49'21	direct	-11337 Jul 24 j 04:12	21° $\overline{29}$ '25	
min. Earth dist.	-11343 Apr 22 j 14:40	9° $\overline{37}$ '26	29.06550 AU	evening set	-11337 Oct 18 j 03:53	23° $\overline{21}$ '24	
direct	-11343 Jul 10 j 15:03	8° $\overline{13}$ '10					
evening set	-11343 Oct 04 j 13:19	10° $\overline{05}$ '11		conjunction	-11337 Nov 02 j 18:28	23° $\overline{56}$ '23	1°07'37
				minimum elong	-11337 Nov 02 j 18:29	23° $\overline{56}$ '23	1°08'01
conjunction	-11343 Oct 19 j 23:29	10° $\overline{39}$ '50	1°39'53	max. Earth dist.	-11337 Nov 03 j 21:41	23° $\overline{58}$ '56	31.01850 AU
minimum elong	-11343 Oct 19 j 23:30	10° $\overline{39}$ '50	1°40'23	morning rise	-11337 Nov 18 j 13:06	24° $\overline{31}$ '45	
max. Earth dist.	-11343 Oct 20 j 23:52	10° $\overline{42}$ '08	31.05945 AU	retrograde	-11336 Feb 18 j 04:04	26° $\overline{30}$ '27	
morning rise	-11343 Nov 04 j 13:27	11° $\overline{14}$ '50		min. Earth dist.	-11336 May 08 j 01:22	25° $\overline{07}$ '08	29.01583 AU
retrograde	-11342 Feb 04 j 01:00	13° $\overline{13}$ '13		opposition	-11336 May 09 j 02:42	25° $\overline{05}$ '22	1°09'08
min. Earth dist.	-11342 Apr 25 j 01:21	11° $\overline{49}$ '54	29.05606 AU	direct	-11336 Jul 25 j 15:36	23° $\overline{42}$ '43	
opposition	-11342 Apr 26 j 01:45	11° $\overline{48}$ '14	1°44'03	evening set	-11336 Oct 19 j 14:59	25° $\overline{34}$ '42	

Attention, astronomical year style is used: The year -11336 in astronomical counting style is the year 11337 BCE in historical counting style.

conjunction	-11336 Nov 04 j 06:14	26°09'44"	1°01'49"	retrograde	-11329 Mar 05 j 23:02	12°03'46"	
minimum elong	-11336 Nov 04 j 06:15	26°09'44"	1°02'13"	opposition	-11329 May 25 j 13:21	10°03'38'19"	0°23'47"
max. Earth dist.	-11336 Nov 05 j 08:33	26°09'12'13"	31.01151 AU	min. Earth dist.	-11329 May 24 j 12:10	10°03'40'05"	28.95496 AU
morning rise	-11336 Nov 20 j 01:44	26°09'45'10"		direct	-11329 Aug 10 j 22:21	9°03'15'19"	
retrograde	-11335 Feb 19 j 19:15	28°09'43'53"		evening set	-11329 Nov 04 j 22:19	11°03'07'15"	
opposition	-11335 May 11 j 14:41	27°09'18'46"	1°02'53"				
min. Earth dist.	-11335 May 10 j 13:12	27°09'20'32"	29.00827 AU	conjunction	-11329 Nov 20 j 18:25	11°03'42'37"	0°19'12"
direct	-11335 Jul 28 j 02:42	25°09'56'05"		minimum elong	-11329 Nov 20 j 18:25	11°03'42'37"	0°19'27"
evening set	-11335 Oct 22 j 02:09	27°09'48'04"		max. Earth dist.	-11329 Nov 21 j 20:42	11°03'45'05"	30.95147 AU
				morning rise	-11329 Dec 06 j 18:51	12°03'18'23"	
conjunction	-11335 Nov 06 j 18:10	28°09'23'10"	0°55'56"	retrograde	-11328 Mar 07 j 12:36	14°03'17'00"	
minimum elong	-11335 Nov 06 j 18:11	28°09'23'10"	0°56'18"	min. Earth dist.	-11328 May 26 j 00:03	12°03'53'17"	28.94906 AU
max. Earth dist.	-11335 Nov 07 j 20:48	28°09'25'40"	31.00335 AU	opposition	-11328 May 27 j 01:00	12°03'51'33"	0°17'05"
morning rise	-11335 Nov 22 j 14:22	28°09'58'38"		direct	-11328 Aug 12 j 07:06	11°03'28'30"	
	-11335 Dec 23 j 03:08	0°03'00"		evening set	-11328 Nov 06 j 10:03	13°03'20'30"	
retrograde	-11334 Feb 22 j 07:23	0°03'57'22"					
	-11334 Apr 27 j 01:50	30°03'09'00"		conjunction	-11328 Nov 22 j 06:56	13°03'55'55"	0°12'56"
min. Earth dist.	-11334 May 13 j 02:14	29°09'33'54"	28.99950 AU	minimum elong	-11328 Nov 22 j 06:56	13°03'55'55"	0°13'10"
opposition	-11334 May 14 j 02:46	29°09'32'12"	0°56'33"	behind sun begin	-11328 Nov 22 j 03:07	13°03'55'34"	
direct	-11334 Jul 30 j 13:53	28°09'09'28"		behind sun end	-11328 Nov 22 j 10:45	13°03'56'15"	
	-11334 Oct 23 j 21:38	0°03'00"		max. Earth dist.	-11328 Nov 23 j 10:17	13°03'58'28"	30.94613 AU
evening set	-11334 Oct 24 j 13:15	0°03'01'26"		morning rise	-11328 Dec 08 j 07:50	14°03'31'44"	
				retrograde	-11327 Mar 10 j 00:09	16°03'30'21"	
conjunction	-11334 Nov 09 j 06:01	0°03'36'34"	0°49'58"	min. Earth dist.	-11327 May 28 j 11:33	15°03'06'39"	28.94418 AU
minimum elong	-11334 Nov 09 j 06:02	0°03'36'34"	0°50'19"	opposition	-11327 May 29 j 12:24	15°03'04'55"	0°10'21"
max. Earth dist.	-11334 Nov 10 j 08:22	0°03'39'03"	30.99428 AU	direct	-11327 Aug 14 j 18:06	13°03'41'52"	
morning rise	-11334 Nov 25 j 02:56	1°03'12'06"		evening set	-11327 Nov 08 j 22:02	15°03'33'56"	
retrograde	-11333 Feb 24 j 21:38	3°03'10'48"					
opposition	-11333 May 16 j 14:39	1°03'45'35"	0°50'07"	conjunction	-11327 Nov 24 j 19:27	16°03'09'23"	0°06'39"
min. Earth dist.	-11333 May 15 j 13:20	1°03'47'20"	28.98997 AU	minimum elong	-11327 Nov 24 j 19:28	16°03'09'23"	0°06'50"
direct	-11333 Aug 02 j 01:53	0°03'22'47"		behind sun begin	-11327 Nov 24 j 13:23	16°03'08'51"	
evening set	-11333 Oct 27 j 00:33	2°03'14'43"		behind sun end	-11327 Nov 25 j 01:32	16°03'09'56"	
				max. Earth dist.	-11327 Nov 25 j 21:55	16°03'11'52"	30.94183 AU
conjunction	-11333 Nov 11 j 17:56	2°03'49'54"	0°43'55"	morning rise	-11327 Dec 10 j 21:04	16°03'45'14"	
minimum elong	-11333 Nov 11 j 17:56	2°03'49'54"	0°44'15"	retrograde	-11326 Mar 12 j 14:44	18°03'43'53"	
max. Earth dist.	-11333 Nov 12 j 19:59	2°03'52'21"	30.98455 AU	opposition	-11326 May 31 j 23:54	17°03'18'28"	0°03'35"
morning rise	-11333 Nov 27 j 15:38	3°03'25'29"		min. Earth dist.	-11326 May 30 j 22:51	17°03'20'13"	28.94023 AU
retrograde	-11332 Feb 27 j 10:31	5°03'24'10"		direct	-11326 Aug 17 j 04:28	15°03'55'26"	
min. Earth dist.	-11332 May 17 j 02:16	4°03'00'33"	28.98020 AU	evening set	-11326 Nov 11 j 10:01	17°03'47'34"	
opposition	-11332 May 18 j 02:31	3°03'58'51"	0°43'38"				
direct	-11332 Aug 03 j 13:15	2°03'36'00"		conjunction	-11326 Nov 27 j 08:02	18°03'23'05"	0°00'16"
evening set	-11332 Oct 28 j 11:48	4°03'27'54"		minimum elong	-11326 Nov 27 j 08:02	18°03'23'05"	0°00'27"
				behind sun begin	-11326 Nov 27 j 01:31	18°03'22'30"	
conjunction	-11332 Nov 13 j 06:03	5°03'03'09"	0°37'49"	behind sun end	-11326 Nov 27 j 14:32	18°03'23'39"	
minimum elong	-11332 Nov 13 j 06:03	5°03'03'09"	0°38'08"	max. Earth dist.	-11326 Nov 28 j 10:57	18°03'25'36"	30.93800 AU
max. Earth dist.	-11332 Nov 14 j 08:46	5°03'05'39"	30.97499 AU	desc. node	-11326 Dec 12 j 09:16	18°03'56'42"	
morning rise	-11332 Nov 29 j 04:22	5°03'38'46"		morning rise	-11326 Dec 13 j 10:07	18°03'58'58"	
retrograde	-11331 Feb 28 j 23:49	7°03'37'25"		retrograde	-11325 Mar 15 j 02:54	20°03'57'38"	
opposition	-11331 May 20 j 14:10	6°03'12'03"	0°37'04"	min. Earth dist.	-11325 Jun 02 j 11:26	19°03'33'57"	28.93650 AU
min. Earth dist.	-11331 May 19 j 12:55	6°03'13'48"	28.97078 AU	opposition	-11325 Jun 03 j 11:26	19°03'32'16"	-0°03'11"
direct	-11331 Aug 06 j 01:32	4°03'49'07"		direct	-11325 Aug 19 j 14:53	18°03'09'14"	
evening set	-11331 Oct 30 j 23:21	6°03'41'02"		evening set	-11325 Nov 13 j 22:17	20°03'01'27"	
conjunction	-11331 Nov 15 j 18:06	7°03'16'18"	0°31'40"	conjunction	-11325 Nov 29 j 20:55	20°03'37'00"	-0°06'09"
minimum elong	-11331 Nov 15 j 18:06	7°03'16'18"	0°31'56"	minimum elong	-11325 Nov 29 j 20:55	20°03'37'00"	0°06'00"
max. Earth dist.	-11331 Nov 16 j 20:06	7°03'18'45"	30.96594 AU	behind sun begin	-11325 Nov 29 j 14:42	20°03'36'27"	
morning rise	-11331 Dec 01 j 17:13	7°03'51'59"		behind sun end	-11325 Nov 30 j 03:09	20°03'37'34"	
retrograde	-11330 Mar 03 j 11:23	9°03'50'36"		max. Earth dist.	-11325 Nov 30 j 23:17	20°03'39'28"	30.93435 AU
min. Earth dist.	-11330 May 22 j 01:23	8°03'26'53"	28.96228 AU	morning rise	-11325 Dec 15 j 23:33	21°03'12'56"	
opposition	-11330 May 23 j 01:48	8°03'25'11"	0°30'27"	retrograde	-11324 Mar 16 j 18:04	23°03'11'37"	
direct	-11330 Aug 08 j 11:09	7°03'02'12"		opposition	-11324 Jun 04 j 22:48	21°03'46'17"	-0°09'58"
evening set	-11330 Nov 02 j 10:46	8°03'54'07"		min. Earth dist.	-11324 Jun 03 j 22:26	21°03'47'59"	28.93265 AU
				direct	-11324 Aug 21 j 02:36	20°03'23'14"	
conjunction	-11330 Nov 18 j 06:21	9°03'29'27"	0°25'27"	evening set	-11324 Nov 15 j 10:53	22°03'15'33"	
minimum elong	-11330 Nov 18 j 06:21	9°03'29'27"	0°25'43"				
max. Earth dist.	-11330 Nov 19 j 09:35	9°03'32'00"	30.95805 AU	conjunction	-11324 Dec 01 j 10:00	22°03'51'09"	-0°12'27"
morning rise	-11330 Dec 04 j 05:57	10°03'05'10"		minimum elong	-11324 Dec 01 j 10:00	22°03'51'09"	0°12'20"

Attention, astronomical year style is used: The year -11324 in astronomical counting style is the year 11325 BCE in historical counting style.

behind sun begin	-11324 Dec 01 j 05:43	22° $\overline{10}$ 50'46		retrograde	-11317 Apr 02 j 11:31	8° $\overline{15}$ 51'30	
behind sun end	-11324 Dec 01 j 14:16	22° $\overline{10}$ 51'32		min. Earth dist.	-11317 Jun 20 j 09:19	7° $\overline{10}$ 27'30	28.88753 AU
max. Earth dist.	-11324 Dec 02 j 11:31	22° $\overline{10}$ 53'32	30.93008 AU	opposition	-11317 Jun 21 j 05:40	7° $\overline{10}$ 26'03	-0°56'26
morning rise	-11324 Dec 17 j 13:11	23° $\overline{10}$ 27'07		direct	-11317 Sep 06 j 08:44	6° $\overline{10}$ 02'33	
retrograde	-11323 Mar 19 j 07:57	25° $\overline{10}$ 25'48		evening set	-11317 Dec 02 j 05:05	7° $\overline{10}$ 55'19	
min. Earth dist.	-11323 Jun 06 j 11:36	24° $\overline{10}$ 02'05	28.92798 AU				
opposition	-11323 Jun 07 j 10:23	24° $\overline{10}$ 00'29	-0°16'44	conjunction	-11317 Dec 18 j 07:30	8° $\overline{10}$ 31'07	-0°55'43
direct	-11323 Aug 23 j 14:01	22° $\overline{10}$ 37'25		minimum elong	-11317 Dec 18 j 07:29	8° $\overline{10}$ 31'07	0°55'46
evening set	-11323 Nov 17 j 23:31	24° $\overline{10}$ 29'48		max. Earth dist.	-11317 Dec 19 j 05:45	8° $\overline{10}$ 33'11	30.88441 AU
				morning rise	-11316 Jan 03 j 13:18	9° $\overline{10}$ 07'15	
conjunction	-11323 Dec 03 j 23:16	25° $\overline{10}$ 05'27	-0°18'46	retrograde	-11316 Apr 03 j 22:59	11° $\overline{10}$ 05'36	
minimum elong	-11323 Dec 03 j 23:16	25° $\overline{10}$ 05'27	0°18'40	opposition	-11316 Jun 22 j 16:38	9° $\overline{10}$ 40'10	-1°02'48
max. Earth dist.	-11323 Dec 05 j 00:38	25° $\overline{10}$ 07'49	30.92491 AU	min. Earth dist.	-11316 Jun 21 j 21:23	9° $\overline{10}$ 41'32	28.88271 AU
morning rise	-11323 Dec 20 j 02:48	25° $\overline{10}$ 41'27		direct	-11316 Sep 07 j 18:44	8° $\overline{10}$ 16'36	
retrograde	-11322 Mar 21 j 21:55	27° $\overline{10}$ 40'07		evening set	-11316 Dec 03 j 18:20	10° $\overline{10}$ 09'28	
opposition	-11322 Jun 09 j 21:41	26° $\overline{10}$ 14'49	-0°23'28				
min. Earth dist.	-11322 Jun 08 j 22:34	26° $\overline{10}$ 16'26	28.92220 AU	conjunction	-11316 Dec 19 j 21:09	10° $\overline{10}$ 45'17	-1°01'38
direct	-11322 Aug 26 j 02:44	24° $\overline{10}$ 51'42		minimum elong	-11316 Dec 19 j 21:08	10° $\overline{10}$ 45'17	1°01'42
evening set	-11322 Nov 20 j 12:21	26° $\overline{10}$ 44'09		max. Earth dist.	-11316 Dec 20 j 18:42	10° $\overline{10}$ 47'17	30.88029 AU
				morning rise	-11315 Jan 05 j 03:15	11° $\overline{10}$ 21'25	
conjunction	-11322 Dec 06 j 12:28	27° $\overline{10}$ 19'50	-0°25'03	retrograde	-11315 Apr 06 j 12:58	13° $\overline{10}$ 19'44	
minimum elong	-11322 Dec 06 j 12:28	27° $\overline{10}$ 19'50	0°24'58	min. Earth dist.	-11315 Jun 24 j 07:48	11° $\overline{10}$ 55'43	28.87923 AU
max. Earth dist.	-11322 Dec 07 j 12:19	27° $\overline{10}$ 22'03	30.91858 AU	opposition	-11315 Jun 25 j 03:32	11° $\overline{10}$ 54'19	-1°09'05
morning rise	-11322 Dec 22 j 16:35	27° $\overline{10}$ 55'52		direct	-11315 Sep 10 j 06:59	10° $\overline{10}$ 30'42	
retrograde	-11321 Mar 24 j 10:24	29° $\overline{10}$ 54'30		evening set	-11315 Dec 06 j 07:44	12° $\overline{10}$ 23'40	
min. Earth dist.	-11321 Jun 11 j 11:34	28° $\overline{10}$ 30'41	28.91548 AU				
opposition	-11321 Jun 12 j 09:10	28° $\overline{10}$ 29'10	-0°30'10	conjunction	-11315 Dec 22 j 10:48	12° $\overline{10}$ 59'31	-1°07'28
direct	-11321 Aug 28 j 12:54	27° $\overline{10}$ 06'00		minimum elong	-11315 Dec 22 j 10:47	12° $\overline{10}$ 59'31	1°07'34
evening set	-11321 Nov 23 j 00:59	28° $\overline{10}$ 58'30		max. Earth dist.	-11315 Dec 23 j 07:45	13° $\overline{10}$ 01'28	30.87724 AU
				morning rise	-11314 Jan 07 j 17:07	13° $\overline{10}$ 35'40	
conjunction	-11321 Dec 09 j 01:48	29° $\overline{10}$ 34'13	-0°31'17	retrograde	-11314 Apr 09 j 01:39	15° $\overline{10}$ 33'57	
minimum elong	-11321 Dec 09 j 01:48	29° $\overline{10}$ 34'12	0°31'15	opposition	-11314 Jun 27 j 14:30	14° $\overline{10}$ 08'33	-1°15'16
max. Earth dist.	-11321 Dec 10 j 02:06	29° $\overline{10}$ 36'29	30.91147 AU	min. Earth dist.	-11314 Jun 26 j 20:12	14° $\overline{10}$ 09'51	28.87682 AU
	-11321 Dec 20 j 14:20	0° $\overline{10}$		direct	-11314 Sep 12 j 18:19	12° $\overline{10}$ 44'54	
morning rise	-11321 Dec 25 j 06:13	0° $\overline{10}$ 10'16		evening set	-11314 Dec 08 j 21:10	14° $\overline{10}$ 38'00	
retrograde	-11320 Mar 25 j 23:07	2° $\overline{10}$ 08'51					
opposition	-11320 Jun 13 j 20:25	0° $\overline{10}$ 43'30	-0°36'50	conjunction	-11314 Dec 25 j 00:38	15° $\overline{10}$ 13'51	-1°13'12
min. Earth dist.	-11320 Jun 12 j 22:51	0° $\overline{10}$ 45'01	28.90801 AU	minimum elong	-11314 Dec 25 j 00:38	15° $\overline{10}$ 13'51	1°13'19
	-11320 Jul 10 j 22:03	30° $\overline{10}$		max. Earth dist.	-11314 Dec 25 j 21:31	15° $\overline{10}$ 15'48	30.87531 AU
direct	-11320 Aug 30 j 01:04	29° $\overline{10}$ 20'15		morning rise	-11313 Jan 10 j 07:05	15° $\overline{10}$ 50'01	
	-11320 Oct 17 j 16:23	0° $\overline{10}$		retrograde	-11313 Apr 11 j 15:33	17° $\overline{10}$ 48'16	
evening set	-11320 Nov 24 j 14:02	1° $\overline{10}$ 12'48		min. Earth dist.	-11313 Jun 29 j 06:36	16° $\overline{10}$ 24'15	28.87522 AU
				opposition	-11313 Jun 30 j 01:18	16° $\overline{10}$ 22'55	-1°21'21
conjunction	-11320 Dec 10 j 15:10	1° $\overline{10}$ 48'32	-0°37'29	direct	-11313 Sep 15 j 07:01	14° $\overline{10}$ 59'15	
minimum elong	-11320 Dec 10 j 15:09	1° $\overline{10}$ 48'32	0°37'28	evening set	-11313 Dec 11 j 10:52	16° $\overline{10}$ 52'28	
max. Earth dist.	-11320 Dec 11 j 13:44	1° $\overline{10}$ 50'39	30.90391 AU				
morning rise	-11320 Dec 26 j 20:08	2° $\overline{10}$ 24'37		conjunction	-11313 Dec 27 j 14:30	17° $\overline{10}$ 28'20	-1°18'49
retrograde	-11319 Mar 28 j 12:03	4° $\overline{10}$ 23'09		minimum elong	-11313 Dec 27 j 14:29	17° $\overline{10}$ 28'20	1°18'59
min. Earth dist.	-11319 Jun 15 j 10:51	2° $\overline{10}$ 59'13	28.90056 AU	max. Earth dist.	-11313 Dec 28 j 09:55	17° $\overline{10}$ 30'09	30.87383 AU
opposition	-11319 Jun 16 j 07:32	2° $\overline{10}$ 57'45	-0°43'26	morning rise	-11312 Jan 12 j 21:16	18° $\overline{10}$ 04'31	
direct	-11319 Sep 01 j 10:39	1° $\overline{10}$ 34'25		retrograde	-11312 Apr 13 j 05:02	20° $\overline{10}$ 02'44	
evening set	-11319 Nov 27 j 03:00	3° $\overline{10}$ 27'02		opposition	-11312 Jul 01 j 12:18	18° $\overline{10}$ 37'26	-1°27'18
				min. Earth dist.	-11312 Jun 30 j 19:16	18° $\overline{10}$ 38'39	28.87391 AU
conjunction	-11319 Dec 13 j 04:41	4° $\overline{10}$ 02'47	-0°43'38	direct	-11312 Sep 16 j 17:24	17° $\overline{10}$ 13'44	
minimum elong	-11319 Dec 13 j 04:40	4° $\overline{10}$ 02'47	0°43'39	evening set	-11312 Dec 13 j 00:44	19° $\overline{10}$ 07'05	
max. Earth dist.	-11319 Dec 14 j 03:50	4° $\overline{10}$ 04'57	30.89652 AU				
morning rise	-11319 Dec 29 j 09:50	4° $\overline{10}$ 38'53		conjunction	-11312 Dec 29 j 04:48	19° $\overline{10}$ 42'59	-1°24'20
retrograde	-11318 Mar 30 j 22:27	6° $\overline{10}$ 37'21		minimum elong	-11312 Dec 29 j 04:47	19° $\overline{10}$ 42'59	1°24'30
opposition	-11318 Jun 18 j 18:38	5° $\overline{10}$ 11'56	-0°49'58	max. Earth dist.	-11312 Dec 30 j 00:18	19° $\overline{10}$ 44'48	30.87233 AU
min. Earth dist.	-11318 Jun 17 j 22:21	5° $\overline{10}$ 13'22	28.89350 AU	morning rise	-11311 Jan 14 j 11:31	20° $\overline{10}$ 19'09	
direct	-11318 Sep 03 j 22:21	3° $\overline{10}$ 48'31		retrograde	-11311 Apr 15 j 18:46	22° $\overline{10}$ 17'19	
evening set	-11318 Nov 29 j 15:56	5° $\overline{10}$ 41'12		opposition	-11311 Jul 03 j 23:04	20° $\overline{10}$ 52'05	-1°33'07
				min. Earth dist.	-11311 Jul 03 j 06:25	20° $\overline{10}$ 53'16	28.87219 AU
conjunction	-11318 Dec 15 j 17:55	6° $\overline{10}$ 16'58	-0°49'43	direct	-11311 Sep 19 j 06:08	19° $\overline{10}$ 28'21	
minimum elong	-11318 Dec 15 j 17:54	6° $\overline{10}$ 16'58	0°49'44	evening set	-11311 Dec 15 j 14:53	21° $\overline{10}$ 21'49	
max. Earth dist.	-11318 Dec 16 j 15:52	6° $\overline{10}$ 19'01	30.88993 AU				
morning rise	-11318 Dec 31 j 23:30	6° $\overline{10}$ 53'05		conjunction	-11311 Dec 31 j 19:00	21° $\overline{10}$ 57'44	-1°29'43

Attention, astronomical year style is used: The year -11310 in astronomical counting style is the year 11311 BCE in historical counting style.

minimum elong	-11311 Dec 31 j 18:59	21° $\underline{\text{D}}$ 57'44	1°29'55	opposition	-11304 Jul 19 j 02:08	6° M 34'40	-2°09'27
max. Earth dist.	-11310 Jan 01 j 12:17	21° $\underline{\text{D}}$ 59'21	30.87022 AU	min. Earth dist.	-11304 Jul 18 j 15:01	6° M 35'27	28.84859 AU
morning rise	-11310 Jan 17 j 01:59	22° $\underline{\text{D}}$ 33'55		direct	-11304 Oct 04 j 15:08	5° M 10'21	
retrograde	-11310 Apr 18 j 07:54	24° $\underline{\text{D}}$ 32'03		evening set	-11304 Dec 31 j 18:16	7° M 04'38	
opposition	-11310 Jul 06 j 10:04	23° $\underline{\text{D}}$ 06'50	-1°38'48				
min. Earth dist.	-11310 Jul 05 j 18:38	23° $\underline{\text{D}}$ 07'56	28.86981 AU	conjunction	-11303 Jan 16 j 23:26	7° M 40'35	-2°03'08
direct	-11310 Sep 21 j 16:27	21° $\underline{\text{D}}$ 43'03		minimum elong	-11303 Jan 16 j 23:24	7° M 40'34	2°03'28
evening set	-11310 Dec 18 j 04:47	23° $\underline{\text{D}}$ 36'38		max. Earth dist.	-11303 Jan 17 j 10:31	7° M 41'36	30.84665 AU
				morning rise	-11303 Feb 02 j 06:24	8° M 16'42	
conjunction	-11309 Jan 03 j 09:15	24° $\underline{\text{D}}$ 12'34	-1°34'58	retrograde	-11303 May 03 j 21:46	10° M 14'15	
minimum elong	-11309 Jan 03 j 09:14	24° $\underline{\text{D}}$ 12'33	1°35'10	opposition	-11303 Jul 21 j 12:39	8° M 49'10	-2°13'54
max. Earth dist.	-11309 Jan 04 j 02:32	24° $\underline{\text{D}}$ 14'10	30.86723 AU	min. Earth dist.	-11303 Jul 21 j 02:58	8° M 49'51	28.84807 AU
morning rise	-11309 Jan 19 j 16:09	24° $\underline{\text{D}}$ 48'45		direct	-11303 Oct 07 j 01:58	7° M 24'47	
retrograde	-11309 Apr 20 j 19:04	26° $\underline{\text{D}}$ 46'48		evening set	-11302 Jan 03 j 08:33	9° M 19'13	
opposition	-11309 Jul 08 j 20:59	25° $\underline{\text{D}}$ 21'37	-1°44'20				
min. Earth dist.	-11309 Jul 08 j 06:32	25° $\underline{\text{D}}$ 22'39	28.86637 AU	conjunction	-11302 Jan 19 j 13:55	9° M 55'10	-2°07'12
direct	-11309 Sep 24 j 04:33	23° $\underline{\text{D}}$ 57'46		minimum elong	-11302 Jan 19 j 13:54	9° M 55'10	2°07'35
evening set	-11309 Dec 20 j 19:02	25° $\underline{\text{D}}$ 51'27		max. Earth dist.	-11302 Jan 20 j 01:18	9° M 56'13	30.84682 AU
				morning rise	-11302 Feb 04 j 20:40	10° M 31'16	
conjunction	-11308 Jan 05 j 23:36	26° $\underline{\text{D}}$ 27'23	-1°40'04	retrograde	-11302 May 06 j 11:28	12° M 28'44	
minimum elong	-11308 Jan 05 j 23:35	26° $\underline{\text{D}}$ 27'23	1°40'19	opposition	-11302 Jul 23 j 23:09	11° M 03'43	-2°18'10
max. Earth dist.	-11308 Jan 06 j 14:46	26° $\underline{\text{D}}$ 28'48	30.86342 AU	min. Earth dist.	-11302 Jul 23 j 13:30	11° M 04'25	28.84897 AU
morning rise	-11308 Jan 22 j 06:43	27° $\underline{\text{D}}$ 03'34		direct	-11302 Oct 09 j 15:27	9° M 39'19	
retrograde	-11308 Apr 22 j 08:16	29° $\underline{\text{D}}$ 01'33		evening set	-11301 Jan 05 j 22:54	11° M 33'53	
opposition	-11308 Jul 10 j 07:41	27° $\underline{\text{D}}$ 36'23	-1°49'43				
min. Earth dist.	-11308 Jul 09 j 17:51	27° $\underline{\text{D}}$ 37'22	28.86232 AU	conjunction	-11301 Jan 22 j 04:10	12° M 09'50	-2°11'05
direct	-11308 Sep 25 j 15:18	26° $\underline{\text{D}}$ 12'25		minimum elong	-11301 Jan 22 j 04:09	12° M 09'50	2°11'28
evening set	-11308 Dec 22 j 09:17	28° $\underline{\text{D}}$ 06'14		max. Earth dist.	-11301 Jan 22 j 13:44	12° M 10'44	30.84835 AU
				morning rise	-11301 Feb 07 j 10:59	12° M 45'56	
conjunction	-11307 Jan 07 j 14:06	28° $\underline{\text{D}}$ 42'10	-1°45'01	retrograde	-11301 May 09 j 00:08	14° M 43'20	
minimum elong	-11307 Jan 07 j 14:04	28° $\underline{\text{D}}$ 42'10	1°45'16	opposition	-11301 Jul 26 j 09:41	13° M 18'24	-2°22'12
max. Earth dist.	-11307 Jan 08 j 04:59	28° $\underline{\text{D}}$ 43'33	30.85898 AU	min. Earth dist.	-11301 Jul 26 j 01:00	13° M 19'01	28.85122 AU
morning rise	-11307 Jan 23 j 21:08	29° $\underline{\text{D}}$ 18'20		direct	-11301 Oct 12 j 02:16	11° M 53'58	
	-11307 Feb 12 j 23:15	0° M		evening set	-11300 Jan 08 j 13:24	13° M 48'41	
retrograde	-11307 Apr 24 j 19:14	1° M 16'13					
	-11307 Jul 07 j 12:30	30° R $\underline{\text{D}}$		conjunction	-11300 Jan 24 j 18:52	14° M 24'39	-2°14'46
opposition	-11307 Jul 12 j 18:28	29° $\underline{\text{D}}$ 51'04	-1°54'55	minimum elong	-11300 Jan 24 j 18:51	14° M 24'39	2°15'11
min. Earth dist.	-11307 Jul 12 j 06:15	29° $\underline{\text{D}}$ 51'56	28.85787 AU	max. Earth dist.	-11300 Jan 25 j 04:38	14° M 25'33	30.85093 AU
direct	-11307 Sep 28 j 01:46	28° $\underline{\text{D}}$ 27'00			-11300 Feb 09 j 17:16	15° M	
	-11307 Dec 15 j 03:51	0° M		morning rise	-11300 Feb 10 j 01:23	15° M 00'44	
evening set	-11307 Dec 24 j 23:27	0° M 20'55		retrograde	-11300 May 10 j 12:01	16° M 58'03	
				opposition	-11300 Jul 27 j 20:05	15° M 33'13	-2°26'02
conjunction	-11306 Jan 10 j 04:22	0° M 56'51	-1°49'48	min. Earth dist.	-11300 Jul 27 j 12:24	15° M 33'46	28.85413 AU
minimum elong	-11306 Jan 10 j 04:21	0° M 56'51	1°50'06		-11300 Aug 16 j 19:07	15° R M	
max. Earth dist.	-11306 Jan 10 j 18:01	0° M 58'08	30.85461 AU	direct	-11300 Oct 13 j 14:23	14° M 08'46	
morning rise	-11306 Jan 26 j 11:27	1° M 33'01			-11300 Dec 08 j 21:44	15° M	
retrograde	-11306 Apr 27 j 08:00	3° M 30'49		evening set	-11299 Jan 10 j 04:14	16° M 03'39	
opposition	-11306 Jul 15 j 05:02	2° M 05'39	-1°59'57				
min. Earth dist.	-11306 Jul 14 j 16:40	2° M 06'32	28.85380 AU	conjunction	-11299 Jan 26 j 09:33	16° M 39'36	-2°18'15
direct	-11306 Sep 30 j 14:31	0° M 41'30		minimum elong	-11299 Jan 26 j 09:32	16° M 39'36	2°18'40
evening set	-11306 Dec 27 j 13:41	2° M 35'32		max. Earth dist.	-11299 Jan 26 j 17:09	16° M 40'19	30.85401 AU
				morning rise	-11299 Feb 11 j 16:04	17° M 15'41	
conjunction	-11305 Jan 12 j 18:40	3° M 11'28	-1°54'25	retrograde	-11299 May 13 j 01:57	19° M 12'55	
minimum elong	-11305 Jan 12 j 18:39	3° M 11'28	1°54'43	opposition	-11299 Jul 30 j 06:36	17° M 48'11	-2°29'39
max. Earth dist.	-11305 Jan 13 j 07:34	3° M 12'40	30.85074 AU	min. Earth dist.	-11299 Jul 29 j 23:30	17° M 48'41	28.85734 AU
morning rise	-11305 Jan 29 j 01:44	3° M 47'37		direct	-11299 Oct 16 j 01:04	16° M 23'42	
retrograde	-11305 Apr 29 j 19:31	5° M 45'20		evening set	-11298 Jan 12 j 18:54	18° M 18'43	
opposition	-11305 Jul 17 j 15:38	4° M 20'11	-2°04'48				
min. Earth dist.	-11305 Jul 17 j 04:53	4° M 20'56	28.85059 AU	conjunction	-11298 Jan 29 j 00:17	18° M 54'41	-2°21'31
direct	-11305 Oct 03 j 02:00	2° M 55'56		minimum elong	-11298 Jan 29 j 00:16	18° M 54'41	2°21'58
evening set	-11305 Dec 30 j 03:50	4° M 50'05		max. Earth dist.	-11298 Jan 29 j 07:35	18° M 55'21	30.85688 AU
				morning rise	-11298 Feb 14 j 06:28	19° M 30'44	
conjunction	-11304 Jan 15 j 09:04	5° M 26'02	-1°58'52	retrograde	-11298 May 15 j 12:37	21° M 27'55	
minimum elong	-11304 Jan 15 j 09:03	5° M 26'02	1°59'12	opposition	-11298 Aug 01 j 17:14	20° M 03'14	-2°33'02
max. Earth dist.	-11304 Jan 15 j 21:33	5° M 27'12	30.84809 AU	min. Earth dist.	-11298 Aug 01 j 11:58	20° M 03'37	28.86004 AU
morning rise	-11304 Jan 31 j 16:03	6° M 02'10		direct	-11298 Oct 18 j 11:33	18° M 38'43	
retrograde	-11304 May 01 j 08:46	7° M 59'47		evening set	-11297 Jan 15 j 09:46	20° M 33'53	

Attention, astronomical year style is used: The year -11297 in astronomical counting style is the year 11298 BCE in historical counting style.

conjunction	-11297 Jan 31 j 15:05	21° M 09'49	-2°24'35	max. Earth dist.	-11291 Feb 14 j 07:13	4° ♂ 38'47	30.86580 AU
minimum elong	-11297 Jan 31 j 15:04	21° M 09'49	2°25'02	morning rise	-11291 Mar 02 j 12:27	5° ♂ 14'43	
max. Earth dist.	-11297 Jan 31 j 20:31	21° M 10'20	30.85924 AU	retrograde	-11291 May 31 j 00:50	7° ♂ 10'58	
morning rise	-11297 Feb 16 j 21:12	21° M 45'52		opposition	-11291 Aug 16 j 18:23	5° ♂ 46'35	-2°49'57
retrograde	-11297 May 18 j 00:49	23° M 42'56		min. Earth dist.	-11291 Aug 16 j 19:32	5° ♂ 46'30	28.86974 AU
opposition	-11297 Aug 04 j 03:41	22° M 18'20	-2°36'10	direct	-11291 Nov 03 j 03:49	4° ♂ 21'30	
min. Earth dist.	-11297 Aug 03 j 22:42	22° M 18'41	28.86205 AU	evening set	-11290 Jan 31 j 17:12	6° ♂ 17'24	
direct	-11297 Oct 21 j 00:20	20° M 53'44					
evening set	-11296 Jan 18 j 00:41	22° M 49'02		conjunction	-11290 Feb 16 j 22:06	6° ♂ 53'17	-2°39'36
				minimum elong	-11290 Feb 16 j 22:06	6° ♂ 53'17	2°40'09
conjunction	-11296 Feb 03 j 06:01	23° M 24'58	-2°27'25	max. Earth dist.	-11290 Feb 16 j 19:41	6° ♂ 53'03	30.86947 AU
minimum elong	-11296 Feb 03 j 06:00	23° M 24'58	2°27'54	morning rise	-11290 Mar 05 j 02:44	7° ♂ 29'08	
max. Earth dist.	-11296 Feb 03 j 10:13	23° M 25'22	30.86066 AU	retrograde	-11290 Jun 02 j 14:14	9° ♂ 25'17	
morning rise	-11296 Feb 19 j 11:54	24° M 00'59		opposition	-11290 Aug 19 j 04:44	8° ♂ 00'58	-2°51'21
retrograde	-11296 May 19 j 11:52	25° M 57'56		min. Earth dist.	-11290 Aug 19 j 06:03	8° ♂ 00'53	28.87422 AU
opposition	-11296 Aug 05 j 14:22	24° M 33'23	-2°39'05	direct	-11290 Nov 05 j 15:21	6° ♂ 35'50	
min. Earth dist.	-11296 Aug 05 j 11:29	24° M 33'35	28.86315 AU	evening set	-11289 Feb 03 j 07:48	8° ♂ 31'52	
direct	-11296 Oct 22 j 11:35	23° M 08'42					
evening set	-11295 Jan 19 j 15:34	25° M 04'06		conjunction	-11289 Feb 19 j 12:46	9° ♂ 07'45	-2°40'47
				minimum elong	-11289 Feb 19 j 12:45	9° ♂ 07'45	2°41'21
conjunction	-11295 Feb 04 j 20:55	25° M 40'02	-2°30'02	max. Earth dist.	-11289 Feb 19 j 10:29	9° ♂ 07'32	30.87454 AU
minimum elong	-11295 Feb 04 j 20:54	25° M 40'02	2°30'31	morning rise	-11289 Mar 07 j 17:00	9° ♂ 43'35	
max. Earth dist.	-11295 Feb 04 j 23:56	25° M 40'19	30.86141 AU	retrograde	-11289 Jun 05 j 00:33	11° ♂ 39'37	
morning rise	-11295 Feb 21 j 02:35	26° M 16'01		opposition	-11289 Aug 21 j 15:05	10° ♂ 15'25	-2°52'30
retrograde	-11295 May 22 j 00:20	28° M 12'50		min. Earth dist.	-11289 Aug 21 j 17:55	10° ♂ 15'13	28.87996 AU
opposition	-11295 Aug 08 j 00:45	26° M 48'18	-2°41'45	direct	-11289 Nov 08 j 02:23	8° ♂ 50'16	
min. Earth dist.	-11295 Aug 07 j 21:59	26° M 48'30	28.86363 AU	evening set	-11288 Feb 05 j 22:33	10° ♂ 46'26	
direct	-11295 Oct 25 j 00:49	25° M 23'32					
evening set	-11294 Jan 22 j 06:28	27° M 19'02		conjunction	-11288 Feb 22 j 03:21	11° ♂ 22'18	-2°41'44
				minimum elong	-11288 Feb 22 j 03:21	11° ♂ 22'18	2°42'20
conjunction	-11294 Feb 07 j 11:40	27° M 54'57	-2°32'25	max. Earth dist.	-11288 Feb 21 j 23:29	11° ♂ 21'56	30.88091 AU
minimum elong	-11294 Feb 07 j 11:39	27° M 54'57	2°32'56	morning rise	-11288 Mar 09 j 07:29	11° ♂ 58'07	
max. Earth dist.	-11294 Feb 07 j 12:58	27° M 55'04	30.86172 AU	retrograde	-11288 Jun 06 j 12:47	13° ♂ 54'03	
morning rise	-11294 Feb 23 j 17:11	28° M 30'55		opposition	-11288 Aug 23 j 01:25	12° ♂ 29'58	-2°53'22
	-11294 Apr 13 j 15:41	0° ♂		min. Earth dist.	-11288 Aug 23 j 04:13	12° ♂ 29'46	28.88672 AU
retrograde	-11294 May 24 j 12:15	0° ♂ 27'36		direct	-11288 Nov 09 j 14:42	11° ♂ 04'48	
	-11294 Jul 04 j 22:08	30° ♂		evening set	-11287 Feb 07 j 13:18	13° ♂ 01'07	
opposition	-11294 Aug 10 j 11:17	29° M 03'05	-2°44'11				
min. Earth dist.	-11294 Aug 10 j 10:16	29° M 03'09	28.86413 AU	conjunction	-11287 Feb 23 j 18:01	13° ♂ 36'59	-2°42'26
direct	-11294 Oct 27 j 12:40	27° M 38'13		minimum elong	-11287 Feb 23 j 18:00	13° ♂ 36'59	2°43'02
evening set	-11293 Jan 24 j 21:02	29° M 33'48		max. Earth dist.	-11287 Feb 23 j 13:31	13° ♂ 36'33	30.88785 AU
	-11293 Feb 05 j 17:56	0° ♂		morning rise	-11287 Mar 11 j 21:46	14° ♂ 12'47	
				retrograde	-11287 Jun 08 j 23:46	16° ♂ 08'37	
conjunction	-11293 Feb 10 j 02:20	0° ♂ 09'43	-2°34'34	opposition	-11287 Aug 25 j 11:56	14° ♂ 44'39	-2°53'59
minimum elong	-11293 Feb 10 j 02:19	0° ♂ 09'42	2°35'05	min. Earth dist.	-11287 Aug 25 j 16:40	14° ♂ 44'19	28.89388 AU
max. Earth dist.	-11293 Feb 10 j 03:32	0° ♂ 09'49	30.86232 AU	direct	-11287 Nov 12 j 01:03	13° ♂ 19'30	
morning rise	-11293 Feb 26 j 07:33	0° ♂ 45'39		evening set	-11286 Feb 10 j 04:03	15° ♂ 15'57	
retrograde	-11293 May 27 j 00:38	2° ♂ 42'11					
opposition	-11293 Aug 12 j 21:38	1° ♂ 17'42	-2°46'21	conjunction	-11286 Feb 26 j 08:40	15° ♂ 51'48	-2°42'54
min. Earth dist.	-11293 Aug 12 j 21:00	1° ♂ 17'45	28.86496 AU	minimum elong	-11286 Feb 26 j 08:40	15° ♂ 51'48	2°43'30
	-11293 Oct 09 j 07:00	30° ♂		max. Earth dist.	-11286 Feb 26 j 03:00	15° ♂ 51'16	30.89502 AU
direct	-11293 Oct 30 j 03:04	29° M 52'44		morning rise	-11286 Mar 14 j 12:11	16° ♂ 27'35	
	-11293 Nov 19 j 18:55	0° ♂		retrograde	-11286 Jun 11 j 11:59	18° ♂ 23'19	
evening set	-11292 Jan 27 j 11:54	1° ♂ 48'26		opposition	-11286 Aug 27 j 22:21	16° ♂ 59'29	-2°54'20
				min. Earth dist.	-11286 Aug 28 j 03:11	16° ♂ 59'08	28.90084 AU
conjunction	-11292 Feb 12 j 16:58	2° ♂ 24'19	-2°36'29	direct	-11286 Nov 14 j 13:32	15° ♂ 34'18	
minimum elong	-11292 Feb 12 j 16:58	2° ♂ 24'19	2°37'01	evening set	-11285 Feb 12 j 18:47	17° ♂ 30'53	
max. Earth dist.	-11292 Feb 12 j 16:12	2° ♂ 24'15	30.86350 AU				
morning rise	-11292 Feb 28 j 22:06	3° ♂ 00'14		conjunction	-11285 Feb 28 j 23:14	18° ♂ 06'44	-2°43'06
retrograde	-11292 May 28 j 13:01	4° ♂ 56'38		minimum elong	-11285 Feb 28 j 23:14	18° ♂ 06'44	2°43'42
opposition	-11292 Aug 14 j 07:57	3° ♂ 32'11	-2°48'17	max. Earth dist.	-11285 Feb 28 j 15:51	18° ♂ 06'02	30.90158 AU
min. Earth dist.	-11292 Aug 14 j 08:21	3° ♂ 32'09	28.86679 AU	morning rise	-11285 Mar 17 j 02:32	18° ♂ 42'30	
direct	-11292 Oct 31 j 14:44	2° ♂ 07'08		retrograde	-11285 Jun 13 j 23:31	20° ♂ 38'08	
evening set	-11291 Jan 29 j 02:35	4° ♂ 02'57		opposition	-11285 Aug 30 j 08:59	19° ♂ 14'22	-2°54'26
				min. Earth dist.	-11285 Aug 30 j 15:45	19° ♂ 13'54	28.90704 AU
conjunction	-11291 Feb 14 j 07:45	4° ♂ 38'50	-2°38'09	direct	-11285 Nov 17 j 01:28	17° ♂ 49'11	
minimum elong	-11291 Feb 14 j 07:44	4° ♂ 38'50	2°38'42	evening set	-11284 Feb 15 j 09:35	19° ♂ 45'52	

Attention, astronomical year style is used: The year -11284 in astronomical counting style is the year 11285 BCE in historical counting style.

conjunction	-11284 Mar 02 j 14:03	20° \mathring{A} 21'42	-2°43'03	retrograde	-11278 Jun 29 j 08:49	6° \mathring{B} 18'57	
minimum elong	-11284 Mar 02 j 14:03	20° \mathring{A} 21'42	2°43'39	opposition	-11278 Sep 14 j 10:23	4° \mathring{B} 55'32	-2°47'45
max. Earth dist.	-11284 Mar 02 j 06:00	20° \mathring{A} 20'57	30.90724 AU	min. Earth dist.	-11278 Sep 14 j 23:32	4° \mathring{B} 54'36	28.93650 AU
morning rise	-11284 Mar 18 j 16:59	20° \mathring{A} 57'27		direct	-11278 Dec 02 j 19:20	3° \mathring{B} 29'54	
retrograde	-11284 Jun 15 j 11:30	22° \mathring{A} 52'57		evening set	-11277 Mar 03 j 14:29	5° \mathring{B} 26'59	
opposition	-11284 Aug 31 j 19:28	21° \mathring{A} 29'16	-2°54'15				
min. Earth dist.	-11284 Sep 01 j 02:58	21° \mathring{A} 28'44	28.91205 AU	conjunction	-11277 Mar 19 j 18:01	6° \mathring{B} 02'44	-2°35'58
direct	-11284 Nov 18 j 16:02	20° \mathring{A} 04'02		minimum elong	-11277 Mar 19 j 18:01	6° \mathring{B} 02'44	2°36'36
evening set	-11283 Feb 17 j 00:29	22° \mathring{A} 00'49		max. Earth dist.	-11277 Mar 19 j 02:58	6° \mathring{B} 01'20	30.93749 AU
				morning rise	-11277 Apr 04 j 19:09	6° \mathring{B} 38'18	
conjunction	-11283 Mar 05 j 04:40	22° \mathring{A} 36'38	-2°42'46	retrograde	-11277 Jul 01 j 19:28	8° \mathring{B} 32'42	
minimum elong	-11283 Mar 05 j 04:40	22° \mathring{A} 36'38	2°43'23	opposition	-11277 Sep 16 j 20:47	7° \mathring{B} 09'22	-2°45'47
max. Earth dist.	-11283 Mar 04 j 18:20	22° \mathring{A} 35'41	30.91175 AU	min. Earth dist.	-11277 Sep 17 j 09:32	7° \mathring{B} 08'28	28.94340 AU
morning rise	-11283 Mar 21 j 07:27	23° \mathring{A} 12'21		direct	-11277 Dec 05 j 08:09	5° \mathring{B} 43'42	
retrograde	-11283 Jun 17 j 23:53	25° \mathring{A} 07'43		evening set	-11276 Mar 05 j 04:38	7° \mathring{B} 40'51	
opposition	-11283 Sep 03 j 06:05	23° \mathring{A} 44'06	-2°53'49				
min. Earth dist.	-11283 Sep 03 j 14:51	23° \mathring{A} 43'28	28.91619 AU	conjunction	-11276 Mar 21 j 07:58	8° \mathring{B} 16'36	-2°34'00
direct	-11283 Nov 21 j 03:53	22° \mathring{A} 18'47		minimum elong	-11276 Mar 21 j 07:59	8° \mathring{B} 16'36	2°34'38
evening set	-11282 Feb 19 j 14:55	24° \mathring{A} 15'38		max. Earth dist.	-11276 Mar 20 j 15:58	8° \mathring{B} 15'06	30.94503 AU
				morning rise	-11276 Apr 06 j 08:48	8° \mathring{B} 52'08	
conjunction	-11282 Mar 07 j 19:09	24° \mathring{A} 51'27	-2°42'14	retrograde	-11276 Jul 03 j 05:40	10° \mathring{B} 46'24	
minimum elong	-11282 Mar 07 j 19:09	24° \mathring{A} 51'27	2°42'52	opposition	-11276 Sep 18 j 07:17	9° \mathring{B} 23'10	-2°43'33
max. Earth dist.	-11282 Mar 07 j 08:46	24° \mathring{A} 50'29	30.91548 AU	min. Earth dist.	-11276 Sep 18 j 21:24	9° \mathring{B} 22'10	28.95153 AU
morning rise	-11282 Mar 23 j 21:31	25° \mathring{A} 27'08		direct	-11276 Dec 06 j 19:27	7° \mathring{B} 57'29	
retrograde	-11282 Jun 20 j 11:44	27° \mathring{A} 22'21		evening set	-11275 Mar 07 j 18:38	9° \mathring{B} 54'42	
opposition	-11282 Sep 05 j 16:38	25° \mathring{A} 58'46	-2°53'07				
min. Earth dist.	-11282 Sep 06 j 02:32	25° \mathring{A} 58'04	28.91956 AU	conjunction	-11275 Mar 23 j 21:54	10° \mathring{B} 30'27	-2°31'48
direct	-11282 Nov 23 j 18:13	24° \mathring{A} 33'23		minimum elong	-11275 Mar 23 j 21:54	10° \mathring{B} 30'27	2°32'26
evening set	-11281 Feb 22 j 05:33	26° \mathring{A} 30'17		max. Earth dist.	-11275 Mar 23 j 05:51	10° \mathring{B} 28'57	30.95372 AU
				morning rise	-11275 Apr 08 j 22:25	11° \mathring{B} 05'58	
conjunction	-11281 Mar 10 j 09:30	27° \mathring{A} 06'06	-2°41'28	retrograde	-11275 Jul 05 j 16:43	13° \mathring{B} 00'07	
minimum elong	-11281 Mar 10 j 09:30	27° \mathring{A} 06'06	2°42'06	opposition	-11275 Sep 20 j 17:51	11° \mathring{B} 36'58	-2°41'04
max. Earth dist.	-11281 Mar 09 j 20:52	27° \mathring{A} 04'55	30.91879 AU	min. Earth dist.	-11275 Sep 21 j 08:11	11° \mathring{B} 35'58	28.96039 AU
morning rise	-11281 Mar 26 j 11:47	27° \mathring{A} 41'45		direct	-11275 Dec 09 j 08:41	10° \mathring{B} 11'18	
retrograde	-11281 Jun 23 j 00:44	29° \mathring{A} 36'47		evening set	-11274 Mar 10 j 08:33	12° \mathring{B} 08'36	
opposition	-11281 Sep 08 j 02:56	28° \mathring{A} 13'14	-2°52'10				
min. Earth dist.	-11281 Sep 08 j 13:17	28° \mathring{A} 12'30	28.92288 AU	conjunction	-11274 Mar 26 j 11:32	12° \mathring{B} 44'19	-2°29'22
direct	-11281 Nov 26 j 07:17	26° \mathring{A} 47'47		minimum elong	-11274 Mar 26 j 11:33	12° \mathring{B} 44'19	2°29'59
evening set	-11280 Feb 24 j 19:58	28° \mathring{A} 44'44		max. Earth dist.	-11274 Mar 25 j 17:55	12° \mathring{B} 42'41	30.96283 AU
				morning rise	-11274 Apr 11 j 11:53	13° \mathring{B} 19'50	
conjunction	-11280 Mar 11 j 23:57	29° \mathring{A} 20'32	-2°40'27	retrograde	-11274 Jul 08 j 04:47	15° \mathring{B} 13'53	
minimum elong	-11280 Mar 11 j 23:58	29° \mathring{A} 20'32	2°41'05	opposition	-11274 Sep 23 j 04:26	13° \mathring{B} 50'50	-2°38'21
max. Earth dist.	-11280 Mar 11 j 11:22	29° \mathring{A} 19'22	30.92216 AU	min. Earth dist.	-11274 Sep 23 j 19:45	13° \mathring{B} 49'45	28.96955 AU
morning rise	-11280 Mar 28 j 01:48	29° \mathring{A} 56'10		direct	-11274 Dec 11 j 19:52	12° \mathring{B} 25'10	
	-11280 Mar 29 j 20:13	0° \mathring{B}		evening set	-11273 Mar 12 j 22:27	14° \mathring{B} 22'32	
retrograde	-11280 Jun 24 j 10:32	1° \mathring{B} 51'02		max. Earth dist.	-11273 Mar 28 j 07:56	14° \mathring{B} 56'37	30.97183 AU
opposition	-11280 Sep 09 j 13:29	0° \mathring{B} 27'31	-2°50'57				
min. Earth dist.	-11280 Sep 10 j 01:25	0° \mathring{B} 26'41	28.92644 AU	conjunction	-11273 Mar 29 j 01:26	14° \mathring{B} 58'15	-2°26'43
	-11280 Sep 26 j 00:00	30° \mathring{R} \mathring{A}		minimum elong	-11273 Mar 29 j 01:27	14° \mathring{B} 58'15	2°27'20
direct	-11280 Nov 27 j 19:58	29° \mathring{A} 02'00		morning rise	-11273 Apr 14 j 01:22	15° \mathring{B} 33'44	
	-11279 Jan 27 j 21:21	0° \mathring{B}		retrograde	-11273 Jul 10 j 16:07	17° \mathring{B} 27'40	
evening set	-11279 Feb 26 j 10:18	0° \mathring{B} 58'59		opposition	-11273 Sep 25 j 15:01	16° \mathring{B} 04'43	-2°35'24
				min. Earth dist.	-11273 Sep 26 j 07:27	16° \mathring{B} 03'33	28.97812 AU
conjunction	-11279 Mar 14 j 14:01	1° \mathring{B} 34'46	-2°39'12	direct	-11273 Dec 14 j 10:04	14° \mathring{B} 39'04	
minimum elong	-11279 Mar 14 j 14:01	1° \mathring{B} 34'46	2°39'50	evening set	-11272 Mar 14 j 12:34	16° \mathring{B} 36'29	
max. Earth dist.	-11279 Mar 13 j 23:54	1° \mathring{B} 33'27	30.92615 AU				
morning rise	-11279 Mar 30 j 15:43	2° \mathring{B} 10'23		conjunction	-11272 Mar 30 j 15:12	17° \mathring{B} 12'11	-2°23'50
retrograde	-11279 Jun 26 j 22:21	4° \mathring{B} 05'04		minimum elong	-11272 Mar 30 j 15:13	17° \mathring{B} 12'11	2°24'26
opposition	-11279 Sep 11 j 23:52	2° \mathring{B} 41'37	-2°49'29	max. Earth dist.	-11272 Mar 29 j 19:29	17° \mathring{B} 10'21	30.98008 AU
min. Earth dist.	-11279 Sep 12 j 11:31	2° \mathring{B} 40'47	28.93087 AU	morning rise	-11272 Apr 15 j 15:00	17° \mathring{B} 47'39	
direct	-11279 Nov 30 j 08:45	1° \mathring{B} 16'01		retrograde	-11272 Jul 12 j 05:03	19° \mathring{B} 41'28	
evening set	-11278 Mar 01 j 00:28	3° \mathring{B} 13'03		opposition	-11272 Sep 27 j 01:45	18° \mathring{B} 18'35	-2°32'12
				min. Earth dist.	-11272 Sep 27 j 18:33	18° \mathring{B} 17'24	28.98589 AU
conjunction	-11278 Mar 17 j 04:07	3° \mathring{B} 48'49	-2°37'42	direct	-11272 Dec 15 j 23:15	16° \mathring{B} 52'55	
minimum elong	-11278 Mar 17 j 04:07	3° \mathring{B} 48'49	2°38'20	evening set	-11271 Mar 17 j 02:18	18° \mathring{B} 50'23	
max. Earth dist.	-11278 Mar 16 j 13:51	3° \mathring{B} 47'30	30.93109 AU	max. Earth dist.	-11271 Apr 01 j 09:13	19° \mathring{B} 24'15	30.98729 AU
morning rise	-11278 Apr 02 j 05:26	4° \mathring{B} 24'24					

Attention, astronomical year style is used: The year -11271 in astronomical counting style is the year 11272 BCE in historical counting style.

conjunction	-11271 Apr 02 j 04:54	19° $\overline{3}$ 26'05	-2°20'45	opposition	-11265 Oct 13 j 04:44	3° \approx 51'52	-2°03'59
minimum elong	-11271 Apr 02 j 04:55	19° $\overline{3}$ 26'05	2°21'22	min. Earth dist.	-11265 Oct 14 j 01:50	3° \approx 50'23	29.02896 AU
morning rise	-11271 Apr 18 j 04:13	20° $\overline{3}$ 01'31		direct	-11264 Jan 01 j 13:04	2° \approx 26'00	
retrograde	-11271 Jul 14 j 15:08	21° $\overline{3}$ 55'12		evening set	-11264 Apr 01 j 23:31	4° \approx 23'28	
opposition	-11271 Sep 29 j 12:36	20° $\overline{3}$ 32'24	-2°28'47	max. Earth dist.	-11264 Apr 17 j 01:26	4° \approx 56'54	31.03191 AU
min. Earth dist.	-11271 Sep 30 j 07:05	20° $\overline{3}$ 31'06	28.99252 AU				
direct	-11271 Dec 18 j 12:17	19° $\overline{3}$ 06'43		conjunction	-11264 Apr 18 j 00:39	4° \approx 59'04	-1°53'41
evening set	-11270 Mar 19 j 16:07	21° $\overline{3}$ 04'11		minimum elong	-11264 Apr 18 j 00:40	4° \approx 59'04	1°54'13
				morning rise	-11264 May 03 j 21:52	5° \approx 34'21	
conjunction	-11270 Apr 04 j 18:24	21° $\overline{3}$ 39'52	-2°17'27	retrograde	-11264 Jul 29 j 16:27	7° \approx 27'08	
minimum elong	-11270 Apr 04 j 18:25	21° $\overline{3}$ 39'53	2°18'03	opposition	-11264 Oct 14 j 15:37	6° \approx 04'39	-1°59'10
max. Earth dist.	-11270 Apr 03 j 20:56	21° $\overline{3}$ 37'52	30.99361 AU	min. Earth dist.	-11264 Oct 15 j 13:07	6° \approx 03'09	29.03806 AU
morning rise	-11270 Apr 20 j 17:35	22° $\overline{3}$ 15'17		direct	-11263 Jan 03 j 03:09	4° \approx 38'49	
retrograde	-11270 Jul 17 j 03:16	24° $\overline{3}$ 08'50		evening set	-11263 Apr 04 j 12:23	6° \approx 36'18	
opposition	-11270 Oct 01 j 23:11	22° $\overline{3}$ 46'05	-2°25'10				
min. Earth dist.	-11270 Oct 02 j 17:34	22° $\overline{3}$ 44'47	28.99836 AU	conjunction	-11263 Apr 20 j 13:05	7° \approx 11'53	-1°49'06
direct	-11270 Dec 21 j 01:31	21° $\overline{3}$ 20'21		minimum elong	-11263 Apr 20 j 13:06	7° \approx 11'53	1°49'39
evening set	-11269 Mar 22 j 05:39	23° $\overline{3}$ 17'50		max. Earth dist.	-11263 Apr 19 j 12:35	7° \approx 09'35	31.04176 AU
max. Earth dist.	-11269 Apr 06 j 10:12	23° $\overline{3}$ 51'30	30.99915 AU	morning rise	-11263 May 06 j 10:08	7° \approx 47'08	
				retrograde	-11263 Aug 01 j 04:41	9° \approx 39'51	
conjunction	-11269 Apr 07 j 07:53	23° $\overline{3}$ 53'31	-2°13'57	opposition	-11263 Oct 17 j 02:25	8° \approx 17'26	-1°54'11
minimum elong	-11269 Apr 07 j 07:54	23° $\overline{3}$ 53'31	2°14'34	min. Earth dist.	-11263 Oct 17 j 23:32	8° \approx 15'58	29.04836 AU
morning rise	-11269 Apr 23 j 06:41	24° $\overline{3}$ 28'55		direct	-11262 Jan 05 j 15:38	6° \approx 51'39	
retrograde	-11269 Jul 19 j 13:38	26° $\overline{3}$ 22'19		evening set	-11262 Apr 07 j 01:07	8° \approx 49'09	
opposition	-11269 Oct 04 j 09:58	24° $\overline{3}$ 59'36	-2°21'19	max. Earth dist.	-11262 Apr 22 j 02:00	9° \approx 22'30	31.05247 AU
min. Earth dist.	-11269 Oct 05 j 06:05	24° $\overline{3}$ 58'11	29.00362 AU				
direct	-11269 Dec 23 j 12:59	23° $\overline{3}$ 33'50		conjunction	-11262 Apr 23 j 01:43	9° \approx 24'43	-1°44'22
evening set	-11268 Mar 23 j 19:09	25° $\overline{3}$ 31'19		minimum elong	-11262 Apr 23 j 01:44	9° \approx 24'43	1°44'52
				morning rise	-11262 May 08 j 22:16	9° \approx 59'57	
conjunction	-11268 Apr 08 j 21:07	26° $\overline{3}$ 06'58	-2°10'16	retrograde	-11262 Aug 03 j 14:52	11° \approx 52'35	
minimum elong	-11268 Apr 08 j 21:08	26° $\overline{3}$ 06'58	2°10'51	opposition	-11262 Oct 19 j 13:16	10° \approx 30'16	-1°49'02
max. Earth dist.	-11268 Apr 07 j 22:32	26° $\overline{3}$ 04'52	31.00444 AU	min. Earth dist.	-11262 Oct 20 j 11:41	10° \approx 28'43	29.05917 AU
morning rise	-11268 Apr 24 j 19:42	26° $\overline{3}$ 42'21		direct	-11261 Jan 08 j 03:59	9° \approx 04'32	
retrograde	-11268 Jul 20 j 23:36	28° $\overline{3}$ 35'36		evening set	-11261 Apr 09 j 13:59	11° \approx 02'03	
opposition	-11268 Oct 05 j 20:35	27° $\overline{3}$ 12'55	-2°17'17				
min. Earth dist.	-11268 Oct 06 j 16:20	27° $\overline{3}$ 11'32	29.00878 AU	conjunction	-11261 Apr 25 j 14:09	11° \approx 37'36	-1°39'27
direct	-11268 Dec 25 j 02:24	25° $\overline{3}$ 47'07		minimum elong	-11261 Apr 25 j 14:10	11° \approx 37'36	1°39'58
evening set	-11267 Mar 26 j 08:30	27° $\overline{3}$ 44'35		max. Earth dist.	-11261 Apr 24 j 13:07	11° \approx 35'16	31.06344 AU
max. Earth dist.	-11267 Apr 10 j 10:59	28° $\overline{3}$ 18'04	31.00982 AU	morning rise	-11261 May 11 j 10:32	12° \approx 12'49	
				retrograde	-11261 Aug 06 j 03:33	14° \approx 05'22	
conjunction	-11267 Apr 11 j 10:14	28° $\overline{3}$ 20'14	-2°06'24	opposition	-11261 Oct 22 j 00:11	12° \approx 43'09	-1°43'43
minimum elong	-11267 Apr 11 j 10:15	28° $\overline{3}$ 20'14	2°06'58	min. Earth dist.	-11261 Oct 22 j 22:09	12° \approx 41'37	29.06989 AU
morning rise	-11267 Apr 27 j 08:29	28° $\overline{3}$ 55'35		direct	-11260 Jan 10 j 17:46	11° \approx 17'27	
	-11267 May 30 j 01:25	0° \approx		evening set	-11260 Apr 11 j 02:42	13° \approx 14'58	
retrograde	-11267 Jul 23 j 09:05	0° \approx 48'42		max. Earth dist.	-11260 Apr 26 j 01:48	13° \approx 48'11	31.07385 AU
	-11267 Sep 17 j 13:20	30° \overline{R} $\overline{3}$					
opposition	-11267 Oct 08 j 07:24	29° $\overline{3}$ 26'03	-2°13'02	conjunction	-11260 Apr 27 j 02:39	13° \approx 50'30	-1°34'25
min. Earth dist.	-11267 Oct 09 j 04:16	29° $\overline{3}$ 24'35	29.01451 AU	minimum elong	-11260 Apr 27 j 02:40	13° \approx 50'30	1°34'53
direct	-11267 Dec 27 j 13:32	28° $\overline{3}$ 00'13		morning rise	-11260 May 12 j 22:31	14° \approx 25'41	
evening set	-11266 Mar 28 j 21:27	29° $\overline{3}$ 57'40			-11260 May 29 j 07:06	15° \approx	
	-11266 Mar 29 j 23:06	0° \approx		retrograde	-11260 Aug 07 j 14:14	16° \approx 18'11	
					-11260 Oct 21 j 02:23	15° \overline{R} \approx	
conjunction	-11266 Apr 13 j 23:02	0° \approx 33'18	-2°02'20	opposition	-11260 Oct 23 j 11:22	14° \approx 56'02	-1°38'14
minimum elong	-11266 Apr 13 j 23:03	0° \approx 33'18	2°02'53	min. Earth dist.	-11260 Oct 24 j 10:52	14° \approx 54'23	29.07989 AU
max. Earth dist.	-11266 Apr 13 j 00:02	0° \approx 31'09	31.01605 AU	direct	-11259 Jan 12 j 06:03	13° \approx 30'22	
morning rise	-11266 Apr 29 j 20:58	1° \approx 08'38			-11259 Mar 31 j 11:13	15° \approx	
retrograde	-11266 Jul 25 j 18:56	3° \approx 01'37		evening set	-11259 Apr 13 j 15:28	15° \approx 27'53	
opposition	-11266 Oct 10 j 18:06	1° \approx 39'01	-2°08'36				
min. Earth dist.	-11266 Oct 11 j 14:50	1° \approx 37'34	29.02106 AU	conjunction	-11259 Apr 29 j 15:01	16° \approx 03'23	-1°29'13
direct	-11266 Dec 30 j 02:12	0° \approx 13'10		minimum elong	-11259 Apr 29 j 15:01	16° \approx 03'23	1°29'42
evening set	-11265 Mar 31 j 10:35	2° \approx 10'37		max. Earth dist.	-11259 Apr 28 j 13:20	16° \approx 00'59	31.08349 AU
max. Earth dist.	-11265 Apr 15 j 11:45	2° \approx 43'59	31.02328 AU	morning rise	-11259 May 15 j 10:36	16° \approx 38'33	
				retrograde	-11259 Aug 10 j 00:24	18° \approx 30'57	
conjunction	-11265 Apr 16 j 11:49	2° \approx 46'14	-1°58'06	opposition	-11259 Oct 25 j 22:29	17° \approx 08'51	-1°32'38
minimum elong	-11265 Apr 16 j 11:50	2° \approx 46'14	1°58'39	min. Earth dist.	-11259 Oct 26 j 21:32	17° \approx 07'15	29.08886 AU
morning rise	-11265 May 02 j 09:30	3° \approx 21'32		direct	-11258 Jan 14 j 19:35	15° \approx 43'13	
retrograde	-11265 Jul 28 j 05:58	5° \approx 14'25		evening set	-11258 Apr 16 j 03:57	17° \approx 40'41	

Attention, astronomical year style is used: The year -11258 in astronomical counting style is the year 11259 BCE in historical counting style.

max. Earth dist.	-11258 May 01 j 00:52	18°≈13'43	31.09193 AU	morning rise	-11252 May 30 j 18:18	2°≈03'59	
				retrograde	-11252 Aug 25 j 00:33	3°≈55'53	
conjunction	-11258 May 02 j 03:11	18°≈16'10	-1°23'55	opposition	-11252 Nov 10 j 05:00	2°≈33'54	-0°50'13
minimum elong	-11258 May 02 j 03:12	18°≈16'10	1°24'21	min. Earth dist.	-11252 Nov 11 j 05:00	2°≈32'14	29.13799 AU
morning rise	-11258 May 17 j 22:23	18°≈51'18		direct	-11251 Jan 30 j 10:37	1°≈08'17	
retrograde	-11258 Aug 12 j 10:09	20°≈43'38		evening set	-11251 May 01 j 16:19	3°≈05'26	
opposition	-11258 Oct 28 j 09:42	19°≈21'34	-1°26'53	max. Earth dist.	-11251 May 16 j 10:44	3°≈38'17	31.14200 AU
min. Earth dist.	-11258 Oct 29 j 09:57	19°≈19'52	29.09675 AU				
direct	-11257 Jan 17 j 06:45	17°≈55'55		conjunction	-11251 May 17 j 12:49	3°≈40'43	-0°43'55
evening set	-11257 Apr 18 j 16:26	19°≈53'21		minimum elong	-11251 May 17 j 12:49	3°≈40'43	0°44'15
				morning rise	-11251 Jun 02 j 05:03	4°≈15'38	
conjunction	-11257 May 04 j 15:23	20°≈28'49	-1°18'29	retrograde	-11251 Aug 27 j 11:08	6°≈07'32	
minimum elong	-11257 May 04 j 15:24	20°≈28'49	1°18'55	opposition	-11251 Nov 12 j 16:27	4°≈45'35	-0°43'48
max. Earth dist.	-11257 May 03 j 13:03	20°≈26'21	31.09938 AU	min. Earth dist.	-11251 Nov 13 j 17:15	4°≈43'52	29.14735 AU
morning rise	-11257 May 20 j 10:11	21°≈03'55		direct	-11250 Feb 01 j 22:44	3°≈20'03	
retrograde	-11257 Aug 14 j 19:39	22°≈56'08		evening set	-11250 May 04 j 03:52	5°≈17'10	
opposition	-11257 Oct 30 j 20:46	21°≈34'06	-1°21'01				
min. Earth dist.	-11257 Oct 31 j 21:07	21°≈32'24	29.10355 AU	conjunction	-11250 May 19 j 23:52	5°≈52'25	-0°37'53
direct	-11256 Jan 19 j 19:34	20°≈08'27		minimum elong	-11250 May 19 j 23:53	5°≈52'25	0°38'10
evening set	-11256 Apr 20 j 04:53	22°≈05'49		max. Earth dist.	-11250 May 18 j 21:48	5°≈49'59	31.15185 AU
max. Earth dist.	-11256 May 04 j 23:57	22°≈38'41	31.10593 AU	morning rise	-11250 Jun 04 j 15:47	6°≈27'19	
				retrograde	-11250 Aug 29 j 21:16	8°≈19'12	
conjunction	-11256 May 06 j 03:22	22°≈41'15	-1°12'57	opposition	-11250 Nov 15 j 03:48	6°≈57'20	-0°37'19
minimum elong	-11256 May 06 j 03:23	22°≈41'15	1°13'21	min. Earth dist.	-11250 Nov 16 j 03:34	6°≈55'42	29.15724 AU
morning rise	-11256 May 21 j 21:50	23°≈16'20		direct	-11249 Feb 04 j 11:56	5°≈31'53	
retrograde	-11256 Aug 16 j 06:05	25°≈08'28		evening set	-11249 May 06 j 15:30	7°≈29'00	
opposition	-11256 Nov 01 j 08:00	23°≈46'26	-1°15'03	max. Earth dist.	-11249 May 21 j 08:53	8°≈01'46	31.16182 AU
min. Earth dist.	-11256 Nov 02 j 08:43	23°≈44'43	29.10986 AU				
direct	-11255 Jan 21 j 06:56	22°≈20'46		conjunction	-11249 May 22 j 11:00	8°≈04'13	-0°31'48
evening set	-11255 Apr 22 j 16:52	24°≈18'05		minimum elong	-11249 May 22 j 11:00	8°≈04'13	0°32'04
				morning rise	-11249 Jun 07 j 02:24	8°≈39'05	
conjunction	-11255 May 08 j 15:07	24°≈53'29	-1°07'18	retrograde	-11249 Sep 01 j 07:25	10°≈30'59	
minimum elong	-11255 May 08 j 15:07	24°≈53'29	1°07'43	opposition	-11249 Nov 17 j 15:18	9°≈09'11	-0°30'47
max. Earth dist.	-11255 May 07 j 12:40	24°≈51'00	31.11214 AU	min. Earth dist.	-11249 Nov 18 j 15:48	9°≈07'29	29.16719 AU
morning rise	-11255 May 24 j 09:04	25°≈28'31		direct	-11248 Feb 06 j 22:54	7°≈43'49	
retrograde	-11255 Aug 18 j 15:20	27°≈20'35		evening set	-11248 May 08 j 03:05	9°≈40'54	
opposition	-11255 Nov 03 j 19:19	25°≈58'33	-1°08'59				
min. Earth dist.	-11255 Nov 04 j 20:24	25°≈56'48	29.11592 AU	conjunction	-11248 May 23 j 22:07	10°≈16'06	-0°25'40
direct	-11254 Jan 23 j 20:25	24°≈32'52		minimum elong	-11248 May 23 j 22:07	10°≈16'06	0°25'54
evening set	-11254 Apr 25 j 04:58	26°≈30'07		max. Earth dist.	-11248 May 22 j 20:32	10°≈13'42	31.17159 AU
max. Earth dist.	-11254 May 09 j 23:08	27°≈02'55	31.11843 AU	morning rise	-11248 Jun 08 j 13:00	10°≈50'56	
				retrograde	-11248 Sep 02 j 17:13	12°≈42'51	
conjunction	-11254 May 11 j 02:39	27°≈05'29	-1°01'35	opposition	-11248 Nov 19 j 03:01	11°≈21'07	-0°24'12
minimum elong	-11254 May 11 j 02:40	27°≈05'29	1°01'57	min. Earth dist.	-11248 Nov 20 j 03:13	11°≈19'27	29.17645 AU
morning rise	-11254 May 26 j 20:22	27°≈40'30		direct	-11247 Feb 08 j 11:24	9°≈55'49	
retrograde	-11254 Aug 21 j 02:46	29°≈32'30		evening set	-11247 May 10 j 14:34	11°≈52'53	
opposition	-11254 Nov 06 j 06:20	28°≈10'27	-1°02'48	max. Earth dist.	-11247 May 25 j 06:37	12°≈25'34	31.18038 AU
min. Earth dist.	-11254 Nov 07 j 06:49	28°≈08'45	29.12246 AU				
direct	-11253 Jan 26 j 08:13	26°≈44'46		conjunction	-11247 May 26 j 08:59	12°≈28'02	-0°19'30
evening set	-11253 Apr 27 j 16:48	28°≈41'59		minimum elong	-11247 May 26 j 08:59	12°≈28'02	0°19'44
max. Earth dist.	-11253 May 12 j 11:50	29°≈14'51	31.12530 AU	morning rise	-11247 Jun 10 j 23:27	13°≈02'51	
				retrograde	-11247 Sep 05 j 03:46	14°≈54'47	
conjunction	-11253 May 13 j 14:14	29°≈17'19	-0°55'46	opposition	-11247 Nov 21 j 14:45	13°≈33'05	-0°17'36
minimum elong	-11253 May 13 j 14:15	29°≈17'19	0°56'08	min. Earth dist.	-11247 Nov 22 j 15:06	13°≈31'24	29.18475 AU
morning rise	-11253 May 29 j 07:21	29°≈52'18		direct	-11246 Feb 10 j 22:29	12°≈07'51	
	-11253 Jun 01 j 20:23	0°≈		evening set	-11246 May 13 j 02:00	14°≈04'52	
retrograde	-11253 Aug 23 j 12:26	1°≈44'15					
opposition	-11253 Nov 08 j 17:43	0°≈22'13	-0°56'33	conjunction	-11246 May 28 j 20:01	14°≈39'59	-0°13'19
min. Earth dist.	-11253 Nov 09 j 18:56	0°≈20'28	29.12969 AU	minimum elong	-11246 May 28 j 20:02	14°≈39'59	0°13'31
	-11253 Nov 22 j 06:07	30°≈		behind sun begin	-11246 May 28 j 16:24	14°≈39'40	
direct	-11252 Jan 28 j 20:51	28°≈56'34		behind sun end	-11246 May 28 j 23:39	14°≈40'19	
	-11252 Apr 02 j 15:51	0°≈		max. Earth dist.	-11246 May 27 j 18:37	14°≈37'36	31.18798 AU
evening set	-11252 Apr 29 j 04:39	0°≈53'44		morning rise	-11246 Jun 13 j 09:53	15°≈14'46	
max. Earth dist.	-11252 May 13 j 22:28	1°≈26'31	31.13314 AU	retrograde	-11246 Sep 07 j 12:46	17°≈06'42	
				opposition	-11246 Nov 24 j 02:26	15°≈45'01	-0°10'58
conjunction	-11252 May 15 j 01:28	1°≈29'02	-0°49'52	min. Earth dist.	-11246 Nov 25 j 03:14	15°≈43'19	29.19158 AU
minimum elong	-11252 May 15 j 01:29	1°≈29'02	0°50'12	direct	-11245 Feb 13 j 10:59	14°≈19'50	

Attention, astronomical year style is used: The year -11245 in astronomical counting style is the year 11246 BCE in historical counting style.

evening set	-11245 May 15 j 13:33	16° \mathbf{K} 16'47			-11240 Oct 20 j 15:57	30° \mathbf{R} \mathbf{K}	
max. Earth dist.	-11245 May 30 j 04:15	16° \mathbf{K} 49'23	31.19418 AU	opposition	-11240 Dec 07 j 01:34	28° \mathbf{K} 53'21	0°28'42
				min. Earth dist.	-11240 Dec 08 j 00:36	28° \mathbf{K} 51'47	29.21756 AU
conjunction	-11245 May 31 j 06:52	16° \mathbf{K} 51'53	-0°07'07	direct	-11239 Feb 26 j 14:33	27° \mathbf{K} 28'15	
minimum elong	-11245 May 31 j 06:51	16° \mathbf{K} 51'52	0°07'19	evening set	-11239 May 28 j 06:48	29° \mathbf{K} 24'45	
behind sun begin	-11245 May 31 j 00:56	16° \mathbf{K} 51'21					
behind sun end	-11245 May 31 j 12:47	16° \mathbf{K} 52'24		conjunction	-11239 Jun 12 j 20:45	29° \mathbf{K} 59'33	0°30'00
morning rise	-11245 Jun 15 j 20:22	17° \mathbf{K} 26'37		minimum elong	-11239 Jun 12 j 20:45	29° \mathbf{K} 59'33	0°29'56
retrograde	-11245 Sep 10 j 00:17	19° \mathbf{K} 18'34		max. Earth dist.	-11239 Jun 11 j 21:40	29° \mathbf{K} 57'23	31.21996 AU
opposition	-11245 Nov 26 j 14:12	17° \mathbf{K} 56'52	-0°04'19		-11239 Jun 13 j 01:34	0° \mathbf{Y}	
min. Earth dist.	-11245 Nov 27 j 14:23	17° \mathbf{K} 55'12	29.19715 AU	morning rise	-11239 Jun 28 j 07:01	0° \mathbf{Y} 34'03	
direct	-11244 Feb 15 j 21:55	16° \mathbf{K} 31'42		retrograde	-11239 Sep 22 j 13:46	2° \mathbf{Y} 26'04	
evening set	-11244 May 17 j 00:42	18° \mathbf{K} 28'36		opposition	-11239 Dec 09 j 13:31	1° \mathbf{Y} 04'12	0°35'12
				min. Earth dist.	-11239 Dec 10 j 11:31	1° \mathbf{Y} 02'41	29.22329 AU
conjunction	-11244 Jun 01 j 17:36	19° \mathbf{K} 03'38	-0°00'53		-11238 Jan 23 j 00:09	30° \mathbf{R} \mathbf{K}	
minimum elong	-11244 Jun 01 j 17:37	19° \mathbf{K} 03'38	0°01'03	direct	-11238 Mar 01 j 03:53	29° \mathbf{K} 39'09	
behind sun begin	-11244 Jun 01 j 11:10	19° \mathbf{K} 03'03			-11238 Apr 06 j 07:09	0° \mathbf{Y}	
behind sun end	-11244 Jun 02 j 00:04	19° \mathbf{K} 04'13		evening set	-11238 May 30 j 17:25	1° \mathbf{Y} 35'35	
max. Earth dist.	-11244 May 31 j 16:05	19° \mathbf{K} 01'15	31.19910 AU	max. Earth dist.	-11238 Jun 14 j 07:26	2° \mathbf{Y} 08'10	31.22615 AU
morning rise	-11244 Jun 17 j 06:26	19° \mathbf{K} 38'21					
asc. node	-11244 Jul 22 j 18:16	20° \mathbf{K} 47'29		conjunction	-11238 Jun 15 j 06:39	2° \mathbf{Y} 10'21	0°36'03
retrograde	-11244 Sep 11 j 09:54	21° \mathbf{K} 30'17		minimum elong	-11238 Jun 15 j 06:39	2° \mathbf{Y} 10'21	0°36'02
opposition	-11244 Nov 28 j 02:10	20° \mathbf{K} 08'34	0°02'20	morning rise	-11238 Jun 30 j 16:30	2° \mathbf{Y} 44'49	
min. Earth dist.	-11244 Nov 29 j 03:10	20° \mathbf{K} 06'51	29.20152 AU	retrograde	-11238 Sep 24 j 23:58	4° \mathbf{Y} 36'54	
direct	-11243 Feb 17 j 10:42	18° \mathbf{K} 43'25		opposition	-11238 Dec 12 j 01:22	3° \mathbf{Y} 15'02	0°41'39
evening set	-11243 May 19 j 11:54	20° \mathbf{K} 40'14		min. Earth dist.	-11238 Dec 12 j 22:49	3° \mathbf{Y} 13'34	29.22995 AU
max. Earth dist.	-11243 Jun 03 j 01:58	21° \mathbf{K} 12'46	31.20317 AU	direct	-11237 Mar 03 j 14:25	1° \mathbf{Y} 50'04	
				evening set	-11237 Jun 02 j 03:53	3° \mathbf{Y} 46'27	
conjunction	-11243 Jun 04 j 04:07	21° \mathbf{K} 15'13	0°05'26				
minimum elong	-11243 Jun 04 j 04:07	21° \mathbf{K} 15'13	0°05'17	conjunction	-11237 Jun 17 j 16:39	4° \mathbf{Y} 21'11	0°42'04
behind sun begin	-11243 Jun 03 j 21:52	21° \mathbf{K} 14'39		minimum elong	-11237 Jun 17 j 16:38	4° \mathbf{Y} 21'11	0°42'03
behind sun end	-11243 Jun 04 j 10:21	21° \mathbf{K} 15'47		max. Earth dist.	-11237 Jun 16 j 19:09	4° \mathbf{Y} 19'09	31.23301 AU
morning rise	-11243 Jun 19 j 16:35	21° \mathbf{K} 49'53		morning rise	-11237 Jul 03 j 01:48	4° \mathbf{Y} 55'37	
retrograde	-11243 Sep 13 j 21:57	23° \mathbf{K} 41'49		retrograde	-11237 Sep 27 j 08:43	6° \mathbf{Y} 47'46	
opposition	-11243 Nov 30 j 13:52	22° \mathbf{K} 20'04	0°08'57	opposition	-11237 Dec 14 j 13:32	5° \mathbf{Y} 25'55	0°48'03
min. Earth dist.	-11243 Dec 01 j 13:43	22° \mathbf{K} 18'26	29.20529 AU	min. Earth dist.	-11237 Dec 15 j 10:47	5° \mathbf{Y} 24'28	29.23685 AU
direct	-11242 Feb 20 j 00:30	20° \mathbf{K} 54'54		direct	-11236 Mar 05 j 02:28	4° \mathbf{Y} 01'03	
evening set	-11242 May 21 j 22:45	22° \mathbf{K} 51'38		evening set	-11236 Jun 03 j 14:22	5° \mathbf{Y} 57'23	
				max. Earth dist.	-11236 Jun 18 j 04:21	6° \mathbf{Y} 30'00	31.23990 AU
conjunction	-11242 Jun 06 j 14:31	23° \mathbf{K} 26'35	0°11'36				
minimum elong	-11242 Jun 06 j 14:31	23° \mathbf{K} 26'35	0°11'30	conjunction	-11236 Jun 19 j 02:19	6° \mathbf{Y} 32'04	0°48'01
behind sun begin	-11242 Jun 06 j 09:50	23° \mathbf{K} 26'10		minimum elong	-11236 Jun 19 j 02:18	6° \mathbf{Y} 32'04	0°48'03
behind sun end	-11242 Jun 06 j 19:12	23° \mathbf{K} 27'00		morning rise	-11236 Jul 04 j 11:06	7° \mathbf{Y} 06'28	
max. Earth dist.	-11242 Jun 05 j 13:19	23° \mathbf{K} 24'14	31.20671 AU	retrograde	-11236 Sep 28 j 20:26	8° \mathbf{Y} 58'43	
morning rise	-11242 Jun 22 j 02:23	24° \mathbf{K} 01'13		opposition	-11236 Dec 16 j 01:44	7° \mathbf{Y} 36'53	0°54'23
retrograde	-11242 Sep 16 j 08:09	25° \mathbf{K} 53'09		min. Earth dist.	-11236 Dec 16 j 21:49	7° \mathbf{Y} 35'31	29.24365 AU
opposition	-11242 Dec 03 j 01:46	24° \mathbf{K} 31'21	0°15'34	direct	-11235 Mar 07 j 12:43	6° \mathbf{Y} 12'06	
min. Earth dist.	-11242 Dec 04 j 02:18	24° \mathbf{K} 29'40	29.20886 AU	evening set	-11235 Jun 06 j 00:46	8° \mathbf{Y} 08'24	
direct	-11241 Feb 22 j 12:45	23° \mathbf{K} 06'12					
evening set	-11241 May 24 j 09:35	25° \mathbf{K} 02'51		conjunction	-11235 Jun 21 j 12:14	8° \mathbf{Y} 43'02	0°53'54
max. Earth dist.	-11241 Jun 07 j 23:52	25° \mathbf{K} 35'25	31.21041 AU	minimum elong	-11235 Jun 21 j 12:13	8° \mathbf{Y} 43'02	0°53'56
				max. Earth dist.	-11235 Jun 20 j 15:41	8° \mathbf{Y} 41'06	31.24626 AU
conjunction	-11241 Jun 09 j 00:41	25° \mathbf{K} 37'44	0°17'45	morning rise	-11235 Jul 06 j 20:19	9° \mathbf{Y} 17'25	
minimum elong	-11241 Jun 09 j 00:41	25° \mathbf{K} 37'44	0°17'40	retrograde	-11235 Oct 01 j 06:17	11° \mathbf{Y} 09'46	
morning rise	-11241 Jun 24 j 12:05	26° \mathbf{K} 12'19		opposition	-11235 Dec 18 j 14:02	9° \mathbf{Y} 47'56	1°00'38
retrograde	-11241 Sep 18 j 18:00	28° \mathbf{K} 04'16		min. Earth dist.	-11235 Dec 19 j 10:41	9° \mathbf{Y} 46'32	29.24965 AU
opposition	-11241 Dec 05 j 13:32	26° \mathbf{K} 42'25	0°22'09	direct	-11234 Mar 10 j 00:36	8° \mathbf{Y} 23'14	
min. Earth dist.	-11241 Dec 06 j 12:36	26° \mathbf{K} 40'51	29.21274 AU	evening set	-11234 Jun 08 j 11:15	10° \mathbf{Y} 19'29	
direct	-11240 Feb 25 j 02:33	25° \mathbf{K} 17'17					
evening set	-11240 May 25 j 20:21	27° \mathbf{K} 13'51		conjunction	-11234 Jun 23 j 21:57	10° \mathbf{Y} 54'04	0°59'42
max. Earth dist.	-11240 Jun 09 j 10:25	27° \mathbf{K} 46'25	31.21463 AU	minimum elong	-11234 Jun 23 j 21:56	10° \mathbf{Y} 54'04	0°59'47
				max. Earth dist.	-11234 Jun 23 j 01:00	10° \mathbf{Y} 52'06	31.25171 AU
conjunction	-11240 Jun 10 j 10:50	27° \mathbf{K} 48'43	0°23'54	morning rise	-11234 Jul 09 j 05:39	11° \mathbf{Y} 28'24	
minimum elong	-11240 Jun 10 j 10:49	27° \mathbf{K} 48'43	0°23'50	retrograde	-11234 Oct 03 j 18:31	13° \mathbf{Y} 20'51	
morning rise	-11240 Jun 25 j 21:40	28° \mathbf{K} 23'15		opposition	-11234 Dec 21 j 02:17	11° \mathbf{Y} 59'00	1°06'47
	-11240 Aug 21 j 07:29	0° \mathbf{Y}		min. Earth dist.	-11234 Dec 21 j 21:37	11° \mathbf{Y} 57'42	29.25450 AU
retrograde	-11240 Sep 20 j 04:29	0° \mathbf{Y} 15'13		direct	-11233 Mar 12 j 13:04	10° \mathbf{Y} 34'22	

Attention, astronomical year style is used: The year -11233 in astronomical counting style is the year 11234 BCE in historical counting style.

evening set	-11233 Jun 10 j 21:36	12° Υ 30'34		opposition	-11226 Jan 05 j 17:25	27° Υ 14'39	1°46'38
max. Earth dist.	-11233 Jun 25 j 11:38	13° Υ 03'14	31.25576 AU	min. Earth dist.	-11226 Jan 06 j 07:50	27° Υ 13'41	29.26710 AU
				direct	-11226 Mar 28 j 02:04	25° Υ 50'18	
conjunction	-11233 Jun 26 j 07:44	13° Υ 05'07	1°05'25	evening set	-11226 Jun 25 j 19:17	27° Υ 45'56	
minimum elong	-11233 Jun 26 j 07:43	13° Υ 05'07	1°05'30	max. Earth dist.	-11226 Jul 10 j 10:51	28° Υ 18'48	31.26760 AU
morning rise	-11233 Jul 11 j 14:45	13° Υ 39'25					
retrograde	-11233 Oct 06 j 05:20	15° Υ 31'57		conjunction	-11226 Jul 11 j 01:10	28° Υ 20'09	1°42'16
opposition	-11233 Dec 23 j 14:48	14° Υ 10'06	1°12'51	minimum elong	-11226 Jul 11 j 01:09	28° Υ 20'09	1°42'32
min. Earth dist.	-11233 Dec 24 j 10:47	14° Υ 08'44	29.25799 AU	morning rise	-11226 Jul 26 j 04:42	28° Υ 54'13	
direct	-11232 Mar 14 j 00:30	12° Υ 45'31			-11226 Aug 28 j 08:53	0° \mathcal{B}	
evening set	-11232 Jun 12 j 07:57	14° Υ 41'39		retrograde	-11226 Oct 21 j 03:48	0° \mathcal{B} 47'24	
					-11226 Dec 17 j 02:11	30° $\mathcal{R}\Upsilon$	
conjunction	-11232 Jun 27 j 17:25	15° Υ 16'09	1°11'02	opposition	-11225 Jan 08 j 06:01	29° Υ 25'12	1°51'47
minimum elong	-11232 Jun 27 j 17:25	15° Υ 16'09	1°11'10	min. Earth dist.	-11225 Jan 08 j 20:19	29° Υ 24'15	29.27053 AU
max. Earth dist.	-11232 Jun 26 j 21:42	15° Υ 14'17	31.25862 AU	direct	-11225 Mar 30 j 13:33	28° Υ 00'57	
morning rise	-11232 Jul 12 j 23:58	15° Υ 50'24		evening set	-11225 Jun 28 j 04:57	29° Υ 56'30	
retrograde	-11232 Oct 07 j 15:55	17° Υ 43'01			-11225 Jun 29 j 18:53	0° \mathcal{B}	
opposition	-11232 Dec 25 j 03:13	16° Υ 21'08	1°18'48				
min. Earth dist.	-11232 Dec 25 j 21:47	16° Υ 19'52	29.26023 AU	conjunction	-11225 Jul 13 j 10:08	0° \mathcal{B} 30'41	1°47'00
direct	-11231 Mar 16 j 14:12	14° Υ 56'35		minimum elong	-11225 Jul 13 j 10:07	0° \mathcal{B} 30'41	1°47'16
evening set	-11231 Jun 14 j 18:04	16° Υ 52'38		max. Earth dist.	-11225 Jul 12 j 20:14	0° \mathcal{B} 29'23	31.27144 AU
max. Earth dist.	-11231 Jun 29 j 07:22	17° Υ 25'15	31.26025 AU	morning rise	-11225 Jul 28 j 13:19	1° \mathcal{B} 04'43	
				retrograde	-11225 Oct 23 j 15:51	2° \mathcal{B} 58'02	
conjunction	-11231 Jun 30 j 02:54	17° Υ 27'06	1°16'33	opposition	-11224 Jan 10 j 18:35	1° \mathcal{B} 35'50	1°56'45
minimum elong	-11231 Jun 30 j 02:54	17° Υ 27'06	1°16'41	min. Earth dist.	-11224 Jan 11 j 06:53	1° \mathcal{B} 35'01	29.27467 AU
morning rise	-11231 Jul 15 j 08:59	18° Υ 01'19		direct	-11224 Apr 01 j 00:29	0° \mathcal{B} 11'40	
retrograde	-11231 Oct 10 j 03:07	19° Υ 54'01		evening set	-11224 Jun 29 j 14:33	2° \mathcal{B} 07'11	
opposition	-11231 Dec 27 j 15:42	18° Υ 32'04	1°24'38				
min. Earth dist.	-11231 Dec 28 j 10:25	18° Υ 30'48	29.26156 AU	conjunction	-11224 Jul 14 j 19:14	2° \mathcal{B} 41'20	1°51'34
direct	-11230 Mar 19 j 02:31	17° Υ 07'34		minimum elong	-11224 Jul 14 j 19:13	2° \mathcal{B} 41'20	1°51'53
evening set	-11230 Jun 17 j 04:06	19° Υ 03'31		max. Earth dist.	-11224 Jul 14 j 06:38	2° \mathcal{B} 40'08	31.27562 AU
				morning rise	-11224 Jul 29 j 21:55	3° \mathcal{B} 15'20	
conjunction	-11230 Jul 02 j 12:25	19° Υ 37'56	1°21'57	retrograde	-11224 Oct 25 j 03:06	5° \mathcal{B} 08'48	
minimum elong	-11230 Jul 02 j 12:24	19° Υ 37'56	1°22'07	opposition	-11223 Jan 12 j 07:23	3° \mathcal{B} 46'36	2°01'34
max. Earth dist.	-11230 Jul 01 j 18:09	19° Υ 36'12	31.26118 AU	min. Earth dist.	-11223 Jan 12 j 19:52	3° \mathcal{B} 45'45	29.27902 AU
morning rise	-11230 Jul 17 j 17:54	20° Υ 12'07		direct	-11223 Apr 03 j 10:13	2° \mathcal{B} 22'31	
retrograde	-11230 Oct 12 j 12:30	22° Υ 04'53		evening set	-11223 Jul 02 j 00:06	4° \mathcal{B} 17'59	
opposition	-11230 Dec 30 j 04:00	20° Υ 42'52	1°30'21				
min. Earth dist.	-11230 Dec 30 j 21:44	20° Υ 41'40	29.26224 AU	conjunction	-11223 Jul 17 j 04:15	4° \mathcal{B} 52'05	1°56'00
direct	-11229 Mar 21 j 16:21	19° Υ 18'23		minimum elong	-11223 Jul 17 j 04:13	4° \mathcal{B} 52'05	1°56'19
evening set	-11229 Jun 19 j 14:09	21° Υ 14'16		max. Earth dist.	-11223 Jul 16 j 16:36	4° \mathcal{B} 50'59	31.27980 AU
				morning rise	-11223 Aug 01 j 06:33	5° \mathcal{B} 26'04	
conjunction	-11229 Jul 04 j 21:41	21° Υ 48'37	1°27'14	retrograde	-11223 Oct 27 j 14:32	7° \mathcal{B} 19'40	
minimum elong	-11229 Jul 04 j 21:40	21° Υ 48'37	1°27'24	opposition	-11222 Jan 14 j 20:06	5° \mathcal{B} 57'27	2°06'12
max. Earth dist.	-11229 Jul 04 j 03:23	21° Υ 46'54	31.26179 AU	min. Earth dist.	-11222 Jan 15 j 06:53	5° \mathcal{B} 56'44	29.28289 AU
morning rise	-11229 Jul 20 j 02:47	22° Υ 22'47		direct	-11222 Apr 05 j 23:33	4° \mathcal{B} 33'28	
retrograde	-11229 Oct 14 j 22:38	24° Υ 15'37		evening set	-11222 Jul 04 j 09:48	6° \mathcal{B} 28'53	
opposition	-11228 Jan 01 j 16:30	22° Υ 53'33	1°35'55				
min. Earth dist.	-11228 Jan 02 j 09:24	22° Υ 52'25	29.26313 AU	conjunction	-11222 Jul 19 j 13:20	7° \mathcal{B} 02'57	2°00'15
direct	-11228 Mar 23 j 03:20	21° Υ 29'06		minimum elong	-11222 Jul 19 j 13:19	7° \mathcal{B} 02'57	2°00'36
evening set	-11228 Jun 20 j 23:48	23° Υ 24'53		max. Earth dist.	-11222 Jul 19 j 01:52	7° \mathcal{B} 01'52	31.28309 AU
				morning rise	-11222 Aug 03 j 15:16	7° \mathcal{B} 36'54	
conjunction	-11228 Jul 06 j 06:53	23° Υ 59'12	1°32'22	retrograde	-11222 Oct 30 j 03:07	9° \mathcal{B} 30'39	
minimum elong	-11228 Jul 06 j 06:52	23° Υ 59'12	1°32'35	opposition	-11221 Jan 17 j 08:54	8° \mathcal{B} 08'24	2°10'40
max. Earth dist.	-11228 Jul 05 j 14:41	23° Υ 57'40	31.26281 AU	min. Earth dist.	-11221 Jan 17 j 19:44	8° \mathcal{B} 07'41	29.28583 AU
morning rise	-11228 Jul 21 j 11:20	24° Υ 33'18		direct	-11221 Apr 08 j 11:07	6° \mathcal{B} 44'30	
retrograde	-11228 Oct 16 j 06:50	26° Υ 26'15		evening set	-11221 Jul 06 j 19:26	8° \mathcal{B} 39'51	
opposition	-11227 Jan 03 j 05:06	25° Υ 04'08	1°41'21				
min. Earth dist.	-11227 Jan 03 j 21:17	25° Υ 03'02	29.26456 AU	conjunction	-11221 Jul 21 j 22:33	9° \mathcal{B} 13'53	2°04'20
direct	-11227 Mar 25 j 15:54	23° Υ 39'43		minimum elong	-11221 Jul 21 j 22:32	9° \mathcal{B} 13'53	2°04'41
evening set	-11227 Jun 23 j 09:40	25° Υ 35'25		max. Earth dist.	-11221 Jul 21 j 12:30	9° \mathcal{B} 12'56	31.28534 AU
				morning rise	-11221 Aug 05 j 23:59	9° \mathcal{B} 47'48	
conjunction	-11227 Jul 08 j 15:59	26° Υ 09'41	1°37'23	retrograde	-11221 Nov 01 j 13:25	11° \mathcal{B} 41'41	
minimum elong	-11227 Jul 08 j 15:58	26° Υ 09'41	1°37'36	opposition	-11220 Jan 19 j 21:54	10° \mathcal{B} 19'25	2°14'56
max. Earth dist.	-11227 Jul 07 j 23:47	26° Υ 08'09	31.26469 AU	min. Earth dist.	-11220 Jan 20 j 07:40	10° \mathcal{B} 18'45	29.28740 AU
morning rise	-11227 Jul 23 j 20:07	26° Υ 43'46		direct	-11220 Apr 10 j 00:36	8° \mathcal{B} 55'34	
retrograde	-11227 Oct 18 j 18:20	28° Υ 36'49		evening set	-11220 Jul 08 j 05:04	10° \mathcal{B} 50'50	

Attention, astronomical year style is used: The year -11220 in astronomical counting style is the year 11221 BCE in historical counting style.

conjunction	-11220 Jul 23 j 07:33	11°8'24"50	2°08'15"	retrograde	-11214 Nov 16 j 16:57	26°8'57"25	
minimum elong	-11220 Jul 23 j 07:32	11°8'24"50	2°08'37"	opposition	-11213 Feb 04 j 16:35	25°8'34"38	2°39'08"
max. Earth dist.	-11220 Jul 22 j 21:13	11°8'23"51	31.28614 AU	min. Earth dist.	-11213 Feb 04 j 19:22	25°8'34"27	29.27553 AU
morning rise	-11220 Aug 07 j 08:47	11°8'58"44		direct	-11213 Apr 26 j 09:27	24°8'11"03	
retrograde	-11220 Nov 03 j 00:40	13°8'52"44		evening set	-11213 Jul 23 j 22:13	26°8'05"40	
opposition	-11219 Jan 21 j 10:56	12°8'30"24	2°19'01"				
min. Earth dist.	-11219 Jan 21 j 20:06	12°8'29"47	29.28764 AU	conjunction	-11213 Aug 07 j 22:00	26°8'39"27	2°30'10"
direct	-11219 Apr 12 j 11:48	11°8'06"37		minimum elong	-11213 Aug 07 j 21:59	26°8'39"27	2°30'39"
evening set	-11219 Jul 10 j 14:35	13°8'01"47		max. Earth dist.	-11213 Aug 07 j 18:41	26°8'39"08	31.27318 AU
				morning rise	-11213 Aug 22 j 21:30	27°8'13"14	
conjunction	-11219 Jul 25 j 16:47	13°8'35"45	2°11'58"	retrograde	-11213 Nov 19 j 06:18	29°8'08"09	
minimum elong	-11219 Jul 25 j 16:46	13°8'35"44	2°12'21"	opposition	-11212 Feb 07 j 05:43	27°8'45"20	2°41'42"
max. Earth dist.	-11219 Jul 25 j 08:11	13°8'34"56	31.28553 AU	min. Earth dist.	-11212 Feb 07 j 07:57	27°8'45"11	29.27516 AU
morning rise	-11219 Aug 09 j 17:32	14°8'09"37		direct	-11212 Apr 27 j 20:01	26°8'21"50	
	-11219 Sep 03 j 02:49	15°8'		evening set	-11212 Jul 25 j 07:10	28°8'16"23	
retrograde	-11219 Nov 05 j 09:39	16°8'03"44					
	-11218 Jan 12 j 07:57	15°8'		conjunction	-11212 Aug 09 j 06:50	28°8'50"10	2°32'28"
opposition	-11218 Jan 23 j 23:49	14°8'41"20	2°22'54"	minimum elong	-11212 Aug 09 j 06:50	28°8'50"10	2°32'59"
min. Earth dist.	-11218 Jan 24 j 08:39	14°8'40"44	29.28639 AU	max. Earth dist.	-11212 Aug 09 j 05:34	28°8'50"03	31.27301 AU
direct	-11218 Apr 15 j 01:06	13°8'17"34		morning rise	-11212 Aug 24 j 06:05	29°8'23"57	
	-11218 Jul 07 j 05:13	15°8'			-11212 Sep 10 j 05:18	0°II	
evening set	-11218 Jul 13 j 00:09	15°8'12"38		retrograde	-11212 Nov 20 j 17:11	1°II19'01	
					-11211 Feb 06 j 09:59	30°R8	
conjunction	-11218 Jul 28 j 01:46	15°8'46"34	2°15'30"	opposition	-11211 Feb 08 j 18:47	29°8'56"11	2°44'03"
minimum elong	-11218 Jul 28 j 01:45	15°8'46"34	2°15'56"	min. Earth dist.	-11211 Feb 08 j 19:34	29°8'56"08	29.27506 AU
max. Earth dist.	-11218 Jul 27 j 16:51	15°8'45"43	31.28371 AU	direct	-11211 Apr 30 j 08:34	28°8'32"47	
morning rise	-11218 Aug 12 j 02:23	16°8'20"25			-11211 Jul 14 j 23:31	0°II	
retrograde	-11218 Nov 07 j 21:32	18°8'14"39		evening set	-11211 Jul 27 j 16:26	0°II27'17	
opposition	-11217 Jan 26 j 12:44	16°8'52"10	2°26'35"				
min. Earth dist.	-11217 Jan 26 j 20:05	16°8'51"40	29.28417 AU	conjunction	-11211 Aug 11 j 15:42	1°II01'03	2°34'33"
direct	-11217 Apr 17 j 12:14	15°8'28"25		minimum elong	-11211 Aug 11 j 15:41	1°II01'03	2°35'03"
evening set	-11217 Jul 15 j 09:23	17°8'23"23		max. Earth dist.	-11211 Aug 11 j 14:26	1°II00'56	31.27288 AU
				morning rise	-11211 Aug 26 j 15:01	1°II34'50	
conjunction	-11217 Jul 30 j 10:41	17°8'57"16	2°18'50"	retrograde	-11211 Nov 23 j 05:24	3°II30'04	
minimum elong	-11217 Jul 30 j 10:40	17°8'57"16	2°19'16"	opposition	-11210 Feb 11 j 07:44	2°II07'13	2°46'09"
max. Earth dist.	-11217 Jul 30 j 03:29	17°8'56"35	31.28099 AU	min. Earth dist.	-11210 Feb 11 j 07:42	2°II07'13	29.27491 AU
morning rise	-11217 Aug 14 j 10:53	18°8'31"06		direct	-11210 May 02 j 19:12	0°II43'55	
retrograde	-11217 Nov 10 j 06:42	20°8'25"27		evening set	-11210 Jul 30 j 01:33	2°II38'22	
opposition	-11216 Jan 29 j 01:51	19°8'02"53	2°30'03"				
min. Earth dist.	-11216 Jan 29 j 09:06	19°8'02"23	29.28137 AU	conjunction	-11210 Aug 14 j 00:46	3°II12'08	2°36'24"
direct	-11216 Apr 19 j 00:08	17°8'39"09		minimum elong	-11210 Aug 14 j 00:45	3°II12'08	2°36'57"
evening set	-11216 Jul 16 j 18:42	19°8'34"00		max. Earth dist.	-11210 Aug 14 j 01:25	3°II12'11	31.27231 AU
				morning rise	-11210 Aug 28 j 23:50	3°II45'55	
conjunction	-11216 Jul 31 j 19:32	20°8'07"52	2°21'59"	retrograde	-11210 Nov 25 j 15:35	5°II41'18	
minimum elong	-11216 Jul 31 j 19:31	20°8'07"52	2°22'26"	opposition	-11209 Feb 13 j 20:55	4°II18'26	2°48'02"
max. Earth dist.	-11216 Jul 31 j 12:56	20°8'07"14	31.27819 AU	min. Earth dist.	-11209 Feb 13 j 20:24	4°II18'28	29.27394 AU
morning rise	-11216 Aug 15 j 19:35	20°8'41"41		direct	-11209 May 05 j 08:23	2°II55'13	
retrograde	-11216 Nov 11 j 18:20	22°8'36"09		evening set	-11209 Aug 01 j 10:45	4°II49'36	
opposition	-11215 Jan 30 j 14:43	21°8'13"29	2°33'17"				
min. Earth dist.	-11215 Jan 30 j 19:52	21°8'13"08	29.27877 AU	conjunction	-11209 Aug 16 j 09:37	5°II23'21	2°38'02"
direct	-11215 Apr 21 j 11:01	19°8'49"47		minimum elong	-11209 Aug 16 j 09:36	5°II23'21	2°38'35"
evening set	-11215 Jul 19 j 03:52	21°8'44"32		max. Earth dist.	-11209 Aug 16 j 10:09	5°II23'24	31.27085 AU
				morning rise	-11209 Aug 31 j 08:48	5°II57'09	
conjunction	-11215 Aug 03 j 04:22	22°8'18"22	2°24'55"	retrograde	-11209 Nov 28 j 04:35	7°II52'42	
minimum elong	-11215 Aug 03 j 04:21	22°8'18"22	2°25'22"	opposition	-11208 Feb 16 j 10:08	6°II29'47	2°49'39"
max. Earth dist.	-11215 Aug 02 j 23:04	22°8'17"52	31.27569 AU	min. Earth dist.	-11208 Feb 16 j 08:08	6°II29'55	29.27195 AU
morning rise	-11215 Aug 18 j 04:10	22°8'52"11		direct	-11208 May 06 j 19:26	5°II06'38	
retrograde	-11215 Nov 14 j 05:26	24°8'46"47		evening set	-11208 Aug 02 j 19:59	7°II00'57	
opposition	-11214 Feb 02 j 03:46	23°8'24"03	2°36'19"				
min. Earth dist.	-11214 Feb 02 j 08:45	23°8'23"43	29.27677 AU	conjunction	-11208 Aug 17 j 18:50	7°II34'41	2°39'27"
direct	-11214 Apr 23 j 20:42	22°8'00"24		minimum elong	-11208 Aug 17 j 18:49	7°II34'41	2°40'01"
evening set	-11214 Jul 21 j 13:01	23°8'55"04		max. Earth dist.	-11208 Aug 17 j 20:42	7°II34'52	31.26803 AU
				morning rise	-11208 Sep 01 j 17:55	8°II08'30	
conjunction	-11214 Aug 05 j 13:12	24°8'28"53	2°27'39"	retrograde	-11208 Nov 29 j 13:59	10°II04'12	
minimum elong	-11214 Aug 05 j 13:11	24°8'28"53	2°28'08"	opposition	-11207 Feb 17 j 23:24	8°II41'14	2°51'02"
max. Earth dist.	-11214 Aug 05 j 09:20	24°8'28"31	31.27405 AU	min. Earth dist.	-11207 Feb 17 j 21:35	8°II41'21	29.26847 AU
morning rise	-11214 Aug 20 j 12:46	25°8'02"40		direct	-11207 May 09 j 07:02	7°II18'07	

Attention, astronomical year style is used: The year -11207 in astronomical counting style is the year 11208 BCE in historical counting style.

evening set	-11207 Aug 05 j 05:14	9°II12'20		opposition	-11200 Mar 05 j 19:18	23°II59'28	2°53'49
				min. Earth dist.	-11200 Mar 05 j 10:15	24°II00'05	29.22374 AU
conjunction	-11207 Aug 20 j 03:56	9°II46'05	2°40'38	direct	-11200 May 24 j 14:39	22°II36'26	
minimum elong	-11207 Aug 20 j 03:56	9°II46'05	2°41'11	evening set	-11200 Aug 19 j 20:19	24°II29'56	
max. Earth dist.	-11207 Aug 20 j 06:07	9°II46'17	31.26383 AU				
morning rise	-11207 Sep 04 j 03:08	10°II19'53		conjunction	-11200 Sep 03 j 19:20	25°II03'42	2°42'24
retrograde	-11207 Dec 02 j 01:44	12°II15'43		minimum elong	-11200 Sep 03 j 19:20	25°II03'42	2°43'02
opposition	-11206 Feb 20 j 12:32	10°II52'40	2°52'11	max. Earth dist.	-11200 Sep 04 j 04:28	25°II04'34	31.21904 AU
min. Earth dist.	-11206 Feb 20 j 09:01	10°II52'55	29.26348 AU	morning rise	-11200 Sep 18 j 19:56	25°II37'37	
direct	-11206 May 11 j 17:58	9°II29'35		retrograde	-11200 Dec 17 j 13:56	27°II34'13	
evening set	-11206 Aug 07 j 14:24	11°II23'43		opposition	-11199 Mar 08 j 08:13	26°II10'32	2°53'13
				min. Earth dist.	-11199 Mar 07 j 21:26	26°II11'16	29.21934 AU
conjunction	-11206 Aug 22 j 13:02	11°II57'27	2°41'35	direct	-11199 May 27 j 01:11	24°II47'34	
minimum elong	-11206 Aug 22 j 13:02	11°II57'27	2°42'10	evening set	-11199 Aug 22 j 05:15	26°II41'00	
max. Earth dist.	-11206 Aug 22 j 15:55	11°II57'43	31.25801 AU				
morning rise	-11206 Sep 06 j 12:19	12°II31'15		conjunction	-11199 Sep 06 j 04:34	27°II14'47	2°41'43
retrograde	-11206 Dec 04 j 12:59	14°II27'13		minimum elong	-11199 Sep 06 j 04:34	27°II14'47	2°42'20
opposition	-11205 Feb 23 j 01:49	13°II04'04	2°53'05	max. Earth dist.	-11199 Sep 06 j 15:16	27°II15'48	31.21481 AU
min. Earth dist.	-11205 Feb 22 j 22:37	13°II04'17	29.25710 AU	morning rise	-11199 Sep 21 j 05:25	27°II48'44	
direct	-11205 May 14 j 03:50	11°II40'59		retrograde	-11199 Dec 19 j 23:59	29°II45'29	
evening set	-11205 Aug 09 j 23:30	13°II35'00		opposition	-11198 Mar 10 j 21:20	28°II21'46	2°52'21
				min. Earth dist.	-11198 Mar 10 j 10:26	28°II22'30	29.21524 AU
conjunction	-11205 Aug 24 j 22:11	14°II08'43	2°42'18	direct	-11198 May 29 j 12:37	26°II58'51	
minimum elong	-11205 Aug 24 j 22:10	14°II08'43	2°42'53	evening set	-11198 Aug 24 j 14:15	28°II52'13	
max. Earth dist.	-11205 Aug 25 j 02:19	14°II09'07	31.25119 AU				
morning rise	-11205 Sep 08 j 21:31	14°II42'33		conjunction	-11198 Sep 08 j 13:45	29°II26'02	2°40'47
retrograde	-11205 Dec 07 j 00:48	16°II38'36		minimum elong	-11198 Sep 08 j 13:45	29°II26'02	2°41'25
opposition	-11204 Feb 25 j 14:57	15°II15'21	2°53'44	max. Earth dist.	-11198 Sep 09 j 01:14	29°II27'07	31.21083 AU
min. Earth dist.	-11204 Feb 25 j 09:52	15°II15'42	29.24985 AU	morning rise	-11198 Sep 23 j 14:58	0°II00'01	
direct	-11204 May 15 j 16:35	13°II52'16			-11198 Sep 23 j 14:47	0°II	
evening set	-11204 Aug 11 j 08:30	15°II46'09		retrograde	-11198 Dec 22 j 12:16	1°II56'54	
				opposition	-11197 Mar 13 j 10:21	0°II33'09	2°51'14
conjunction	-11204 Aug 26 j 07:06	16°II19'52	2°42'47	min. Earth dist.	-11197 Mar 12 j 21:35	0°II34'01	29.21111 AU
minimum elong	-11204 Aug 26 j 07:06	16°II19'52	2°43'24		-11197 Apr 03 j 10:55	30°R II	
max. Earth dist.	-11204 Aug 26 j 11:29	16°II20'17	31.24371 AU	direct	-11197 May 31 j 23:25	29°II10'19	
morning rise	-11204 Sep 10 j 06:45	16°II53'43			-11197 Jul 26 j 04:08	0°II	
retrograde	-11204 Dec 08 j 14:04	18°II49'52		evening set	-11197 Aug 26 j 23:26	1°II03'38	
opposition	-11203 Feb 27 j 04:11	17°II26'29	2°54'08				
min. Earth dist.	-11203 Feb 26 j 22:47	17°II26'51	29.24243 AU	conjunction	-11197 Sep 10 j 23:07	1°II37'28	2°39'38
direct	-11203 May 18 j 02:35	16°II03'23		minimum elong	-11197 Sep 10 j 23:07	1°II37'28	2°40'14
evening set	-11203 Aug 13 j 17:28	17°II57'10		max. Earth dist.	-11197 Sep 11 j 11:18	1°II38'37	31.20645 AU
				morning rise	-11197 Sep 26 j 00:47	2°II11'29	
conjunction	-11203 Aug 28 j 16:15	18°II30'54	2°43'03	retrograde	-11197 Dec 25 j 00:12	4°II08'31	
minimum elong	-11203 Aug 28 j 16:15	18°II30'54	2°43'38	opposition	-11196 Mar 14 j 23:34	2°II44'44	2°49'52
max. Earth dist.	-11203 Aug 28 j 22:39	18°II31'30	31.23634 AU	min. Earth dist.	-11196 Mar 14 j 11:08	2°II45'35	29.20647 AU
morning rise	-11203 Sep 12 j 15:55	19°II04'45		direct	-11196 Jun 02 j 08:54	1°II21'57	
retrograde	-11203 Dec 11 j 00:42	21°II01'00		evening set	-11196 Aug 28 j 08:33	3°II15'12	
opposition	-11202 Mar 01 j 17:04	19°II37'31	2°54'17				
min. Earth dist.	-11202 Mar 01 j 10:07	19°II37'59	29.23528 AU	conjunction	-11196 Sep 12 j 08:40	3°II49'04	2°38'14
direct	-11202 May 20 j 14:50	18°II14'25		minimum elong	-11196 Sep 12 j 08:40	3°II49'04	2°38'52
evening set	-11202 Aug 16 j 02:32	20°II08'06		max. Earth dist.	-11196 Sep 12 j 22:05	3°II50'20	31.20145 AU
				morning rise	-11196 Sep 27 j 10:41	4°II23'07	
conjunction	-11202 Aug 31 j 01:13	20°II41'50	2°43'04	retrograde	-11196 Dec 26 j 12:32	6°II20'17	
minimum elong	-11202 Aug 31 j 01:13	20°II41'50	2°43'41	opposition	-11195 Mar 17 j 12:37	4°II56'28	2°48'15
max. Earth dist.	-11202 Aug 31 j 07:47	20°II42'27	31.22960 AU	min. Earth dist.	-11195 Mar 16 j 22:36	4°II57'25	29.20083 AU
morning rise	-11202 Sep 15 j 01:16	21°II15'42		direct	-11195 Jun 04 j 20:45	3°II33'44	
retrograde	-11202 Dec 13 j 13:43	23°II12'03		evening set	-11195 Aug 30 j 17:58	5°II26'55	
opposition	-11201 Mar 04 j 06:09	21°II48'29	2°54'10				
min. Earth dist.	-11201 Mar 03 j 22:04	21°II49'02	29.22908 AU	conjunction	-11195 Sep 14 j 18:16	6°II00'48	2°36'37
direct	-11201 May 23 j 01:41	20°II25'24		minimum elong	-11195 Sep 14 j 18:16	6°II00'48	2°37'13
evening set	-11201 Aug 18 j 11:18	22°II18'59		max. Earth dist.	-11195 Sep 15 j 07:20	6°II02'02	31.19519 AU
				morning rise	-11195 Sep 29 j 20:52	6°II34'54	
conjunction	-11201 Sep 02 j 10:16	22°II52'44	2°42'51	retrograde	-11195 Dec 29 j 02:13	8°II03'21	
minimum elong	-11201 Sep 02 j 10:15	22°II52'44	2°43'27	min. Earth dist.	-11194 Mar 19 j 11:48	7°II09'15	29.19397 AU
max. Earth dist.	-11201 Sep 02 j 19:06	22°II53'35	31.22382 AU	opposition	-11194 Mar 20 j 01:39	7°II08'19	2°46'24
morning rise	-11201 Sep 17 j 10:25	23°II26'38		direct	-11194 Jun 07 j 05:51	5°II45'36	
retrograde	-11201 Dec 16 j 00:47	25°II23'06		evening set	-11194 Sep 02 j 03:11	7°II38'43	

Attention, astronomical year style is used: The year -11194 in astronomical counting style is the year 11195 BCE in historical counting style.

conjunction	-11194 Sep 17 j 04:01	8° $\overline{00}$ 12'38	2°34'46	direct	-11187 Jun 22 j 13:09	21° $\overline{00}$ 08'19	
minimum elong	-11194 Sep 17 j 04:02	8° $\overline{00}$ 12'38	2°35'23	evening set	-11187 Sep 16 j 20:05	23° $\overline{00}$ 00'51	
max. Earth dist.	-11194 Sep 17 j 18:40	8° $\overline{00}$ 14'01	31.18773 AU				
morning rise	-11194 Oct 02 j 06:57	8° $\overline{00}$ 46'46		conjunction	-11187 Oct 02 j 00:23	23° $\overline{00}$ 35'02	2°15'45
retrograde	-11194 Dec 31 j 13:46	10° $\overline{00}$ 44'09		minimum elong	-11187 Oct 02 j 00:24	23° $\overline{00}$ 35'02	2°16'20
opposition	-11193 Mar 22 j 14:42	9° $\overline{00}$ 20'12	2°44'18	max. Earth dist.	-11187 Oct 02 j 21:03	23° $\overline{00}$ 36'59	31.13051 AU
min. Earth dist.	-11193 Mar 21 j 23:47	9° $\overline{00}$ 21'13	29.18577 AU	morning rise	-11187 Oct 17 j 07:38	24° $\overline{00}$ 09'31	
direct	-11193 Jun 09 j 17:40	7° $\overline{00}$ 57'30		retrograde	-11186 Jan 16 j 03:25	26° $\overline{00}$ 07'27	
evening set	-11193 Sep 04 j 12:27	9° $\overline{00}$ 50'31		min. Earth dist.	-11186 Apr 06 j 11:22	24° $\overline{00}$ 44'25	29.12961 AU
				opposition	-11186 Apr 07 j 08:23	24° $\overline{00}$ 42'59	2°23'12
				direct	-11186 Jun 25 j 00:19	23° $\overline{00}$ 20'20	
				evening set	-11186 Sep 19 j 05:38	25° $\overline{00}$ 12'49	
conjunction	-11193 Sep 19 j 13:33	10° $\overline{00}$ 24'28	2°32'41				
minimum elong	-11193 Sep 19 j 13:33	10° $\overline{00}$ 24'28	2°33'18				
max. Earth dist.	-11193 Sep 20 j 03:52	10° $\overline{00}$ 25'50	31.17912 AU				
morning rise	-11193 Oct 04 j 17:12	10° $\overline{00}$ 58'40		conjunction	-11186 Oct 04 j 10:22	25° $\overline{00}$ 47'03	2°12'12
retrograde	-11192 Jan 03 j 03:52	12° $\overline{00}$ 56'07		minimum elong	-11186 Oct 04 j 10:23	25° $\overline{00}$ 47'03	2°12'48
opposition	-11192 Mar 24 j 03:48	11° $\overline{00}$ 32'05	2°41'59	max. Earth dist.	-11186 Oct 05 j 06:54	25° $\overline{00}$ 49'00	31.12517 AU
min. Earth dist.	-11192 Mar 23 j 12:22	11° $\overline{00}$ 33'08	29.17672 AU	morning rise	-11186 Oct 19 j 18:29	26° $\overline{00}$ 21'36	
direct	-11192 Jun 11 j 04:32	10° $\overline{00}$ 09'22		retrograde	-11185 Jan 18 j 16:37	28° $\overline{00}$ 19'37	
evening set	-11192 Sep 05 j 21:39	12° $\overline{00}$ 02'18		opposition	-11185 Apr 09 j 21:13	26° $\overline{00}$ 55'08	2°19'18
				min. Earth dist.	-11185 Apr 09 j 00:16	26° $\overline{00}$ 56'34	29.12442 AU
				direct	-11185 Jun 27 j 08:36	25° $\overline{00}$ 32'32	
				evening set	-11185 Sep 21 j 15:04	27° $\overline{00}$ 24'57	
conjunction	-11192 Sep 20 j 23:20	12° $\overline{00}$ 36'17	2°30'24				
minimum elong	-11192 Sep 20 j 23:21	12° $\overline{00}$ 36'17	2°31'02				
max. Earth dist.	-11192 Sep 21 j 15:24	12° $\overline{00}$ 37'48	31.16975 AU	conjunction	-11185 Oct 06 j 20:36	27° $\overline{00}$ 59'15	2°08'27
morning rise	-11192 Oct 06 j 03:25	13° $\overline{00}$ 10'31		minimum elong	-11185 Oct 06 j 20:37	27° $\overline{00}$ 59'15	2°09'01
retrograde	-11191 Jan 04 j 15:52	15° $\overline{00}$ 08'03		max. Earth dist.	-11185 Oct 07 j 18:52	28° $\overline{00}$ 01'21	31.12006 AU
opposition	-11191 Mar 26 j 16:37	13° $\overline{00}$ 43'54	2°39'25	morning rise	-11185 Oct 22 j 05:16	28° $\overline{00}$ 33'51	
min. Earth dist.	-11191 Mar 26 j 00:46	13° $\overline{00}$ 44'59	29.16712 AU				
direct	-11191 Jun 13 j 17:26	12° $\overline{00}$ 21'10		retrograde	-11185 Dec 07 j 07:55	0° $\overline{00}$ 00'00	
evening set	-11191 Sep 08 j 06:57	14° $\overline{00}$ 14'00			-11184 Jan 21 j 04:51	0° $\overline{00}$ 31'58	
					-11184 Mar 07 j 17:30	30° $\overline{00}$ 00'00	
conjunction	-11191 Sep 23 j 09:01	14° $\overline{00}$ 48'02	2°27'54	opposition	-11184 Apr 11 j 09:56	29° $\overline{00}$ 07'27	2°15'11
minimum elong	-11191 Sep 23 j 09:02	14° $\overline{00}$ 48'02	2°28'30	min. Earth dist.	-11184 Apr 10 j 12:01	29° $\overline{00}$ 08'57	29.11904 AU
max. Earth dist.	-11191 Sep 24 j 01:08	14° $\overline{00}$ 49'33	31.16032 AU	direct	-11184 Jun 28 j 19:54	27° $\overline{00}$ 44'53	
morning rise	-11191 Oct 08 j 13:48	15° $\overline{00}$ 22'19		evening set	-11184 Sep 23 j 00:57	29° $\overline{00}$ 37'16	
retrograde	-11190 Jan 07 j 05:10	17° $\overline{00}$ 19'54			-11184 Oct 03 j 04:14	0° $\overline{00}$ 00'00	
opposition	-11190 Mar 29 j 05:25	15° $\overline{00}$ 55'40	2°36'38				
min. Earth dist.	-11190 Mar 28 j 12:06	15° $\overline{00}$ 56'51	29.15783 AU	conjunction	-11184 Oct 08 j 06:59	0° $\overline{00}$ 11'36	2°04'30
direct	-11190 Jun 16 j 04:07	14° $\overline{00}$ 32'55		minimum elong	-11184 Oct 08 j 07:00	0° $\overline{00}$ 11'36	2°05'04
evening set	-11190 Sep 10 j 16:06	16° $\overline{00}$ 25'40		max. Earth dist.	-11184 Oct 09 j 04:41	0° $\overline{00}$ 13'40	31.11456 AU
				morning rise	-11184 Oct 23 j 16:32	0° $\overline{00}$ 46'16	
conjunction	-11190 Sep 25 j 18:40	16° $\overline{00}$ 59'44	2°25'11	retrograde	-11183 Jan 22 j 19:31	2° $\overline{00}$ 44'28	
minimum elong	-11190 Sep 25 j 18:41	16° $\overline{00}$ 59'44	2°25'48	opposition	-11183 Apr 13 j 22:34	1° $\overline{00}$ 19'55	2°10'51
max. Earth dist.	-11190 Sep 26 j 12:12	17° $\overline{00}$ 01'23	31.15126 AU	min. Earth dist.	-11183 Apr 13 j 00:32	1° $\overline{00}$ 21'26	29.11315 AU
morning rise	-11190 Oct 10 j 23:59	17° $\overline{00}$ 34'03			-11183 Jun 18 j 20:26	30° $\overline{00}$ 00'00	
retrograde	-11189 Jan 09 j 15:25	19° $\overline{00}$ 31'43		direct	-11183 Jul 01 j 05:51	29° $\overline{00}$ 57'22	
opposition	-11189 Mar 31 j 18:19	18° $\overline{00}$ 07'24	2°33'36		-11183 Jul 13 j 15:14	0° $\overline{00}$ 00'00	
min. Earth dist.	-11189 Mar 31 j 00:48	18° $\overline{00}$ 08'36	29.14920 AU	evening set	-11183 Sep 25 j 10:50	1° $\overline{00}$ 49'43	
direct	-11189 Jun 18 j 16:06	16° $\overline{00}$ 44'40					
evening set	-11189 Sep 13 j 01:23	18° $\overline{00}$ 37'19		conjunction	-11183 Oct 10 j 17:38	2° $\overline{00}$ 24'07	2°00'23
				minimum elong	-11183 Oct 10 j 17:39	2° $\overline{00}$ 24'07	2°00'55
conjunction	-11189 Sep 28 j 04:30	19° $\overline{00}$ 11'25	2°22'15	max. Earth dist.	-11183 Oct 11 j 16:36	2° $\overline{00}$ 26'17	31.10816 AU
minimum elong	-11189 Sep 28 j 04:31	19° $\overline{00}$ 11'25	2°22'50	morning rise	-11183 Oct 26 j 03:48	2° $\overline{00}$ 58'50	
max. Earth dist.	-11189 Sep 28 j 22:58	19° $\overline{00}$ 13'10	31.14333 AU	retrograde	-11182 Jan 25 j 08:15	4° $\overline{00}$ 57'06	
morning rise	-11189 Oct 13 j 10:26	19° $\overline{00}$ 45'48		opposition	-11182 Apr 16 j 11:18	3° $\overline{00}$ 32'31	2°06'21
retrograde	-11188 Jan 12 j 04:21	21° $\overline{00}$ 43'33		min. Earth dist.	-11182 Apr 15 j 13:17	3° $\overline{00}$ 34'01	29.10608 AU
min. Earth dist.	-11188 Apr 01 j 11:32	20° $\overline{00}$ 20'29	29.14174 AU	direct	-11182 Jul 03 j 17:47	2° $\overline{00}$ 09'58	
opposition	-11188 Apr 02 j 07:01	20° $\overline{00}$ 19'10	2°30'22	evening set	-11182 Sep 27 j 20:46	4° $\overline{00}$ 02'16	
direct	-11188 Jun 20 j 03:25	18° $\overline{00}$ 56'26					
evening set	-11188 Sep 14 j 10:44	20° $\overline{00}$ 49'01		conjunction	-11182 Oct 13 j 04:09	4° $\overline{00}$ 36'43	1°56'04
				minimum elong	-11182 Oct 13 j 04:10	4° $\overline{00}$ 36'43	1°56'37
conjunction	-11188 Sep 29 j 14:21	21° $\overline{00}$ 23'10	2°19'06	max. Earth dist.	-11182 Oct 14 j 02:40	4° $\overline{00}$ 38'51	31.10064 AU
minimum elong	-11188 Sep 29 j 14:21	21° $\overline{00}$ 23'10	2°19'43	morning rise	-11182 Oct 28 j 15:09	5° $\overline{00}$ 11'30	
max. Earth dist.	-11188 Sep 30 j 09:30	21° $\overline{00}$ 24'59	31.13641 AU	retrograde	-11181 Jan 27 j 22:24	7° $\overline{00}$ 09'49	
morning rise	-11188 Oct 14 j 21:02	21° $\overline{00}$ 57'36		min. Earth dist.	-11181 Apr 18 j 01:10	5° $\overline{00}$ 46'44	29.09784 AU
retrograde	-11187 Jan 13 j 15:54	23° $\overline{00}$ 55'27		opposition	-11181 Apr 19 j 00:02	5° $\overline{00}$ 45'10	2°01'39
opposition	-11187 Apr 04 j 19:51	22° $\overline{00}$ 31'00	2°26'53	direct	-11181 Jul 06 j 04:25	4° $\overline{00}$ 22'37	
min. Earth dist.	-11187 Apr 04 j 00:34	22° $\overline{00}$ 32'19	29.13530 AU	evening set	-11181 Sep 30 j 06:50	6° $\overline{00}$ 14'51	

Attention, astronomical year style is used: The year -11181 in astronomical counting style is the year 11182 BCE in historical counting style.

conjunction	-11181 Oct 15 j 14:57	6°Ω49'21	1°51'35	retrograde	-11174 Feb 12 j 14:02	22°Ω38'24	
minimum elong	-11181 Oct 15 j 14:57	6°Ω49'21	1°52'07	opposition	-11174 May 04 j 14:28	21°Ω13'20	1°24'10
max. Earth dist.	-11181 Oct 16 j 14:03	6°Ω51'32	31.09179 AU	min. Earth dist.	-11174 May 03 j 13:16	21°Ω15'04	29.03351 AU
morning rise	-11181 Oct 31 j 02:42	7°Ω24'12		direct	-11174 Jul 21 j 07:35	19°Ω50'38	
retrograde	-11180 Jan 30 j 10:28	9°Ω22'32		evening set	-11174 Oct 15 j 06:27	21°Ω42'35	
opposition	-11180 Apr 20 j 12:42	7°Ω57'50	1°56'46				
min. Earth dist.	-11180 Apr 19 j 14:26	7°Ω59'21	29.08836 AU	conjunction	-11174 Oct 30 j 19:41	22°Ω17'27	1°16'02
direct	-11180 Jul 07 j 16:34	6°Ω35'15		minimum elong	-11174 Oct 30 j 19:42	22°Ω17'28	1°16'28
evening set	-11180 Oct 01 j 16:54	8°Ω27'25		max. Earth dist.	-11174 Oct 31 j 22:34	22°Ω19'59	31.02939 AU
				morning rise	-11174 Nov 15 j 12:54	22°Ω52'43	
conjunction	-11180 Oct 17 j 01:47	9°Ω01'58	1°46'57	retrograde	-11173 Feb 15 j 02:34	24°Ω51'19	
minimum elong	-11180 Oct 17 j 01:48	9°Ω01'58	1°47'28	min. Earth dist.	-11173 May 06 j 01:24	23°Ω27'59	29.02717 AU
max. Earth dist.	-11180 Oct 18 j 01:12	9°Ω04'11	31.08204 AU	opposition	-11173 May 07 j 02:41	23°Ω26'14	1°18'14
morning rise	-11180 Nov 01 j 14:19	9°Ω36'52		direct	-11173 Jul 23 j 18:41	22°Ω03'34	
retrograde	-11179 Feb 01 j 00:27	11°Ω35'14		evening set	-11173 Oct 17 j 17:09	23°Ω55'32	
min. Earth dist.	-11179 Apr 22 j 01:41	10°Ω12'03	29.07811 AU				
opposition	-11179 Apr 23 j 01:09	10°Ω10'26	1°51'43	conjunction	-11173 Nov 02 j 07:04	24°Ω30'27	1°10'26
direct	-11179 Jul 10 j 04:39	8°Ω47'49		minimum elong	-11173 Nov 02 j 07:05	24°Ω30'28	1°10'49
evening set	-11179 Oct 04 j 03:05	10°Ω39'55		max. Earth dist.	-11173 Nov 03 j 09:34	24°Ω32'57	31.02347 AU
				morning rise	-11173 Nov 18 j 01:09	25°Ω05'47	
conjunction	-11179 Oct 19 j 12:33	11°Ω14'31	1°42'09	retrograde	-11172 Feb 17 j 17:15	27°Ω04'26	
minimum elong	-11179 Oct 19 j 12:34	11°Ω14'31	1°42'38	opposition	-11172 May 08 j 14:44	25°Ω39'21	1°12'11
max. Earth dist.	-11179 Oct 20 j 12:01	11°Ω16'44	31.07160 AU	min. Earth dist.	-11172 May 07 j 12:48	25°Ω41'09	29.02130 AU
morning rise	-11179 Nov 04 j 01:56	11°Ω49'28		direct	-11172 Jul 25 j 04:32	24°Ω16'42	
retrograde	-11178 Feb 03 j 11:44	13°Ω47'52		evening set	-11172 Oct 19 j 04:02	26°Ω08'41	
opposition	-11178 Apr 25 j 13:35	12°Ω22'59	1°46'31				
min. Earth dist.	-11178 Apr 24 j 14:50	12°Ω24'33	29.06763 AU	conjunction	-11172 Nov 03 j 18:42	26°Ω43'40	1°04'42
direct	-11178 Jul 12 j 14:56	11°Ω00'20		minimum elong	-11172 Nov 03 j 18:43	26°Ω43'40	1°05'06
evening set	-11178 Oct 06 j 13:09	12°Ω52'22		max. Earth dist.	-11172 Nov 04 j 21:38	26°Ω46'12	31.01752 AU
				morning rise	-11172 Nov 19 j 13:32	27°Ω19'03	
conjunction	-11178 Oct 21 j 23:28	13°Ω27'01	1°37'12	retrograde	-11171 Feb 19 j 06:36	29°Ω17'45	
minimum elong	-11178 Oct 21 j 23:29	13°Ω27'01	1°37'41	min. Earth dist.	-11171 May 10 j 01:48	27°Ω54'25	29.01512 AU
max. Earth dist.	-11178 Oct 23 j 00:12	13°Ω29'21	31.06140 AU	opposition	-11171 May 11 j 02:54	27°Ω52'40	1°06'00
morning rise	-11178 Nov 06 j 13:31	14°Ω02'02		direct	-11171 Jul 27 j 16:32	26°Ω30'02	
	-11178 Dec 05 j 02:43	15°Ω		evening set	-11171 Oct 21 j 15:01	28°Ω22'01	
retrograde	-11177 Feb 05 j 23:17	16°Ω00'26					
	-11177 Apr 13 j 00:09	15°κΩ		conjunction	-11171 Nov 06 j 06:26	28°Ω57'04	0°58'53
min. Earth dist.	-11177 Apr 27 j 01:37	14°Ω37'09	29.05762 AU	minimum elong	-11171 Nov 06 j 06:27	28°Ω57'04	0°59'14
opposition	-11177 Apr 28 j 01:50	14°Ω35'29	1°41'09	max. Earth dist.	-11171 Nov 07 j 09:23	28°Ω59'37	31.01118 AU
direct	-11177 Jul 15 j 02:30	13°Ω12'48		morning rise	-11171 Nov 22 j 01:57	29°Ω32'31	
	-11177 Oct 06 j 18:56	15°Ω			-11171 Dec 04 j 22:38	0°η	
evening set	-11177 Oct 08 j 23:22	15°Ω04'47		retrograde	-11170 Feb 21 j 21:47	1°η31'15	
				opposition	-11170 May 13 j 14:53	0°η06'10	0°59'44
conjunction	-11177 Oct 24 j 10:16	15°Ω39'29	1°32'07	min. Earth dist.	-11170 May 12 j 12:57	0°η07'57	29.00831 AU
minimum elong	-11177 Oct 24 j 10:16	15°Ω39'29	1°32'34		-11170 May 17 j 08:04	30°κΩ	
max. Earth dist.	-11177 Oct 25 j 10:36	15°Ω41'47	31.05186 AU	direct	-11170 Jul 30 j 04:42	28°Ω43'31	
morning rise	-11177 Nov 09 j 01:16	16°Ω14'34			-11170 Oct 07 j 05:37	0°η	
retrograde	-11176 Feb 08 j 11:57	18°Ω13'01		evening set	-11170 Oct 24 j 02:16	0°η35'31	
opposition	-11176 Apr 29 j 14:13	16°Ω48'00	1°35'38				
min. Earth dist.	-11176 Apr 28 j 14:14	16°Ω49'39	29.04856 AU	conjunction	-11170 Nov 08 j 18:17	1°η10'37	0°52'58
direct	-11176 Jul 16 j 11:04	15°Ω25'18		minimum elong	-11170 Nov 08 j 18:18	1°η10'37	0°53'19
evening set	-11176 Oct 10 j 09:39	17°Ω17'16		max. Earth dist.	-11170 Nov 09 j 20:43	1°η13'07	31.00389 AU
				morning rise	-11170 Nov 24 j 14:38	1°η46'07	
conjunction	-11176 Oct 25 j 21:28	17°Ω52'01	1°26'53	retrograde	-11169 Feb 24 j 09:49	3°η44'53	
minimum elong	-11176 Oct 25 j 21:29	17°Ω52'01	1°27'20	min. Earth dist.	-11169 May 15 j 02:25	2°η21'28	29.00048 AU
max. Earth dist.	-11176 Oct 26 j 23:24	17°Ω54'28	31.04337 AU	opposition	-11169 May 16 j 03:03	2°η19'46	0°53'22
morning rise	-11176 Nov 10 j 13:05	18°Ω27'09		direct	-11169 Aug 01 j 15:05	0°η57'06	
retrograde	-11175 Feb 09 j 23:49	20°Ω25'39		evening set	-11169 Oct 26 j 13:27	2°η49'06	
min. Earth dist.	-11175 May 01 j 01:18	19°Ω02'19	29.04048 AU				
opposition	-11175 May 02 j 02:14	19°Ω00'36	1°29'58	conjunction	-11169 Nov 11 j 06:22	3°η24'15	0°46'59
direct	-11175 Jul 18 j 22:08	17°Ω37'54		minimum elong	-11169 Nov 11 j 06:23	3°η24'15	0°47'17
evening set	-11175 Oct 12 j 20:08	19°Ω29'51		max. Earth dist.	-11169 Nov 12 j 09:18	3°η26'47	30.99558 AU
				morning rise	-11169 Nov 27 j 03:20	3°η59'48	
conjunction	-11175 Oct 28 j 08:31	20°Ω04'39	1°21'31	retrograde	-11168 Feb 26 j 22:33	5°η58'33	
minimum elong	-11175 Oct 28 j 08:32	20°Ω04'39	1°21'57	opposition	-11168 May 17 j 15:01	4°η33'24	0°46'55
max. Earth dist.	-11175 Oct 29 j 09:57	20°Ω07'03	31.03595 AU	min. Earth dist.	-11168 May 16 j 13:43	4°η35'09	28.99144 AU
morning rise	-11175 Nov 13 j 01:05	20°Ω39'51		direct	-11168 Aug 03 j 03:19	3°η10'40	

Attention, astronomical year style is used: The year -11168 in astronomical counting style is the year 11169 BCE in historical counting style.

evening set	-11168 Oct 28 j 00:59	5° \mathring{M} 02'40		behind sun end	-11162 Nov 27 j 02:29	18° \mathring{M} 58'39	
				max. Earth dist.	-11162 Nov 27 j 22:39	19° \mathring{M} 00'33	30.93413 AU
conjunction	-11168 Nov 12 j 18:27	5° \mathring{M} 37'52	0°40'55	morning rise	-11162 Dec 12 j 21:34	19° \mathring{M} 33'55	
minimum elong	-11168 Nov 12 j 18:28	5° \mathring{M} 37'52	0°41'13	retrograde	-11161 Mar 14 j 16:05	21° \mathring{M} 32'32	
max. Earth dist.	-11168 Nov 13 j 20:06	5° \mathring{M} 40'17	30.98608 AU	min. Earth dist.	-11161 Jun 01 j 23:20	20° \mathring{M} 08'48	28.93192 AU
morning rise	-11168 Nov 28 j 16:18	6° \mathring{M} 13'28		opposition	-11161 Jun 03 j 00:26	20° \mathring{M} 07'03	0°00'24
retrograde	-11167 Feb 28 j 11:36	8° \mathring{M} 12'12		desc. node	-11161 Jun 24 j 15:21	19° \mathring{M} 31'49	
min. Earth dist.	-11167 May 19 j 02:39	6° \mathring{M} 48'40	28.98152 AU	direct	-11161 Aug 19 j 06:51	18° \mathring{M} 43'55	
opposition	-11167 May 20 j 02:55	6° \mathring{M} 46'59	0°40'24	evening set	-11161 Nov 13 j 10:35	20° \mathring{M} 36'02	
direct	-11167 Aug 05 j 12:46	5° \mathring{M} 24'11					
evening set	-11167 Oct 30 j 12:21	7° \mathring{M} 16'10		conjunction	-11161 Nov 29 j 08:36	21° \mathring{M} 11'33	-0°02'47
				minimum elong	-11161 Nov 29 j 08:36	21° \mathring{M} 11'33	0°02'38
conjunction	-11167 Nov 15 j 06:41	7° \mathring{M} 51'25	0°34'48	behind sun begin	-11161 Nov 29 j 02:04	21° \mathring{M} 10'58	
minimum elong	-11167 Nov 15 j 06:41	7° \mathring{M} 51'25	0°35'04	behind sun end	-11161 Nov 29 j 15:07	21° \mathring{M} 12'08	
max. Earth dist.	-11167 Nov 16 j 09:17	7° \mathring{M} 53'55	30.97592 AU	max. Earth dist.	-11161 Nov 30 j 10:50	21° \mathring{M} 14'00	30.92929 AU
morning rise	-11167 Dec 01 j 05:02	8° \mathring{M} 27'04		morning rise	-11161 Dec 15 j 10:48	21° \mathring{M} 47'27	
retrograde	-11166 Mar 02 j 22:41	10° \mathring{M} 25'46		retrograde	-11160 Mar 16 j 04:48	23° \mathring{M} 46'04	
opposition	-11166 May 22 j 14:41	9° \mathring{M} 00'28	0°33'50	opposition	-11160 Jun 04 j 11:57	22° \mathring{M} 20'36	-0°06'20
min. Earth dist.	-11166 May 21 j 14:00	9° \mathring{M} 02'11	28.97112 AU	min. Earth dist.	-11160 Jun 03 j 12:05	22° \mathring{M} 22'16	28.92753 AU
direct	-11166 Aug 08 j 00:42	7° \mathring{M} 37'36		direct	-11160 Aug 20 j 17:03	20° \mathring{M} 57'29	
evening set	-11166 Nov 01 j 23:46	9° \mathring{M} 29'33		evening set	-11160 Nov 14 j 22:46	22° \mathring{M} 49'40	
conjunction	-11166 Nov 17 j 18:37	10° \mathring{M} 04'50	0°28'38	conjunction	-11160 Nov 30 j 21:29	23° \mathring{M} 25'13	-0°09'04
minimum elong	-11166 Nov 17 j 18:38	10° \mathring{M} 04'50	0°28'53	minimum elong	-11160 Nov 30 j 21:29	23° \mathring{M} 25'13	0°08'57
max. Earth dist.	-11166 Nov 18 j 20:16	10° \mathring{M} 07'15	30.96569 AU	behind sun begin	-11160 Nov 30 j 15:54	23° \mathring{M} 24'43	
morning rise	-11166 Dec 03 j 17:50	10° \mathring{M} 40'32		behind sun end	-11160 Dec 01 j 03:04	23° \mathring{M} 25'43	
retrograde	-11165 Mar 05 j 11:21	12° \mathring{M} 39'13		max. Earth dist.	-11160 Dec 02 j 00:13	23° \mathring{M} 27'43	30.92525 AU
min. Earth dist.	-11165 May 24 j 02:00	11° \mathring{M} 15'33	28.96113 AU	morning rise	-11160 Dec 17 j 00:04	24° \mathring{M} 01'09	
opposition	-11165 May 25 j 02:28	11° \mathring{M} 13'50	0°27'13	retrograde	-11159 Mar 18 j 18:40	25° \mathring{M} 59'47	
direct	-11165 Aug 10 j 10:23	9° \mathring{M} 50'53		opposition	-11159 Jun 06 j 23:08	24° \mathring{M} 34'21	-0°13'05
evening set	-11165 Nov 04 j 11:19	11° \mathring{M} 42'50		min. Earth dist.	-11159 Jun 05 j 22:45	24° \mathring{M} 36'04	28.92362 AU
				direct	-11159 Aug 23 j 05:08	23° \mathring{M} 11'14	
conjunction	-11165 Nov 20 j 06:57	12° \mathring{M} 18'11	0°22'25	evening set	-11159 Nov 17 j 11:18	25° \mathring{M} 03'30	
minimum elong	-11165 Nov 20 j 06:57	12° \mathring{M} 18'11	0°22'39				
max. Earth dist.	-11165 Nov 21 j 09:40	12° \mathring{M} 20'41	30.95598 AU	conjunction	-11159 Dec 03 j 10:22	25° \mathring{M} 39'06	-0°15'20
morning rise	-11165 Dec 06 j 06:41	12° \mathring{M} 53'54		minimum elong	-11159 Dec 03 j 10:22	25° \mathring{M} 39'06	0°15'15
retrograde	-11164 Mar 06 j 22:45	14° \mathring{M} 52'33		behind sun begin	-11159 Dec 03 j 08:28	25° \mathring{M} 38'56	
opposition	-11164 May 26 j 14:00	13° \mathring{M} 27'07	0°20'33	behind sun end	-11159 Dec 03 j 12:15	25° \mathring{M} 39'16	
min. Earth dist.	-11164 May 25 j 13:45	13° \mathring{M} 28'49	28.95188 AU	max. Earth dist.	-11159 Dec 04 j 11:45	25° \mathring{M} 41'28	30.92138 AU
direct	-11164 Aug 11 j 21:10	12° \mathring{M} 04'06		morning rise	-11159 Dec 19 j 13:35	26° \mathring{M} 15'04	
evening set	-11164 Nov 05 j 23:02	13° \mathring{M} 56'04		retrograde	-11158 Mar 21 j 08:34	28° \mathring{M} 13'43	
				min. Earth dist.	-11158 Jun 08 j 11:27	26° \mathring{M} 49'57	28.91977 AU
conjunction	-11164 Nov 21 j 19:16	14° \mathring{M} 31'27	0°16'11	opposition	-11158 Jun 09 j 10:37	26° \mathring{M} 48'19	-0°19'48
minimum elong	-11164 Nov 21 j 19:16	14° \mathring{M} 31'27	0°16'24	direct	-11158 Aug 25 j 14:33	25° \mathring{M} 25'12	
max. Earth dist.	-11164 Nov 22 j 21:20	14° \mathring{M} 33'53	30.94741 AU	evening set	-11158 Nov 19 j 23:41	27° \mathring{M} 17'33	
morning rise	-11164 Dec 07 j 19:43	15° \mathring{M} 07'13					
retrograde	-11163 Mar 09 j 12:55	17° \mathring{M} 05'51		conjunction	-11158 Dec 05 j 23:28	27° \mathring{M} 53'11	-0°21'37
min. Earth dist.	-11163 May 28 j 00:42	15° \mathring{M} 42'07	28.94394 AU	minimum elong	-11158 Dec 05 j 23:27	27° \mathring{M} 53'11	0°21'32
opposition	-11163 May 29 j 01:33	15° \mathring{M} 40'22	0°13'51	max. Earth dist.	-11158 Dec 07 j 01:24	27° \mathring{M} 55'37	30.91728 AU
direct	-11163 Aug 14 j 07:21	14° \mathring{M} 17'18		morning rise	-11158 Dec 22 j 02:59	28° \mathring{M} 29'12	
evening set	-11163 Nov 08 j 10:43	16° \mathring{M} 09'18			-11157 Feb 10 j 00:31	0° \mathring{A}	
				retrograde	-11157 Mar 23 j 20:18	0° \mathring{A} 27'51	
conjunction	-11163 Nov 24 j 07:33	16° \mathring{M} 44'43	0°09'56		-11157 May 05 j 08:59	30° \mathring{R} \mathring{M}	
minimum elong	-11163 Nov 24 j 07:33	16° \mathring{M} 44'43	0°10'07	opposition	-11157 Jun 11 j 21:59	29° \mathring{M} 02'29	-0°26'30
behind sun begin	-11163 Nov 24 j 02:20	16° \mathring{M} 44'15		min. Earth dist.	-11157 Jun 10 j 22:54	29° \mathring{M} 04'06	28.91528 AU
behind sun end	-11163 Nov 24 j 12:46	16° \mathring{M} 45'11		direct	-11157 Aug 28 j 02:27	27° \mathring{M} 39'20	
max. Earth dist.	-11163 Nov 25 j 10:06	16° \mathring{M} 47'12	30.94001 AU	evening set	-11157 Nov 22 j 12:36	29° \mathring{M} 31'47	
morning rise	-11163 Dec 10 j 08:32	17° \mathring{M} 20'32			-11157 Dec 05 j 05:17	0° \mathring{A}	
retrograde	-11162 Mar 12 j 01:27	19° \mathring{M} 19'09					
opposition	-11162 May 31 j 13:04	17° \mathring{M} 53'39	0°07'08	conjunction	-11157 Dec 08 j 12:45	0° \mathring{A} 07'26	-0°27'51
min. Earth dist.	-11162 May 30 j 12:54	17° \mathring{M} 55'21	28.93724 AU	minimum elong	-11157 Dec 08 j 12:44	0° \mathring{A} 07'26	0°27'49
direct	-11162 Aug 16 j 18:59	16° \mathring{M} 30'33		max. Earth dist.	-11157 Dec 09 j 12:53	0° \mathring{A} 09'42	30.91240 AU
evening set	-11162 Nov 10 j 22:31	18° \mathring{M} 22'36		morning rise	-11157 Dec 24 j 16:52	0° \mathring{A} 43'29	
				retrograde	-11156 Mar 25 j 09:20	2° \mathring{A} 42'07	
conjunction	-11162 Nov 26 j 20:01	18° \mathring{M} 58'04	0°03'40	min. Earth dist.	-11156 Jun 12 j 11:07	1° \mathring{A} 18'19	28.90998 AU
minimum elong	-11162 Nov 26 j 20:02	18° \mathring{M} 58'04	0°03'51	opposition	-11156 Jun 13 j 09:19	1° \mathring{A} 16'46	-0°33'10
behind sun begin	-11162 Nov 26 j 13:34	18° \mathring{M} 57'29			-11156 Aug 10 j 03:48	30° \mathring{R} \mathring{M}	

Attention, astronomical year style is used: The year -11156 in astronomical counting style is the year 11157 BCE in historical counting style.

direct	-11156 Aug 29 j 12:04	29° <u>17</u> 53'34		morning rise	-11149 Jan 09 j 17:30	16° <u>23</u> 28	
	-11156 Sep 17 j 17:13	0° <u>2</u>		retrograde	-11149 Apr 11 j 04:24	18° <u>21</u> 45	
evening set	-11156 Nov 24 j 01:30	1° <u>2</u> 46'05		opposition	-11149 Jun 29 j 14:46	16° <u>25</u> 6'19	-1°17'49
				min. Earth dist.	-11149 Jun 28 j 20:17	16° <u>25</u> 7'37	28.87222 AU
conjunction	-11156 Dec 10 j 02:15	2° <u>2</u> 21'48	-0°34'04	direct	-11149 Sep 14 j 20:05	15° <u>2</u> 32'38	
minimum elong	-11156 Dec 10 j 02:15	2° <u>2</u> 21'48	0°34'02	evening set	-11149 Dec 10 j 21:36	17° <u>2</u> 25'43	
max. Earth dist.	-11156 Dec 11 j 02:38	2° <u>2</u> 24'04	30.90651 AU				
morning rise	-11156 Dec 26 j 06:39	2° <u>2</u> 57'51		conjunction	-11149 Dec 27 j 01:04	18° <u>2</u> 01'35	-1°15'33
retrograde	-11155 Mar 27 j 20:59	4° <u>2</u> 56'28		minimum elong	-11149 Dec 27 j 01:04	18° <u>2</u> 01'35	1°15'41
opposition	-11155 Jun 15 j 20:39	3° <u>2</u> 31'06	-0°39'47	max. Earth dist.	-11149 Dec 27 j 22:14	18° <u>2</u> 03'34	30.87077 AU
min. Earth dist.	-11155 Jun 14 j 23:23	3° <u>2</u> 32'36	28.90363 AU	morning rise	-11148 Jan 12 j 07:27	18° <u>2</u> 37'45	
direct	-11155 Aug 31 j 22:47	2° <u>2</u> 07'51		retrograde	-11148 Apr 12 j 16:15	20° <u>2</u> 35'59	
evening set	-11155 Nov 26 j 14:23	4° <u>2</u> 00'26		min. Earth dist.	-11148 Jun 30 j 07:02	19° <u>2</u> 11'54	28.87101 AU
				opposition	-11148 Jul 01 j 01:30	19° <u>2</u> 10'36	-1°23'49
conjunction	-11155 Dec 12 j 15:30	4° <u>2</u> 36'09	-0°40'13	direct	-11148 Sep 16 j 08:12	17° <u>2</u> 46'54	
minimum elong	-11155 Dec 12 j 15:30	4° <u>2</u> 36'09	0°40'13	evening set	-11148 Dec 12 j 11:20	19° <u>2</u> 40'06	
max. Earth dist.	-11155 Dec 13 j 14:29	4° <u>2</u> 38'18	30.89989 AU				
morning rise	-11155 Dec 28 j 20:22	5° <u>2</u> 12'14		conjunction	-11148 Dec 28 j 14:55	20° <u>2</u> 15'58	-1°21'05
retrograde	-11154 Mar 30 j 10:31	7° <u>2</u> 10'48		minimum elong	-11148 Dec 28 j 14:54	20° <u>2</u> 15'58	1°21'15
min. Earth dist.	-11154 Jun 17 j 10:39	5° <u>2</u> 46'55	28.89680 AU	max. Earth dist.	-11148 Dec 29 j 10:23	20° <u>2</u> 17'48	30.87008 AU
opposition	-11154 Jun 18 j 07:51	5° <u>2</u> 45'25	-0°46'19	morning rise	-11147 Jan 13 j 21:37	20° <u>2</u> 52'09	
direct	-11154 Sep 03 j 09:19	4° <u>2</u> 22'04		retrograde	-11147 Apr 15 j 05:54	22° <u>2</u> 50'21	
evening set	-11154 Nov 29 j 03:24	6° <u>2</u> 14'44		opposition	-11147 Jul 03 j 12:25	21° <u>2</u> 25'01	-1°29'41
				min. Earth dist.	-11147 Jul 02 j 18:42	21° <u>2</u> 26'17	28.87083 AU
conjunction	-11154 Dec 15 j 04:58	6° <u>2</u> 50'29	-0°46'19	direct	-11147 Sep 18 j 18:05	20° <u>2</u> 01'18	
minimum elong	-11154 Dec 15 j 04:57	6° <u>2</u> 50'29	0°46'20	evening set	-11147 Dec 15 j 00:55	21° <u>2</u> 54'38	
max. Earth dist.	-11154 Dec 16 j 03:48	6° <u>2</u> 52'37	30.89288 AU				
morning rise	-11154 Dec 31 j 10:08	7° <u>2</u> 26'35		conjunction	-11147 Dec 31 j 04:52	22° <u>2</u> 30'31	-1°26'31
retrograde	-11153 Apr 01 j 22:16	9° <u>2</u> 25'05		minimum elong	-11147 Dec 31 j 04:51	22° <u>2</u> 30'31	1°26'43
opposition	-11153 Jun 20 j 18:58	7° <u>2</u> 59'40	-0°52'48	max. Earth dist.	-11146 Jan 01 j 00:47	22° <u>2</u> 32'23	30.87000 AU
min. Earth dist.	-11153 Jun 19 j 23:04	8° <u>2</u> 01'04	28.88993 AU	morning rise	-11146 Jan 16 j 11:32	23° <u>2</u> 06'42	
direct	-11153 Sep 05 j 21:23	6° <u>2</u> 36'14		retrograde	-11146 Apr 17 j 17:40	25° <u>2</u> 04'52	
evening set	-11153 Dec 01 j 16:27	8° <u>2</u> 28'58		opposition	-11146 Jul 05 j 23:19	23° <u>2</u> 39'36	-1°35'25
				min. Earth dist.	-11146 Jul 05 j 06:35	23° <u>2</u> 40'48	28.87092 AU
conjunction	-11153 Dec 17 j 18:30	9° <u>2</u> 04'44	-0°52'20	direct	-11146 Sep 21 j 04:45	22° <u>2</u> 15'52	
minimum elong	-11153 Dec 17 j 18:30	9° <u>2</u> 04'44	0°52'23	evening set	-11146 Dec 17 j 14:54	24° <u>2</u> 09'20	
max. Earth dist.	-11153 Dec 18 j 16:47	9° <u>2</u> 06'49	30.88628 AU				
morning rise	-11152 Jan 03 j 00:01	9° <u>2</u> 40'51		conjunction	-11145 Jan 02 j 18:59	24° <u>2</u> 45'14	-1°31'49
retrograde	-11152 Apr 03 j 12:07	11° <u>2</u> 39'18		minimum elong	-11145 Jan 02 j 18:58	24° <u>2</u> 45'14	1°32'02
min. Earth dist.	-11152 Jun 21 j 09:31	10° <u>2</u> 15'18	28.88368 AU	max. Earth dist.	-11145 Jan 03 j 13:09	24° <u>2</u> 46'56	30.87009 AU
opposition	-11152 Jun 22 j 05:56	10° <u>2</u> 13'51	-0°59'12	morning rise	-11145 Jan 19 j 01:53	25° <u>2</u> 21'25	
direct	-11152 Sep 07 j 09:45	8° <u>2</u> 50'20		retrograde	-11145 Apr 20 j 06:48	27° <u>2</u> 19'32	
evening set	-11152 Dec 03 j 05:44	10° <u>2</u> 43'08		opposition	-11145 Jul 08 j 10:04	25° <u>2</u> 54'21	-1°41'01
				min. Earth dist.	-11145 Jul 07 j 17:45	25° <u>2</u> 55'30	28.87093 AU
conjunction	-11152 Dec 19 j 08:02	11° <u>2</u> 18'56	-0°58'16	direct	-11145 Sep 23 j 15:26	24° <u>2</u> 30'33	
minimum elong	-11152 Dec 19 j 08:01	11° <u>2</u> 18'56	0°58'21	evening set	-11145 Dec 20 j 05:04	26° <u>2</u> 24'10	
max. Earth dist.	-11152 Dec 20 j 05:37	11° <u>2</u> 20'57	30.88034 AU				
morning rise	-11151 Jan 04 j 13:51	11° <u>2</u> 55'04		conjunction	-11144 Jan 05 j 09:24	27° <u>2</u> 00'05	-1°36'59
retrograde	-11151 Apr 06 j 00:36	13° <u>2</u> 53'27		minimum elong	-11144 Jan 05 j 09:23	27° <u>2</u> 00'05	1°37'13
opposition	-11151 Jun 24 j 16:54	12° <u>2</u> 28'00	-1°05'30	max. Earth dist.	-11144 Jan 06 j 02:58	27° <u>2</u> 01'43	30.86958 AU
min. Earth dist.	-11151 Jun 23 j 21:54	12° <u>2</u> 29'20	28.87845 AU	morning rise	-11144 Jan 21 j 16:18	27° <u>2</u> 36'15	
direct	-11151 Sep 09 j 20:22	11° <u>2</u> 04'24		retrograde	-11144 Apr 21 j 18:02	29° <u>2</u> 34'20	
evening set	-11151 Dec 05 j 18:53	12° <u>2</u> 57'18		opposition	-11144 Jul 09 j 21:02	28° <u>2</u> 09'11	-1°46'27
				min. Earth dist.	-11144 Jul 09 j 06:30	28° <u>2</u> 10'13	28.87006 AU
conjunction	-11151 Dec 21 j 21:40	13° <u>2</u> 33'07	-1°04'07	direct	-11144 Sep 25 j 02:54	26° <u>2</u> 45'21	
minimum elong	-11151 Dec 21 j 21:40	13° <u>2</u> 33'07	1°04'14	evening set	-11144 Dec 21 j 19:19	28° <u>2</u> 39'05	
max. Earth dist.	-11151 Dec 22 j 19:34	13° <u>2</u> 35'09	30.87576 AU				
morning rise	-11150 Jan 07 j 03:37	14° <u>2</u> 09'15		conjunction	-11143 Jan 06 j 23:50	29° <u>2</u> 15'01	-1°42'00
retrograde	-11150 Apr 08 j 14:53	16° <u>2</u> 07'35		minimum elong	-11143 Jan 06 j 23:49	29° <u>2</u> 15'00	1°42'16
min. Earth dist.	-11150 Jun 26 j 08:10	14° <u>2</u> 43'31	28.87460 AU	max. Earth dist.	-11143 Jan 07 j 15:57	29° <u>2</u> 16'31	30.86820 AU
opposition	-11150 Jun 27 j 03:46	14° <u>2</u> 42'08	-1°11'43	morning rise	-11143 Jan 23 j 06:46	29° <u>2</u> 51'11	
direct	-11150 Sep 12 j 09:27	13° <u>2</u> 18'29			-11143 Jan 27 j 08:36	0° <u>1</u>	
evening set	-11150 Dec 08 j 08:10	15° <u>2</u> 11'28		retrograde	-11143 Apr 24 j 07:48	1° <u>1</u> 49'11	
				opposition	-11143 Jul 12 j 07:48	0° <u>1</u> 24'05	-1°51'44
conjunction	-11150 Dec 24 j 11:09	15° <u>2</u> 47'19	-1°09'53	min. Earth dist.	-11143 Jul 11 j 17:20	0° <u>1</u> 25'06	28.86821 AU
minimum elong	-11150 Dec 24 j 11:08	15° <u>2</u> 47'19	1°10'00		-11143 Jul 26 j 15:39	30° <u>1</u>	
max. Earth dist.	-11150 Dec 25 j 07:45	15° <u>2</u> 49'14	30.87256 AU	direct	-11143 Sep 27 j 15:07	29° <u>2</u> 00'10	

Attention, astronomical year style is used: The year -11143 in astronomical counting style is the year 11144 BCE in historical counting style.

	-11143 Nov 27 j 15:11	0°M				-11136 Jan 24 j 23:27	15°M	
evening set	-11143 Dec 24 j 09:39	0°M.54'01			max. Earth dist.	-11136 Jan 24 j 14:28	14°M.59'10	30.85356 AU
					morning rise	-11136 Feb 09 j 11:50	15°M.34'23	
conjunction	-11142 Jan 09 j 14:16	1°M.29'57	-1°46'52		retrograde	-11136 May 10 j 00:09	17°M.31'45	
minimum elong	-11142 Jan 09 j 14:15	1°M.29'57	1°47'09		opposition	-11136 Jul 27 j 10:08	16°M.06'50	-2°23'31
max. Earth dist.	-11142 Jan 10 j 05:04	1°M.31'20	30.86575 AU		min. Earth dist.	-11136 Jul 27 j 01:23	16°M.07'27	28.85592 AU
morning rise	-11142 Jan 25 j 21:15	2°M.06'07				-11136 Sep 10 j 12:18	15°R.M.	
retrograde	-11142 Apr 26 j 19:51	4°M.04'02			direct	-11136 Oct 13 j 01:58	14°M.42'23	
opposition	-11142 Jul 14 j 18:41	2°M.38'56	-1°56'51			-11136 Nov 14 j 08:49	15°M.	
min. Earth dist.	-11142 Jul 14 j 06:13	2°M.39'49	28.86549 AU		evening set	-11135 Jan 09 j 14:21	16°M.37'05	
direct	-11142 Sep 30 j 02:13	1°M.14'57						
evening set	-11142 Dec 26 j 23:50	3°M.08'54			conjunction	-11135 Jan 25 j 19:40	17°M.13'02	-2°15'56
					minimum elong	-11135 Jan 25 j 19:39	17°M.13'02	2°16'22
conjunction	-11141 Jan 12 j 04:45	3°M.44'50	-1°51'34		max. Earth dist.	-11135 Jan 26 j 04:54	17°M.13'53	30.85514 AU
minimum elong	-11141 Jan 12 j 04:44	3°M.44'50	1°51'52		morning rise	-11135 Feb 11 j 02:07	17°M.49'06	
max. Earth dist.	-11141 Jan 12 j 19:02	3°M.46'10	30.86273 AU		retrograde	-11135 May 12 j 10:40	19°M.46'24	
morning rise	-11141 Jan 28 j 11:41	4°M.20'59			opposition	-11135 Jul 29 j 20:41	18°M.21'34	-2°27'14
retrograde	-11141 Apr 29 j 09:37	6°M.18'49			min. Earth dist.	-11135 Jul 29 j 13:26	18°M.22'05	28.85814 AU
opposition	-11141 Jul 17 j 05:21	4°M.53'43	-2°01'47		direct	-11135 Oct 15 j 12:53	16°M.57'06	
min. Earth dist.	-11141 Jul 16 j 16:58	4°M.54'36	28.86225 AU		evening set	-11134 Jan 12 j 04:56	18°M.51'57	
direct	-11141 Oct 02 j 16:11	3°M.29'38						
evening set	-11141 Dec 29 j 14:20	5°M.23'42			conjunction	-11134 Jan 28 j 10:15	19°M.27'53	-2°19'19
					minimum elong	-11134 Jan 28 j 10:14	19°M.27'53	2°19'45
conjunction	-11140 Jan 14 j 19:14	5°M.59'38	-1°56'05		max. Earth dist.	-11134 Jan 28 j 18:12	19°M.28'38	30.85787 AU
minimum elong	-11140 Jan 14 j 19:13	5°M.59'38	1°56'25		morning rise	-11134 Feb 13 j 16:38	20°M.03'57	
max. Earth dist.	-11140 Jan 15 j 07:39	6°M.00'48	30.85934 AU		retrograde	-11134 May 15 j 00:15	22°M.01'10	
morning rise	-11140 Jan 31 j 02:16	6°M.35'47			opposition	-11134 Aug 01 j 07:04	20°M.36'26	-2°30'43
retrograde	-11140 Apr 30 j 22:26	8°M.33'31			min. Earth dist.	-11134 Jul 31 j 23:43	20°M.36'57	28.86125 AU
opposition	-11140 Jul 18 j 15:59	7°M.08'25	-2°06'32		direct	-11134 Oct 18 j 00:04	19°M.11'56	
min. Earth dist.	-11140 Jul 18 j 05:13	7°M.09'11	28.85912 AU		evening set	-11133 Jan 14 j 19:38	21°M.06'57	
direct	-11140 Oct 04 j 03:43	5°M.44'14						
evening set	-11140 Dec 31 j 04:40	7°M.38'25			conjunction	-11133 Jan 31 j 00:56	21°M.42'53	-2°22'28
					minimum elong	-11133 Jan 31 j 00:55	21°M.42'53	2°22'56
conjunction	-11139 Jan 16 j 09:50	8°M.14'22	-2°00'26		max. Earth dist.	-11133 Jan 31 j 07:50	21°M.43'32	30.86101 AU
minimum elong	-11139 Jan 16 j 09:48	8°M.14'21	2°00'47		morning rise	-11133 Feb 16 j 07:10	22°M.18'56	
max. Earth dist.	-11139 Jan 16 j 22:23	8°M.15'32	30.85634 AU		retrograde	-11133 May 17 j 11:26	24°M.16'05	
morning rise	-11139 Feb 01 j 16:39	8°M.50'29			opposition	-11133 Aug 03 j 17:41	22°M.51'26	-2°33'59
retrograde	-11139 May 03 j 10:39	10°M.48'06			min. Earth dist.	-11133 Aug 03 j 12:23	22°M.51'49	28.86452 AU
opposition	-11139 Jul 21 j 02:34	9°M.23'02	-2°11'05		direct	-11133 Oct 20 j 11:05	21°M.26'55	
min. Earth dist.	-11139 Jul 20 j 16:01	9°M.23'48	28.85651 AU		evening set	-11132 Jan 17 j 10:29	23°M.22'05	
direct	-11139 Oct 06 j 16:41	7°M.58'47						
evening set	-11138 Jan 02 j 18:59	9°M.53'04			conjunction	-11132 Feb 02 j 15:51	23°M.58'01	-2°25'25
					minimum elong	-11132 Feb 02 j 15:50	23°M.58'01	2°25'53
conjunction	-11138 Jan 19 j 00:02	10°M.29'00	-2°04'36		max. Earth dist.	-11132 Feb 02 j 21:53	23°M.58'35	30.86409 AU
minimum elong	-11138 Jan 19 j 00:01	10°M.29'00	2°04'58		morning rise	-11132 Feb 18 j 21:51	24°M.34'03	
max. Earth dist.	-11138 Jan 19 j 10:44	10°M.30'00	30.85415 AU		retrograde	-11132 May 19 j 00:36	26°M.31'07	
morning rise	-11138 Feb 04 j 06:57	11°M.05'08			opposition	-11132 Aug 05 j 04:07	25°M.06'33	-2°37'00
retrograde	-11138 May 06 j 00:20	13°M.02'39			min. Earth dist.	-11132 Aug 04 j 23:07	25°M.06'54	28.86733 AU
opposition	-11138 Jul 23 j 13:10	11°M.37'37	-2°15'26		direct	-11132 Oct 22 j 01:06	23°M.41'58	
min. Earth dist.	-11138 Jul 23 j 03:22	11°M.38'19	28.85505 AU		evening set	-11131 Jan 19 j 01:29	25°M.37'18	
direct	-11138 Oct 09 j 03:35	10°M.13'17						
evening set	-11137 Jan 05 j 09:19	12°M.07'42			conjunction	-11131 Feb 04 j 06:41	26°M.13'14	-2°28'08
					minimum elong	-11131 Feb 04 j 06:40	26°M.13'13	2°28'38
conjunction	-11137 Jan 21 j 14:36	12°M.43'38	-2°08'35		max. Earth dist.	-11131 Feb 04 j 10:39	26°M.13'36	30.86643 AU
minimum elong	-11137 Jan 21 j 14:35	12°M.43'38	2°08'58		morning rise	-11131 Feb 20 j 12:35	26°M.49'14	
max. Earth dist.	-11137 Jan 22 j 01:41	12°M.44'40	30.85315 AU		retrograde	-11131 May 21 j 13:12	28°M.46'12	
morning rise	-11137 Feb 06 j 21:17	13°M.19'44			opposition	-11131 Aug 07 j 14:49	27°M.21'41	-2°39'48
	-11137 Apr 06 j 05:03	15°M.			min. Earth dist.	-11131 Aug 07 j 11:38	27°M.21'55	28.86941 AU
retrograde	-11137 May 08 j 11:37	15°M.17'11			direct	-11131 Oct 24 j 12:55	25°M.57'03	
	-11137 Jun 09 j 22:41	15°R.M.			evening set	-11130 Jan 21 j 16:08	27°M.52'30	
opposition	-11137 Jul 25 j 23:38	13°M.52'12	-2°19'35					
min. Earth dist.	-11137 Jul 25 j 14:46	13°M.52'50	28.85477 AU		conjunction	-11130 Feb 06 j 21:28	28°M.28'25	-2°30'38
direct	-11137 Oct 11 j 14:52	12°M.27'48			minimum elong	-11130 Feb 06 j 21:28	28°M.28'25	2°31'07
evening set	-11136 Jan 07 j 23:53	14°M.22'21			max. Earth dist.	-11130 Feb 07 j 01:02	28°M.28'45	30.86797 AU
					morning rise	-11130 Feb 23 j 03:03	29°M.04'24	
conjunction	-11136 Jan 24 j 05:07	14°M.58'17	-2°12'22			-11130 Mar 22 j 16:10	0°Z	
minimum elong	-11136 Jan 24 j 05:06	14°M.58'17	2°12'45		retrograde	-11130 May 24 j 01:47	1°Z.01'15	

Attention, astronomical year style is used: The year -11130 in astronomical counting style is the year 11131 BCE in historical counting style.

	-11130 Jul 27 j 07:14	30° \mathbb{R} \mathbb{M}		conjunction	-11123 Feb 23 j 04:07	14° \mathbb{A} 10'55	-2°41'31
opposition	-11130 Aug 10 j 01:21	29° \mathbb{M} 36'47	-2°42'20	minimum elong	-11123 Feb 23 j 04:07	14° \mathbb{A} 10'54	2°42'07
min. Earth dist.	-11130 Aug 09 j 22:51	29° \mathbb{M} 36'58	28.87047 AU	max. Earth dist.	-11123 Feb 23 j 00:20	14° \mathbb{A} 10'33	30.87979 AU
direct	-11130 Oct 27 j 02:22	28° \mathbb{M} 12'05		morning rise	-11123 Mar 11 j 08:09	14° \mathbb{A} 46'43	
	-11129 Jan 20 j 18:28	0° \mathbb{A}		retrograde	-11123 Jun 08 j 11:28	16° \mathbb{A} 42'34	
evening set	-11129 Jan 24 j 07:07	0° \mathbb{A} 07'37		opposition	-11123 Aug 25 j 01:53	15° \mathbb{A} 18'25	-2°53'05
				min. Earth dist.	-11123 Aug 25 j 04:58	15° \mathbb{A} 18'12	28.88505 AU
conjunction	-11129 Feb 09 j 12:16	0° \mathbb{A} 43'32	-2°32'54	direct	-11123 Nov 11 j 15:32	13° \mathbb{A} 53'10	
minimum elong	-11129 Feb 09 j 12:15	0° \mathbb{A} 43'32	2°33'25	evening set	-11122 Feb 09 j 13:46	15° \mathbb{A} 49'24	
max. Earth dist.	-11129 Feb 09 j 13:20	0° \mathbb{A} 43'38	30.86864 AU				
morning rise	-11129 Feb 25 j 17:48	1° \mathbb{A} 19'29		conjunction	-11122 Feb 25 j 18:27	16° \mathbb{A} 25'15	-2°42'07
retrograde	-11129 May 26 j 15:42	3° \mathbb{A} 16'12		minimum elong	-11122 Feb 25 j 18:27	16° \mathbb{A} 25'15	2°42'41
opposition	-11129 Aug 12 j 11:46	1° \mathbb{A} 51'45	-2°44'38	max. Earth dist.	-11122 Feb 25 j 13:20	16° \mathbb{A} 24'46	30.88585 AU
min. Earth dist.	-11129 Aug 12 j 10:30	1° \mathbb{A} 51'50	28.87095 AU	morning rise	-11122 Mar 13 j 22:19	17° \mathbb{A} 01'02	
direct	-11129 Oct 29 j 14:54	0° \mathbb{A} 26'57		retrograde	-11122 Jun 10 j 23:19	18° \mathbb{A} 56'47	
evening set	-11128 Jan 26 j 21:56	2° \mathbb{A} 22'35		opposition	-11122 Aug 27 j 12:17	17° \mathbb{A} 32'44	-2°53'35
				min. Earth dist.	-11122 Aug 27 j 16:49	17° \mathbb{A} 32'25	28.89174 AU
conjunction	-11128 Feb 12 j 03:13	2° \mathbb{A} 58'29	-2°34'56	direct	-11122 Nov 14 j 02:37	16° \mathbb{A} 07'29	
minimum elong	-11128 Feb 12 j 03:12	2° \mathbb{A} 58'29	2°35'27	evening set	-11121 Feb 12 j 04:21	18° \mathbb{A} 03'51	
max. Earth dist.	-11128 Feb 12 j 04:12	2° \mathbb{A} 58'35	30.86884 AU				
morning rise	-11128 Feb 28 j 08:22	3° \mathbb{A} 34'25		conjunction	-11121 Feb 28 j 09:06	18° \mathbb{A} 39'41	-2°42'27
retrograde	-11128 May 28 j 02:25	5° \mathbb{A} 30'58		minimum elong	-11121 Feb 28 j 09:05	18° \mathbb{A} 39'41	2°43'03
opposition	-11128 Aug 13 j 22:15	4° \mathbb{A} 06'33	-2°46'41	max. Earth dist.	-11121 Feb 28 j 03:51	18° \mathbb{A} 39'12	30.89294 AU
min. Earth dist.	-11128 Aug 13 j 22:18	4° \mathbb{A} 06'33	28.87109 AU	morning rise	-11121 Mar 16 j 12:36	19° \mathbb{A} 15'28	
direct	-11128 Oct 31 j 03:52	2° \mathbb{A} 41'39		retrograde	-11121 Jun 13 j 11:33	21° \mathbb{A} 11'06	
evening set	-11127 Jan 28 j 12:42	4° \mathbb{A} 37'22		opposition	-11121 Aug 29 j 22:32	19° \mathbb{A} 47'10	-2°53'48
				min. Earth dist.	-11121 Aug 30 j 03:37	19° \mathbb{A} 46'48	28.89898 AU
conjunction	-11127 Feb 13 j 17:45	5° \mathbb{A} 13'15	-2°36'44	direct	-11121 Nov 16 j 15:53	18° \mathbb{A} 21'55	
minimum elong	-11127 Feb 13 j 17:44	5° \mathbb{A} 13'15	2°37'17	evening set	-11120 Feb 14 j 19:12	20° \mathbb{A} 18'25	
max. Earth dist.	-11127 Feb 13 j 16:43	5° \mathbb{A} 13'10	30.86908 AU				
morning rise	-11127 Mar 01 j 22:49	5° \mathbb{A} 49'10		conjunction	-11120 Mar 01 j 23:39	20° \mathbb{A} 54'15	-2°42'32
retrograde	-11127 May 30 j 14:51	7° \mathbb{A} 45'33		minimum elong	-11120 Mar 01 j 23:39	20° \mathbb{A} 54'15	2°43'08
opposition	-11127 Aug 16 j 08:35	6° \mathbb{A} 21'10	-2°48'29	max. Earth dist.	-11120 Mar 01 j 16:12	20° \mathbb{A} 53'34	30.90028 AU
min. Earth dist.	-11127 Aug 16 j 08:55	6° \mathbb{A} 21'08	28.87165 AU	morning rise	-11120 Mar 18 j 03:01	21° \mathbb{A} 30'00	
direct	-11127 Nov 02 j 15:59	4° \mathbb{A} 56'09		retrograde	-11120 Jun 15 j 01:29	23° \mathbb{A} 25'33	
evening set	-11126 Jan 31 j 03:21	6° \mathbb{A} 51'58		opposition	-11120 Aug 31 j 09:01	22° \mathbb{A} 01'43	-2°53'46
				min. Earth dist.	-11120 Aug 31 j 15:10	22° \mathbb{A} 01'17	28.90635 AU
conjunction	-11126 Feb 16 j 08:26	7° \mathbb{A} 27'51	-2°38'18	direct	-11120 Nov 18 j 04:23	20° \mathbb{A} 36'28	
minimum elong	-11126 Feb 16 j 08:26	7° \mathbb{A} 27'51	2°38'50	evening set	-11119 Feb 16 j 09:42	22° \mathbb{A} 33'06	
max. Earth dist.	-11126 Feb 16 j 07:19	7° \mathbb{A} 27'44	30.86987 AU				
morning rise	-11126 Mar 04 j 13:09	8° \mathbb{A} 03'44		conjunction	-11119 Mar 04 j 14:12	23° \mathbb{A} 08'56	-2°42'23
retrograde	-11126 Jun 02 j 01:09	9° \mathbb{A} 59'58		minimum elong	-11119 Mar 04 j 14:12	23° \mathbb{A} 08'56	2°43'00
opposition	-11126 Aug 18 j 18:55	8° \mathbb{A} 35'36	-2°50'02	max. Earth dist.	-11119 Mar 04 j 06:43	23° \mathbb{A} 08'14	30.90735 AU
min. Earth dist.	-11126 Aug 18 j 20:50	8° \mathbb{A} 35'28	28.87301 AU	morning rise	-11119 Mar 20 j 17:08	23° \mathbb{A} 44'39	
direct	-11126 Nov 05 j 03:18	7° \mathbb{A} 10'31		retrograde	-11119 Jun 17 j 12:23	25° \mathbb{A} 40'05	
evening set	-11125 Feb 02 j 18:00	9° \mathbb{A} 06'24		opposition	-11119 Sep 02 j 19:34	24° \mathbb{A} 16'22	-2°53'28
				min. Earth dist.	-11119 Sep 03 j 03:08	24° \mathbb{A} 15'50	28.91306 AU
conjunction	-11125 Feb 18 j 22:59	9° \mathbb{A} 42'17	-2°39'37	direct	-11119 Nov 20 j 17:36	22° \mathbb{A} 51'06	
minimum elong	-11125 Feb 18 j 22:58	9° \mathbb{A} 42'17	2°40'11	evening set	-11118 Feb 19 j 00:27	24° \mathbb{A} 47'50	
max. Earth dist.	-11125 Feb 18 j 20:25	9° \mathbb{A} 42'02	30.87184 AU				
morning rise	-11125 Mar 07 j 03:35	10° \mathbb{A} 18'08		conjunction	-11118 Mar 07 j 04:41	25° \mathbb{A} 23'39	-2°41'59
retrograde	-11125 Jun 04 j 13:40	12° \mathbb{A} 14'14		minimum elong	-11118 Mar 07 j 04:41	25° \mathbb{A} 23'39	2°42'35
opposition	-11125 Aug 21 j 05:12	10° \mathbb{A} 49'55	-2°51'18	max. Earth dist.	-11118 Mar 06 j 18:51	25° \mathbb{A} 22'44	30.91372 AU
min. Earth dist.	-11125 Aug 21 j 06:50	10° \mathbb{A} 49'48	28.87560 AU	morning rise	-11118 Mar 23 j 07:32	25° \mathbb{A} 59'22	
direct	-11125 Nov 07 j 15:04	9° \mathbb{A} 24'45		retrograde	-11118 Jun 20 j 01:30	27° \mathbb{A} 54'40	
evening set	-11124 Feb 05 j 08:42	11° \mathbb{A} 20'45		opposition	-11118 Sep 05 j 05:56	26° \mathbb{A} 31'02	-2°52'54
				min. Earth dist.	-11118 Sep 05 j 14:02	26° \mathbb{A} 30'27	28.91902 AU
conjunction	-11124 Feb 21 j 13:35	11° \mathbb{A} 56'36	-2°40'41	direct	-11118 Nov 23 j 05:58	25° \mathbb{A} 05'43	
minimum elong	-11124 Feb 21 j 13:34	11° \mathbb{A} 56'36	2°41'15	evening set	-11117 Feb 21 j 15:03	27° \mathbb{A} 02'32	
max. Earth dist.	-11124 Feb 21 j 10:20	11° \mathbb{A} 56'18	30.87500 AU				
morning rise	-11124 Mar 08 j 17:51	12° \mathbb{A} 32'27		conjunction	-11117 Mar 09 j 19:20	27° \mathbb{A} 38'21	-2°41'20
retrograde	-11124 Jun 05 j 23:28	14° \mathbb{A} 28'25		minimum elong	-11117 Mar 09 j 19:20	27° \mathbb{A} 38'21	2°41'58
opposition	-11124 Aug 22 j 15:35	13° \mathbb{A} 04'10	-2°52'20	max. Earth dist.	-11117 Mar 09 j 09:06	27° \mathbb{A} 37'24	30.91915 AU
min. Earth dist.	-11124 Aug 22 j 18:52	13° \mathbb{A} 03'56	28.87960 AU	morning rise	-11117 Mar 25 j 21:46	28° \mathbb{A} 14'02	
direct	-11124 Nov 09 j 02:16	11° \mathbb{A} 38'57					
evening set	-11123 Feb 06 j 23:16	13° \mathbb{A} 35'03		retrograde	-11117 Jun 22 j 12:24	0° \mathbb{B} 09'11	
					-11117 Jul 15 j 18:51	30° \mathbb{R} \mathbb{A}	

Attention, astronomical year style is used: The year -11117 in astronomical counting style is the year 11118 BCE in historical counting style.

opposition	-11117 Sep 07 j 16:33	28° \mathring{A} 45'38	-2°52'05	conjunction	-11110 Mar 25 j 21:41	13° \mathring{B} 17'14	-2°30'11
min. Earth dist.	-11117 Sep 08 j 02:33	28° \mathring{A} 44'55	28.92400 AU	minimum elong	-11110 Mar 25 j 21:42	13° \mathring{B} 17'14	2°30'47
direct	-11117 Nov 25 j 18:00	27° \mathring{A} 20'16		max. Earth dist.	-11110 Mar 25 j 05:54	13° \mathring{B} 15'46	30.95965 AU
evening set	-11116 Feb 24 j 05:40	29° \mathring{A} 17'09		morning rise	-11110 Apr 10 j 22:15	13° \mathring{B} 52'45	
				retrograde	-11110 Jul 07 j 16:40	15° \mathring{B} 46'51	
conjunction	-11116 Mar 11 j 09:43	29° \mathring{A} 52'57	-2°40'27	opposition	-11110 Sep 22 j 17:35	14° \mathring{B} 23'42	-2°39'18
minimum elong	-11116 Mar 11 j 09:43	29° \mathring{A} 52'57	2°41'04	min. Earth dist.	-11110 Sep 23 j 08:15	14° \mathring{B} 22'40	28.96652 AU
max. Earth dist.	-11116 Mar 10 j 21:35	29° \mathring{A} 51'50	30.92387 AU	direct	-11110 Dec 11 j 09:16	12° \mathring{B} 58'01	
	-11116 Mar 14 j 13:23	0° \mathring{B}		evening set	-11109 Mar 12 j 08:19	14° \mathring{B} 55'15	
morning rise	-11116 Mar 27 j 12:00	0° \mathring{B} 28'37					
retrograde	-11116 Jun 24 j 00:32	2° \mathring{B} 23'37		conjunction	-11109 Mar 28 j 11:25	15° \mathring{B} 30'58	-2°27'40
opposition	-11116 Sep 09 j 02:56	1° \mathring{B} 00'06	-2°51'01	minimum elong	-11109 Mar 28 j 11:26	15° \mathring{B} 30'59	2°28'17
min. Earth dist.	-11116 Sep 09 j 12:56	0° \mathring{B} 59'24	28.92841 AU	max. Earth dist.	-11109 Mar 27 j 17:52	15° \mathring{B} 29'20	30.96938 AU
	-11116 Oct 18 j 07:29	30° \mathring{R} \mathring{A}		morning rise	-11109 Apr 13 j 11:54	16° \mathring{B} 06'28	
direct	-11116 Nov 27 j 06:12	29° \mathring{A} 34'40		retrograde	-11109 Jul 10 j 05:54	18° \mathring{B} 00'27	
	-11115 Jan 05 j 17:43	0° \mathring{B}		opposition	-11109 Sep 25 j 04:04	16° \mathring{B} 37'24	-2°36'29
evening set	-11115 Feb 25 j 20:04	1° \mathring{B} 31'37		min. Earth dist.	-11109 Sep 25 j 18:48	16° \mathring{B} 36'22	28.97652 AU
max. Earth dist.	-11115 Mar 13 j 11:10	2° \mathring{B} 06'12	30.92813 AU	direct	-11109 Dec 13 j 21:56	15° \mathring{B} 11'44	
				evening set	-11108 Mar 13 j 22:09	17° \mathring{B} 09'02	
conjunction	-11115 Mar 14 j 00:03	2° \mathring{B} 07'24	-2°39'19	max. Earth dist.	-11108 Mar 29 j 07:56	17° \mathring{B} 43'09	30.97953 AU
minimum elong	-11115 Mar 14 j 00:04	2° \mathring{B} 07'25	2°39'57				
morning rise	-11115 Mar 30 j 02:00	2° \mathring{B} 43'03		conjunction	-11108 Mar 30 j 01:13	17° \mathring{B} 44'45	-2°24'55
retrograde	-11115 Jun 26 j 09:30	4° \mathring{B} 37'53		minimum elong	-11108 Mar 30 j 01:13	17° \mathring{B} 44'45	2°25'31
opposition	-11115 Sep 11 j 13:27	3° \mathring{B} 14'25	-2°49'41	morning rise	-11108 Apr 15 j 01:13	18° \mathring{B} 20'14	
min. Earth dist.	-11115 Sep 12 j 01:19	3° \mathring{B} 13'35	28.93274 AU	retrograde	-11108 Jul 11 j 16:53	20° \mathring{B} 14'05	
direct	-11115 Nov 29 j 17:51	1° \mathring{B} 48'55		opposition	-11108 Sep 26 j 14:46	18° \mathring{B} 51'09	-2°33'26
evening set	-11114 Feb 28 j 10:12	3° \mathring{B} 45'54		min. Earth dist.	-11108 Sep 27 j 07:07	18° \mathring{B} 50'00	28.98663 AU
				direct	-11108 Dec 15 j 10:37	17° \mathring{B} 25'31	
conjunction	-11114 Mar 16 j 14:06	4° \mathring{B} 21'41	-2°37'58	evening set	-11107 Mar 16 j 12:05	19° \mathring{B} 22'52	
minimum elong	-11114 Mar 16 j 14:06	4° \mathring{B} 21'41	2°38'34				
max. Earth dist.	-11114 Mar 16 j 00:28	4° \mathring{B} 20'25	30.93267 AU	conjunction	-11107 Apr 01 j 14:51	19° \mathring{B} 58'34	-2°21'57
morning rise	-11114 Apr 01 j 15:51	4° \mathring{B} 57'18		minimum elong	-11107 Apr 01 j 14:51	19° \mathring{B} 58'35	2°22'34
retrograde	-11114 Jun 28 j 20:31	6° \mathring{B} 51'58		max. Earth dist.	-11107 Mar 31 j 19:55	19° \mathring{B} 56'49	30.98962 AU
opposition	-11114 Sep 13 j 23:49	5° \mathring{B} 28'33	-2°48'06	morning rise	-11107 Apr 17 j 14:43	20° \mathring{B} 34'02	
min. Earth dist.	-11114 Sep 14 j 11:36	5° \mathring{B} 27'43	28.93737 AU	retrograde	-11107 Jul 14 j 05:04	22° \mathring{B} 27'47	
direct	-11114 Dec 02 j 06:55	4° \mathring{B} 02'58		opposition	-11107 Sep 29 j 01:21	21° \mathring{B} 04'56	-2°30'09
evening set	-11113 Mar 03 j 00:27	5° \mathring{B} 59'59		min. Earth dist.	-11107 Sep 29 j 17:34	21° \mathring{B} 03'48	28.99636 AU
				direct	-11107 Dec 17 j 23:26	19° \mathring{B} 39'18	
conjunction	-11113 Mar 19 j 04:09	6° \mathring{B} 35'46	-2°36'22	evening set	-11106 Mar 19 j 01:48	21° \mathring{B} 36'42	
minimum elong	-11113 Mar 19 j 04:10	6° \mathring{B} 35'46	2°36'59	max. Earth dist.	-11106 Apr 03 j 08:57	22° \mathring{B} 10'35	30.99890 AU
max. Earth dist.	-11113 Mar 18 j 13:19	6° \mathring{B} 34'23	30.93763 AU				
morning rise	-11113 Apr 04 j 05:39	7° \mathring{B} 11'22		conjunction	-11106 Apr 04 j 04:29	22° \mathring{B} 12'25	-2°18'47
retrograde	-11113 Jul 01 j 07:06	9° \mathring{B} 05'52		minimum elong	-11106 Apr 04 j 04:30	22° \mathring{B} 12'25	2°19'21
opposition	-11113 Sep 16 j 10:12	7° \mathring{B} 42'30	-2°46'16	morning rise	-11106 Apr 20 j 03:59	22° \mathring{B} 47'51	
min. Earth dist.	-11113 Sep 16 j 23:19	7° \mathring{B} 41'34	28.94286 AU	retrograde	-11106 Jul 16 j 14:44	24° \mathring{B} 41'28	
direct	-11113 Dec 04 j 17:37	6° \mathring{B} 16'52		opposition	-11106 Oct 01 j 12:11	23° \mathring{B} 18'43	-2°26'38
evening set	-11112 Mar 04 j 14:30	8° \mathring{B} 13'56		min. Earth dist.	-11106 Oct 02 j 06:18	23° \mathring{B} 17'27	29.00510 AU
				direct	-11106 Dec 20 j 10:56	21° \mathring{B} 53'05	
conjunction	-11112 Mar 20 j 18:11	8° \mathring{B} 49'41	-2°34'32	evening set	-11105 Mar 21 j 15:38	23° \mathring{B} 50'31	
minimum elong	-11112 Mar 20 j 18:11	8° \mathring{B} 49'41	2°35'08				
max. Earth dist.	-11112 Mar 20 j 03:27	8° \mathring{B} 48'19	30.94370 AU	conjunction	-11105 Apr 06 j 18:07	24° \mathring{B} 26'12	-2°15'24
morning rise	-11112 Apr 05 j 19:19	9° \mathring{B} 25'15		minimum elong	-11105 Apr 06 j 18:08	24° \mathring{B} 26'12	2°15'59
retrograde	-11112 Jul 02 j 17:53	11° \mathring{B} 19'37		max. Earth dist.	-11105 Apr 05 j 21:28	24° \mathring{B} 24'17	31.00714 AU
opposition	-11112 Sep 17 j 20:42	9° \mathring{B} 56'18	-2°44'12	morning rise	-11105 Apr 22 j 17:22	25° \mathring{B} 01'37	
min. Earth dist.	-11112 Sep 18 j 09:56	9° \mathring{B} 55'22	28.94941 AU	retrograde	-11105 Jul 19 j 01:50	26° \mathring{B} 55'07	
direct	-11112 Dec 06 j 07:37	8° \mathring{B} 30'38		opposition	-11105 Oct 03 j 22:51	25° \mathring{B} 32'26	-2°22'55
evening set	-11111 Mar 07 j 04:27	10° \mathring{B} 27'45		min. Earth dist.	-11105 Oct 04 j 17:06	25° \mathring{B} 31'09	29.01258 AU
				direct	-11105 Dec 22 j 23:53	24° \mathring{B} 06'47	
conjunction	-11111 Mar 23 j 07:49	11° \mathring{B} 03'30	-2°32'29	evening set	-11104 Mar 23 j 05:25	26° \mathring{B} 04'13	
minimum elong	-11111 Mar 23 j 07:49	11° \mathring{B} 03'30	2°33'06	max. Earth dist.	-11104 Apr 07 j 09:44	26° \mathring{B} 37'51	31.01411 AU
max. Earth dist.	-11111 Mar 22 j 15:31	11° \mathring{B} 01'58	30.95099 AU				
morning rise	-11111 Apr 08 j 08:48	11° \mathring{B} 39'02		conjunction	-11104 Apr 08 j 07:39	26° \mathring{B} 39'54	-2°11'49
retrograde	-11111 Jul 05 j 06:21	13° \mathring{B} 33'16		minimum elong	-11104 Apr 08 j 07:39	26° \mathring{B} 39'54	2°12'23
opposition	-11111 Sep 20 j 07:10	12° \mathring{B} 10'01	-2°41'52	morning rise	-11104 Apr 24 j 06:35	27° \mathring{B} 15'18	
min. Earth dist.	-11111 Sep 20 j 20:52	12° \mathring{B} 09'03	28.95741 AU	retrograde	-11104 Jul 20 j 12:08	29° \mathring{B} 08'39	
direct	-11111 Dec 08 j 20:14	10° \mathring{B} 44'20		opposition	-11104 Oct 05 j 09:44	27° \mathring{B} 46'02	-2°18'59
evening set	-11110 Mar 09 j 18:17	12° \mathring{B} 41'30		min. Earth dist.	-11104 Oct 06 j 05:24	27° \mathring{B} 44'39	29.01908 AU

Attention, astronomical year style is used: The year -11104 in astronomical counting style is the year 11105 BCE in historical counting style.

direct	-11104 Dec 24 j 10:35	26° $\overline{3}$ 20'20		conjunction	-11097 Apr 25 j 01:38	12° \approx 11'13	-1°41'46
evening set	-11103 Mar 25 j 18:45	28° $\overline{3}$ 17'47		minimum elong	-11097 Apr 25 j 01:38	12° \approx 11'13	1°42'15
				morning rise	-11097 May 10 j 22:19	12° \approx 46'27	
conjunction	-11103 Apr 10 j 20:54	28° $\overline{3}$ 53'26	-2°08'03	retrograde	-11097 Aug 05 j 15:22	14° \approx 39'00	
minimum elong	-11103 Apr 10 j 20:54	28° $\overline{3}$ 53'26	2°08'38	opposition	-11097 Oct 21 j 13:06	13° \approx 16'42	-1°46'14
max. Earth dist.	-11103 Apr 09 j 22:55	28° $\overline{3}$ 51'23	31.02028 AU	min. Earth dist.	-11097 Oct 22 j 11:42	13° \approx 15'07	29.06776 AU
morning rise	-11103 Apr 26 j 19:30	29° $\overline{3}$ 28'49		direct	-11096 Jan 10 j 05:14	11° \approx 50'58	
	-11103 May 11 j 15:08	0° \approx		evening set	-11096 Apr 10 j 13:42	13° \approx 48'24	
retrograde	-11103 Jul 22 j 22:03	1° \approx 22'02					
opposition	-11103 Oct 07 j 20:29	29° $\overline{3}$ 59'27	-2°14'52	conjunction	-11096 Apr 26 j 14:01	14° \approx 23'57	-1°36'49
	-11103 Oct 07 j 12:35	30° \overline{R} 3		minimum elong	-11096 Apr 26 j 14:02	14° \approx 23'57	1°37'17
min. Earth dist.	-11103 Oct 08 j 16:32	29° $\overline{3}$ 58'02	29.02474 AU	max. Earth dist.	-11096 Apr 25 j 13:16	14° \approx 21'38	31.07169 AU
direct	-11103 Dec 27 j 00:45	28° $\overline{3}$ 33'43		morning rise	-11096 May 12 j 10:26	14° \approx 59'09	
	-11102 Mar 13 j 12:20	0° \approx			-11096 May 12 j 19:50	15° \approx	
evening set	-11102 Mar 28 j 08:13	0° \approx 31'10		retrograde	-11096 Aug 07 j 02:35	16° \approx 51'38	
max. Earth dist.	-11102 Apr 12 j 10:22	1° \approx 04'36	31.02584 AU	opposition	-11096 Oct 23 j 00:01	15° \approx 29'25	-1°40'52
				min. Earth dist.	-11096 Oct 23 j 22:07	15° \approx 27'53	29.07785 AU
conjunction	-11102 Apr 13 j 10:01	1° \approx 06'48	-2°04'06		-11096 Nov 09 j 22:29	15° \overline{R}	
minimum elong	-11102 Apr 13 j 10:02	1° \approx 06'48	2°04'39	direct	-11095 Jan 11 j 17:47	14° \approx 03'44	
morning rise	-11102 Apr 29 j 08:27	1° \approx 42'09			-11095 Mar 13 j 08:13	15° \approx	
retrograde	-11102 Jul 25 j 09:40	3° \approx 35'14		evening set	-11095 Apr 13 j 02:14	16° \approx 01'11	
opposition	-11102 Oct 10 j 07:04	2° \approx 12'40	-2°10'33	max. Earth dist.	-11095 Apr 28 j 00:57	16° \approx 34'21	31.08187 AU
min. Earth dist.	-11102 Oct 11 j 03:43	2° \approx 11'13	29.03022 AU				
direct	-11102 Dec 29 j 12:57	0° \approx 46'54		conjunction	-11095 Apr 29 j 02:13	16° \approx 36'42	-1°31'44
evening set	-11101 Mar 30 j 21:26	2° \approx 44'21		minimum elong	-11095 Apr 29 j 02:14	16° \approx 36'42	1°32'11
				morning rise	-11095 May 14 j 22:17	17° \approx 11'54	
conjunction	-11101 Apr 15 j 23:11	3° \approx 19'58	-1°59'58	retrograde	-11095 Aug 09 j 12:28	19° \approx 04'20	
minimum elong	-11101 Apr 15 j 23:12	3° \approx 19'58	2°00'31	opposition	-11095 Oct 25 j 11:04	17° \approx 42'11	-1°35'21
max. Earth dist.	-11101 Apr 15 j 00:03	3° \approx 17'49	31.03139 AU	min. Earth dist.	-11095 Oct 26 j 10:14	17° \approx 40'34	29.08792 AU
morning rise	-11101 May 01 j 21:09	3° \approx 55'18		direct	-11094 Jan 14 j 04:05	16° \approx 16'32	
retrograde	-11101 Jul 27 j 19:22	5° \approx 48'15		evening set	-11094 Apr 15 j 14:50	18° \approx 13'59	
opposition	-11101 Oct 12 j 17:54	4° \approx 25'43	-2°06'02				
min. Earth dist.	-11101 Oct 13 j 15:26	4° \approx 24'12	29.03579 AU	conjunction	-11094 May 01 j 14:35	18° \approx 49'30	-1°26'30
direct	-11100 Jan 01 j 02:04	2° \approx 59'55		minimum elong	-11094 May 01 j 14:35	18° \approx 49'30	1°26'56
evening set	-11100 Apr 01 j 10:33	4° \approx 57'21		max. Earth dist.	-11094 Apr 30 j 13:29	18° \approx 47'09	31.09170 AU
max. Earth dist.	-11100 Apr 16 j 11:20	5° \approx 30'40	31.03738 AU	morning rise	-11094 May 17 j 10:13	19° \approx 24'40	
				retrograde	-11094 Aug 11 j 21:40	21° \approx 17'01	
conjunction	-11100 Apr 17 j 11:51	5° \approx 32'57	-1°55'40	opposition	-11094 Oct 27 j 22:03	19° \approx 54'57	-1°29'42
minimum elong	-11100 Apr 17 j 11:52	5° \approx 32'57	1°56'11	min. Earth dist.	-11094 Oct 28 j 21:28	19° \approx 53'19	29.09716 AU
morning rise	-11100 May 03 j 09:40	6° \approx 08'15		direct	-11093 Jan 16 j 17:37	18° \approx 29'20	
retrograde	-11100 Jul 29 j 07:53	8° \approx 01'05		evening set	-11093 Apr 18 j 03:33	20° \approx 26'46	
opposition	-11100 Oct 14 j 04:38	6° \approx 38'35	-2°01'21	max. Earth dist.	-11093 May 03 j 00:14	20° \approx 59'47	31.10050 AU
min. Earth dist.	-11100 Oct 15 j 01:46	6° \approx 37'06	29.04216 AU				
direct	-11099 Jan 02 j 15:19	5° \approx 12'46		conjunction	-11093 May 04 j 02:49	21° \approx 02'16	-1°21'09
evening set	-11099 Apr 03 j 23:24	7° \approx 10'12		minimum elong	-11093 May 04 j 02:50	21° \approx 02'16	1°21'35
max. Earth dist.	-11099 Apr 19 j 00:56	7° \approx 43'35	31.04427 AU	morning rise	-11093 May 19 j 22:09	21° \approx 37'24	
				retrograde	-11093 Aug 14 j 08:54	23° \approx 29'42	
conjunction	-11099 Apr 20 j 00:38	7° \approx 45'47	-1°51'12	opposition	-11093 Oct 30 j 09:15	22° \approx 07'40	-1°23'55
minimum elong	-11099 Apr 20 j 00:39	7° \approx 45'47	1°51'43	min. Earth dist.	-11093 Oct 31 j 09:04	22° \approx 06'01	29.10542 AU
morning rise	-11099 May 05 j 21:57	8° \approx 21'03		direct	-11092 Jan 19 j 04:34	20° \approx 42'04	
retrograde	-11099 Jul 31 j 18:23	10° \approx 13'47		evening set	-11092 Apr 19 j 15:55	22° \approx 39'28	
opposition	-11099 Oct 16 j 15:27	8° \approx 51'20	-1°56'29				
min. Earth dist.	-11099 Oct 17 j 13:40	8° \approx 49'46	29.04958 AU	conjunction	-11092 May 05 j 14:57	23° \approx 14'56	-1°15'41
direct	-11098 Jan 05 j 04:37	7° \approx 25'32		minimum elong	-11092 May 05 j 14:58	23° \approx 14'56	1°16'05
evening set	-11098 Apr 06 j 12:14	9° \approx 22'57		max. Earth dist.	-11092 May 04 j 12:57	23° \approx 12'30	31.10818 AU
				morning rise	-11092 May 21 j 09:45	23° \approx 50'03	
conjunction	-11098 Apr 22 j 13:05	9° \approx 58'31	-1°46'33	retrograde	-11092 Aug 15 j 18:24	25° \approx 42'16	
minimum elong	-11098 Apr 22 j 13:06	9° \approx 58'31	1°47'03	opposition	-11092 Oct 31 j 20:34	24° \approx 20'16	-1°18'01
max. Earth dist.	-11098 Apr 21 j 12:24	9° \approx 56'13	31.05244 AU	min. Earth dist.	-11092 Nov 01 j 21:16	24° \approx 18'33	29.11240 AU
morning rise	-11098 May 08 j 10:15	10° \approx 33'46		direct	-11091 Jan 20 j 17:17	22° \approx 54'40	
retrograde	-11098 Aug 03 j 05:53	12° \approx 26'24		evening set	-11091 Apr 22 j 04:22	24° \approx 52'01	
opposition	-11098 Oct 19 j 02:10	11° \approx 04'01	-1°51'26	max. Earth dist.	-11091 May 06 j 23:24	25° \approx 24'53	31.11476 AU
min. Earth dist.	-11098 Oct 19 j 23:32	11° \approx 02'31	29.05818 AU				
direct	-11097 Jan 07 j 17:50	9° \approx 38'14		conjunction	-11091 May 08 j 02:53	25° \approx 27'27	-1°10'07
evening set	-11097 Apr 09 j 00:58	11° \approx 35'40		minimum elong	-11091 May 08 j 02:54	25° \approx 27'27	1°10'31
max. Earth dist.	-11097 Apr 24 j 01:11	12° \approx 08'57	31.06160 AU	morning rise	-11091 May 23 j 21:27	26° \approx 02'32	
				retrograde	-11091 Aug 18 j 06:28	27° \approx 54'40	

Attention, astronomical year style is used: The year -11091 in astronomical counting style is the year 11092 BCE in historical counting style.

opposition	-11091 Nov 03 j 07:36	26° \approx 32'40	-1°12'00	direct	-11084 Feb 06 j 11:15	8° \mathbb{H} 17'19	
min. Earth dist.	-11091 Nov 04 j 08:02	26° \approx 30'59	29.11848 AU	evening set	-11084 May 07 j 14:50	10° \mathbb{H} 14'19	
direct	-11090 Jan 23 j 06:31	25° \approx 07'03		max. Earth dist.	-11084 May 22 j 07:46	10° \mathbb{H} 47'03	31.16114 AU
evening set	-11090 Apr 24 j 16:29	27° \approx 04'22					
				conjunction	-11084 May 23 j 10:17	10° \mathbb{H} 49'32	-0°28'55
conjunction	-11090 May 10 j 14:49	27° \approx 39'46	-1°04'27	minimum elong	-11084 May 23 j 10:17	10° \mathbb{H} 49'32	0°29'10
minimum elong	-11090 May 10 j 14:49	27° \approx 39'46	1°04'49	morning rise	-11084 Jun 08 j 01:45	11° \mathbb{H} 24'23	
max. Earth dist.	-11090 May 09 j 12:02	27° \approx 37'16	31.12045 AU	retrograde	-11084 Sep 02 j 04:55	13° \mathbb{H} 16'11	
morning rise	-11090 May 26 j 08:49	28° \approx 14'48		opposition	-11084 Nov 18 j 14:37	11° \mathbb{H} 54'18	-0°27'43
	-11090 Jul 31 j 19:59	0° \mathbb{H}		min. Earth dist.	-11084 Nov 19 j 14:36	11° \mathbb{H} 52'39	29.16641 AU
retrograde	-11090 Aug 20 j 16:25	0° \mathbb{H} 06'52		direct	-11083 Feb 07 j 21:04	10° \mathbb{H} 28'50	
	-11090 Sep 09 j 18:41	30° \mathbb{R}		evening set	-11083 May 10 j 02:10	12° \mathbb{H} 25'50	
opposition	-11090 Nov 05 j 18:53	28° \approx 44'51	-1°05'54				
min. Earth dist.	-11090 Nov 06 j 20:31	28° \approx 43'05	29.12379 AU	conjunction	-11083 May 25 j 21:16	13° \mathbb{H} 01'00	-0°22'48
direct	-11089 Jan 25 j 20:06	27° \approx 19'13		minimum elong	-11083 May 25 j 21:17	13° \mathbb{H} 01'00	0°23'02
evening set	-11089 Apr 27 j 04:37	29° \approx 16'28		max. Earth dist.	-11083 May 24 j 20:03	12° \mathbb{H} 58'39	31.17094 AU
max. Earth dist.	-11089 May 11 j 22:43	29° \approx 49'15	31.12571 AU	morning rise	-11083 Jun 10 j 12:08	13° \mathbb{H} 35'50	
				retrograde	-11083 Sep 04 j 14:18	15° \mathbb{H} 27'40	
conjunction	-11089 May 13 j 02:22	29° \approx 51'50	-0°58'42	opposition	-11083 Nov 21 j 02:02	14° \mathbb{H} 05'50	-0°21'09
minimum elong	-11089 May 13 j 02:23	29° \approx 51'50	0°59'03	min. Earth dist.	-11083 Nov 22 j 02:30	14° \mathbb{H} 04'09	29.17617 AU
	-11089 May 16 j 17:46	0° \mathbb{H}		direct	-11082 Feb 10 j 08:49	12° \mathbb{H} 40'28	
morning rise	-11089 May 28 j 20:07	0° \mathbb{H} 26'51		evening set	-11082 May 12 j 13:40	14° \mathbb{H} 37'27	
retrograde	-11089 Aug 23 j 03:32	2° \mathbb{H} 18'49		max. Earth dist.	-11082 May 27 j 05:53	15° \mathbb{H} 10'08	31.18067 AU
opposition	-11089 Nov 08 j 06:01	0° \mathbb{H} 56'48	-0°59'43				
min. Earth dist.	-11089 Nov 09 j 06:43	0° \mathbb{H} 55'05	29.12891 AU	conjunction	-11082 May 28 j 08:05	15° \mathbb{H} 12'35	-0°16'39
	-11089 Dec 15 j 15:20	30° \mathbb{R}		minimum elong	-11082 May 28 j 08:05	15° \mathbb{H} 12'35	0°16'51
direct	-11088 Jan 28 j 09:39	29° \approx 31'09		morning rise	-11082 Jun 12 j 22:38	15° \mathbb{H} 47'23	
	-11088 Mar 11 j 04:12	0° \mathbb{H}		retrograde	-11082 Sep 07 j 02:35	17° \mathbb{H} 39'15	
evening set	-11088 Apr 28 j 16:29	1° \mathbb{H} 28'20		opposition	-11082 Nov 23 j 13:35	16° \mathbb{H} 17'28	-0°14'34
max. Earth dist.	-11088 May 13 j 10:46	2° \mathbb{H} 01'08	31.13095 AU	min. Earth dist.	-11082 Nov 24 j 13:19	16° \mathbb{H} 15'51	29.18564 AU
				direct	-11081 Feb 12 j 20:56	14° \mathbb{H} 52'11	
conjunction	-11088 May 14 j 13:54	2° \mathbb{H} 03'40	-0°52'52	evening set	-11081 May 15 j 00:56	16° \mathbb{H} 49'09	
minimum elong	-11088 May 14 j 13:55	2° \mathbb{H} 03'40	0°53'12				
morning rise	-11088 May 30 j 07:06	2° \mathbb{H} 38'38		conjunction	-11081 May 30 j 18:57	17° \mathbb{H} 24'15	-0°10'30
retrograde	-11088 Aug 24 j 13:11	4° \mathbb{H} 30'33		minimum elong	-11081 May 30 j 18:57	17° \mathbb{H} 24'15	0°10'40
opposition	-11088 Nov 09 j 17:23	3° \mathbb{H} 08'31	-0°53'27	behind sun begin	-11081 May 30 j 13:57	17° \mathbb{H} 23'48	
min. Earth dist.	-11088 Nov 10 j 18:58	3° \mathbb{H} 06'45	29.13444 AU	behind sun end	-11081 May 30 j 23:58	17° \mathbb{H} 24'42	
direct	-11087 Jan 29 j 22:01	1° \mathbb{H} 42'52		max. Earth dist.	-11081 May 29 j 17:49	17° \mathbb{H} 21'54	31.18965 AU
evening set	-11087 May 01 j 04:06	3° \mathbb{H} 39'59		morning rise	-11081 Jun 15 j 08:48	17° \mathbb{H} 59'01	
max. Earth dist.	-11087 May 15 j 22:05	4° \mathbb{H} 12'45	31.13693 AU	retrograde	-11081 Sep 09 j 12:56	19° \mathbb{H} 50'55	
				opposition	-11081 Nov 26 j 01:25	18° \mathbb{H} 29'11	-0°07'57
conjunction	-11087 May 17 j 01:03	4° \mathbb{H} 15'17	-0°46'58	min. Earth dist.	-11081 Nov 27 j 02:07	18° \mathbb{H} 27'29	29.19413 AU
minimum elong	-11087 May 17 j 01:04	4° \mathbb{H} 15'17	0°47'17	direct	-11080 Feb 15 j 09:27	17° \mathbb{H} 03'58	
morning rise	-11087 Jun 01 j 17:54	4° \mathbb{H} 50'13		evening set	-11080 May 16 j 12:21	19° \mathbb{H} 00'54	
retrograde	-11087 Aug 26 j 23:41	6° \mathbb{H} 42'04		max. Earth dist.	-11080 May 31 j 03:49	19° \mathbb{H} 33'32	31.19765 AU
opposition	-11087 Nov 12 j 04:35	5° \mathbb{H} 20'03	-0°47'06				
min. Earth dist.	-11087 Nov 13 j 05:11	5° \mathbb{H} 18'21	29.14074 AU	conjunction	-11080 Jun 01 j 05:41	19° \mathbb{H} 35'57	-0°04'20
direct	-11086 Feb 01 j 11:36	3° \mathbb{H} 54'24		minimum elong	-11080 Jun 01 j 05:40	19° \mathbb{H} 35'57	0°04'29
evening set	-11086 May 03 j 15:48	5° \mathbb{H} 51'28		behind sun begin	-11080 May 31 j 23:20	19° \mathbb{H} 35'23	
max. Earth dist.	-11086 May 18 j 09:17	6° \mathbb{H} 24'13	31.14379 AU	behind sun end	-11080 Jun 01 j 12:00	19° \mathbb{H} 36'31	
				morning rise	-11080 Jun 16 j 19:09	20° \mathbb{H} 10'41	
conjunction	-11086 May 19 j 12:16	6° \mathbb{H} 26'44	-0°41'01	retrograde	-11080 Sep 11 j 00:33	22° \mathbb{H} 02'37	
minimum elong	-11086 May 19 j 12:16	6° \mathbb{H} 26'44	0°41'18	opposition	-11080 Nov 27 j 13:09	20° \mathbb{H} 40'54	-0°01'20
morning rise	-11086 Jun 04 j 04:37	7° \mathbb{H} 01'39		min. Earth dist.	-11080 Nov 28 j 12:47	20° \mathbb{H} 39'17	29.20149 AU
retrograde	-11086 Aug 29 j 09:06	8° \mathbb{H} 53'28		asc. node	-11079 Feb 08 j 05:13	19° \mathbb{H} 16'58	
opposition	-11086 Nov 14 j 15:48	7° \mathbb{H} 31'28	-0°40'42	direct	-11079 Feb 16 j 22:12	19° \mathbb{H} 15'44	
min. Earth dist.	-11086 Nov 15 j 16:44	7° \mathbb{H} 29'44	29.14825 AU	evening set	-11079 May 18 j 23:27	21° \mathbb{H} 12'37	
direct	-11085 Feb 03 j 22:21	6° \mathbb{H} 05'52					
evening set	-11085 May 06 j 03:22	8° \mathbb{H} 02'53		conjunction	-11079 Jun 03 j 16:20	21° \mathbb{H} 47'38	0°01'59
				minimum elong	-11079 Jun 03 j 16:20	21° \mathbb{H} 47'38	0°01'51
conjunction	-11085 May 21 j 23:26	8° \mathbb{H} 38'07	-0°34'59	behind sun begin	-11079 Jun 03 j 09:52	21° \mathbb{H} 47'04	
minimum elong	-11085 May 21 j 23:26	8° \mathbb{H} 38'08	0°35'16	behind sun end	-11079 Jun 03 j 22:47	21° \mathbb{H} 48'13	
max. Earth dist.	-11085 May 20 j 21:28	8° \mathbb{H} 35'42	31.15198 AU	max. Earth dist.	-11079 Jun 02 j 14:53	21° \mathbb{H} 45'16	31.20432 AU
morning rise	-11085 Jun 06 j 15:16	9° \mathbb{H} 13'00		morning rise	-11079 Jun 19 j 05:13	22° \mathbb{H} 22'20	
retrograde	-11085 Aug 31 j 17:53	11° \mathbb{H} 04'48		retrograde	-11079 Sep 13 j 10:59	24° \mathbb{H} 14'17	
opposition	-11085 Nov 17 j 03:12	9° \mathbb{H} 42'51	-0°34'14	opposition	-11079 Nov 30 j 01:02	22° \mathbb{H} 52'34	0°05'17
min. Earth dist.	-11085 Nov 18 j 03:34	9° \mathbb{H} 41'10	29.15683 AU	min. Earth dist.	-11079 Dec 01 j 01:39	22° \mathbb{H} 50'53	29.20757 AU

Attention, astronomical year style is used: The year -11078 in astronomical counting style is the year 11079 BCE in historical counting style.

direct	-11078 Feb 19 j 11:05	21° H 27'27		direct	-11072 Mar 04 j 12:26	4° Y 34'30	
evening set	-11078 May 21 j 10:38	23° H 24'16		evening set	-11072 Jun 03 j 02:50	6° Y 30'51	
max. Earth dist.	-11078 Jun 05 j 01:28	23° H 56'52	31.20984 AU				
conjunction	-11078 Jun 06 j 02:55	23° H 59'15	0°08'10	conjunction	-11072 Jun 18 j 15:29	7° Y 05'34	0°44'35
minimum elong	-11078 Jun 06 j 02:54	23° H 59'15	0°08'03	minimum elong	-11072 Jun 18 j 15:29	7° Y 05'34	0°44'36
behind sun begin	-11078 Jun 05 j 21:08	23° H 58'44		max. Earth dist.	-11072 Jun 17 j 17:51	7° Y 03'32	31.23869 AU
behind sun end	-11078 Jun 06 j 08:40	23° H 59'45		morning rise	-11072 Jul 04 j 00:35	7° Y 39'59	
morning rise	-11078 Jun 21 j 15:18	24° H 33'54		retrograde	-11072 Sep 28 j 07:53	9° Y 32'07	
retrograde	-11078 Sep 15 j 22:02	26° H 25'50		opposition	-11072 Dec 15 j 12:31	8° Y 10'16	0°50'42
opposition	-11078 Dec 02 j 12:44	25° H 04'07	0°11'53	min. Earth dist.	-11072 Dec 16 j 09:57	8° Y 08'48	29.24262 AU
min. Earth dist.	-11078 Dec 03 j 12:32	25° H 02'29	29.21245 AU	direct	-11071 Mar 06 j 23:26	6° Y 45'24	
direct	-11077 Feb 22 j 01:29	23° H 39'01		evening set	-11071 Jun 05 j 13:14	8° Y 41'41	
evening set	-11077 May 23 j 21:44	25° H 35'46		max. Earth dist.	-11071 Jun 20 j 03:35	9° Y 14'19	31.24577 AU
max. Earth dist.	-11077 Jun 07 j 11:50	26° H 08'19	31.21430 AU				
conjunction	-11077 Jun 08 j 13:22	26° H 10'42	0°14'19	conjunction	-11071 Jun 21 j 01:10	9° Y 16'21	0°50'28
minimum elong	-11077 Jun 08 j 13:22	26° H 10'42	0°14'14	minimum elong	-11071 Jun 21 j 01:09	9° Y 16'21	0°50'31
behind sun begin	-11077 Jun 08 j 10:14	26° H 10'25		morning rise	-11071 Jul 06 j 09:52	9° Y 50'45	
behind sun end	-11077 Jun 08 j 16:31	26° H 10'59		retrograde	-11071 Sep 30 j 19:33	11° Y 42'58	
morning rise	-11077 Jun 24 j 01:15	26° H 45'19		opposition	-11071 Dec 18 j 00:32	10° Y 21'07	0°56'58
retrograde	-11077 Sep 18 j 07:28	28° H 37'16		min. Earth dist.	-11071 Dec 18 j 20:20	10° Y 19'47	29.24978 AU
opposition	-11077 Dec 05 j 00:42	27° H 15'31	0°18'28	direct	-11070 Mar 09 j 11:26	8° Y 56'20	
min. Earth dist.	-11077 Dec 06 j 00:50	27° H 13'52	29.21670 AU	evening set	-11070 Jun 07 j 23:36	10° Y 52'36	
direct	-11076 Feb 24 j 12:54	25° H 50'26		conjunction	-11070 Jun 23 j 10:57	11° Y 27'13	0°56'18
evening set	-11076 May 25 j 08:26	27° H 47'05		minimum elong	-11070 Jun 23 j 10:56	11° Y 27'13	0°56'23
conjunction	-11076 Jun 09 j 23:35	28° H 21'59	0°20'27	max. Earth dist.	-11070 Jun 22 j 14:12	11° Y 25'16	31.25277 AU
minimum elong	-11076 Jun 09 j 23:34	28° H 21'59	0°20'23	morning rise	-11070 Jul 08 j 19:00	12° Y 01'34	
max. Earth dist.	-11076 Jun 08 j 23:14	28° H 19'42	31.21835 AU	retrograde	-11070 Oct 03 j 06:38	13° Y 53'54	
morning rise	-11076 Jun 25 j 10:52	28° H 56'34		opposition	-11070 Dec 20 j 12:48	12° Y 32'04	1°03'10
retrograde	-11076 Jul 27 j 11:03	0° Y		min. Earth dist.	-11070 Dec 21 j 09:09	12° Y 30'41	29.25670 AU
opposition	-11076 Sep 19 j 15:39	0° Y 48'31		direct	-11069 Mar 11 j 23:43	11° Y 07'23	
min. Earth dist.	-11076 Dec 06 j 12:38	29° H 26'44	0°25'01	evening set	-11069 Jun 10 j 10:02	13° Y 03'36	
direct	-11076 Dec 07 j 12:07	29° H 25'08	29.22061 AU	conjunction	-11069 Jun 25 j 20:43	13° Y 38'10	1°02'02
evening set	-11075 Feb 26 j 02:29	28° H 01'40		minimum elong	-11069 Jun 25 j 20:42	13° Y 38'10	1°02'09
max. Earth dist.	-11075 May 27 j 19:15	29° H 58'13		max. Earth dist.	-11069 Jun 25 j 00:33	13° Y 36'17	31.25937 AU
	-11075 May 28 j 14:43	0° Y		morning rise	-11069 Jul 11 j 04:15	14° Y 12'29	
	-11075 Jun 11 j 08:54	0° Y 30'45	31.22234 AU	retrograde	-11069 Oct 05 j 18:08	16° Y 04'54	
conjunction	-11075 Jun 12 j 09:39	0° Y 33'04	0°26'33	opposition	-11069 Dec 23 j 01:10	14° Y 43'05	1°09'15
minimum elong	-11075 Jun 12 j 09:39	0° Y 33'04	0°26'30	min. Earth dist.	-11069 Dec 23 j 20:17	14° Y 41'47	29.26282 AU
morning rise	-11075 Jun 27 j 20:32	1° Y 07'37		direct	-11068 Mar 13 j 13:27	13° Y 18'29	
retrograde	-11075 Sep 22 j 02:06	2° Y 59'35		evening set	-11068 Jun 11 j 20:21	15° Y 14'40	
opposition	-11075 Dec 09 j 00:22	1° Y 37'46	0°31'31	max. Earth dist.	-11068 Jun 26 j 10:12	15° Y 47'18	31.26484 AU
min. Earth dist.	-11075 Dec 09 j 23:11	1° Y 36'12	29.22493 AU	conjunction	-11068 Jun 27 j 06:20	15° Y 49'11	1°07'42
direct	-11074 Feb 28 j 12:47	0° Y 12'42		minimum elong	-11068 Jun 27 j 06:19	15° Y 49'11	1°07'49
evening set	-11074 May 30 j 05:49	2° Y 09'11		morning rise	-11068 Jul 12 j 13:22	16° Y 23'28	
conjunction	-11074 Jun 14 j 19:46	2° Y 43'59	0°32'36	retrograde	-11068 Oct 07 j 04:36	18° Y 16'00	
minimum elong	-11074 Jun 14 j 19:46	2° Y 43'59	0°32'35	opposition	-11068 Dec 24 j 13:38	16° Y 54'10	1°15'15
max. Earth dist.	-11074 Jun 13 j 20:41	2° Y 41'49	31.22689 AU	min. Earth dist.	-11068 Dec 25 j 08:59	16° Y 52'51	29.26781 AU
morning rise	-11074 Jun 30 j 05:57	3° Y 18'30		direct	-11067 Mar 16 j 00:36	15° Y 29'38	
retrograde	-11074 Sep 24 j 10:46	5° Y 10'30		evening set	-11067 Jun 14 j 06:41	17° Y 25'45	
opposition	-11074 Dec 11 j 12:24	3° Y 48'39	0°37'58	conjunction	-11067 Jun 29 j 16:08	18° Y 00'14	1°13'15
min. Earth dist.	-11074 Dec 12 j 11:04	3° Y 47'06	29.22986 AU	minimum elong	-11067 Jun 29 j 16:08	18° Y 00'14	1°13'23
direct	-11073 Mar 03 j 01:23	2° Y 23'38		max. Earth dist.	-11067 Jun 28 j 21:08	17° Y 58'27	31.26903 AU
evening set	-11073 Jun 01 j 16:25	4° Y 20'02		morning rise	-11067 Jul 14 j 22:33	18° Y 34'29	
max. Earth dist.	-11073 Jun 16 j 06:11	4° Y 52'36	31.23233 AU	retrograde	-11067 Oct 09 j 13:37	20° Y 27'05	
conjunction	-11073 Jun 17 j 05:32	4° Y 54'48	0°38'37	opposition	-11067 Dec 27 j 01:56	19° Y 05'15	1°21'08
minimum elong	-11073 Jun 17 j 05:32	4° Y 54'47	0°38'37	min. Earth dist.	-11067 Dec 27 j 20:44	19° Y 03'59	29.27123 AU
morning rise	-11073 Jul 02 j 15:19	5° Y 29'15		direct	-11066 Mar 18 j 14:16	17° Y 40'47	
retrograde	-11073 Sep 26 j 21:57	7° Y 21'19		evening set	-11066 Jun 16 j 17:04	19° Y 36'50	
opposition	-11073 Dec 14 j 00:24	5° Y 59'27	0°44'22	max. Earth dist.	-11066 Jul 01 j 06:06	20° Y 09'25	31.27167 AU
min. Earth dist.	-11073 Dec 14 j 21:32	5° Y 58'01	29.23583 AU	conjunction	-11066 Jul 02 j 01:45	20° Y 11'16	1°18'42
				minimum elong	-11066 Jul 02 j 01:44	20° Y 11'16	1°18'52
				morning rise	-11066 Jul 17 j 07:45	20° Y 45'29	

Attention, astronomical year style is used: The year -11066 in astronomical counting style is the year 11067 BCE in historical counting style.

retrograde	-11066 Oct 12 j 00:49	22° Υ 38'11		evening set	-11059 Jul 01 j 13:44	4° \mathcal{B} 51'54	
opposition	-11066 Dec 29 j 14:26	21° Υ 16'18	1°26'54				
min. Earth dist.	-11066 Dec 30 j 08:38	21° Υ 15'04	29.27329 AU	conjunction	-11059 Jul 16 j 18:16	5° \mathcal{B} 26'02	1°53'12
direct	-11065 Mar 21 j 01:10	19° Υ 51'52		minimum elong	-11059 Jul 16 j 18:15	5° \mathcal{B} 26'02	1°53'30
evening set	-11065 Jun 19 j 03:04	21° Υ 47'50		max. Earth dist.	-11059 Jul 16 j 04:51	5° \mathcal{B} 24'46	31.27716 AU
				morning rise	-11059 Jul 31 j 20:57	6° \mathcal{B} 00'01	
conjunction	-11065 Jul 04 j 11:18	22° Υ 22'14	1°24'02	retrograde	-11059 Oct 27 j 03:39	7° \mathcal{B} 53'28	
minimum elong	-11065 Jul 04 j 11:17	22° Υ 22'14	1°24'13	opposition	-11058 Jan 14 j 06:25	6° \mathcal{B} 31'14	2°03'15
max. Earth dist.	-11065 Jul 03 j 17:11	22° Υ 20'32	31.27297 AU	min. Earth dist.	-11058 Jan 14 j 18:54	6° \mathcal{B} 30'24	29.27981 AU
morning rise	-11065 Jul 19 j 16:38	22° Υ 56'25		direct	-11058 Apr 05 j 11:03	5° \mathcal{B} 07'09	
retrograde	-11065 Oct 14 j 09:38	24° Υ 49'12		evening set	-11058 Jul 03 j 23:16	7° \mathcal{B} 02'36	
opposition	-11064 Jan 01 j 03:05	23° Υ 27'16	1°32'32				
min. Earth dist.	-11064 Jan 01 j 21:16	23° Υ 26'03	29.27404 AU	conjunction	-11058 Jul 19 j 03:23	7° \mathcal{B} 36'41	1°57'32
direct	-11064 Mar 22 j 14:07	22° Υ 02'53		minimum elong	-11058 Jul 19 j 03:22	7° \mathcal{B} 36'41	1°57'52
evening set	-11064 Jun 20 j 13:12	23° Υ 58'45		max. Earth dist.	-11058 Jul 18 j 15:49	7° \mathcal{B} 35'36	31.27989 AU
				morning rise	-11058 Aug 03 j 05:32	8° \mathcal{B} 10'39	
conjunction	-11064 Jul 05 j 20:39	24° Υ 33'06	1°29'15	retrograde	-11058 Oct 29 j 13:29	10° \mathcal{B} 04'14	
minimum elong	-11064 Jul 05 j 20:38	24° Υ 33'06	1°29'27	opposition	-11057 Jan 16 j 19:11	8° \mathcal{B} 42'00	2°07'48
max. Earth dist.	-11064 Jul 05 j 02:12	24° Υ 31'22	31.27330 AU	min. Earth dist.	-11057 Jan 17 j 06:33	8° \mathcal{B} 41'14	29.28255 AU
morning rise	-11064 Jul 21 j 01:40	25° Υ 07'15		direct	-11057 Apr 08 j 00:54	7° \mathcal{B} 18'00	
retrograde	-11064 Oct 15 j 20:44	27° Υ 00'07		evening set	-11057 Jul 06 j 08:50	9° \mathcal{B} 13'23	
opposition	-11063 Jan 02 j 15:29	25° Υ 38'07	1°38'02				
min. Earth dist.	-11063 Jan 03 j 08:16	25° Υ 36'59	29.27416 AU	conjunction	-11057 Jul 21 j 12:15	9° \mathcal{B} 47'27	2°01'41
direct	-11063 Mar 25 j 00:55	24° Υ 13'45		minimum elong	-11057 Jul 21 j 12:14	9° \mathcal{B} 47'27	2°02'03
evening set	-11063 Jun 22 j 22:58	26° Υ 09'31		max. Earth dist.	-11057 Jul 21 j 00:34	9° \mathcal{B} 46'21	31.28249 AU
				morning rise	-11057 Aug 05 j 14:09	10° \mathcal{B} 21'24	
conjunction	-11063 Jul 08 j 05:58	26° Υ 43'50	1°34'20	retrograde	-11057 Nov 01 j 01:39	12° \mathcal{B} 15'08	
minimum elong	-11063 Jul 08 j 05:57	26° Υ 43'50	1°34'34	opposition	-11056 Jan 19 j 08:04	10° \mathcal{B} 52'52	2°12'09
max. Earth dist.	-11063 Jul 07 j 13:10	26° Υ 42'15	31.27308 AU	min. Earth dist.	-11056 Jan 19 j 18:24	10° \mathcal{B} 52'11	29.28507 AU
morning rise	-11063 Jul 23 j 10:23	27° Υ 17'57		direct	-11056 Apr 09 j 12:05	9° \mathcal{B} 28'57	
retrograde	-11063 Oct 18 j 06:26	29° Υ 10'55		evening set	-11056 Jul 07 j 18:22	11° \mathcal{B} 24'18	
opposition	-11062 Jan 05 j 04:06	27° Υ 48'50	1°43'24				
min. Earth dist.	-11062 Jan 05 j 21:03	27° Υ 47'42	29.27398 AU	conjunction	-11056 Jul 22 j 21:26	11° \mathcal{B} 58'19	2°05'41
direct	-11062 Mar 27 j 11:45	26° Υ 24'30		minimum elong	-11056 Jul 22 j 21:25	11° \mathcal{B} 58'19	2°06'03
evening set	-11062 Jun 25 j 08:47	28° Υ 20'11		max. Earth dist.	-11056 Jul 22 j 11:32	11° \mathcal{B} 57'23	31.28448 AU
				morning rise	-11056 Aug 06 j 22:47	12° \mathcal{B} 32'14	
conjunction	-11062 Jul 10 j 15:04	28° Υ 54'26	1°39'16	retrograde	-11056 Nov 02 j 10:42	14° \mathcal{B} 26'07	
minimum elong	-11062 Jul 10 j 15:03	28° Υ 54'26	1°39'31	opposition	-11055 Jan 20 j 20:55	13° \mathcal{B} 03'50	2°16'19
max. Earth dist.	-11062 Jul 09 j 22:42	28° Υ 52'54	31.27299 AU	min. Earth dist.	-11055 Jan 21 j 07:06	13° \mathcal{B} 03'09	29.28665 AU
morning rise	-11062 Jul 25 j 19:05	29° Υ 28'31		direct	-11055 Apr 12 j 00:32	11° \mathcal{B} 40'00	
	-11062 Aug 09 j 13:49	0° \mathcal{B}		evening set	-11055 Jul 10 j 04:01	13° \mathcal{B} 35'15	
retrograde	-11062 Oct 20 j 17:46	1° \mathcal{B} 21'35					
opposition	-11061 Jan 07 j 16:33	29° Υ 59'27	1°48'36	conjunction	-11055 Jul 25 j 06:27	14° \mathcal{B} 09'15	2°09'29
	-11061 Jan 07 j 08:31	30° $\mathcal{R}\Upsilon$		minimum elong	-11055 Jul 25 j 06:26	14° \mathcal{B} 09'15	2°09'53
min. Earth dist.	-11061 Jan 08 j 07:26	29° Υ 58'27	29.27418 AU	max. Earth dist.	-11055 Jul 24 j 20:17	14° \mathcal{B} 08'17	31.28546 AU
direct	-11061 Mar 29 j 23:38	28° Υ 35'08		morning rise	-11055 Aug 09 j 07:37	14° \mathcal{B} 43'09	
	-11061 Jun 13 j 07:29	0° \mathcal{B}			-11055 Aug 17 j 01:28	15° \mathcal{B}	
evening set	-11061 Jun 27 j 18:31	0° \mathcal{B} 30'46		retrograde	-11055 Nov 04 j 21:45	16° \mathcal{B} 37'10	
max. Earth dist.	-11061 Jul 12 j 09:01	1° \mathcal{B} 03'32	31.27343 AU	opposition	-11054 Jan 23 j 09:47	15° \mathcal{B} 14'50	2°20'18
				min. Earth dist.	-11054 Jan 23 j 18:32	15° \mathcal{B} 14'15	29.28708 AU
conjunction	-11061 Jul 13 j 00:14	1° \mathcal{B} 04'58	1°44'04		-11054 Feb 01 j 15:28	15° $\mathcal{R}\mathcal{B}$	
minimum elong	-11061 Jul 13 j 00:12	1° \mathcal{B} 04'58	1°44'20	direct	-11054 Apr 14 j 11:23	13° \mathcal{B} 51'03	
morning rise	-11061 Jul 28 j 03:42	1° \mathcal{B} 39'01			-11054 Jun 20 j 07:29	15° \mathcal{B}	
retrograde	-11061 Oct 23 j 05:14	3° \mathcal{B} 32'12		evening set	-11054 Jul 12 j 13:30	15° \mathcal{B} 46'14	
opposition	-11060 Jan 10 j 05:18	2° \mathcal{B} 10'01	1°53'39				
min. Earth dist.	-11060 Jan 10 j 20:01	2° \mathcal{B} 09'01	29.27525 AU	conjunction	-11054 Jul 27 j 15:33	16° \mathcal{B} 20'12	2°13'07
direct	-11060 Mar 31 j 11:33	0° \mathcal{B} 45'46		minimum elong	-11054 Jul 27 j 15:33	16° \mathcal{B} 20'11	2°13'31
evening set	-11060 Jun 29 j 04:04	2° \mathcal{B} 41'19		max. Earth dist.	-11054 Jul 27 j 06:47	16° \mathcal{B} 19'22	31.28502 AU
				morning rise	-11054 Aug 11 j 16:15	16° \mathcal{B} 54'04	
conjunction	-11060 Jul 14 j 09:14	3° \mathcal{B} 15'29	1°48'42	retrograde	-11054 Nov 07 j 07:47	18° \mathcal{B} 48'13	
minimum elong	-11060 Jul 14 j 09:13	3° \mathcal{B} 15'29	1°49'00	opposition	-11053 Jan 25 j 22:52	17° \mathcal{B} 25'50	2°24'04
max. Earth dist.	-11060 Jul 13 j 19:22	3° \mathcal{B} 14'10	31.27495 AU	min. Earth dist.	-11053 Jan 26 j 07:55	17° \mathcal{B} 25'13	29.28604 AU
morning rise	-11060 Jul 29 j 12:17	3° \mathcal{B} 49'29		direct	-11053 Apr 16 j 22:18	16° \mathcal{B} 02'05	
retrograde	-11060 Oct 24 j 16:57	5° \mathcal{B} 42'48		evening set	-11053 Jul 14 j 23:04	17° \mathcal{B} 57'10	
opposition	-11059 Jan 11 j 17:52	4° \mathcal{B} 20'35	1°58'32				
min. Earth dist.	-11059 Jan 12 j 06:43	4° \mathcal{B} 19'43	29.27717 AU	conjunction	-11053 Jul 30 j 00:37	18° \mathcal{B} 31'05	2°16'33
direct	-11059 Apr 03 j 00:30	2° \mathcal{B} 56'24		minimum elong	-11053 Jul 30 j 00:36	18° \mathcal{B} 31'05	2°16'58

Attention, astronomical year style is used: The year -11053 in astronomical counting style is the year 11054 BCE in historical counting style.

max. Earth dist.	-11053 Jul 29 j 16:09	18° 8 30'17	31.28335 AU	min. Earth dist.	-11046 Feb 10 j 18:52	2° II 40'14	29.26758 AU
morning rise	-11053 Aug 14 j 01:05	19° 8 04'57		direct	-11046 May 02 j 09:14	1° II 16'50	
retrograde	-11053 Nov 09 j 19:28	20° 8 59'13		evening set	-11046 Jul 29 j 15:10	3° II 11'17	
opposition	-11052 Jan 28 j 11:49	19° 8 36'45	2°27'38				
min. Earth dist.	-11052 Jan 28 j 19:01	19° 8 36'16	29.28379 AU	conjunction	-11046 Aug 13 j 14:26	3° II 45'03	2°34'51
direct	-11052 Apr 18 j 10:09	18° 8 13'01		minimum elong	-11046 Aug 13 j 14:25	3° II 45'03	2°35'23
evening set	-11052 Jul 16 j 08:25	20° 8 08'00		max. Earth dist.	-11046 Aug 13 j 13:16	3° II 44'56	31.26522 AU
				morning rise	-11046 Aug 28 j 13:42	4° II 18'49	
conjunction	-11052 Jul 31 j 09:35	20° 8 41'54	2°19'47	retrograde	-11046 Nov 25 j 01:34	6° II 14'00	
minimum elong	-11052 Jul 31 j 09:35	20° 8 41'54	2°20'14	opposition	-11045 Feb 13 j 06:32	4° II 51'04	2°46'26
max. Earth dist.	-11052 Jul 31 j 01:52	20° 8 41'10	31.28043 AU	min. Earth dist.	-11045 Feb 13 j 05:59	4° II 51'06	29.26726 AU
morning rise	-11052 Aug 15 j 09:49	21° 8 15'44		direct	-11045 May 04 j 19:54	3° II 27'40	
retrograde	-11052 Nov 11 j 07:02	23° 8 10'07		evening set	-11045 Aug 01 j 00:12	5° II 22'04	
opposition	-11051 Jan 30 j 00:52	21° 8 47'33	2°30'59				
min. Earth dist.	-11051 Jan 30 j 08:15	21° 8 47'03	29.28055 AU	conjunction	-11045 Aug 15 j 23:22	5° II 55'50	2°36'36
direct	-11051 Apr 20 j 21:18	20° 8 23'51		minimum elong	-11045 Aug 15 j 23:21	5° II 55'50	2°37'09
evening set	-11051 Jul 18 j 17:42	22° 8 18'43		max. Earth dist.	-11045 Aug 15 j 23:54	5° II 55'53	31.26490 AU
				morning rise	-11045 Aug 30 j 22:29	6° II 29'37	
conjunction	-11051 Aug 02 j 18:33	22° 8 52'35	2°22'49	retrograde	-11045 Nov 27 j 12:19	8° II 24'58	
minimum elong	-11051 Aug 02 j 18:32	22° 8 52'34	2°23'16	opposition	-11044 Feb 15 j 19:43	7° II 02'01	2°48'11
max. Earth dist.	-11051 Aug 02 j 12:04	22° 8 51'58	31.27684 AU	min. Earth dist.	-11044 Feb 15 j 19:11	7° II 02'03	29.26700 AU
morning rise	-11051 Aug 17 j 18:28	23° 8 26'23		direct	-11044 May 06 j 06:13	5° II 38'43	
retrograde	-11051 Nov 13 j 18:21	25° 8 20'53		evening set	-11044 Aug 02 j 09:17	7° II 33'03	
opposition	-11050 Feb 01 j 13:37	23° 8 58'13	2°34'08				
min. Earth dist.	-11050 Feb 01 j 19:15	23° 8 57'50	29.27676 AU	conjunction	-11044 Aug 17 j 08:15	8° II 06'48	2°38'08
direct	-11050 Apr 23 j 09:41	22° 8 34'31		minimum elong	-11044 Aug 17 j 08:15	8° II 06'48	2°38'41
evening set	-11050 Jul 21 j 02:59	24° 8 29'17		max. Earth dist.	-11044 Aug 17 j 09:31	8° II 06'55	31.26450 AU
				morning rise	-11044 Sep 01 j 07:25	8° II 40'36	
conjunction	-11050 Aug 05 j 03:21	25° 8 03'07	2°25'39	retrograde	-11044 Nov 29 j 00:31	10° II 36'08	
minimum elong	-11050 Aug 05 j 03:20	25° 8 03'07	2°26'07	opposition	-11043 Feb 17 j 08:47	9° II 13'10	2°49'42
max. Earth dist.	-11050 Aug 04 j 21:18	25° 8 02'33	31.27298 AU	min. Earth dist.	-11043 Feb 17 j 06:17	9° II 13'20	29.26628 AU
morning rise	-11050 Aug 20 j 03:10	25° 8 36'55		direct	-11043 May 08 j 17:23	7° II 49'57	
retrograde	-11050 Nov 16 j 05:47	27° 8 31'31		evening set	-11043 Aug 04 j 18:29	9° II 44'14	
opposition	-11049 Feb 04 j 02:40	26° 8 08'46	2°37'03				
min. Earth dist.	-11049 Feb 04 j 07:45	26° 8 08'25	29.27324 AU	conjunction	-11043 Aug 19 j 17:16	10° II 17'58	2°39'26
direct	-11049 Apr 25 j 20:31	24° 8 45'05		minimum elong	-11043 Aug 19 j 17:15	10° II 17'58	2°39'59
evening set	-11049 Jul 23 j 11:57	26° 8 39'45		max. Earth dist.	-11043 Aug 19 j 19:05	10° II 18'09	31.26320 AU
				morning rise	-11043 Sep 03 j 16:27	10° II 51'46	
conjunction	-11049 Aug 07 j 12:08	27° 8 13'34	2°28'16	retrograde	-11043 Dec 01 j 12:50	12° II 47'28	
minimum elong	-11049 Aug 07 j 12:07	27° 8 13'34	2°28'45	opposition	-11042 Feb 19 j 21:58	11° II 24'28	2°50'58
max. Earth dist.	-11049 Aug 07 j 08:16	27° 8 13'12	31.26967 AU	min. Earth dist.	-11042 Feb 19 j 19:43	11° II 24'37	29.26457 AU
morning rise	-11049 Aug 22 j 11:37	27° 8 47'21		direct	-11042 May 11 j 03:20	10° II 01'20	
retrograde	-11049 Nov 18 j 16:07	29° 8 42'05		evening set	-11042 Aug 07 j 03:40	11° II 55'33	
opposition	-11048 Feb 06 j 15:39	28° 8 19'14	2°39'44				
min. Earth dist.	-11048 Feb 06 j 19:12	28° 8 19'00	29.27035 AU	conjunction	-11042 Aug 22 j 02:26	12° II 29'17	2°40'30
direct	-11048 Apr 27 j 10:14	26° 8 55'36		minimum elong	-11042 Aug 22 j 02:25	12° II 29'17	2°41'04
evening set	-11048 Jul 24 j 21:09	28° 8 50'11		max. Earth dist.	-11042 Aug 22 j 05:32	12° II 29'35	31.26089 AU
				morning rise	-11042 Sep 06 j 01:33	13° II 03'05	
conjunction	-11048 Aug 08 j 20:53	29° 8 23'59	2°30'41	retrograde	-11042 Dec 04 j 01:07	14° II 58'57	
minimum elong	-11048 Aug 08 j 20:52	29° 8 23'59	2°31'10	opposition	-11041 Feb 22 j 11:12	13° II 35'54	2°51'59
max. Earth dist.	-11048 Aug 08 j 17:11	29° 8 23'38	31.26724 AU	min. Earth dist.	-11041 Feb 22 j 07:19	13° II 36'09	29.26154 AU
morning rise	-11048 Aug 23 j 20:23	29° 8 57'45		direct	-11041 May 13 j 14:36	12° II 12'48	
	-11048 Aug 24 j 20:43	0° II		evening set	-11041 Aug 09 j 12:52	14° II 06'57	
retrograde	-11048 Nov 20 j 04:38	1° II 52'37					
opposition	-11047 Feb 08 j 04:29	0° II 29'44	2°42'12	conjunction	-11041 Aug 24 j 11:27	14° II 40'41	2°41'21
min. Earth dist.	-11047 Feb 08 j 06:35	0° II 29'35	29.26857 AU	minimum elong	-11041 Aug 24 j 11:26	14° II 40'41	2°41'55
	-11047 Feb 26 j 23:45	30° 8		max. Earth dist.	-11041 Aug 24 j 14:29	14° II 40'58	31.25713 AU
direct	-11047 Apr 29 j 21:06	29° 8 06'09		morning rise	-11041 Sep 08 j 10:48	15° II 14'30	
	-11047 Jun 27 j 03:24	0° II		retrograde	-11041 Dec 06 j 13:47	17° II 10'30	
evening set	-11047 Jul 27 j 06:08	1° II 00'40		opposition	-11040 Feb 25 j 00:33	15° II 47'22	2°52'46
				min. Earth dist.	-11040 Feb 24 j 20:35	15° II 47'38	29.25716 AU
conjunction	-11047 Aug 11 j 05:47	1° II 34'27	2°32'53	direct	-11040 May 15 j 01:18	14° II 24'19	
minimum elong	-11047 Aug 11 j 05:46	1° II 34'27	2°33'23	evening set	-11040 Aug 10 j 22:00	16° II 18'22	
max. Earth dist.	-11047 Aug 11 j 04:14	1° II 34'18	31.26582 AU				
morning rise	-11047 Aug 26 j 05:00	2° II 08'14		conjunction	-11040 Aug 25 j 20:45	16° II 52'06	2°41'58
retrograde	-11047 Nov 22 j 14:02	4° II 03'14		minimum elong	-11040 Aug 25 j 20:45	16° II 52'06	2°42'33
opposition	-11046 Feb 10 j 17:30	2° II 40'19	2°44'26	max. Earth dist.	-11040 Aug 26 j 01:29	16° II 52'33	31.25200 AU

Attention, astronomical year style is used: The year -11040 in astronomical counting style is the year 11041 BCE in historical counting style.

morning rise	-11040 Sep 09 j 20:06	17° Π 25'56			-11033 Apr 28 j 21:42	30° κ Π	
retrograde	-11040 Dec 08 j 01:37	19° Π 22'02		direct	-11033 May 31 j 10:11	29° Π 43'14	
opposition	-11039 Feb 26 j 13:36	17° Π 58'50	2°53'18		-11033 Jul 02 j 01:04	0° Θ	
min. Earth dist.	-11039 Feb 26 j 08:40	17° Π 59'09	29.25133 AU	evening set	-11033 Aug 26 j 12:57	1° Θ 36'35	
direct	-11039 May 17 j 14:51	16° Π 35'47					
evening set	-11039 Aug 13 j 07:13	18° Π 29'44		conjunction	-11033 Sep 10 j 12:36	2° Θ 10'23	2°39'44
				minimum elong	-11033 Sep 10 j 12:36	2° Θ 10'23	2°40'21
conjunction	-11039 Aug 28 j 05:49	19° Π 03'29	2°42'20	max. Earth dist.	-11033 Sep 11 j 00:31	2° Θ 11'31	31.21103 AU
minimum elong	-11039 Aug 28 j 05:49	19° Π 03'29	2°42'56	morning rise	-11033 Sep 25 j 13:51	2° Θ 44'23	
max. Earth dist.	-11039 Aug 28 j 10:15	19° Π 03'54	31.24569 AU	retrograde	-11033 Dec 24 j 10:26	4° Θ 41'15	
morning rise	-11039 Sep 12 j 05:30	19° Π 37'19		opposition	-11032 Mar 14 j 09:15	3° Θ 17'31	2°50'03
retrograde	-11039 Dec 10 j 14:54	21° Π 33'31		min. Earth dist.	-11032 Mar 13 j 20:29	3° Θ 18'22	29.21140 AU
opposition	-11038 Mar 01 j 02:46	20° Π 10'12	2°53'35	direct	-11032 Jun 01 j 20:56	1° Θ 54'39	
min. Earth dist.	-11038 Feb 28 j 20:51	20° Π 10'36	29.24467 AU	evening set	-11032 Aug 27 j 22:10	3° Θ 47'57	
direct	-11038 May 20 j 02:00	18° Π 47'10					
evening set	-11038 Aug 15 j 16:05	20° Π 41'00		conjunction	-11032 Sep 11 j 21:56	4° Θ 21'47	2°38'28
				minimum elong	-11032 Sep 11 j 21:56	4° Θ 21'47	2°39'05
conjunction	-11038 Aug 30 j 14:53	21° Π 14'45	2°42'29	max. Earth dist.	-11032 Sep 12 j 09:53	4° Θ 22'55	31.20706 AU
minimum elong	-11038 Aug 30 j 14:53	21° Π 14'45	2°43'06	morning rise	-11032 Sep 26 j 23:45	4° Θ 55'49	
max. Earth dist.	-11038 Aug 30 j 21:15	21° Π 15'21	31.23868 AU	retrograde	-11032 Dec 25 j 23:52	6° Θ 52'49	
morning rise	-11038 Sep 14 j 14:36	21° Π 48'36		opposition	-11031 Mar 16 j 22:15	5° Θ 29'03	2°48'35
retrograde	-11038 Dec 13 j 00:31	23° Π 44'54		min. Earth dist.	-11031 Mar 16 j 09:23	5° Θ 29'55	29.20736 AU
opposition	-11037 Mar 03 j 16:01	22° Π 21'29	2°53'38	direct	-11031 Jun 04 j 06:43	4° Θ 06'15	
min. Earth dist.	-11037 Mar 03 j 09:30	22° Π 21'55	29.23755 AU	evening set	-11031 Aug 30 j 07:16	5° Θ 59'30	
direct	-11037 May 22 j 14:38	20° Π 58'27					
evening set	-11037 Aug 18 j 01:09	22° Π 52'09		conjunction	-11031 Sep 14 j 07:30	6° Θ 33'22	2°36'59
				minimum elong	-11031 Sep 14 j 07:31	6° Θ 33'22	2°37'36
conjunction	-11037 Sep 01 j 23:56	23° Π 25'54	2°42'24	max. Earth dist.	-11031 Sep 14 j 21:16	6° Θ 34'40	31.20275 AU
minimum elong	-11037 Sep 01 j 23:56	23° Π 25'54	2°43'01	morning rise	-11031 Sep 29 j 09:35	7° Θ 07'26	
max. Earth dist.	-11037 Sep 02 j 06:40	23° Π 26'32	31.23174 AU	retrograde	-11031 Dec 28 j 12:34	9° Θ 04'34	
morning rise	-11037 Sep 17 j 00:00	23° Π 59'47		opposition	-11030 Mar 19 j 11:21	7° Θ 40'45	2°46'52
retrograde	-11037 Dec 15 j 12:17	25° Π 56'10		min. Earth dist.	-11030 Mar 18 j 21:31	7° Θ 41'41	29.20257 AU
opposition	-11036 Mar 05 j 05:01	24° Π 32'39	2°53'25	direct	-11030 Jun 06 j 18:59	6° Θ 18'01	
min. Earth dist.	-11036 Mar 04 j 20:39	24° Π 33'13	29.23087 AU	evening set	-11030 Sep 01 j 16:31	8° Θ 11'12	
direct	-11036 May 24 j 02:26	23° Π 09'37					
evening set	-11036 Aug 19 j 10:05	25° Π 03'13		conjunction	-11030 Sep 16 j 16:55	8° Θ 45'06	2°35'16
				minimum elong	-11030 Sep 16 j 16:56	8° Θ 45'06	2°35'52
conjunction	-11036 Sep 03 j 09:04	25° Π 36'59	2°42'05	max. Earth dist.	-11030 Sep 17 j 06:20	8° Θ 46'22	31.19758 AU
minimum elong	-11036 Sep 03 j 09:04	25° Π 36'59	2°42'42	morning rise	-11030 Oct 01 j 19:38	9° Θ 19'13	
max. Earth dist.	-11036 Sep 03 j 17:24	25° Π 37'46	31.22527 AU	retrograde	-11030 Dec 31 j 02:47	11° Θ 16'29	
morning rise	-11036 Sep 18 j 09:21	26° Π 10'53		min. Earth dist.	-11029 Mar 21 j 10:00	9° Θ 53'36	29.19685 AU
retrograde	-11036 Dec 16 j 23:09	28° Π 07'22		opposition	-11029 Mar 22 j 00:34	9° Θ 52'37	2°44'54
opposition	-11035 Mar 07 j 18:08	26° Π 43'46	2°52'57	direct	-11029 Jun 09 j 05:19	8° Θ 29'56	
min. Earth dist.	-11035 Mar 07 j 09:36	26° Π 44'21	29.22485 AU	evening set	-11029 Sep 04 j 01:51	10° Θ 23'03	
direct	-11035 May 26 j 13:39	25° Π 20'46					
evening set	-11035 Aug 21 j 19:04	27° Π 14'16		conjunction	-11029 Sep 19 j 02:45	10° Θ 56'59	2°33'19
				minimum elong	-11029 Sep 19 j 02:46	10° Θ 56'59	2°33'56
conjunction	-11035 Sep 05 j 18:12	27° Π 48'02	2°41'32	max. Earth dist.	-11029 Sep 19 j 17:35	10° Θ 58'23	31.19114 AU
minimum elong	-11035 Sep 05 j 18:12	27° Π 48'02	2°42'08	morning rise	-11029 Oct 04 j 05:50	11° Θ 31'08	
max. Earth dist.	-11035 Sep 06 j 03:36	27° Π 48'56	31.21975 AU	retrograde	-11028 Jan 02 j 14:04	13° Θ 28'31	
morning rise	-11035 Sep 20 j 18:46	28° Π 21'58		opposition	-11028 Mar 23 j 13:41	12° Θ 04'36	2°42'43
	-11035 Nov 15 j 15:21	0° Θ		min. Earth dist.	-11028 Mar 22 j 23:02	12° Θ 05'36	29.18966 AU
retrograde	-11035 Dec 19 j 10:28	0° Θ 18'34		direct	-11028 Jun 10 j 17:30	10° Θ 41'57	
	-11034 Jan 23 j 06:27	30° κ Π		evening set	-11028 Sep 05 j 11:17	12° Θ 34'59	
opposition	-11034 Mar 10 j 07:02	28° Π 54'55	2°52'14				
min. Earth dist.	-11034 Mar 09 j 20:13	28° Π 55'38	29.21972 AU	conjunction	-11028 Sep 20 j 12:33	13° Θ 08'57	2°31'09
direct	-11034 May 29 j 00:46	27° Π 31'56		minimum elong	-11028 Sep 20 j 12:34	13° Θ 08'57	2°31'46
evening set	-11034 Aug 24 j 04:04	29° Π 25'22		max. Earth dist.	-11028 Sep 21 j 03:13	13° Θ 10'21	31.18337 AU
				morning rise	-11028 Oct 05 j 16:16	13° Θ 43'09	
conjunction	-11034 Sep 08 j 03:20	29° Π 59'09	2°40'45	retrograde	-11027 Jan 04 j 03:26	15° Θ 40'37	
minimum elong	-11034 Sep 08 j 03:20	29° Π 59'09	2°41'22	min. Earth dist.	-11027 Mar 25 j 10:52	14° Θ 17'43	29.18109 AU
	-11034 Sep 08 j 12:15	0° Θ		opposition	-11027 Mar 26 j 02:44	14° Θ 16'38	2°40'17
max. Earth dist.	-11034 Sep 08 j 13:31	0° Θ 00'07	31.21503 AU	direct	-11027 Jun 13 j 05:26	12° Θ 53'59	
morning rise	-11034 Sep 23 j 04:18	0° Θ 33'07		evening set	-11027 Sep 07 j 20:36	14° Θ 46'56	
retrograde	-11034 Dec 21 j 22:17	2° Θ 29'51					
opposition	-11033 Mar 12 j 20:13	1° Θ 06'08	2°51'16	conjunction	-11027 Sep 22 j 22:20	15° Θ 20'56	2°28'46
min. Earth dist.	-11033 Mar 12 j 09:16	1° Θ 06'53	29.21540 AU	minimum elong	-11027 Sep 22 j 22:20	15° Θ 20'56	2°29'22

Attention, astronomical year style is used: The year -11027 in astronomical counting style is the year 11028 BCE in historical counting style.

max. Earth dist.	-11027 Sep 23 j 13:54	15° $\overline{022}$ '25	31.17410 AU	direct	-11020 Jun 28 j 07:19	28° $\overline{017}$ '37	
morning rise	-11027 Oct 08 j 02:34	15° $\overline{055}$ '11			-11020 Sep 18 j 00:19	0° $\overline{000}$ '00	
retrograde	-11026 Jan 06 j 15:01	17° $\overline{052}$ '44		evening set	-11020 Sep 22 j 14:16	0° $\overline{010}$ '03	
opposition	-11026 Mar 28 j 15:50	16° $\overline{028}$ '40	2°37'37				
min. Earth dist.	-11026 Mar 28 j 00:22	16° $\overline{029}$ '43	29.17122 AU	conjunction	-11020 Oct 07 j 19:55	0° $\overline{044}$ '21	2°06'15
direct	-11026 Jun 15 j 16:56	15° $\overline{006}$ '00		minimum elong	-11020 Oct 07 j 19:56	0° $\overline{044}$ '21	2°06'48
evening set	-11026 Sep 10 j 05:55	16° $\overline{058}$ '51		max. Earth dist.	-11020 Oct 08 j 17:44	0° $\overline{046}$ '25	31.11229 AU
				morning rise	-11020 Oct 23 j 04:46	1° $\overline{018}$ '58	
conjunction	-11026 Sep 25 j 08:10	17° $\overline{032}$ '54	2°26'10	retrograde	-11019 Jan 22 j 05:33	3° $\overline{017}$ '03	
minimum elong	-11026 Sep 25 j 08:11	17° $\overline{032}$ '54	2°26'46	min. Earth dist.	-11019 Apr 12 j 11:49	1° $\overline{053}$ '57	29.11085 AU
max. Earth dist.	-11026 Sep 26 j 00:29	17° $\overline{034}$ '27	31.16401 AU	opposition	-11019 Apr 13 j 09:10	1° $\overline{052}$ '30	2°12'47
morning rise	-11026 Oct 10 j 12:59	18° $\overline{007}$ '12		direct	-11019 Jun 30 j 19:02	0° $\overline{029}$ '52	
retrograde	-11025 Jan 09 j 02:27	20° $\overline{004}$ '49		evening set	-11019 Sep 24 j 23:52	2° $\overline{022}$ '15	
min. Earth dist.	-11025 Mar 30 j 11:31	18° $\overline{041}$ '49	29.16079 AU				
opposition	-11025 Mar 31 j 04:44	18° $\overline{040}$ '38	2°34'43	conjunction	-11019 Oct 10 j 06:04	2° $\overline{056}$ '36	2°02'14
direct	-11025 Jun 18 j 04:33	17° $\overline{017}$ '57		minimum elong	-11019 Oct 10 j 06:05	2° $\overline{056}$ '37	2°02'47
evening set	-11025 Sep 12 j 15:14	19° $\overline{010}$ '43		max. Earth dist.	-11019 Oct 11 j 04:01	2° $\overline{058}$ '41	31.10620 AU
				morning rise	-11019 Oct 25 j 15:42	3° $\overline{031}$ '17	
conjunction	-11025 Sep 27 j 17:54	19° $\overline{044}$ '47	2°23'21	retrograde	-11018 Jan 24 j 20:21	5° $\overline{029}$ '28	
minimum elong	-11025 Sep 27 j 17:54	19° $\overline{044}$ '47	2°23'57	opposition	-11018 Apr 15 j 21:46	4° $\overline{004}$ '52	2°08'24
max. Earth dist.	-11025 Sep 28 j 10:34	19° $\overline{046}$ '22	31.15350 AU	min. Earth dist.	-11018 Apr 14 j 23:14	4° $\overline{006}$ '25	29.10465 AU
morning rise	-11025 Oct 12 j 23:27	20° $\overline{019}$ '08		direct	-11018 Jul 03 j 06:48	2° $\overline{042}$ '17	
retrograde	-11024 Jan 11 j 13:48	22° $\overline{016}$ '50		evening set	-11018 Sep 27 j 09:43	4° $\overline{034}$ '37	
opposition	-11024 Apr 01 j 17:44	20° $\overline{052}$ '33	2°31'37				
min. Earth dist.	-11024 Apr 01 j 00:42	20° $\overline{053}$ '42	29.15036 AU	conjunction	-11018 Oct 12 j 16:34	5° $\overline{009}$ '02	1°58'03
direct	-11024 Jun 19 j 14:18	19° $\overline{029}$ '51		minimum elong	-11018 Oct 12 j 16:35	5° $\overline{009}$ '02	1°58'34
evening set	-11024 Sep 14 j 00:33	21° $\overline{022}$ '30		max. Earth dist.	-11018 Oct 13 j 15:16	5° $\overline{011}$ '11	31.09984 AU
				morning rise	-11018 Oct 28 j 02:56	5° $\overline{043}$ '46	
conjunction	-11024 Sep 29 j 03:52	21° $\overline{056}$ '37	2°20'20	retrograde	-11017 Jan 27 j 08:44	7° $\overline{042}$ '02	
minimum elong	-11024 Sep 29 j 03:53	21° $\overline{056}$ '37	2°20'55	opposition	-11017 Apr 18 j 10:30	6° $\overline{017}$ '24	2°03'49
max. Earth dist.	-11024 Sep 29 j 22:11	21° $\overline{058}$ '21	31.14339 AU	min. Earth dist.	-11017 Apr 17 j 12:35	6° $\overline{018}$ '54	29.09800 AU
morning rise	-11024 Oct 14 j 09:55	22° $\overline{031}$ '01		direct	-11017 Jul 05 j 17:49	4° $\overline{054}$ '50	
retrograde	-11023 Jan 13 j 01:26	24° $\overline{028}$ '46		evening set	-11017 Sep 29 j 19:37	6° $\overline{047}$ '08	
min. Earth dist.	-11023 Apr 03 j 11:31	23° $\overline{005}$ '41	29.14050 AU				
opposition	-11023 Apr 04 j 06:18	23° $\overline{004}$ '25	2°28'17	conjunction	-11017 Oct 15 j 03:13	7° $\overline{021}$ '36	1°53'40
direct	-11023 Jun 22 j 00:55	21° $\overline{041}$ '42		minimum elong	-11017 Oct 15 j 03:14	7° $\overline{021}$ '36	1°54'11
evening set	-11023 Sep 16 j 10:00	23° $\overline{034}$ '17		max. Earth dist.	-11017 Oct 16 j 02:24	7° $\overline{023}$ '47	31.09297 AU
				morning rise	-11017 Oct 30 j 14:19	7° $\overline{056}$ '24	
conjunction	-11023 Oct 01 j 13:42	24° $\overline{008}$ '26	2°17'07	retrograde	-11016 Jan 29 j 21:15	9° $\overline{054}$ '43	
minimum elong	-11023 Oct 01 j 13:43	24° $\overline{008}$ '26	2°17'42	opposition	-11016 Apr 19 j 23:04	8° $\overline{030}$ '03	1°59'03
max. Earth dist.	-11023 Oct 02 j 08:02	24° $\overline{010}$ '10	31.13406 AU	min. Earth dist.	-11016 Apr 18 j 23:54	8° $\overline{031}$ '38	29.09051 AU
morning rise	-11023 Oct 16 j 20:33	24° $\overline{042}$ '53		direct	-11016 Jul 07 j 05:30	7° $\overline{007}$ '29	
retrograde	-11022 Jan 15 j 14:36	26° $\overline{040}$ '43		evening set	-11016 Oct 01 j 05:49	8° $\overline{059}$ '44	
opposition	-11022 Apr 06 j 19:09	25° $\overline{016}$ '17	2°24'44				
min. Earth dist.	-11022 Apr 06 j 00:05	25° $\overline{017}$ '35	29.13173 AU	conjunction	-11016 Oct 16 j 13:59	9° $\overline{034}$ '15	1°49'08
direct	-11022 Jun 24 j 10:40	23° $\overline{053}$ '35		minimum elong	-11016 Oct 16 j 14:00	9° $\overline{034}$ '15	1°49'38
evening set	-11022 Sep 18 j 19:11	25° $\overline{046}$ '06		max. Earth dist.	-11016 Oct 17 j 12:47	9° $\overline{036}$ '25	31.08492 AU
				morning rise	-11016 Nov 01 j 01:56	10° $\overline{009}$ '07	
conjunction	-11022 Oct 03 j 23:38	26° $\overline{020}$ '18	2°13'42	retrograde	-11015 Jan 31 j 09:23	12° $\overline{007}$ '29	
minimum elong	-11022 Oct 03 j 23:39	26° $\overline{020}$ '18	2°14'16	opposition	-11015 Apr 22 j 11:40	10° $\overline{042}$ '46	1°54'07
max. Earth dist.	-11022 Oct 04 j 20:02	26° $\overline{022}$ '13	31.12587 AU	min. Earth dist.	-11015 Apr 21 j 13:20	10° $\overline{044}$ '18	29.08184 AU
morning rise	-11022 Oct 19 j 07:00	26° $\overline{054}$ '47		direct	-11015 Jul 09 j 15:36	9° $\overline{020}$ '11	
retrograde	-11021 Jan 18 j 03:14	28° $\overline{052}$ '43		evening set	-11015 Oct 03 j 15:53	11° $\overline{012}$ '23	
min. Earth dist.	-11021 Apr 08 j 11:36	27° $\overline{029}$ '36	29.12395 AU				
opposition	-11021 Apr 09 j 07:53	27° $\overline{028}$ '13	2°20'57	conjunction	-11015 Oct 19 j 00:54	11° $\overline{046}$ '57	1°44'26
direct	-11021 Jun 26 j 22:04	26° $\overline{005}$ '32		minimum elong	-11015 Oct 19 j 00:55	11° $\overline{046}$ '57	1°44'55
evening set	-11021 Sep 21 j 04:44	27° $\overline{058}$ '00		max. Earth dist.	-11015 Oct 20 j 00:44	11° $\overline{049}$ '12	31.07581 AU
				morning rise	-11015 Nov 03 j 13:29	12° $\overline{021}$ '52	
conjunction	-11021 Oct 06 j 09:39	28° $\overline{032}$ '15	2°10'04	retrograde	-11014 Feb 02 j 21:31	14° $\overline{020}$ '16	
minimum elong	-11021 Oct 06 j 09:40	28° $\overline{032}$ '15	2°10'38	min. Earth dist.	-11014 Apr 24 j 00:43	12° $\overline{057}$ '05	29.07205 AU
max. Earth dist.	-11021 Oct 07 j 05:53	28° $\overline{034}$ '10	31.11874 AU	opposition	-11014 Apr 25 j 00:11	12° $\overline{055}$ '28	1°49'00
morning rise	-11021 Oct 21 j 17:54	29° $\overline{006}$ '48		direct	-11014 Jul 12 j 03:02	11° $\overline{032}$ '52	
	-11021 Nov 16 j 14:23	0° $\overline{000}$ '00		evening set	-11014 Oct 06 j 02:01	13° $\overline{024}$ '59	
retrograde	-11020 Jan 20 j 17:18	1° $\overline{004}$ '49					
	-11020 Mar 29 j 16:40	30° $\overline{000}$ '00		conjunction	-11014 Oct 21 j 11:36	13° $\overline{059}$ '36	1°39'35
opposition	-11020 Apr 10 j 20:30	29° $\overline{040}$ '17	2°16'59	minimum elong	-11014 Oct 21 j 11:37	13° $\overline{059}$ '36	1°40'03
min. Earth dist.	-11020 Apr 09 j 23:24	29° $\overline{041}$ '43	29.11720 AU	max. Earth dist.	-11014 Oct 22 j 10:48	14° $\overline{001}$ '47	31.06572 AU

Attention, astronomical year style is used: The year -11014 in astronomical counting style is the year 11015 BCE in historical counting style.

morning rise	-11014 Nov 06 j 01:10	14°Ω34'35		direct	-11007 Jul 27 j 06:45	27°Ω01'07	
	-11014 Nov 17 j 20:58	15°Ω		evening set	-11007 Oct 21 j 02:57	28°Ω53'04	
retrograde	-11013 Feb 05 j 10:04	16°Ω33'00					
opposition	-11013 Apr 27 j 12:47	15°Ω08'07	1°43'45	conjunction	-11007 Nov 05 j 17:38	29°Ω28'03	1°01'55
min. Earth dist.	-11013 Apr 26 j 13:46	15°Ω09'42	29.06160 AU	minimum elong	-11007 Nov 05 j 17:39	29°Ω28'03	1°02'16
	-11013 May 02 j 11:10	15°℞Ω		max. Earth dist.	-11007 Nov 06 j 20:18	29°Ω30'34	31.00772 AU
direct	-11013 Jul 14 j 12:52	13°Ω45'28			-11007 Nov 19 j 23:05	0°℞	
	-11013 Sep 20 j 16:33	15°Ω		morning rise	-11007 Nov 21 j 12:37	0°℞03'27	
evening set	-11013 Oct 08 j 12:11	15°Ω37'31		retrograde	-11006 Feb 21 j 06:01	2°℞02'07	
				min. Earth dist.	-11006 May 12 j 00:29	0°℞38'43	29.00588 AU
conjunction	-11013 Oct 23 j 22:40	16°Ω12'11	1°34'35	opposition	-11006 May 13 j 01:53	0°℞36'57	1°03'01
minimum elong	-11013 Oct 23 j 22:41	16°Ω12'11	1°35'03		-11006 Jun 05 j 02:42	30°℞Ω	
max. Earth dist.	-11013 Oct 24 j 23:21	16°Ω14'31	31.05515 AU	direct	-11006 Jul 29 j 16:38	29°Ω14'15	
morning rise	-11013 Nov 08 j 12:52	16°Ω47'13			-11006 Sep 19 j 23:17	0°℞	
retrograde	-11012 Feb 07 j 21:44	18°Ω45'40		evening set	-11006 Oct 23 j 13:43	1°℞06'12	
min. Earth dist.	-11012 Apr 28 j 01:23	17°Ω22'19	29.05090 AU				
opposition	-11012 Apr 29 j 00:59	17°Ω20'42	1°38'20	conjunction	-11006 Nov 08 j 05:17	1°℞41'16	0°56'05
direct	-11012 Jul 16 j 00:08	15°Ω57'59		minimum elong	-11006 Nov 08 j 05:18	1°℞41'16	0°56'24
evening set	-11012 Oct 09 j 22:31	17°Ω49'59		max. Earth dist.	-11006 Nov 09 j 09:01	1°℞43'53	31.00271 AU
				morning rise	-11006 Nov 24 j 00:53	2°℞16'43	
conjunction	-11012 Oct 25 j 09:36	18°Ω24'42	1°29'27	retrograde	-11005 Feb 23 j 18:49	4°℞15'26	
minimum elong	-11012 Oct 25 j 09:37	18°Ω24'43	1°29'53	min. Earth dist.	-11005 May 14 j 11:37	2°℞52'07	29.00068 AU
max. Earth dist.	-11012 Oct 26 j 09:42	18°Ω26'59	31.04475 AU	opposition	-11005 May 15 j 13:54	2°℞50'18	0°56'43
morning rise	-11012 Nov 10 j 00:43	18°Ω59'48		direct	-11005 Aug 01 j 03:55	1°℞27'37	
retrograde	-11011 Feb 09 j 11:35	20°Ω58'15		evening set	-11005 Oct 26 j 01:00	3°℞19'36	
opposition	-11011 May 01 j 13:17	19°Ω33'12	1°32'46				
min. Earth dist.	-11011 Apr 30 j 13:12	19°Ω34'52	29.04080 AU	conjunction	-11005 Nov 10 j 17:07	3°℞54'42	0°50'09
direct	-11011 Jul 18 j 09:30	18°Ω10'27		minimum elong	-11005 Nov 10 j 17:08	3°℞54'42	0°50'28
evening set	-11011 Oct 12 j 08:41	20°Ω02'25		max. Earth dist.	-11005 Nov 11 j 19:48	3°℞57'13	30.99738 AU
				morning rise	-11005 Nov 26 j 13:36	4°℞30'13	
conjunction	-11011 Oct 27 j 20:33	20°Ω37'11	1°24'11	retrograde	-11004 Feb 26 j 07:16	6°℞28'58	
minimum elong	-11011 Oct 27 j 20:34	20°Ω37'11	1°24'37	min. Earth dist.	-11004 May 16 j 00:31	5°℞05'36	28.99506 AU
max. Earth dist.	-11011 Oct 28 j 22:04	20°Ω39'36	31.03503 AU	opposition	-11004 May 17 j 01:53	5°℞03'50	0°50'20
morning rise	-11011 Nov 12 j 12:19	21°Ω12'20		direct	-11004 Aug 02 j 13:16	3°℞41'09	
retrograde	-11010 Feb 11 j 23:46	23°Ω10'49		evening set	-11004 Oct 27 j 12:17	5°℞33'10	
min. Earth dist.	-11010 May 03 j 01:14	21°Ω47'23	29.03155 AU				
opposition	-11010 May 04 j 01:32	21°Ω45'43	1°27'04	conjunction	-11004 Nov 12 j 05:15	6°℞08'20	0°44'09
direct	-11010 Jul 20 j 21:09	20°Ω22'57		minimum elong	-11004 Nov 12 j 05:16	6°℞08'20	0°44'26
evening set	-11010 Oct 14 j 19:05	22°Ω14'53		max. Earth dist.	-11004 Nov 13 j 08:51	6°℞10'55	30.99132 AU
				morning rise	-11004 Nov 28 j 02:16	6°℞43'53	
conjunction	-11010 Oct 30 j 07:39	22°Ω49'42	1°18'47	retrograde	-11003 Feb 27 j 18:59	8°℞42'41	
minimum elong	-11010 Oct 30 j 07:40	22°Ω49'42	1°19'12	opposition	-11003 May 19 j 13:52	7°℞17'32	0°43'53
max. Earth dist.	-11010 Oct 31 j 09:14	22°Ω52'07	31.02657 AU	min. Earth dist.	-11003 May 18 j 12:26	7°℞19'18	28.98840 AU
morning rise	-11010 Nov 15 j 00:16	23°Ω24'54		direct	-11003 Aug 05 j 00:01	5°℞54'50	
retrograde	-11009 Feb 14 j 14:51	25°Ω23'25		evening set	-11003 Oct 29 j 23:40	7°℞46'52	
opposition	-11009 May 06 j 13:37	23°Ω58'16	1°21'14				
min. Earth dist.	-11009 May 05 j 12:10	24°Ω00'02	29.02367 AU	conjunction	-11003 Nov 14 j 17:12	8°℞22'04	0°38'04
direct	-11009 Jul 23 j 08:32	22°Ω35'30		minimum elong	-11003 Nov 14 j 17:12	8°℞22'04	0°38'21
evening set	-11009 Oct 17 j 05:35	24°Ω27'25		max. Earth dist.	-11003 Nov 15 j 19:30	8°℞24'32	30.98423 AU
				morning rise	-11003 Nov 30 j 15:04	8°℞57'41	
conjunction	-11009 Nov 01 j 18:53	25°Ω02'19	1°13'17	retrograde	-11002 Mar 02 j 09:10	10°℞56'29	
minimum elong	-11009 Nov 01 j 18:53	25°Ω02'19	1°13'41	min. Earth dist.	-11002 May 21 j 00:44	9°℞33'03	28.98073 AU
max. Earth dist.	-11009 Nov 02 j 21:11	25°Ω04'47	31.01928 AU	opposition	-11002 May 22 j 01:55	9°℞31'18	0°37'21
morning rise	-11009 Nov 17 j 12:18	25°Ω37'35		direct	-11002 Aug 07 j 09:17	8°℞08'34	
retrograde	-11008 Feb 17 j 03:15	27°Ω36'09		evening set	-11002 Nov 01 j 11:11	10°℞00'36	
min. Earth dist.	-11008 May 07 j 00:53	26°Ω12'42	29.01690 AU				
opposition	-11008 May 08 j 01:49	26°Ω10'58	1°15'17	conjunction	-11002 Nov 17 j 05:30	10°℞35'51	0°31'57
direct	-11008 Jul 24 j 19:14	24°Ω48'13		minimum elong	-11002 Nov 17 j 05:30	10°℞35'51	0°32'12
evening set	-11008 Oct 18 j 16:09	26°Ω40'08		max. Earth dist.	-11002 Nov 18 j 08:21	10°℞38'22	30.97601 AU
				morning rise	-11002 Dec 03 j 03:57	11°℞11'31	
conjunction	-11008 Nov 03 j 06:15	27°Ω15'05	1°07'39	retrograde	-11001 Mar 04 j 21:05	13°℞10'18	
minimum elong	-11008 Nov 03 j 06:16	27°Ω15'05	1°08'01	opposition	-11001 May 24 j 13:46	11°℞45'04	0°30'46
max. Earth dist.	-11008 Nov 04 j 09:10	27°Ω17'37	31.01316 AU	min. Earth dist.	-11001 May 23 j 13:13	11°℞46'46	28.97200 AU
morning rise	-11008 Nov 19 j 00:22	27°Ω50'25		direct	-11001 Aug 09 j 21:07	10°℞22'16	
retrograde	-11007 Feb 18 j 16:43	29°Ω49'01		evening set	-11001 Nov 03 j 22:50	12°℞14'18	
min. Earth dist.	-11007 May 09 j 11:31	28°Ω25'40	29.01109 AU				
opposition	-11007 May 10 j 13:44	28°Ω23'51	1°09'12	conjunction	-11001 Nov 19 j 17:50	12°℞49'36	0°25'46

Attention, astronomical year style is used: The year -11001 in astronomical counting style is the year 11002 BCE in historical counting style.

minimum elong	-11001 Nov 19 j 17:50	12° $\mathring{\mu}$ 49'36	0°26'00	conjunction	-10995 Dec 02 j 20:53	26° $\mathring{\mu}$ 11'05	-0°11'50
max. Earth dist.	-11001 Nov 20 j 19:54	12° $\mathring{\mu}$ 52'03	30.96711 AU	minimum elong	-10995 Dec 02 j 20:53	26° $\mathring{\mu}$ 11'05	0°11'44
morning rise	-11001 Dec 05 j 17:02	13° $\mathring{\mu}$ 25'18		behind sun begin	-10995 Dec 02 j 16:19	26° $\mathring{\mu}$ 10'41	
retrograde	-11000 Mar 06 j 11:44	15° $\mathring{\mu}$ 24'03		behind sun end	-10995 Dec 03 j 01:27	26° $\mathring{\mu}$ 11'30	
min. Earth dist.	-11000 May 25 j 00:34	14° $\mathring{\mu}$ 00'30	28.96283 AU	max. Earth dist.	-10995 Dec 03 j 23:42	26° $\mathring{\mu}$ 13'36	30.92421 AU
opposition	-11000 May 26 j 01:32	13° $\mathring{\mu}$ 58'46	0°24'09	morning rise	-10995 Dec 18 j 23:28	26° $\mathring{\mu}$ 47'02	
direct	-11000 Aug 11 j 08:52	12° $\mathring{\mu}$ 35'53		retrograde	-10994 Mar 20 j 16:35	28° $\mathring{\mu}$ 45'40	
evening set	-11000 Nov 05 j 10:33	14° $\mathring{\mu}$ 27'55		opposition	-10994 Jun 08 j 22:41	27° $\mathring{\mu}$ 20'13	-0°16'03
				min. Earth dist.	-10994 Jun 07 j 22:35	27° $\mathring{\mu}$ 21'55	28.92253 AU
conjunction	-11000 Nov 21 j 06:08	15° $\mathring{\mu}$ 03'16	0°19'34	direct	-10994 Aug 25 j 03:33	25° $\mathring{\mu}$ 57'06	
minimum elong	-11000 Nov 21 j 06:08	15° $\mathring{\mu}$ 03'16	0°19'45	evening set	-10994 Nov 19 j 10:39	27° $\mathring{\mu}$ 49'21	
max. Earth dist.	-11000 Nov 22 j 08:21	15° $\mathring{\mu}$ 05'43	30.95780 AU				
morning rise	-11000 Dec 07 j 05:56	15° $\mathring{\mu}$ 39'00		conjunction	-10994 Dec 05 j 09:47	28° $\mathring{\mu}$ 24'56	-0°18'06
retrograde	-10999 Mar 08 j 23:33	17° $\mathring{\mu}$ 37'44		minimum elong	-10994 Dec 05 j 09:46	28° $\mathring{\mu}$ 24'56	0°18'02
opposition	-10999 May 28 j 13:12	16° $\mathring{\mu}$ 12'22	0°17'29	max. Earth dist.	-10994 Dec 06 j 11:16	28° $\mathring{\mu}$ 27'19	30.92040 AU
min. Earth dist.	-10999 May 27 j 13:18	16° $\mathring{\mu}$ 14'02	28.95366 AU	morning rise	-10994 Dec 21 j 13:01	29° $\mathring{\mu}$ 00'55	
direct	-10999 Aug 13 j 19:38	14° $\mathring{\mu}$ 49'25			-10993 Jan 19 j 21:36	0° $\mathring{\mu}$	
evening set	-10999 Nov 07 j 22:14	16° $\mathring{\mu}$ 41'26		retrograde	-10993 Mar 23 j 06:28	0° $\mathring{\mu}$ 59'34	
					-10993 May 26 j 19:35	30° $\mathring{\mu}$	
conjunction	-10999 Nov 23 j 18:32	17° $\mathring{\mu}$ 16'50	0°13'20	min. Earth dist.	-10993 Jun 10 j 10:21	29° $\mathring{\mu}$ 35'48	28.91894 AU
minimum elong	-10999 Nov 23 j 18:32	17° $\mathring{\mu}$ 16'50	0°13'31	opposition	-10993 Jun 11 j 10:02	29° $\mathring{\mu}$ 34'08	-0°22'44
behind sun begin	-10999 Nov 23 j 14:57	17° $\mathring{\mu}$ 16'31		direct	-10993 Aug 27 j 12:45	28° $\mathring{\mu}$ 11'00	
behind sun end	-10999 Nov 23 j 22:07	17° $\mathring{\mu}$ 17'09			-10993 Nov 20 j 10:21	0° $\mathring{\mu}$	
max. Earth dist.	-10999 Nov 24 j 20:58	17° $\mathring{\mu}$ 19'18	30.94903 AU	evening set	-10993 Nov 21 j 23:16	0° $\mathring{\mu}$ 03'21	
morning rise	-10999 Dec 09 j 18:55	17° $\mathring{\mu}$ 52'37					
retrograde	-10998 Mar 11 j 13:53	19° $\mathring{\mu}$ 51'18		conjunction	-10993 Dec 07 j 23:00	0° $\mathring{\mu}$ 38'59	-0°24'20
min. Earth dist.	-10998 May 29 j 23:51	18° $\mathring{\mu}$ 27'37	28.94526 AU	minimum elong	-10993 Dec 07 j 23:00	0° $\mathring{\mu}$ 38'59	0°24'17
opposition	-10998 May 31 j 00:44	18° $\mathring{\mu}$ 25'53	0°10'48	max. Earth dist.	-10993 Dec 09 j 00:54	0° $\mathring{\mu}$ 41'24	30.91671 AU
direct	-10998 Aug 16 j 08:09	17° $\mathring{\mu}$ 02'52		morning rise	-10993 Dec 24 j 02:35	1° $\mathring{\mu}$ 14'59	
evening set	-10998 Nov 10 j 10:05	18° $\mathring{\mu}$ 54'55		retrograde	-10992 Mar 24 j 18:03	3° $\mathring{\mu}$ 13'38	
				opposition	-10992 Jun 12 j 21:27	1° $\mathring{\mu}$ 48'16	-0°29'24
conjunction	-10998 Nov 26 j 06:54	19° $\mathring{\mu}$ 30'21	0°07'06	min. Earth dist.	-10992 Jun 11 j 22:38	1° $\mathring{\mu}$ 49'52	28.91513 AU
minimum elong	-10998 Nov 26 j 06:54	19° $\mathring{\mu}$ 30'21	0°07'15	direct	-10992 Aug 28 j 23:58	0° $\mathring{\mu}$ 25'07	
behind sun begin	-10998 Nov 26 j 00:54	19° $\mathring{\mu}$ 29'48		evening set	-10992 Nov 23 j 12:02	2° $\mathring{\mu}$ 17'33	
behind sun end	-10998 Nov 26 j 12:53	19° $\mathring{\mu}$ 30'53					
max. Earth dist.	-10998 Nov 27 j 08:48	19° $\mathring{\mu}$ 32'46	30.94107 AU	conjunction	-10992 Dec 09 j 12:12	2° $\mathring{\mu}$ 53'13	-0°30'33
morning rise	-10998 Dec 12 j 08:00	20° $\mathring{\mu}$ 06'10		minimum elong	-10992 Dec 09 j 12:12	2° $\mathring{\mu}$ 53'13	0°30'32
retrograde	-10997 Mar 14 j 03:27	22° $\mathring{\mu}$ 04'50		max. Earth dist.	-10992 Dec 10 j 12:52	2° $\mathring{\mu}$ 55'31	30.91272 AU
opposition	-10997 Jun 02 j 12:24	20° $\mathring{\mu}$ 39'22	0°04'06	morning rise	-10992 Dec 25 j 16:14	3° $\mathring{\mu}$ 29'15	
min. Earth dist.	-10997 Jun 01 j 12:30	20° $\mathring{\mu}$ 41'02	28.93790 AU	retrograde	-10991 Mar 27 j 08:27	5° $\mathring{\mu}$ 27'54	
direct	-10997 Aug 18 j 19:04	19° $\mathring{\mu}$ 16'18		min. Earth dist.	-10991 Jun 14 j 09:57	4° $\mathring{\mu}$ 04'09	28.91082 AU
evening set	-10997 Nov 12 j 22:01	21° $\mathring{\mu}$ 08'22		opposition	-10991 Jun 15 j 08:46	4° $\mathring{\mu}$ 02'33	-0°36'01
				direct	-10991 Aug 31 j 11:06	2° $\mathring{\mu}$ 39'22	
conjunction	-10997 Nov 28 j 19:35	21° $\mathring{\mu}$ 43'51	0°00'48	evening set	-10991 Nov 26 j 01:00	4° $\mathring{\mu}$ 31'55	
minimum elong	-10997 Nov 28 j 19:36	21° $\mathring{\mu}$ 43'51	0°00'56				
behind sun begin	-10997 Nov 28 j 13:05	21° $\mathring{\mu}$ 43'16		conjunction	-10991 Dec 12 j 01:37	5° $\mathring{\mu}$ 07'37	-0°36'43
behind sun end	-10997 Nov 29 j 02:07	21° $\mathring{\mu}$ 44'26		minimum elong	-10991 Dec 12 j 01:37	5° $\mathring{\mu}$ 07'37	0°36'42
max. Earth dist.	-10997 Nov 29 j 22:20	21° $\mathring{\mu}$ 46'21	30.93432 AU	max. Earth dist.	-10991 Dec 13 j 01:51	5° $\mathring{\mu}$ 09'52	30.90785 AU
morning rise	-10997 Dec 14 j 21:07	22° $\mathring{\mu}$ 19'43		morning rise	-10991 Dec 28 j 06:01	5° $\mathring{\mu}$ 43'40	
desc. node	-10996 Jan 13 j 03:02	23° $\mathring{\mu}$ 18'38		retrograde	-10990 Mar 29 j 20:42	7° $\mathring{\mu}$ 42'19	
retrograde	-10996 Mar 15 j 15:58	24° $\mathring{\mu}$ 18'21		opposition	-10990 Jun 17 j 20:11	6° $\mathring{\mu}$ 16'58	-0°42'36
opposition	-10996 Jun 03 j 23:42	22° $\mathring{\mu}$ 52'53	-0°02'37	min. Earth dist.	-10990 Jun 16 j 22:59	6° $\mathring{\mu}$ 18'27	28.90552 AU
min. Earth dist.	-10996 Jun 02 j 22:58	22° $\mathring{\mu}$ 54'37	28.93169 AU	direct	-10990 Sep 02 j 21:36	4° $\mathring{\mu}$ 53'44	
direct	-10996 Aug 20 j 07:06	21° $\mathring{\mu}$ 29'47		evening set	-10990 Nov 28 j 13:59	6° $\mathring{\mu}$ 46'22	
evening set	-10996 Nov 14 j 10:12	23° $\mathring{\mu}$ 21'54					
				conjunction	-10990 Dec 14 j 15:09	7° $\mathring{\mu}$ 22'05	-0°42'50
conjunction	-10996 Nov 30 j 08:12	23° $\mathring{\mu}$ 57'25	-0°05'35	minimum elong	-10990 Dec 14 j 15:09	7° $\mathring{\mu}$ 22'05	0°42'52
minimum elong	-10996 Nov 30 j 08:11	23° $\mathring{\mu}$ 57'25	0°05'29	max. Earth dist.	-10990 Dec 15 j 14:43	7° $\mathring{\mu}$ 24'18	30.90211 AU
behind sun begin	-10996 Nov 30 j 01:53	23° $\mathring{\mu}$ 56'51		morning rise	-10990 Dec 30 j 19:56	7° $\mathring{\mu}$ 58'10	
behind sun end	-10996 Nov 30 j 14:29	23° $\mathring{\mu}$ 57'58		retrograde	-10989 Apr 01 j 11:30	9° $\mathring{\mu}$ 56'47	
max. Earth dist.	-10996 Dec 01 j 09:54	23° $\mathring{\mu}$ 59'49	30.92873 AU	min. Earth dist.	-10989 Jun 19 j 10:01	8° $\mathring{\mu}$ 32'56	28.89923 AU
morning rise	-10996 Dec 16 j 10:25	24° $\mathring{\mu}$ 33'19		opposition	-10989 Jun 20 j 07:26	8° $\mathring{\mu}$ 31'25	-0°49'06
retrograde	-10995 Mar 18 j 04:38	26° $\mathring{\mu}$ 31'57		direct	-10989 Sep 05 j 10:40	7° $\mathring{\mu}$ 08'08	
min. Earth dist.	-10995 Jun 05 j 11:16	25° $\mathring{\mu}$ 08'09	28.92671 AU	evening set	-10989 Dec 01 j 03:15	9° $\mathring{\mu}$ 00'50	
opposition	-10995 Jun 06 j 11:16	25° $\mathring{\mu}$ 06'29	-0°09'20				
direct	-10995 Aug 22 j 16:36	23° $\mathring{\mu}$ 43'22		conjunction	-10989 Dec 17 j 04:44	9° $\mathring{\mu}$ 36'35	-0°48'53
evening set	-10995 Nov 16 j 22:10	25° $\mathring{\mu}$ 35'32		minimum elong	-10989 Dec 17 j 04:43	9° $\mathring{\mu}$ 36'35	0°48'55

Attention, astronomical year style is used: The year -10989 in astronomical counting style is the year 10990 BCE in historical counting style.

max. Earth dist.	-10989 Dec 18 j 02:58	9° <u>♁</u> 38'40	30.89530 AU	conjunction	-10981 Jan 02 j 04:45	25° <u>♁</u> 17'01	-1°28'37
morning rise	-10988 Jan 02 j 09:56	10° <u>♁</u> 12'41		minimum elong	-10981 Jan 02 j 04:44	25° <u>♁</u> 17'01	1°28'51
retrograde	-10988 Apr 03 j 00:57	12° <u>♁</u> 11'15		max. Earth dist.	-10981 Jan 03 j 00:00	25° <u>♁</u> 18'49	30.86269 AU
opposition	-10988 Jun 21 j 18:39	10° <u>♁</u> 45'52	-0°55'32	morning rise	-10981 Jan 18 j 11:25	25° <u>♁</u> 53'11	
min. Earth dist.	-10988 Jun 20 j 22:55	10° <u>♁</u> 47'15	28.89221 AU	retrograde	-10981 Apr 19 j 15:13	27° <u>♁</u> 51'21	
direct	-10988 Sep 06 j 22:13	9° <u>♁</u> 22'29		opposition	-10981 Jul 07 j 22:59	26° <u>♁</u> 26'02	-1°37'38
evening set	-10988 Dec 02 j 16:22	11° <u>♁</u> 15'15		min. Earth dist.	-10981 Jul 07 j 06:36	26° <u>♁</u> 27'12	28.86344 AU
				direct	-10981 Sep 23 j 02:40	25° <u>♁</u> 02'13	
				evening set	-10981 Dec 19 j 14:48	26° <u>♁</u> 55'42	
conjunction	-10988 Dec 18 j 18:24	11° <u>♁</u> 51'02	-0°54'51				
minimum elong	-10988 Dec 18 j 18:23	11° <u>♁</u> 51'02	0°54'56				
max. Earth dist.	-10988 Dec 19 j 16:46	11° <u>♁</u> 53'08	30.88813 AU	conjunction	-10980 Jan 04 j 18:53	27° <u>♁</u> 31'36	-1°33'50
morning rise	-10987 Jan 03 j 23:46	12° <u>♁</u> 27'09		minimum elong	-10980 Jan 04 j 18:52	27° <u>♁</u> 31'35	1°34'04
retrograde	-10987 Apr 05 j 13:42	14° <u>♁</u> 25'38		max. Earth dist.	-10980 Jan 05 j 13:26	27° <u>♁</u> 33'19	30.86254 AU
min. Earth dist.	-10987 Jun 23 j 09:36	13° <u>♁</u> 01'39	28.88503 AU	morning rise	-10980 Jan 21 j 01:38	28° <u>♁</u> 07'46	
opposition	-10987 Jun 24 j 05:40	13° <u>♁</u> 00'14	-1°01'52		-10980 Apr 02 j 09:23	0° <u>♁</u>	
direct	-10987 Sep 09 j 11:05	11° <u>♁</u> 36'46		retrograde	-10980 Apr 21 j 05:05	0° <u>♁</u> 05'53	
evening set	-10987 Dec 05 j 05:31	13° <u>♁</u> 29'36			-10980 May 10 j 03:59	30° <u>♁</u>	
				opposition	-10980 Jul 09 j 09:37	28° <u>♁</u> 40'38	-1°43'08
conjunction	-10987 Dec 21 j 07:45	14° <u>♁</u> 05'24	-1°00'44	min. Earth dist.	-10980 Jul 08 j 17:04	28° <u>♁</u> 41'48	28.86353 AU
minimum elong	-10987 Dec 21 j 07:45	14° <u>♁</u> 05'24	1°00'50	direct	-10980 Sep 24 j 15:44	27° <u>♁</u> 16'47	
max. Earth dist.	-10987 Dec 22 j 04:41	14° <u>♁</u> 07'22	30.88108 AU	evening set	-10980 Dec 21 j 04:54	29° <u>♁</u> 10'24	
morning rise	-10986 Jan 06 j 13:35	14° <u>♁</u> 41'33					
retrograde	-10986 Apr 08 j 02:41	16° <u>♁</u> 39'58		conjunction	-10979 Jan 06 j 09:05	29° <u>♁</u> 46'19	-1°38'55
opposition	-10986 Jun 26 j 16:46	15° <u>♁</u> 14'32	-1°08'07	minimum elong	-10979 Jan 06 j 09:04	29° <u>♁</u> 46'19	1°39'11
min. Earth dist.	-10986 Jun 25 j 21:51	15° <u>♁</u> 15'52	28.87840 AU	max. Earth dist.	-10979 Jan 07 j 02:20	29° <u>♁</u> 47'55	30.86256 AU
direct	-10986 Sep 11 j 21:30	13° <u>♁</u> 50'59			-10979 Jan 12 j 11:52	0° <u>♁</u>	
evening set	-10986 Dec 07 j 18:47	15° <u>♁</u> 43'53		morning rise	-10979 Jan 22 j 15:56	0° <u>♁</u> 22'29	
				retrograde	-10979 Apr 23 j 17:55	2° <u>♁</u> 20'34	
conjunction	-10986 Dec 23 j 21:33	16° <u>♁</u> 19'43	-1°06'32	opposition	-10979 Jul 11 j 20:32	0° <u>♁</u> 55'22	-1°48'28
minimum elong	-10986 Dec 23 j 21:32	16° <u>♁</u> 19'43	1°06'40	min. Earth dist.	-10979 Jul 11 j 05:47	0° <u>♁</u> 56'25	28.86364 AU
max. Earth dist.	-10986 Dec 24 j 19:11	16° <u>♁</u> 21'44	30.87479 AU		-10979 Aug 16 j 07:43	30° <u>♁</u>	
morning rise	-10985 Jan 09 j 03:27	16° <u>♁</u> 55'52		direct	-10979 Sep 27 j 02:57	29° <u>♁</u> 31'29	
retrograde	-10985 Apr 10 j 15:00	18° <u>♁</u> 54'13			-10979 Nov 07 j 07:19	0° <u>♁</u>	
min. Earth dist.	-10985 Jun 28 j 08:48	17° <u>♁</u> 30'06	28.87267 AU	evening set	-10979 Dec 23 j 18:52	1° <u>♁</u> 25'14	
opposition	-10985 Jun 29 j 03:35	17° <u>♁</u> 28'46	-1°14'15				
direct	-10985 Sep 14 j 09:12	16° <u>♁</u> 05'09		conjunction	-10978 Jan 08 j 23:23	2° <u>♁</u> 01'09	-1°43'51
evening set	-10985 Dec 10 j 08:17	17° <u>♁</u> 58'08		minimum elong	-10978 Jan 08 j 23:22	2° <u>♁</u> 01'09	1°44'07
				max. Earth dist.	-10978 Jan 09 j 16:18	2° <u>♁</u> 02'44	30.86240 AU
conjunction	-10985 Dec 26 j 11:14	18° <u>♁</u> 33'59	-1°12'13	morning rise	-10978 Jan 25 j 06:12	2° <u>♁</u> 37'19	
minimum elong	-10985 Dec 26 j 11:13	18° <u>♁</u> 33'59	1°12'21	retrograde	-10978 Apr 26 j 07:30	4° <u>♁</u> 35'20	
max. Earth dist.	-10985 Dec 27 j 07:18	18° <u>♁</u> 35'51	30.86967 AU	opposition	-10978 Jul 14 j 07:19	3° <u>♁</u> 10'12	-1°53'40
morning rise	-10984 Jan 11 j 17:31	19° <u>♁</u> 10'08		min. Earth dist.	-10978 Jul 13 j 16:41	3° <u>♁</u> 11'14	28.86314 AU
retrograde	-10984 Apr 12 j 03:42	21° <u>♁</u> 08'26		direct	-10978 Sep 29 j 16:01	1° <u>♁</u> 46'16	
opposition	-10984 Jun 30 j 14:30	19° <u>♁</u> 43'00	-1°20'17	evening set	-10978 Dec 26 j 09:18	3° <u>♁</u> 40'08	
min. Earth dist.	-10984 Jun 29 j 20:06	19° <u>♁</u> 44'18	28.86837 AU				
direct	-10984 Sep 15 j 19:10	18° <u>♁</u> 19'18		conjunction	-10977 Jan 11 j 13:50	4° <u>♁</u> 16'04	-1°48'37
evening set	-10984 Dec 11 j 21:38	20° <u>♁</u> 12'24		minimum elong	-10977 Jan 11 j 13:49	4° <u>♁</u> 16'04	1°48'55
				max. Earth dist.	-10977 Jan 12 j 04:34	4° <u>♁</u> 17'26	30.86139 AU
conjunction	-10984 Dec 28 j 00:57	20° <u>♁</u> 48'15	-1°17'49	morning rise	-10977 Jan 27 j 20:49	4° <u>♁</u> 52'14	
minimum elong	-10984 Dec 28 j 00:57	20° <u>♁</u> 48'15	1°17'59	retrograde	-10977 Apr 28 j 21:19	6° <u>♁</u> 50'10	
max. Earth dist.	-10984 Dec 28 j 21:34	20° <u>♁</u> 50'11	30.86591 AU	opposition	-10977 Jul 16 j 18:07	5° <u>♁</u> 25'03	-1°58'40
morning rise	-10983 Jan 13 j 07:15	21° <u>♁</u> 24'25		min. Earth dist.	-10977 Jul 16 j 05:12	5° <u>♁</u> 25'58	28.86183 AU
retrograde	-10983 Apr 14 j 14:00	23° <u>♁</u> 22'40		direct	-10977 Oct 02 j 03:11	4° <u>♁</u> 01'03	
min. Earth dist.	-10983 Jul 02 j 07:38	21° <u>♁</u> 58'31	28.86540 AU	evening set	-10977 Dec 28 j 23:39	5° <u>♁</u> 55'02	
opposition	-10983 Jul 03 j 01:22	21° <u>♁</u> 57'15	-1°26'12				
direct	-10983 Sep 18 j 06:20	20° <u>♁</u> 33'31		conjunction	-10976 Jan 14 j 04:30	6° <u>♁</u> 30'58	-1°53'13
evening set	-10983 Dec 14 j 11:12	22° <u>♁</u> 26'43		minimum elong	-10976 Jan 14 j 04:29	6° <u>♁</u> 30'58	1°53'31
				max. Earth dist.	-10976 Jan 14 j 19:10	6° <u>♁</u> 32'21	30.85955 AU
conjunction	-10983 Dec 30 j 14:45	23° <u>♁</u> 02'35	-1°23'17	morning rise	-10976 Jan 30 j 11:18	7° <u>♁</u> 07'07	
minimum elong	-10983 Dec 30 j 14:44	23° <u>♁</u> 02'35	1°23'27	retrograde	-10976 Apr 30 j 10:05	9° <u>♁</u> 04'58	
max. Earth dist.	-10983 Dec 31 j 10:10	23° <u>♁</u> 04'24	30.86372 AU	opposition	-10976 Jul 18 j 04:53	7° <u>♁</u> 39'52	-2°03'30
morning rise	-10982 Jan 15 j 21:18	23° <u>♁</u> 38'45		min. Earth dist.	-10976 Jul 17 j 16:41	7° <u>♁</u> 40'44	28.85962 AU
retrograde	-10982 Apr 17 j 03:43	25° <u>♁</u> 36'57		direct	-10976 Oct 03 j 16:12	6° <u>♁</u> 15'48	
opposition	-10982 Jul 05 j 12:06	24° <u>♁</u> 11'35	-1°31'59	evening set	-10976 Dec 30 j 13:59	8° <u>♁</u> 09'52	
min. Earth dist.	-10982 Jul 04 j 18:10	24° <u>♁</u> 12'51	28.86394 AU				
direct	-10982 Sep 20 j 16:46	22° <u>♁</u> 47'48		conjunction	-10975 Jan 15 j 18:47	8° <u>♁</u> 45'49	-1°57'39
evening set	-10982 Dec 17 j 00:54	24° <u>♁</u> 41'08		minimum elong	-10975 Jan 15 j 18:46	8° <u>♁</u> 45'48	1°58'00

Attention, astronomical year style is used: The year -10975 in astronomical counting style is the year 10976 BCE in historical counting style.

max. Earth dist.	-10975 Jan 16 j 07:17	8° M 46'59	30.85706 AU	min. Earth dist.	-10969 Aug 02 j 23:03	23° M 22'26	28.85902 AU
morning rise	-10975 Feb 01 j 01:44	9° M 21'57		direct	-10969 Oct 20 j 01:22	21° M 57'21	
retrograde	-10975 May 02 j 22:38	11° M 19'42		evening set	-10968 Jan 16 j 19:12	23° M 52'20	
opposition	-10975 Jul 20 j 15:35	9° M 54'36	-2°08'09				
min. Earth dist.	-10975 Jul 20 j 04:16	9° M 55'25	28.85712 AU	conjunction	-10968 Feb 02 j 00:24	24° M 28'16	-2°23'18
direct	-10975 Oct 06 j 03:19	8° M 30'26		minimum elong	-10968 Feb 02 j 00:23	24° M 28'15	2°23'45
evening set	-10974 Jan 02 j 04:17	10° M 24'37		max. Earth dist.	-10968 Feb 02 j 07:05	24° M 28'53	30.85932 AU
				morning rise	-10968 Feb 18 j 06:38	25° M 04'18	
conjunction	-10974 Jan 18 j 09:20	11° M 00'33	-2°01'54	retrograde	-10968 May 18 j 12:23	27° M 01'24	
minimum elong	-10974 Jan 18 j 09:19	11° M 00'33	2°02'15	opposition	-10968 Aug 04 j 16:59	25° M 36'42	-2°34'48
max. Earth dist.	-10974 Jan 18 j 21:52	11° M 01'43	30.85441 AU	min. Earth dist.	-10968 Aug 04 j 11:03	25° M 37'07	28.86356 AU
morning rise	-10974 Feb 03 j 16:06	11° M 36'41		direct	-10968 Oct 21 j 12:46	24° M 12'08	
retrograde	-10974 May 05 j 09:18	13° M 34'18		evening set	-10967 Jan 18 j 09:42	26° M 07'16	
opposition	-10974 Jul 23 j 02:07	12° M 09'14	-2°12'35				
min. Earth dist.	-10974 Jul 22 j 16:00	12° M 09'57	28.85467 AU	conjunction	-10967 Feb 03 j 15:02	26° M 43'12	-2°26'08
direct	-10974 Oct 08 j 15:03	10° M 44'58		minimum elong	-10967 Feb 03 j 15:01	26° M 43'12	2°26'37
evening set	-10973 Jan 04 j 18:45	12° M 39'15		max. Earth dist.	-10967 Feb 03 j 21:51	26° M 43'50	30.86401 AU
				morning rise	-10967 Feb 19 j 20:56	27° M 19'13	
conjunction	-10973 Jan 20 j 23:49	13° M 15'11	-2°05'58	retrograde	-10967 May 21 j 01:18	29° M 16'15	
minimum elong	-10973 Jan 20 j 23:48	13° M 15'11	2°06'21	opposition	-10967 Aug 07 j 03:27	27° M 51'39	-2°37'43
max. Earth dist.	-10973 Jan 21 j 10:36	13° M 16'12	30.85226 AU	min. Earth dist.	-10967 Aug 06 j 22:16	27° M 52'01	28.86833 AU
morning rise	-10973 Feb 06 j 06:39	13° M 51'18		direct	-10967 Oct 24 j 02:12	26° M 27'05	
	-10973 Mar 13 j 09:24	15° M		evening set	-10966 Jan 21 j 00:37	28° M 22'23	
retrograde	-10973 May 07 j 22:39	15° M 48'49					
	-10973 Jul 03 j 15:00	15° R M		conjunction	-10966 Feb 06 j 05:46	28° M 58'18	-2°28'45
opposition	-10973 Jul 25 j 12:37	14° M 23'46	-2°16'50	minimum elong	-10966 Feb 06 j 05:46	28° M 58'18	2°29'14
min. Earth dist.	-10973 Jul 25 j 02:35	14° M 24'29	28.85299 AU	max. Earth dist.	-10966 Feb 06 j 10:15	28° M 58'43	30.86868 AU
direct	-10973 Oct 11 j 02:06	12° M 59'24		morning rise	-10966 Feb 22 j 11:40	29° M 34'18	
evening set	-10972 Jan 07 j 09:10	14° M 53'49			-10966 Mar 06 j 14:21	0° X	
	-10972 Jan 10 j 05:05	15° M		retrograde	-10966 May 23 j 14:22	1° X 31'15	
conjunction	-10972 Jan 23 j 14:18	15° M 29'45	-2°09'50	opposition	-10966 Aug 09 j 13:54	0° X 06'45	-2°40'23
minimum elong	-10972 Jan 23 j 14:17	15° M 29'45	2°10'14	min. Earth dist.	-10966 Aug 09 j 09:49	0° X 07'02	28.87291 AU
max. Earth dist.	-10972 Jan 24 j 00:50	15° M 30'44	30.85086 AU		-10966 Aug 13 j 12:49	30° R M	
morning rise	-10972 Feb 08 j 20:56	16° M 05'51		direct	-10966 Oct 26 j 13:33	28° M 42'08	
retrograde	-10972 May 09 j 08:55	18° M 03'16			-10965 Jan 05 j 13:57	0° X	
opposition	-10972 Jul 26 j 23:08	16° M 38'15	-2°20'52	evening set	-10965 Jan 23 j 15:32	0° X 37'35	
min. Earth dist.	-10972 Jul 26 j 14:39	16° M 38'52	28.85234 AU	conjunction	-10965 Feb 08 j 20:49	1° X 13'31	-2°31'08
direct	-10972 Oct 12 j 12:20	15° M 13'49		minimum elong	-10965 Feb 08 j 20:49	1° X 13'31	2°31'38
evening set	-10971 Jan 08 j 23:32	17° M 08'21		max. Earth dist.	-10965 Feb 09 j 00:58	1° X 13'54	30.87272 AU
				morning rise	-10965 Feb 25 j 02:21	1° X 49'30	
conjunction	-10971 Jan 25 j 04:45	17° M 44'17	-2°13'31	retrograde	-10965 May 26 j 02:14	3° X 46'20	
minimum elong	-10971 Jan 25 j 04:44	17° M 44'16	2°13'56	opposition	-10965 Aug 12 j 00:33	2° X 21'55	-2°42'48
max. Earth dist.	-10971 Jan 25 j 14:27	17° M 45'11	30.85091 AU	min. Earth dist.	-10965 Aug 11 j 22:02	2° X 22'06	28.87652 AU
morning rise	-10971 Feb 10 j 11:19	18° M 20'21		direct	-10965 Oct 29 j 01:53	0° X 57'16	
retrograde	-10971 May 11 j 21:39	20° M 17'42		evening set	-10964 Jan 26 j 06:32	2° X 52'50	
opposition	-10971 Jul 29 j 09:33	18° M 52'44	-2°24'41				
min. Earth dist.	-10971 Jul 29 j 00:42	18° M 53'22	28.85318 AU	conjunction	-10964 Feb 11 j 11:38	3° X 28'45	-2°33'17
direct	-10971 Oct 15 j 01:27	17° M 28'14		minimum elong	-10964 Feb 11 j 11:37	3° X 28'45	2°33'48
evening set	-10970 Jan 11 j 13:56	19° M 22'54		max. Earth dist.	-10964 Feb 11 j 13:22	3° X 28'55	30.87582 AU
				morning rise	-10964 Feb 27 j 17:05	4° X 04'42	
conjunction	-10970 Jan 27 j 19:08	19° M 58'50	-2°16'59	retrograde	-10964 May 27 j 15:50	6° X 01'25	
minimum elong	-10970 Jan 27 j 19:07	19° M 58'50	2°17'24	opposition	-10964 Aug 13 j 11:02	4° X 37'04	-2°44'59
max. Earth dist.	-10970 Jan 28 j 03:52	19° M 59'39	30.85236 AU	min. Earth dist.	-10964 Aug 13 j 09:00	4° X 37'13	28.87918 AU
morning rise	-10970 Feb 13 j 01:37	20° M 34'54		direct	-10964 Oct 30 j 13:25	3° X 12'21	
retrograde	-10970 May 14 j 09:25	22° M 32'10		evening set	-10963 Jan 27 j 21:25	5° X 08'01	
opposition	-10970 Jul 31 j 20:07	21° M 07'16	-2°28'17				
min. Earth dist.	-10970 Jul 31 j 12:50	21° M 07'47	28.85548 AU	conjunction	-10963 Feb 13 j 02:34	5° X 43'55	-2°35'12
direct	-10970 Oct 17 j 12:32	19° M 42'44		minimum elong	-10963 Feb 13 j 02:33	5° X 43'55	2°35'45
evening set	-10969 Jan 14 j 04:26	21° M 37'33		max. Earth dist.	-10963 Feb 13 j 03:36	5° X 44'01	30.87792 AU
				morning rise	-10963 Mar 01 j 07:41	6° X 19'52	
conjunction	-10969 Jan 30 j 09:47	22° M 13'29	-2°20'15	retrograde	-10963 May 30 j 01:34	8° X 16'26	
minimum elong	-10969 Jan 30 j 09:46	22° M 13'29	2°20'42	opposition	-10963 Aug 15 j 21:36	6° X 52'07	-2°46'55
max. Earth dist.	-10969 Jan 30 j 18:15	22° M 14'16	30.85532 AU	min. Earth dist.	-10963 Aug 15 j 21:36	6° X 52'07	28.88098 AU
morning rise	-10969 Feb 15 j 16:04	22° M 49'31		direct	-10963 Nov 02 j 00:26	5° X 27'19	
retrograde	-10969 May 16 j 22:34	24° M 46'42		evening set	-10962 Jan 30 j 12:12	7° X 23'04	
opposition	-10969 Aug 03 j 06:25	23° M 21'54	-2°31'40				

Attention, astronomical year style is used: The year -10962 in astronomical counting style is the year 10963 BCE in historical counting style.

conjunction	-10962 Feb 15 j 17:19	7°♂58'58	-2°36'53	direct	-10956 Nov 17 j 16:45	21°♂08'13	
minimum elong	-10962 Feb 15 j 17:18	7°♂58'58	2°37'26	evening set	-10955 Feb 15 j 18:42	23°♂04'39	
max. Earth dist.	-10962 Feb 15 j 16:48	7°♂58'55	30.87950 AU				
morning rise	-10962 Mar 03 j 22:20	8°♂34'53		conjunction	-10955 Mar 03 j 23:12	23°♂40'29	-2°41'55
retrograde	-10962 Jun 01 j 13:20	10°♂31'18		minimum elong	-10955 Mar 03 j 23:12	23°♂40'29	2°42'32
opposition	-10962 Aug 18 j 07:59	9°♂07'01	-2°48'35	max. Earth dist.	-10955 Mar 03 j 15:53	23°♂39'48	30.90677 AU
min. Earth dist.	-10962 Aug 18 j 08:07	9°♂07'01	28.88236 AU	morning rise	-10955 Mar 20 j 02:37	24°♂16'13	
direct	-10962 Nov 04 j 13:52	7°♂42'07		retrograde	-10955 Jun 17 j 01:24	26°♂11'41	
evening set	-10961 Feb 02 j 03:06	9°♂37'57		opposition	-10955 Sep 02 j 08:28	24°♂47'51	-2°53'03
				min. Earth dist.	-10955 Sep 02 j 14:09	24°♂47'27	28.91292 AU
conjunction	-10961 Feb 18 j 08:08	10°♂13'50	-2°38'20	direct	-10955 Nov 20 j 04:30	23°♂22'35	
minimum elong	-10961 Feb 18 j 08:07	10°♂13'50	2°38'54	evening set	-10954 Feb 18 j 09:13	25°♂19'08	
max. Earth dist.	-10961 Feb 18 j 06:24	10°♂13'41	30.88072 AU				
morning rise	-10961 Mar 06 j 12:54	10°♂49'44		conjunction	-10954 Mar 06 j 13:45	25°♂54'58	-2°41'40
retrograde	-10961 Jun 04 j 00:07	12°♂46'00		minimum elong	-10954 Mar 06 j 13:45	25°♂54'58	2°42'16
opposition	-10961 Aug 20 j 18:24	11°♂21'44	-2°50'01	max. Earth dist.	-10954 Mar 06 j 06:07	25°♂54'16	30.91422 AU
min. Earth dist.	-10961 Aug 20 j 20:27	11°♂21'35	28.88379 AU	morning rise	-10954 Mar 22 j 16:48	26°♂30'42	
direct	-10961 Nov 07 j 00:44	9°♂56'43		retrograde	-10954 Jun 19 j 11:35	28°♂26'03	
evening set	-10960 Feb 04 j 17:49	11°♂52'39		opposition	-10954 Sep 04 j 19:00	27°♂02'20	-2°52'38
				min. Earth dist.	-10954 Sep 05 j 02:40	27°♂01'48	28.92029 AU
conjunction	-10960 Feb 20 j 22:51	12°♂28'32	-2°39'33	direct	-10954 Nov 22 j 15:46	25°♂37'04	
minimum elong	-10960 Feb 20 j 22:51	12°♂28'31	2°40'06	evening set	-10953 Feb 20 j 23:56	27°♂33'44	
max. Earth dist.	-10960 Feb 20 j 20:32	12°♂28'19	30.88240 AU				
morning rise	-10960 Mar 08 j 03:22	13°♂04'23		conjunction	-10953 Mar 09 j 04:18	28°♂09'33	-2°41'09
retrograde	-10960 Jun 05 j 11:50	15°♂00'29		minimum elong	-10953 Mar 09 j 04:18	28°♂09'33	2°41'45
opposition	-10960 Aug 22 j 04:46	13°♂36'16	-2°51'10	max. Earth dist.	-10953 Mar 08 j 18:58	28°♂08'41	30.92141 AU
min. Earth dist.	-10960 Aug 22 j 06:45	13°♂36'08	28.88579 AU	morning rise	-10953 Mar 25 j 07:09	28°♂45'16	
direct	-10960 Nov 08 j 14:11	12°♂11'10			-10953 May 03 j 07:39	0°♂	
evening set	-10959 Feb 06 j 08:23	14°♂07'11		retrograde	-10953 Jun 21 j 23:39	0°♂40'29	
					-10953 Aug 11 j 15:15	30°♂	
conjunction	-10959 Feb 22 j 13:13	14°♂43'02	-2°40'31	opposition	-10953 Sep 07 j 05:23	29°♂16'54	-2°51'57
minimum elong	-10959 Feb 22 j 13:13	14°♂43'02	2°41'05	min. Earth dist.	-10953 Sep 07 j 13:14	29°♂16'20	28.92708 AU
max. Earth dist.	-10959 Feb 22 j 09:18	14°♂42'40	30.88480 AU	direct	-10953 Nov 25 j 04:33	27°♂51'35	
morning rise	-10959 Mar 10 j 17:35	15°♂18'52		evening set	-10952 Feb 23 j 14:36	29°♂48'22	
retrograde	-10959 Jun 07 j 23:54	17°♂14'50			-10952 Feb 28 j 21:56	0°♂	
opposition	-10959 Aug 24 j 15:11	15°♂50'39	-2°52'04				
min. Earth dist.	-10959 Aug 24 j 18:27	15°♂50'25	28.88888 AU	conjunction	-10952 Mar 10 j 18:51	0°♂24'11	-2°40'24
direct	-10959 Nov 11 j 02:18	14°♂25'29		minimum elong	-10952 Mar 10 j 18:51	0°♂24'11	2°41'00
evening set	-10958 Feb 08 j 22:55	16°♂21'35		max. Earth dist.	-10952 Mar 10 j 08:21	0°♂23'13	30.92770 AU
				morning rise	-10952 Mar 26 j 21:23	0°♂59'52	
conjunction	-10958 Feb 25 j 03:51	16°♂57'26	-2°41'14	retrograde	-10952 Jun 23 j 10:31	2°♂54'59	
minimum elong	-10958 Feb 25 j 03:50	16°♂57'26	2°41'48	opposition	-10952 Sep 08 j 16:03	1°♂31'28	-2°51'01
max. Earth dist.	-10958 Feb 25 j 00:06	16°♂57'05	30.88846 AU	min. Earth dist.	-10952 Sep 09 j 01:53	1°♂30'46	28.93298 AU
morning rise	-10958 Mar 13 j 07:51	17°♂33'14		direct	-10952 Nov 26 j 14:48	0°♂06'08	
retrograde	-10958 Jun 10 j 11:31	19°♂29'03		evening set	-10951 Feb 25 j 04:59	2°♂02'59	
opposition	-10958 Aug 27 j 01:26	18°♂04'56	-2°52'43				
min. Earth dist.	-10958 Aug 27 j 05:11	18°♂04'40	28.89313 AU	conjunction	-10951 Mar 13 j 09:11	2°♂38'47	-2°39'24
direct	-10958 Nov 13 j 16:14	16°♂39'42		minimum elong	-10951 Mar 13 j 09:11	2°♂38'47	2°40'00
evening set	-10957 Feb 11 j 13:38	18°♂35'55		max. Earth dist.	-10951 Mar 12 j 21:42	2°♂37'43	30.93316 AU
				morning rise	-10951 Mar 29 j 11:29	3°♂14'27	
conjunction	-10957 Feb 27 j 18:20	19°♂11'45	-2°41'43	retrograde	-10951 Jun 25 j 21:33	5°♂09'25	
minimum elong	-10957 Feb 27 j 18:19	19°♂11'45	2°42'18	opposition	-10951 Sep 11 j 02:32	3°♂45'58	-2°49'50
max. Earth dist.	-10957 Feb 27 j 12:39	19°♂11'14	30.89341 AU	min. Earth dist.	-10951 Sep 11 j 12:37	3°♂45'15	28.93784 AU
morning rise	-10957 Mar 15 j 22:15	19°♂47'32		direct	-10951 Nov 29 j 04:25	2°♂20'35	
retrograde	-10957 Jun 13 j 00:23	21°♂43'14		evening set	-10950 Feb 27 j 19:32	4°♂17'30	
opposition	-10957 Aug 29 j 11:48	20°♂19'11	-2°53'05				
min. Earth dist.	-10957 Aug 29 j 16:10	20°♂18'53	28.89881 AU	conjunction	-10950 Mar 15 j 23:32	4°♂53'18	-2°38'10
direct	-10957 Nov 16 j 03:52	18°♂53'55		minimum elong	-10950 Mar 15 j 23:32	4°♂53'18	2°38'47
evening set	-10956 Feb 14 j 04:05	20°♂50'15		max. Earth dist.	-10950 Mar 15 j 10:09	4°♂52'03	30.93764 AU
				morning rise	-10950 Apr 01 j 01:39	5°♂28'56	
conjunction	-10956 Mar 01 j 08:49	21°♂26'05	-2°41'56	retrograde	-10950 Jun 28 j 08:52	7°♂23'45	
minimum elong	-10956 Mar 01 j 08:49	21°♂26'05	2°42'32	opposition	-10950 Sep 13 j 12:56	6°♂00'21	-2°48'23
max. Earth dist.	-10956 Mar 01 j 03:27	21°♂25'35	30.89960 AU	min. Earth dist.	-10950 Sep 14 j 00:38	5°♂59'31	28.94206 AU
morning rise	-10956 Mar 17 j 12:18	22°♂01'50		direct	-10950 Dec 01 j 16:37	4°♂34'53	
retrograde	-10956 Jun 14 j 12:04	23°♂57'25		evening set	-10949 Mar 02 j 09:53	6°♂31'52	
opposition	-10956 Aug 30 j 22:14	22°♂33'29	-2°53'12				
min. Earth dist.	-10956 Aug 31 j 03:44	22°♂33'05	28.90547 AU	conjunction	-10949 Mar 18 j 13:55	7°♂07'39	-2°36'42

Attention, astronomical year style is used: The year -10949 in astronomical counting style is the year 10950 BCE in historical counting style.

minimum elong	-10949 Mar 18 j 13:55	7° $\overline{3}$ 07'39	2°37'19	evening set	-10942 Mar 18 j 11:07	22° $\overline{3}$ 08'08	
max. Earth dist.	-10949 Mar 18 j 00:21	7° $\overline{3}$ 06'23	30.94168 AU				
morning rise	-10949 Apr 03 j 15:39	7° $\overline{3}$ 43'16		conjunction	-10942 Apr 03 j 14:06	22° $\overline{3}$ 43'50	-2°20'04
retrograde	-10949 Jun 30 j 19:45	9° $\overline{3}$ 37'55		minimum elong	-10942 Apr 03 j 14:07	22° $\overline{3}$ 43'50	2°20'39
opposition	-10949 Sep 15 j 23:25	8° $\overline{3}$ 14'33	-2°46'42	max. Earth dist.	-10942 Apr 02 j 19:41	22° $\overline{3}$ 42'07	30.98968 AU
min. Earth dist.	-10949 Sep 16 j 11:50	8° $\overline{3}$ 13'40	28.94587 AU	morning rise	-10942 Apr 19 j 14:03	23° $\overline{3}$ 19'18	
direct	-10949 Dec 04 j 06:51	6° $\overline{3}$ 49'02		retrograde	-10942 Jul 16 j 01:48	25° $\overline{3}$ 12'57	
evening set	-10948 Mar 04 j 00:06	8° $\overline{3}$ 46'03		opposition	-10942 Oct 01 j 00:25	23° $\overline{3}$ 50'05	-2°28'05
				min. Earth dist.	-10942 Oct 01 j 16:41	23° $\overline{3}$ 48'56	28.99661 AU
conjunction	-10948 Mar 20 j 03:50	9° $\overline{3}$ 21'49	-2°35'00	direct	-10942 Dec 19 j 21:59	22° $\overline{3}$ 24'23	
minimum elong	-10948 Mar 20 j 03:50	9° $\overline{3}$ 21'49	2°35'37	evening set	-10941 Mar 21 j 00:55	24° $\overline{3}$ 21'43	
max. Earth dist.	-10948 Mar 19 j 12:23	9° $\overline{3}$ 20'22	30.94561 AU	max. Earth dist.	-10941 Apr 05 j 07:52	24° $\overline{3}$ 55'34	30.99974 AU
morning rise	-10948 Apr 05 j 05:26	9° $\overline{3}$ 57'24					
retrograde	-10948 Jul 02 j 08:00	11° $\overline{3}$ 51'54		conjunction	-10941 Apr 06 j 03:39	24° $\overline{3}$ 57'25	-2°16'49
opposition	-10948 Sep 17 j 09:50	10° $\overline{3}$ 28'34	-2°44'45	minimum elong	-10941 Apr 06 j 03:40	24° $\overline{3}$ 57'25	2°17'23
min. Earth dist.	-10948 Sep 17 j 22:51	10° $\overline{3}$ 27'39	28.95005 AU	morning rise	-10941 Apr 22 j 03:20	25° $\overline{3}$ 32'51	
direct	-10948 Dec 05 j 18:45	9° $\overline{3}$ 02'58		retrograde	-10941 Jul 18 j 12:36	27° $\overline{3}$ 26'24	
evening set	-10947 Mar 06 j 14:05	11° $\overline{3}$ 00'01		opposition	-10941 Oct 03 j 11:08	26° $\overline{3}$ 03'37	-2°24'30
				min. Earth dist.	-10941 Oct 04 j 04:42	26° $\overline{3}$ 02'23	29.00653 AU
conjunction	-10947 Mar 22 j 17:51	11° $\overline{3}$ 35'47	-2°33'04	direct	-10941 Dec 22 j 08:54	24° $\overline{3}$ 37'56	
minimum elong	-10947 Mar 22 j 17:52	11° $\overline{3}$ 35'47	2°33'41	evening set	-10940 Mar 22 j 14:24	26° $\overline{3}$ 35'18	
max. Earth dist.	-10947 Mar 22 j 02:50	11° $\overline{3}$ 34'23	30.95008 AU				
morning rise	-10947 Apr 07 j 19:03	12° $\overline{3}$ 11'20		conjunction	-10940 Apr 07 j 17:03	27° $\overline{3}$ 10'59	-2°13'22
retrograde	-10947 Jul 04 j 19:17	14° $\overline{3}$ 05'40		minimum elong	-10940 Apr 07 j 17:03	27° $\overline{3}$ 10'59	2°13'55
opposition	-10947 Sep 19 j 20:12	12° $\overline{3}$ 42'23	-2°42'34	max. Earth dist.	-10940 Apr 06 j 21:14	27° $\overline{3}$ 09'09	31.00938 AU
min. Earth dist.	-10947 Sep 20 j 10:18	12° $\overline{3}$ 41'23	28.95487 AU	morning rise	-10940 Apr 23 j 16:20	27° $\overline{3}$ 46'24	
direct	-10947 Dec 08 j 09:00	11° $\overline{3}$ 16'44		retrograde	-10940 Jul 19 j 23:03	29° $\overline{3}$ 39'50	
evening set	-10946 Mar 09 j 04:07	13° $\overline{3}$ 13'49		opposition	-10940 Oct 04 j 21:52	28° $\overline{3}$ 17'08	-2°20'42
				min. Earth dist.	-10940 Oct 05 j 16:07	28° $\overline{3}$ 15'51	29.01561 AU
conjunction	-10946 Mar 25 j 07:37	13° $\overline{3}$ 49'34	-2°30'55	direct	-10940 Dec 23 j 22:06	26° $\overline{3}$ 51'28	
minimum elong	-10946 Mar 25 j 07:37	13° $\overline{3}$ 49'34	2°31'31	evening set	-10939 Mar 25 j 04:04	28° $\overline{3}$ 48'51	
max. Earth dist.	-10946 Mar 24 j 14:50	13° $\overline{3}$ 48'00	30.95554 AU	max. Earth dist.	-10939 Apr 09 j 08:38	29° $\overline{3}$ 22'30	31.01807 AU
morning rise	-10946 Apr 10 j 08:44	14° $\overline{3}$ 25'06					
retrograde	-10946 Jul 07 j 07:38	16° $\overline{3}$ 19'17		conjunction	-10939 Apr 10 j 06:22	29° $\overline{3}$ 24'31	-2°09'42
opposition	-10946 Sep 22 j 06:34	14° $\overline{3}$ 56'02	-2°40'09	minimum elong	-10939 Apr 10 j 06:23	29° $\overline{3}$ 24'31	2°10'15
min. Earth dist.	-10946 Sep 22 j 20:25	14° $\overline{3}$ 55'03	28.96089 AU	morning rise	-10939 Apr 26 j 05:30	29° $\overline{3}$ 59'55	
direct	-10946 Dec 10 j 22:03	13° $\overline{3}$ 30'20			-10939 Apr 26 j 06:22	0° \approx	
evening set	-10945 Mar 11 j 17:58	15° $\overline{3}$ 27'29		retrograde	-10939 Jul 22 j 11:01	1° \approx 53'14	
				opposition	-10939 Oct 07 j 08:28	0° \approx 30'35	-2°16'41
conjunction	-10945 Mar 27 j 21:26	16° $\overline{3}$ 03'13	-2°28'32	min. Earth dist.	-10939 Oct 08 j 03:24	0° \approx 29'16	29.02381 AU
minimum elong	-10945 Mar 27 j 21:27	16° $\overline{3}$ 03'13	2°29'08		-10939 Oct 25 j 21:21	30° \overline{R} $\overline{3}$	
max. Earth dist.	-10945 Mar 27 j 04:55	16° $\overline{3}$ 01'40	30.96216 AU	direct	-10939 Dec 26 j 09:55	29° $\overline{3}$ 04'54	
morning rise	-10945 Apr 12 j 22:06	16° $\overline{3}$ 38'43			-10938 Feb 24 j 06:54	0° \approx	
retrograde	-10945 Jul 09 j 17:22	18° $\overline{3}$ 32'45		evening set	-10938 Mar 27 j 17:31	1° \approx 02'18	
opposition	-10945 Sep 24 j 17:04	17° $\overline{3}$ 09'35	-2°37'29				
min. Earth dist.	-10945 Sep 25 j 08:21	17° $\overline{3}$ 08'30	28.96817 AU	conjunction	-10938 Apr 12 j 19:49	1° \approx 37'58	-2°05'52
direct	-10945 Dec 13 j 10:04	15° $\overline{3}$ 43'52		minimum elong	-10938 Apr 12 j 19:50	1° \approx 37'58	2°06'25
evening set	-10944 Mar 13 j 07:48	17° $\overline{3}$ 41'02		max. Earth dist.	-10938 Apr 11 j 22:16	1° \approx 35'57	31.02579 AU
				morning rise	-10938 Apr 28 j 18:30	2° \approx 13'20	
conjunction	-10944 Mar 29 j 11:02	18° $\overline{3}$ 16'46	-2°25'56	retrograde	-10938 Jul 24 j 21:46	4° \approx 06'30	
minimum elong	-10944 Mar 29 j 11:03	18° $\overline{3}$ 16'46	2°26'32	opposition	-10938 Oct 09 j 19:17	2° \approx 43'55	-2°12'29
max. Earth dist.	-10944 Mar 28 j 17:25	18° $\overline{3}$ 15'08	30.97031 AU	min. Earth dist.	-10938 Oct 10 j 15:31	2° \approx 42'30	29.03091 AU
morning rise	-10944 Apr 14 j 11:33	18° $\overline{3}$ 52'16		direct	-10938 Dec 29 j 00:21	1° \approx 18'12	
retrograde	-10944 Jul 11 j 05:17	20° $\overline{3}$ 46'09		evening set	-10937 Mar 30 j 06:59	3° \approx 15'36	
opposition	-10944 Sep 26 j 03:29	19° $\overline{3}$ 23'04	-2°34'35	max. Earth dist.	-10937 Apr 14 j 09:28	3° \approx 49'04	31.03263 AU
min. Earth dist.	-10944 Sep 26 j 18:15	19° $\overline{3}$ 22'01	28.97686 AU				
direct	-10944 Dec 14 j 22:37	17° $\overline{3}$ 57'21		conjunction	-10937 Apr 15 j 08:53	3° \approx 51'15	-2°01'51
evening set	-10943 Mar 15 j 21:24	19° $\overline{3}$ 54'34		minimum elong	-10937 Apr 15 j 08:54	3° \approx 51'15	2°02'22
max. Earth dist.	-10943 Mar 31 j 06:40	20° $\overline{3}$ 28'38	30.97959 AU	morning rise	-10937 May 01 j 07:26	4° \approx 26'35	
				retrograde	-10937 Jul 27 j 09:46	6° \approx 19'38	
conjunction	-10943 Apr 01 j 00:32	20° $\overline{3}$ 30'18	-2°23'06	opposition	-10937 Oct 12 j 05:58	4° \approx 57'05	-2°08'06
minimum elong	-10943 Apr 01 j 00:33	20° $\overline{3}$ 30'18	2°23'41	min. Earth dist.	-10937 Oct 13 j 02:03	4° \approx 55'40	29.03739 AU
morning rise	-10943 Apr 17 j 00:44	21° $\overline{3}$ 05'46		direct	-10937 Dec 31 j 13:43	3° \approx 31'20	
retrograde	-10943 Jul 13 j 15:43	22° $\overline{3}$ 59'33		evening set	-10936 Mar 31 j 20:10	5° \approx 28'44	
opposition	-10943 Sep 28 j 14:01	21° $\overline{3}$ 36'34	-2°31'27				
min. Earth dist.	-10943 Sep 29 j 06:20	21° $\overline{3}$ 35'24	28.98656 AU	conjunction	-10936 Apr 16 j 22:00	6° \approx 04'21	-1°57'39
direct	-10943 Dec 17 j 08:36	20° $\overline{3}$ 10'51		minimum elong	-10936 Apr 16 j 22:00	6° \approx 04'21	1°58'11

Attention, astronomical year style is used: The year -10936 in astronomical counting style is the year 10937 BCE in historical counting style.

max. Earth dist.	-10936 Apr 15 j 22:50	6°02'12	31.03896 AU	retrograde	-10930 Aug 11 j 09:53	21°47'38	
morning rise	-10936 May 02 j 20:04	6°39'40		opposition	-10930 Oct 27 j 09:31	20°25'29	-1°32'33
retrograde	-10936 Jul 28 j 19:37	8°32'35		min. Earth dist.	-10930 Oct 28 j 08:00	20°23'55	29.09603 AU
opposition	-10936 Oct 13 j 16:47	7°10'03	-2°03'31	direct	-10929 Jan 16 j 01:37	18°59'50	
min. Earth dist.	-10936 Oct 14 j 14:23	7°08'32	29.04362 AU	evening set	-10929 Apr 17 j 13:18	20°57'12	
direct	-10935 Jan 02 j 02:20	5°44'17					
evening set	-10935 Apr 03 j 09:10	7°41'39		conjunction	-10929 May 03 j 13:09	21°32'42	-1°23'53
max. Earth dist.	-10935 Apr 18 j 10:27	8°15'00	31.04539 AU	minimum elong	-10929 May 03 j 13:10	21°32'42	1°24'17
				max. Earth dist.	-10929 May 02 j 12:33	21°30'24	31.10055 AU
conjunction	-10935 Apr 19 j 10:40	8°17'16	-1°53'17	morning rise	-10929 May 19 j 08:49	22°07'51	
minimum elong	-10935 Apr 19 j 10:41	8°17'16	1°53'47	retrograde	-10929 Aug 13 j 20:27	24°00'10	
morning rise	-10935 May 05 j 08:36	8°52'33		opposition	-10929 Oct 29 j 20:39	22°38'05	-1°26'52
retrograde	-10935 Jul 31 j 07:14	10°45'20		min. Earth dist.	-10929 Oct 30 j 20:05	22°36'28	29.10682 AU
opposition	-10935 Oct 16 j 03:25	9°22'51	-1°58'46	direct	-10928 Jan 18 j 15:20	21°12'30	
min. Earth dist.	-10935 Oct 17 j 00:29	9°21'22	29.05005 AU	evening set	-10928 Apr 19 j 01:54	23°09'53	
direct	-10934 Jan 04 j 15:47	7°57'03		max. Earth dist.	-10928 May 03 j 23:09	23°42'55	31.11118 AU
evening set	-10934 Apr 05 j 22:07	9°54'24					
				conjunction	-10928 May 05 j 01:14	23°45'21	-1°18'30
conjunction	-10934 Apr 21 j 23:25	10°30'00	-1°48'46	minimum elong	-10928 May 05 j 01:15	23°45'21	1°18'54
minimum elong	-10934 Apr 21 j 23:26	10°30'00	1°49'15	morning rise	-10928 May 20 j 20:40	24°20'29	
max. Earth dist.	-10934 Apr 20 j 23:11	10°27'44	31.05212 AU	retrograde	-10928 Aug 15 j 08:27	26°12'44	
morning rise	-10934 May 07 j 20:54	11°05'16		opposition	-10928 Oct 31 j 07:40	24°50'44	-1°21'03
retrograde	-10934 Aug 02 j 17:05	12°57'55		min. Earth dist.	-10928 Nov 01 j 06:42	24°49'08	29.11702 AU
opposition	-10934 Oct 18 j 14:10	11°35'29	-1°53'51	direct	-10927 Jan 20 j 03:39	23°25'11	
min. Earth dist.	-10934 Oct 19 j 12:30	11°33'55	29.05718 AU	evening set	-10927 Apr 21 j 14:13	25°22'34	
direct	-10933 Jan 07 j 02:38	10°09'40		max. Earth dist.	-10927 May 06 j 11:40	25°55'37	31.12082 AU
evening set	-10933 Apr 08 j 10:58	12°07'01					
max. Earth dist.	-10933 Apr 23 j 11:40	12°40'19	31.05985 AU	conjunction	-10927 May 07 j 13:21	25°58'01	-1°13'00
				minimum elong	-10927 May 07 j 13:22	25°58'01	1°13'22
conjunction	-10933 Apr 24 j 11:59	12°42'35	-1°44'05	morning rise	-10927 May 23 j 08:15	26°33'07	
minimum elong	-10933 Apr 24 j 12:00	12°42'35	1°44'33	retrograde	-10927 Aug 17 j 18:51	28°25'19	
morning rise	-10933 May 10 j 09:10	13°17'50		opposition	-10927 Nov 02 j 18:56	27°03'22	-1°15'07
	-10933 Jul 11 j 15:11	15°		min. Earth dist.	-10927 Nov 03 j 19:29	27°01'40	29.12599 AU
retrograde	-10933 Aug 05 j 02:26	15°10'23		direct	-10926 Jan 22 j 16:34	25°37'51	
	-10933 Aug 29 j 21:15	15°		evening set	-10926 Apr 24 j 02:42	27°35'12	
opposition	-10933 Oct 21 j 00:59	13°48'00	-1°48'45	max. Earth dist.	-10926 May 08 j 22:28	28°08'07	31.12924 AU
min. Earth dist.	-10933 Oct 21 j 22:39	13°46'29	29.06530 AU				
direct	-10932 Jan 09 j 16:10	12°22'12		conjunction	-10926 May 10 j 01:19	28°10'37	-1°07'24
evening set	-10932 Apr 09 j 23:35	14°19'32		minimum elong	-10926 May 10 j 01:20	28°10'37	1°07'46
max. Earth dist.	-10932 Apr 24 j 23:21	14°52'46	31.06864 AU	morning rise	-10926 May 25 j 19:56	28°45'41	
					-10926 Jul 03 j 17:42	0°	
conjunction	-10932 Apr 26 j 00:15	14°55'05	-1°39'14	retrograde	-10926 Aug 20 j 06:58	0°37'49	
minimum elong	-10932 Apr 26 j 00:16	14°55'06	1°39'43		-10926 Oct 08 j 06:20	30°	
	-10932 Apr 28 j 04:54	15°		opposition	-10926 Nov 05 j 06:03	29°15'54	-1°09'05
morning rise	-10932 May 11 j 21:07	15°30'19		min. Earth dist.	-10926 Nov 06 j 06:07	29°14'14	29.13363 AU
retrograde	-10932 Aug 06 j 12:28	17°22'47		direct	-10925 Jan 25 j 06:55	27°50'23	
opposition	-10932 Oct 22 j 11:51	16°00'28	-1°43'31	evening set	-10925 Apr 26 j 14:59	29°47'42	
min. Earth dist.	-10932 Oct 23 j 10:05	15°58'55	29.07472 AU		-10925 May 02 j 05:14	0°	
	-10932 Dec 01 j 13:34	15°		max. Earth dist.	-10925 May 11 j 10:21	0°20'35	31.13627 AU
direct	-10931 Jan 11 j 02:20	14°34'42					
	-10931 Feb 20 j 01:20	15°		conjunction	-10925 May 12 j 13:17	0°23'06	-1°01'43
evening set	-10931 Apr 12 j 12:09	16°32'02		minimum elong	-10925 May 12 j 13:18	0°23'06	1°02'03
				morning rise	-10925 May 28 j 07:22	0°58'08	
conjunction	-10931 Apr 28 j 12:39	17°07'35	-1°34'15	retrograde	-10925 Aug 22 j 16:59	2°50'11	
minimum elong	-10931 Apr 28 j 12:40	17°07'35	1°34'42	opposition	-10925 Nov 07 j 17:26	1°28'17	-1°02'58
max. Earth dist.	-10931 Apr 27 j 12:22	17°05'19	31.07871 AU	min. Earth dist.	-10925 Nov 08 j 18:47	1°26'32	29.14012 AU
morning rise	-10931 May 14 j 09:06	17°42'47		direct	-10924 Jan 27 j 19:01	0°02'46	
retrograde	-10931 Aug 08 j 22:14	19°35'11		evening set	-10924 Apr 28 j 02:59	2°00'01	
opposition	-10931 Oct 24 j 22:35	18°12'57	-1°38'06	max. Earth dist.	-10924 May 12 j 21:48	2°32'51	31.14238 AU
min. Earth dist.	-10931 Oct 25 j 20:59	18°11'23	29.08505 AU				
direct	-10930 Jan 13 j 14:22	16°47'14		conjunction	-10924 May 14 j 00:52	2°35'23	-0°55'56
evening set	-10930 Apr 15 j 00:52	18°44'35		minimum elong	-10924 May 14 j 00:53	2°35'23	0°56'16
max. Earth dist.	-10930 Apr 29 j 23:26	19°17'43	31.08952 AU	morning rise	-10924 May 29 j 18:36	3°10'23	
				retrograde	-10924 Aug 24 j 02:03	5°02'22	
conjunction	-10930 May 01 j 00:54	19°20'06	-1°29'08	opposition	-10924 Nov 09 j 04:40	3°40'28	-0°56'45
minimum elong	-10930 May 01 j 00:55	19°20'06	1°29'35	min. Earth dist.	-10924 Nov 10 j 05:31	3°38'44	29.14567 AU
morning rise	-10930 May 16 j 21:07	19°55'17		direct	-10923 Jan 29 j 08:51	2°14'56	

Attention, astronomical year style is used: The year -10923 in astronomical counting style is the year 10924 BCE in historical counting style.

evening set	-10923 Apr 30 j 14:59	4° $\mathbf{\text{H}}$ 12'06		morning rise	-10917 Jun 14 j 21:09	18° $\mathbf{\text{H}}$ 30'59	
max. Earth dist.	-10923 May 15 j 08:42	4° $\mathbf{\text{H}}$ 44'51	31.14769 AU	retrograde	-10917 Sep 09 j 02:19	20° $\mathbf{\text{H}}$ 22'47	
				opposition	-10917 Nov 25 j 12:15	19° $\mathbf{\text{H}}$ 00'59	-0°11'36
conjunction	-10923 May 16 j 12:24	4° $\mathbf{\text{H}}$ 47'26	-0°50'05	min. Earth dist.	-10917 Nov 26 j 11:54	18° $\mathbf{\text{H}}$ 59'21	29.19399 AU
minimum elong	-10923 May 16 j 12:25	4° $\mathbf{\text{H}}$ 47'26	0°50'23	direct	-10916 Feb 14 j 21:54	17° $\mathbf{\text{H}}$ 35'41	
morning rise	-10923 Jun 01 j 05:44	5° $\mathbf{\text{H}}$ 22'25		evening set	-10916 May 15 j 23:21	19° $\mathbf{\text{H}}$ 32'34	
retrograde	-10923 Aug 26 j 11:47	7° $\mathbf{\text{H}}$ 14'18					
opposition	-10923 Nov 11 j 15:48	5° $\mathbf{\text{H}}$ 52'24	-0°50'28	conjunction	-10916 May 31 j 17:19	20° $\mathbf{\text{H}}$ 07'39	-0°07'45
min. Earth dist.	-10923 Nov 12 j 17:16	5° $\mathbf{\text{H}}$ 50'38	29.15087 AU	minimum elong	-10916 May 31 j 17:20	20° $\mathbf{\text{H}}$ 07'39	0°07'54
direct	-10922 Jan 31 j 19:42	4° $\mathbf{\text{H}}$ 26'51		behind sun begin	-10916 May 31 j 11:31	20° $\mathbf{\text{H}}$ 07'08	
evening set	-10922 May 03 j 02:46	6° $\mathbf{\text{H}}$ 23'57		behind sun end	-10916 May 31 j 23:08	20° $\mathbf{\text{H}}$ 08'10	
				max. Earth dist.	-10916 May 30 j 15:48	20° $\mathbf{\text{H}}$ 05'16	31.19798 AU
conjunction	-10922 May 18 j 23:51	6° $\mathbf{\text{H}}$ 59'15	-0°44'10	morning rise	-10916 Jun 16 j 07:15	20° $\mathbf{\text{H}}$ 42'24	
minimum elong	-10922 May 18 j 23:52	6° $\mathbf{\text{H}}$ 59'15	0°44'28	retrograde	-10916 Sep 10 j 12:47	22° $\mathbf{\text{H}}$ 34'14	
max. Earth dist.	-10922 May 17 j 20:56	6° $\mathbf{\text{H}}$ 56'44	31.15290 AU	opposition	-10916 Nov 26 j 23:57	21° $\mathbf{\text{H}}$ 12'29	-0°05'01
morning rise	-10922 Jun 03 j 16:40	7° $\mathbf{\text{H}}$ 34'12		min. Earth dist.	-10916 Nov 28 j 00:31	21° $\mathbf{\text{H}}$ 10'48	29.20248 AU
retrograde	-10922 Aug 28 j 20:41	9° $\mathbf{\text{H}}$ 26'01		direct	-10915 Feb 16 j 09:36	19° $\mathbf{\text{H}}$ 47'16	
opposition	-10922 Nov 14 j 03:10	8° $\mathbf{\text{H}}$ 04'06	-0°44'06	evening set	-10915 May 18 j 10:39	21° $\mathbf{\text{H}}$ 44'07	
min. Earth dist.	-10922 Nov 15 j 04:32	8° $\mathbf{\text{H}}$ 02'20	29.15603 AU	max. Earth dist.	-10915 Jun 02 j 02:43	22° $\mathbf{\text{H}}$ 16'48	31.20607 AU
direct	-10921 Feb 03 j 08:33	6° $\mathbf{\text{H}}$ 38'33					
evening set	-10921 May 05 j 14:28	8° $\mathbf{\text{H}}$ 35'34		conjunction	-10915 Jun 03 j 04:04	22° $\mathbf{\text{H}}$ 19'10	-0°01'35
max. Earth dist.	-10921 May 20 j 07:16	9° $\mathbf{\text{H}}$ 08'15	31.15837 AU	minimum elong	-10915 Jun 03 j 04:03	22° $\mathbf{\text{H}}$ 19'10	0°01'42
				behind sun begin	-10915 Jun 02 j 21:36	22° $\mathbf{\text{H}}$ 18'36	
conjunction	-10921 May 21 j 10:54	9° $\mathbf{\text{H}}$ 10'50	-0°38'12	behind sun end	-10915 Jun 03 j 10:31	22° $\mathbf{\text{H}}$ 19'45	
minimum elong	-10921 May 21 j 10:55	9° $\mathbf{\text{H}}$ 10'50	0°38'28	morning rise	-10915 Jun 18 j 17:29	22° $\mathbf{\text{H}}$ 53'53	
morning rise	-10921 Jun 06 j 03:22	9° $\mathbf{\text{H}}$ 45'45		asc. node	-10915 Sep 03 j 07:08	24° $\mathbf{\text{H}}$ 44'10	
retrograde	-10921 Aug 31 j 07:07	11° $\mathbf{\text{H}}$ 37'32		retrograde	-10915 Sep 12 j 22:18	24° $\mathbf{\text{H}}$ 45'45	
opposition	-10921 Nov 16 j 14:30	10° $\mathbf{\text{H}}$ 15'36	-0°37'42	opposition	-10915 Nov 29 j 11:31	23° $\mathbf{\text{H}}$ 24'02	0°01'35
min. Earth dist.	-10921 Nov 17 j 15:23	10° $\mathbf{\text{H}}$ 13'53	29.16193 AU	min. Earth dist.	-10915 Nov 30 j 11:25	23° $\mathbf{\text{H}}$ 22'24	29.20995 AU
direct	-10920 Feb 05 j 19:53	8° $\mathbf{\text{H}}$ 50'03		direct	-10914 Feb 18 j 23:05	21° $\mathbf{\text{H}}$ 58'53	
evening set	-10920 May 07 j 01:56	10° $\mathbf{\text{H}}$ 47'01		evening set	-10914 May 20 j 21:59	23° $\mathbf{\text{H}}$ 55'43	
conjunction	-10920 May 22 j 22:04	11° $\mathbf{\text{H}}$ 22'15	-0°32'11	conjunction	-10914 Jun 05 j 14:45	24° $\mathbf{\text{H}}$ 30'44	0°04'43
minimum elong	-10920 May 22 j 22:04	11° $\mathbf{\text{H}}$ 22'15	0°32'26	minimum elong	-10914 Jun 05 j 14:45	24° $\mathbf{\text{H}}$ 30'44	0°04'36
max. Earth dist.	-10920 May 21 j 19:53	11° $\mathbf{\text{H}}$ 19'48	31.16471 AU	behind sun begin	-10914 Jun 05 j 08:25	24° $\mathbf{\text{H}}$ 30'10	
morning rise	-10920 Jun 07 j 13:53	11° $\mathbf{\text{H}}$ 57'07		behind sun end	-10914 Jun 05 j 21:05	24° $\mathbf{\text{H}}$ 31'18	
retrograde	-10920 Sep 01 j 16:24	13° $\mathbf{\text{H}}$ 48'53		max. Earth dist.	-10914 Jun 04 j 12:53	24° $\mathbf{\text{H}}$ 28'19	31.21293 AU
opposition	-10920 Nov 18 j 01:52	12° $\mathbf{\text{H}}$ 26'57	-0°31'14	morning rise	-10914 Jun 21 j 03:40	25° $\mathbf{\text{H}}$ 05'25	
min. Earth dist.	-10920 Nov 19 j 03:03	12° $\mathbf{\text{H}}$ 25'13	29.16872 AU	retrograde	-10914 Sep 15 j 08:46	26° $\mathbf{\text{H}}$ 57'18	
direct	-10919 Feb 07 j 08:22	11° $\mathbf{\text{H}}$ 01'26		opposition	-10914 Dec 01 j 23:25	25° $\mathbf{\text{H}}$ 35'37	0°08'10
evening set	-10919 May 09 j 13:26	12° $\mathbf{\text{H}}$ 58'22		min. Earth dist.	-10914 Dec 02 j 23:41	25° $\mathbf{\text{H}}$ 33'57	29.21629 AU
max. Earth dist.	-10919 May 24 j 06:01	13° $\mathbf{\text{H}}$ 31'02	31.17214 AU	direct	-10913 Feb 21 j 10:08	24° $\mathbf{\text{H}}$ 10'31	
				evening set	-10913 May 23 j 09:01	26° $\mathbf{\text{H}}$ 07'18	
conjunction	-10919 May 25 j 08:56	13° $\mathbf{\text{H}}$ 33'33	-0°26'07	max. Earth dist.	-10913 Jun 07 j 00:19	26° $\mathbf{\text{H}}$ 39'56	31.21857 AU
minimum elong	-10919 May 25 j 08:56	13° $\mathbf{\text{H}}$ 33'33	0°26'20				
morning rise	-10919 Jun 10 j 00:28	14° $\mathbf{\text{H}}$ 08'24		conjunction	-10913 Jun 08 j 01:18	26° $\mathbf{\text{H}}$ 42'16	0°10'51
retrograde	-10919 Sep 04 j 03:56	16° $\mathbf{\text{H}}$ 00'09		minimum elong	-10913 Jun 08 j 01:18	26° $\mathbf{\text{H}}$ 42'16	0°10'46
opposition	-10919 Nov 20 j 13:10	14° $\mathbf{\text{H}}$ 38'15	-0°24'43	behind sun begin	-10913 Jun 07 j 20:20	26° $\mathbf{\text{H}}$ 41'49	
min. Earth dist.	-10919 Nov 21 j 13:10	14° $\mathbf{\text{H}}$ 36'36	29.17658 AU	behind sun end	-10913 Jun 08 j 06:16	26° $\mathbf{\text{H}}$ 42'43	
direct	-10918 Feb 09 j 19:47	13° $\mathbf{\text{H}}$ 12'47		morning rise	-10913 Jun 23 j 13:35	27° $\mathbf{\text{H}}$ 16'55	
evening set	-10918 May 12 j 00:46	15° $\mathbf{\text{H}}$ 09'42		retrograde	-10913 Sep 17 j 17:51	29° $\mathbf{\text{H}}$ 08'50	
				opposition	-10913 Dec 04 j 11:21	27° $\mathbf{\text{H}}$ 47'09	0°14'45
conjunction	-10918 May 27 j 19:52	15° $\mathbf{\text{H}}$ 44'51	-0°20'01	min. Earth dist.	-10913 Dec 05 j 11:32	27° $\mathbf{\text{H}}$ 45'29	29.22119 AU
minimum elong	-10918 May 27 j 19:53	15° $\mathbf{\text{H}}$ 44'51	0°20'13	direct	-10912 Feb 23 j 23:09	26° $\mathbf{\text{H}}$ 22'05	
max. Earth dist.	-10918 May 26 j 18:09	15° $\mathbf{\text{H}}$ 42'27	31.18040 AU	evening set	-10912 May 24 j 20:10	28° $\mathbf{\text{H}}$ 18'48	
morning rise	-10918 Jun 12 j 10:45	16° $\mathbf{\text{H}}$ 19'40		max. Earth dist.	-10912 Jun 08 j 09:52	28° $\mathbf{\text{H}}$ 51'18	31.22292 AU
retrograde	-10918 Sep 06 j 14:06	18° $\mathbf{\text{H}}$ 11'26					
opposition	-10918 Nov 23 j 00:43	16° $\mathbf{\text{H}}$ 49'35	-0°18'11	conjunction	-10912 Jun 09 j 11:43	28° $\mathbf{\text{H}}$ 53'43	0°16'58
min. Earth dist.	-10918 Nov 24 j 01:30	16° $\mathbf{\text{H}}$ 47'52	29.18514 AU	minimum elong	-10912 Jun 09 j 11:43	28° $\mathbf{\text{H}}$ 53'43	0°16'53
direct	-10917 Feb 12 j 08:18	15° $\mathbf{\text{H}}$ 24'12		morning rise	-10912 Jun 24 j 23:37	29° $\mathbf{\text{H}}$ 28'20	
evening set	-10917 May 14 j 12:11	17° $\mathbf{\text{H}}$ 21'05			-10912 Jul 09 j 22:45	0° $\mathbf{\text{Y}}$	
max. Earth dist.	-10917 May 29 j 04:36	17° $\mathbf{\text{H}}$ 53'47	31.18928 AU	retrograde	-10912 Sep 19 j 04:09	1° $\mathbf{\text{Y}}$ 20'16	
				opposition	-10912 Dec 05 j 23:03	29° $\mathbf{\text{H}}$ 58'33	0°21'17
conjunction	-10917 May 30 j 06:39	17° $\mathbf{\text{H}}$ 56'13	-0°13'53		-10912 Dec 05 j 01:57	30° $\mathbf{\text{R}}$ $\mathbf{\text{H}}$	
minimum elong	-10917 May 30 j 06:39	17° $\mathbf{\text{H}}$ 56'13	0°14'03	min. Earth dist.	-10912 Dec 06 j 22:53	29° $\mathbf{\text{H}}$ 56'56	29.22510 AU
behind sun begin	-10917 May 30 j 03:24	17° $\mathbf{\text{H}}$ 55'55		direct	-10911 Feb 25 j 10:13	28° $\mathbf{\text{H}}$ 33'31	
behind sun end	-10917 May 30 j 09:53	17° $\mathbf{\text{H}}$ 56'30			-10911 May 13 j 01:19	0° $\mathbf{\text{Y}}$	

Attention, astronomical year style is used: The year -10911 in astronomical counting style is the year 10912 BCE in historical counting style.

evening set	-10911 May 27 j 06:59	0° Υ 30'09		opposition	-10905 Dec 22 j 10:55	15° Υ 14'30	1°05'35
				min. Earth dist.	-10905 Dec 23 j 06:49	15° Υ 13'09	29.25507 AU
conjunction	-10911 Jun 11 j 22:08	1° Υ 05'03	0°23'04	direct	-10904 Mar 12 j 23:39	13° Υ 49'45	
minimum elong	-10911 Jun 11 j 22:07	1° Υ 05'03	0°23'02	evening set	-10904 Jun 11 j 07:58	15° Υ 45'55	
max. Earth dist.	-10911 Jun 10 j 21:36	1° Υ 02'45	31.22629 AU				
morning rise	-10911 Jun 27 j 09:21	1° Υ 39'37		conjunction	-10904 Jun 26 j 18:41	16° Υ 20'29	1°04'17
retrograde	-10911 Sep 21 j 13:01	3° Υ 31'34		minimum elong	-10904 Jun 26 j 18:40	16° Υ 20'29	1°04'23
opposition	-10911 Dec 08 j 10:59	2° Υ 09'49	0°27'48	max. Earth dist.	-10904 Jun 25 j 22:59	16° Υ 18'38	31.25783 AU
min. Earth dist.	-10911 Dec 09 j 11:12	2° Υ 08'10	29.22805 AU	morning rise	-10904 Jul 12 j 02:07	16° Υ 54'47	
direct	-10910 Feb 27 j 22:15	0° Υ 44'47		retrograde	-10904 Oct 06 j 14:12	18° Υ 47'09	
evening set	-10910 May 29 j 17:48	2° Υ 41'20		opposition	-10904 Dec 23 j 23:01	17° Υ 25'17	1°11'36
max. Earth dist.	-10910 Jun 13 j 07:02	3° Υ 13'49	31.22907 AU	min. Earth dist.	-10904 Dec 24 j 18:26	17° Υ 23'58	29.26163 AU
				direct	-10903 Mar 15 j 12:32	16° Υ 00'38	
conjunction	-10910 Jun 14 j 08:08	3° Υ 16'11	0°29'08	evening set	-10903 Jun 13 j 18:19	17° Υ 56'45	
minimum elong	-10910 Jun 14 j 08:08	3° Υ 16'11	0°29'07	max. Earth dist.	-10903 Jun 28 j 08:03	18° Υ 29'22	31.26414 AU
morning rise	-10910 Jun 29 j 18:58	3° Υ 50'43					
retrograde	-10910 Sep 24 j 00:05	5° Υ 42'42		conjunction	-10903 Jun 29 j 04:14	18° Υ 31'16	1°09'52
opposition	-10910 Dec 10 j 22:49	4° Υ 20'53	0°34'15	minimum elong	-10903 Jun 29 j 04:13	18° Υ 31'16	1°10'01
min. Earth dist.	-10910 Dec 11 j 21:42	4° Υ 19'20	29.23079 AU	morning rise	-10903 Jul 14 j 11:16	19° Υ 05'32	
direct	-10909 Mar 02 j 09:11	2° Υ 55'52		retrograde	-10903 Oct 09 j 00:51	20° Υ 58'00	
evening set	-10909 Jun 01 j 04:21	4° Υ 52'20		opposition	-10903 Dec 26 j 11:19	19° Υ 36'08	1°17'32
				min. Earth dist.	-10903 Dec 27 j 05:57	19° Υ 34'52	29.26771 AU
conjunction	-10909 Jun 16 j 18:13	5° Υ 27'07	0°35'09	direct	-10902 Mar 17 j 23:10	18° Υ 11'34	
minimum elong	-10909 Jun 16 j 18:13	5° Υ 27'07	0°35'10	evening set	-10902 Jun 16 j 04:27	20° Υ 07'38	
max. Earth dist.	-10909 Jun 15 j 18:30	5° Υ 24'54	31.23181 AU				
morning rise	-10909 Jul 02 j 04:22	6° Υ 01'37		conjunction	-10902 Jul 01 j 13:51	20° Υ 42'07	1°15'21
retrograde	-10909 Sep 26 j 10:04	7° Υ 53'38		minimum elong	-10902 Jul 01 j 13:50	20° Υ 42'07	1°15'30
opposition	-10909 Dec 13 j 10:51	6° Υ 31'47	0°40'40	max. Earth dist.	-10902 Jun 30 j 19:17	20° Υ 40'22	31.26960 AU
min. Earth dist.	-10909 Dec 14 j 10:08	6° Υ 30'12	29.23384 AU	morning rise	-10902 Jul 16 j 20:10	21° Υ 16'21	
direct	-10908 Mar 03 j 21:57	5° Υ 06'47		retrograde	-10902 Oct 11 j 09:57	23° Υ 08'56	
evening set	-10908 Jun 02 j 14:46	7° Υ 03'09		opposition	-10902 Dec 28 j 23:52	21° Υ 47'04	1°23'20
max. Earth dist.	-10908 Jun 17 j 04:26	7° Υ 35'42	31.23522 AU	min. Earth dist.	-10902 Dec 29 j 18:42	21° Υ 45'47	29.27264 AU
				direct	-10901 Mar 20 j 10:56	20° Υ 22'34	
conjunction	-10908 Jun 18 j 03:55	7° Υ 37'54	0°41'06	evening set	-10901 Jun 18 j 14:47	22° Υ 18'34	
minimum elong	-10908 Jun 18 j 03:54	7° Υ 37'54	0°41'08				
morning rise	-10908 Jul 03 j 13:39	8° Υ 12'21		conjunction	-10901 Jul 03 j 23:23	22° Υ 53'00	1°20'43
retrograde	-10908 Sep 27 j 21:49	10° Υ 04'24		minimum elong	-10901 Jul 03 j 23:22	22° Υ 53'00	1°20'55
opposition	-10908 Dec 14 j 22:42	8° Υ 42'31	0°47'00	max. Earth dist.	-10901 Jul 03 j 04:18	22° Υ 51'12	31.27392 AU
min. Earth dist.	-10908 Dec 15 j 20:16	8° Υ 41'03	29.23767 AU	morning rise	-10901 Jul 19 j 05:19	23° Υ 27'13	
direct	-10907 Mar 06 j 11:16	7° Υ 17'32		retrograde	-10901 Oct 13 j 21:38	25° Υ 19'53	
evening set	-10907 Jun 05 j 01:11	9° Υ 13'51		opposition	-10901 Dec 31 j 12:17	23° Υ 58'00	1°29'01
				min. Earth dist.	-10900 Jan 01 j 05:43	23° Υ 56'49	29.27639 AU
conjunction	-10907 Jun 20 j 13:44	9° Υ 48'33	0°47'00	direct	-10900 Mar 21 j 21:41	22° Υ 33'34	
minimum elong	-10907 Jun 20 j 13:43	9° Υ 48'33	0°47'04	evening set	-10900 Jun 20 j 00:49	24° Υ 29'30	
max. Earth dist.	-10907 Jun 19 j 15:11	9° Υ 46'26	31.23947 AU				
morning rise	-10907 Jul 05 j 22:49	10° Υ 22'58		conjunction	-10900 Jul 05 j 08:56	25° Υ 03'53	1°25'59
retrograde	-10907 Sep 30 j 08:01	12° Υ 15'05		minimum elong	-10900 Jul 05 j 08:55	25° Υ 03'53	1°26'11
opposition	-10907 Dec 17 j 10:39	10° Υ 53'10	0°53'17	max. Earth dist.	-10900 Jul 04 j 14:59	25° Υ 02'12	31.27682 AU
min. Earth dist.	-10907 Dec 18 j 08:24	10° Υ 51'41	29.24258 AU	morning rise	-10900 Jul 20 j 14:15	25° Υ 38'04	
direct	-10906 Mar 08 j 22:33	9° Υ 28'15		retrograde	-10900 Oct 15 j 07:53	27° Υ 30'51	
evening set	-10906 Jun 07 j 11:33	11° Υ 24'31		opposition	-10899 Jan 02 j 00:52	26° Υ 08'55	1°34'35
				min. Earth dist.	-10899 Jan 02 j 18:55	26° Υ 07'41	29.27869 AU
conjunction	-10906 Jun 22 j 23:28	11° Υ 59'10	0°52'50	direct	-10899 Mar 24 j 09:45	24° Υ 44'32	
minimum elong	-10906 Jun 22 j 23:28	11° Υ 59'09	0°52'54	evening set	-10899 Jun 22 j 10:57	26° Υ 40'23	
max. Earth dist.	-10906 Jun 22 j 02:01	11° Υ 57'09	31.24495 AU				
morning rise	-10906 Jul 08 j 08:01	12° Υ 33'32		conjunction	-10899 Jul 07 j 18:22	27° Υ 14'44	1°31'07
retrograde	-10906 Oct 02 j 17:51	14° Υ 25'43		minimum elong	-10899 Jul 07 j 18:21	27° Υ 14'43	1°31'22
opposition	-10906 Dec 19 j 22:43	13° Υ 03'48	0°59'28	max. Earth dist.	-10899 Jul 07 j 00:29	27° Υ 13'02	31.27847 AU
min. Earth dist.	-10906 Dec 20 j 18:57	13° Υ 02'26	29.24846 AU	morning rise	-10899 Jul 22 j 23:15	27° Υ 48'51	
direct	-10905 Mar 11 j 12:10	11° Υ 38'58		retrograde	-10899 Oct 17 j 19:43	29° Υ 41'44	
evening set	-10905 Jun 09 j 21:46	13° Υ 35'11		opposition	-10898 Jan 04 j 13:15	28° Υ 19'45	1°40'00
max. Earth dist.	-10905 Jun 24 j 11:45	14° Υ 07'48	31.25118 AU	min. Earth dist.	-10898 Jan 05 j 05:47	28° Υ 18'38	29.27975 AU
conjunction	-10905 Jun 25 j 08:59	14° Υ 09'47	0°58'36				
minimum elong	-10905 Jun 25 j 08:58	14° Υ 09'47	0°58'42				
morning rise	-10905 Jul 10 j 17:03	14° Υ 44'08					
retrograde	-10905 Oct 05 j 05:03	16° Υ 36'24					