Attention, astronomical year style is used: The year -9400 in astronomical counting style is the year 9401 BCE in historical counting style.

evening set	-9400 Feb 09 j 14:08	27°♐20'21	
conjunction	-9400 Feb 26 j 09:18	28°♐18'55	-1°03'56
minimum elong	-9400 Feb 26 j 09:18	28°♐18'55	1°04'30
max. Earth dist.	-9400 Feb 25 j 18:07	28°♐16'42	20.32059 AU
morning rise	-9400 Mar 14 j 04:47	29°♐17'35	
	-9400 Mar 26 j 21:21	0°♑	
retrograde	-9400 Jun 15 j 16:45	2°♑30'06	
opposition	-9400 Aug 29 j 10:19	0°♑29'10	-1°11'22
min. Earth dist.	-9400 Aug 29 j 23:29	0°♑27'45	18.28527 AU
	-9400 Sep 09 j 22:40	30°℞♐	
direct	-9400 Nov 12 j 08:26	28°♐27'41	
	-9399 Jan 12 j 20:16	0°♑	
evening set	-9399 Feb 13 j 09:16	1°♑39'32	
max. Earth dist.	-9399 Mar 01 j 10:29	2°♑35'44	20.24893 AU
conjunction	-9399 Mar 02 j 04:40	2°♑38'24	-1°04'31
minimum elong	-9399 Mar 02 j 04:40	2°♑38'24	1°05'05
morning rise	-9399 Mar 19 j 00:02	3°♑37'19	
retrograde	-9399 Jun 20 j 07:26	6°♑50'26	
opposition	-9399 Sep 02 j 21:47	4°♑49'26	-1°11'49
min. Earth dist.	-9399 Sep 03 j 14:10	4°♑47'40	18.21279 AU
direct	-9399 Nov 16 j 20:27	2°♑47'32	
evening set	-9398 Feb 18 j 05:12	6°♑00'46	
max. Earth dist.	-9398 Mar 06 j 04:02	6°♑56'51	20.17566 AU
conjunction	-9398 Mar 07 j 00:51	6°♑59'55	-1°04'43
minimum elong	-9398 Mar 07 j 00:51	6°♑59'55	1°05'18
morning rise	-9398 Mar 23 j 20:09	7°♑59'04	
retrograde	-9398 Jun 25 j 00:30	11°♑12'48	
opposition	-9398 Sep 07 j 09:54	9°♑11'40	-1°11'52
min. Earth dist.	-9398 Sep 08 j 03:29	9°♑09'47	18.13880 AU
direct	-9398 Nov 21 j 12:03	7°♑09'19	
evening set	-9397 Feb 23 j 01:56	10°♑23'57	
conjunction	-9397 Mar 11 j 21:47	11°♑23'24	-1°04'33
minimum elong	-9397 Mar 11 j 21:47	11°♑23'24	1°05'07
max. Earth dist.	-9397 Mar 10 j 22:32	11°♑19'57	20.10099 AU
morning rise	-9397 Mar 28 j 16:49	12°♑22'47	
retrograde	-9397 Jun 29 j 16:06	15°♑37'07	
opposition	-9397 Sep 11 j 22:58	13°♑35'52	-1°11'30
min. Earth dist.	-9397 Sep 12 j 19:31	13°♑33'39	18.06376 AU
direct	-9397 Nov 26 j 01:56	11°♑33'02	
evening set	-9396 Feb 27 j 23:41	14°♑49'03	
conjunction	-9396 Mar 15 j 19:33	15°♑48'47	-1°04'00
minimum elong	-9396 Mar 15 j 19:34	15°♑48'47	1°04'34
max. Earth dist.	-9396 Mar 14 j 17:41	15°♑44'55	20.02579 AU
morning rise	-9396 Apr 01 j 14:25	16°♑48'23	
retrograde	-9396 Jul 03 j 10:28	20°♑03'19	
opposition	-9396 Sep 15 j 12:35	18°♑01'55	-1°10'42
min. Earth dist.	-9396 Sep 16 j 10:12	17°♑59'35	17.98855 AU
direct	-9396 Nov 29 j 19:51	15°♑58'36	
evening set	-9395 Mar 03 j 22:13	19°♑16'02	
conjunction	-9395 Mar 20 j 18:08	20°♑16'02	-1°03'03
minimum elong	-9395 Mar 20 j 18:08	20°♑16'02	1°03'36
max. Earth dist.	-9395 Mar 19 j 14:37	20°♑11'55	19.95068 AU
morning rise	-9395 Apr 06 j 12:29	21°♑15'52	
retrograde	-9395 Jul 08 j 03:15	24°♑31'23	
opposition	-9395 Sep 20 j 03:19	22°♑29'51	-1°09'28
min. Earth dist.	-9395 Sep 21 j 03:24	22°♑27'14	17.91395 AU
direct	-9395 Dec 04 j 11:37	20°♑26'03	
evening set	-9394 Mar 08 j 21:20	23°♑44'52	
max. Earth dist.	-9394 Mar 24 j 11:12	24°♑40'38	19.87679 AU
conjunction	-9394 Mar 25 j 17:01	24°♑45'07	-1°01'43
minimum elong	-9394 Mar 25 j 17:01	24°♑45'07	1°02'16
morning rise	-9394 Apr 11 j 11:04	25°♑45'10	
retrograde	-9394 Jul 12 j 22:49	29°♑01'18	
opposition	-9394 Sep 24 j 18:42	26°♑59'36	-1°07'48
min. Earth dist.	-9394 Sep 25 j 19:30	26°♑56'55	17.84098 AU
direct	-9394 Dec 09 j 07:02	24°♑55'22	
evening set	-9393 Mar 13 j 21:14	28°♑15'33	
max. Earth dist.	-9393 Mar 29 j 10:16	29°♑11'26	19.80477 AU
conjunction	-9393 Mar 30 j 16:51	29°♑16'04	-1°00'01
minimum elong	-9393 Mar 30 j 16:51	29°♑16'04	1°00'33
	-9393 Apr 11 j 20:21	0°♒	
morning rise	-9393 Apr 16 j 10:12	0°♒16'18	
retrograde	-9393 Jul 17 j 17:14	3°♒33'01	
opposition	-9393 Sep 29 j 11:00	1°♒31'14	-1°05'43
min. Earth dist.	-9393 Sep 30 j 13:44	1°♒28'19	17.77028 AU
	-9393 Nov 07 j 18:39	30°℞♑	
direct	-9393 Dec 14 j 00:53	29°♑26'33	
	-9392 Jan 18 j 22:26	0°♒	
evening set	-9392 Mar 17 j 22:02	2°♒48'07	
max. Earth dist.	-9392 Apr 02 j 08:24	3°♒43'52	19.73556 AU
conjunction	-9392 Apr 03 j 17:13	3°♒48'51	-0°57'55
minimum elong	-9392 Apr 03 j 17:13	3°♒48'52	0°58'25
morning rise	-9392 Apr 20 j 10:06	4°♒49'18	
retrograde	-9392 Jul 21 j 13:54	8°♒06'37	
opposition	-9392 Oct 03 j 04:13	6°♒04'43	-1°03'12
min. Earth dist.	-9392 Oct 04 j 07:26	6°♒01'46	17.70274 AU
direct	-9392 Dec 17 j 21:32	3°♒59'39	
evening set	-9391 Mar 22 j 23:19	7°♒22'34	
max. Earth dist.	-9391 Apr 07 j 09:25	8°♒18'32	19.66966 AU
conjunction	-9391 Apr 08 j 18:13	8°♒23'32	-0°55'27
minimum elong	-9391 Apr 08 j 18:14	8°♒23'33	0°55'57
morning rise	-9391 Apr 25 j 10:13	9°♒24'09	
retrograde	-9391 Jul 26 j 10:21	12°♒42'05	
opposition	-9391 Oct 07 j 22:29	10°♒40'08	-1°00'16
min. Earth dist.	-9391 Oct 09 j 02:56	10°♒37'02	17.63876 AU
direct	-9391 Dec 22 j 17:24	8°♒34'45	
evening set	-9390 Mar 28 j 01:26	11°♒58'57	
max. Earth dist.	-9390 Apr 12 j 08:56	12°♒54'48	19.60778 AU
conjunction	-9390 Apr 13 j 19:42	13°♒00'08	-0°52'36
minimum elong	-9390 Apr 13 j 19:42	13°♒00'08	0°53'04
morning rise	-9390 Apr 30 j 11:05	14°♒00'55	
	-9390 May 17 j 12:47	15°♒	
retrograde	-9390 Jul 31 j 08:18	17°♒19'27	
opposition	-9390 Oct 12 j 17:30	15°♒17'28	-0°56'55
min. Earth dist.	-9390 Oct 13 j 22:22	15°♒14'19	17.57905 AU
	-9390 Oct 19 j 10:06	15°℞♒	
direct	-9390 Dec 27 j 15:05	13°♒11'47	
	-9389 Mar 04 j 00:47	15°♒	
evening set	-9389 Apr 02 j 03:59	16°♒37'17	
max. Earth dist.	-9389 Apr 17 j 11:36	17°♒33'23	19.55012 AU
conjunction	-9389 Apr 18 j 21:52	17°♒38'40	-0°49'24
minimum elong	-9389 Apr 18 j 21:53	17°♒38'40	0°49'50
morning rise	-9389 May 05 j 12:16	18°♒39'36	
retrograde	-9389 Aug 05 j 06:56	21°♒58'42	
opposition	-9389 Oct 17 j 13:36	19°♒56'44	-0°53'10
min. Earth dist.	-9389 Oct 18 j 19:16	19°♒53'30	17.52341 AU
direct	-9388 Jan 01 j 12:41	17°♒50'50	
evening set	-9388 Apr 06 j 07:27	21°♒17'33	
max. Earth dist.	-9388 Apr 21 j 12:28	22°♒13'31	19.49663 AU

Attention, astronomical year style is used: The year -9388 in astronomical counting style is the year 9389 BCE in historical counting style.

conjunction	-9388 Apr 23 j 00:28	22°♒19'05	-0°45'50
minimum elong	-9388 Apr 23 j 00:28	22°♒19'05	0°46'14
morning rise	-9388 May 09 j 14:04	23°♒20'09	
retrograde	-9388 Aug 09 j 05:55	26°♒39'50	
opposition	-9388 Oct 21 j 10:35	24°♒37'53	-0°49'02
min. Earth dist.	-9388 Oct 22 j 16:53	24°♒34'34	17.47207 AU
direct	-9387 Jan 05 j 11:53	22°♒31'46	
evening set	-9387 Apr 11 j 11:17	25°♒59'39	
max. Earth dist.	-9387 Apr 26 j 16:24	26°♒55'51	19.44729 AU
conjunction	-9387 Apr 28 j 03:40	27°♒01'20	-0°41'57
minimum elong	-9387 Apr 28 j 03:40	27°♒01'20	0°42'19
morning rise	-9387 May 14 j 16:08	28°♒02'29	
	-9387 Jun 19 j 11:52	0°♓	
retrograde	-9387 Aug 14 j 05:59	1°♓22'42	
	-9387 Oct 11 j 02:46	30°℞♒	
opposition	-9387 Oct 26 j 08:40	29°♒20'47	-0°44'33
min. Earth dist.	-9387 Oct 27 j 15:12	29°♒17'26	17.42471 AU
direct	-9386 Jan 10 j 11:28	27°♒14'31	
	-9386 Apr 04 j 10:41	0°♓	
evening set	-9386 Apr 16 j 15:33	0°♓43'24	
max. Earth dist.	-9386 May 01 j 18:23	1°♓39'30	19.40194 AU
conjunction	-9386 May 03 j 06:56	1°♓45'12	-0°37'45
minimum elong	-9386 May 03 j 06:56	1°♓45'12	0°38'05
morning rise	-9386 May 19 j 18:27	2°♓46'27	
retrograde	-9386 Aug 19 j 05:22	6°♓07'10	
opposition	-9386 Oct 31 j 07:36	4°♓05'14	-0°39'43
min. Earth dist.	-9386 Nov 01 j 14:49	4°♓01'49	17.38143 AU
direct	-9385 Jan 15 j 12:42	1°♓58'48	
evening set	-9385 Apr 21 j 20:11	5°♓28'38	
max. Earth dist.	-9385 May 06 j 22:56	6°♓24'54	19.36064 AU
conjunction	-9385 May 08 j 10:45	6°♓30'31	-0°33'17
minimum elong	-9385 May 08 j 10:45	6°♓30'31	0°33'34
morning rise	-9385 May 24 j 21:05	7°♓31'49	
retrograde	-9385 Aug 24 j 05:44	10°♓52'58	
opposition	-9385 Nov 05 j 07:14	8°♓51'01	-0°34'36
min. Earth dist.	-9385 Nov 06 j 14:07	8°♓47'39	17.34207 AU
direct	-9384 Jan 20 j 15:06	6°♓44'26	
evening set	-9384 Apr 26 j 01:13	10°♓15'05	
max. Earth dist.	-9384 May 11 j 02:14	11°♓11'18	19.32340 AU
conjunction	-9384 May 12 j 14:40	11°♓17'01	-0°28'34
minimum elong	-9384 May 12 j 14:40	11°♓17'02	0°28'49
morning rise	-9384 May 28 j 23:52	12°♓18'21	
retrograde	-9384 Aug 28 j 05:01	15°♓39'54	
opposition	-9384 Nov 09 j 07:52	13°♓37'55	-0°29'13
min. Earth dist.	-9384 Nov 10 j 15:20	13°♓34'29	17.30709 AU
direct	-9383 Jan 24 j 18:08	11°♓31'11	
evening set	-9383 May 01 j 06:06	15°♓02'31	
max. Earth dist.	-9383 May 16 j 07:02	15°♓58'53	19.29075 AU
conjunction	-9383 May 17 j 18:29	16°♓04'28	-0°23'38
minimum elong	-9383 May 17 j 18:30	16°♓04'28	0°23'51
morning rise	-9383 Jun 03 j 02:30	17°♓05'48	
retrograde	-9383 Sep 02 j 05:59	20°♓27'41	
opposition	-9383 Nov 14 j 09:06	18°♓25'39	-0°23'37
min. Earth dist.	-9383 Nov 15 j 15:22	18°♓22'21	17.27675 AU
direct	-9382 Jan 29 j 23:05	16°♓18'48	
evening set	-9382 May 06 j 11:05	19°♓50'41	
max. Earth dist.	-9382 May 21 j 11:24	20°♓47'07	19.26299 AU
conjunction	-9382 May 22 j 22:20	20°♓52'38	-0°18'32
minimum elong	-9382 May 22 j 22:20	20°♓52'38	0°18'42
morning rise	-9382 Jun 08 j 05:05	21°♓53'57	
retrograde	-9382 Sep 07 j 05:21	25°♓16'05	
opposition	-9382 Nov 19 j 10:52	23°♓14'00	-0°17'50
min. Earth dist.	-9382 Nov 20 j 17:29	23°♓10'40	17.25174 AU
direct	-9381 Feb 04 j 02:55	21°♓07'03	
evening set	-9381 May 11 j 15:56	24°♓39'21	
max. Earth dist.	-9381 May 26 j 16:03	25°♓35'53	19.24086 AU
conjunction	-9381 May 28 j 01:58	25°♓41'16	-0°13'19
minimum elong	-9381 May 28 j 01:58	25°♓41'16	0°13'26
behind sun begin	-9381 May 27 j 22:13	25°♓40'41	
behind sun end	-9381 May 28 j 05:43	25°♓41'50	
morning rise	-9381 Jun 13 j 07:34	26°♓42'32	
	-9381 Aug 30 j 06:09	0°♈	
retrograde	-9381 Sep 12 j 07:07	0°♈04'53	
	-9381 Sep 25 j 11:02	30°℞♓	
opposition	-9381 Nov 24 j 13:11	28°♓02'45	-0°11'56
min. Earth dist.	-9381 Nov 25 j 17:56	27°♓59'37	17.23241 AU
direct	-9380 Feb 09 j 08:55	25°♓55'42	
evening set	-9380 May 15 j 20:31	29°♓28'17	
	-9380 May 24 j 07:09	0°♈	
max. Earth dist.	-9380 May 30 j 21:09	0°♈25'02	19.22458 AU
conjunction	-9380 Jun 01 j 05:21	0°♈30'08	-0°08'00
minimum elong	-9380 Jun 01 j 05:20	0°♈30'08	0°08'03
behind sun begin	-9380 May 31 j 23:22	0°♈29'13	
behind sun end	-9380 Jun 01 j 11:18	0°♈31'04	
morning rise	-9380 Jun 17 j 09:32	1°♈31'21	
retrograde	-9380 Sep 16 j 06:48	4°♈53'51	
opposition	-9380 Nov 28 j 16:10	2°♈51'41	-0°05'57
min. Earth dist.	-9380 Nov 29 j 20:42	2°♈48'35	17.21938 AU
direct	-9379 Feb 13 j 12:35	0°♈44'36	
evening set	-9379 May 21 j 00:51	4°♈17'20	
max. Earth dist.	-9379 Jun 05 j 01:19	5°♈14'10	19.21499 AU
conjunction	-9379 Jun 06 j 08:16	5°♈19'05	-0°02'37
minimum elong	-9379 Jun 06 j 08:16	5°♈19'05	0°02'38
behind sun begin	-9379 Jun 06 j 01:36	5°♈18'03	
behind sun end	-9379 Jun 06 j 14:55	5°♈20'07	
morning rise	-9379 Jun 22 j 11:19	6°♈20'12	
retrograde	-9379 Sep 21 j 09:25	9°♈42'49	
asc. node	-9379 Nov 28 j 15:12	7°♈54'04	
opposition	-9379 Dec 03 j 19:23	7°♈40'37	0°00'05
min. Earth dist.	-9379 Dec 04 j 21:21	7°♈37'48	17.21319 AU
direct	-9378 Feb 18 j 18:48	5°♈33'34	
evening set	-9378 May 26 j 04:37	9°♈06'19	
max. Earth dist.	-9378 Jun 10 j 06:39	10°♈03'28	19.21232 AU
conjunction	-9378 Jun 11 j 10:51	10°♈07'57	0°02'55
minimum elong	-9378 Jun 11 j 10:51	10°♈07'57	0°02'57
behind sun begin	-9378 Jun 11 j 04:13	10°♈06'55	
behind sun end	-9378 Jun 11 j 17:30	10°♈08'59	
morning rise	-9378 Jun 27 j 12:30	11°♈08'57	
retrograde	-9378 Sep 26 j 09:15	14°♈31'38	
opposition	-9378 Dec 08 j 23:07	12°♈29'27	0°06'07
min. Earth dist.	-9378 Dec 10 j 00:18	12°♈26'43	17.21409 AU
direct	-9377 Feb 23 j 22:17	10°♈22'30	
evening set	-9377 May 31 j 08:13	13°♈55'09	
max. Earth dist.	-9377 Jun 15 j 10:00	14°♈52'20	19.21692 AU
conjunction	-9377 Jun 16 j 12:57	14°♈56'38	0°08'17
minimum elong	-9377 Jun 16 j 12:57	14°♈56'38	0°08'22
behind sun begin	-9377 Jun 16 j 07:05	14°♈55'43	
behind sun end	-9377 Jun 16 j 18:48	14°♈57'33	
morning rise	-9377 Jul 02 j 13:29	15°♈57'29	
retrograde	-9377 Oct 01 j 11:45	19°♈20'13	
opposition	-9377 Dec 14 j 02:54	17°♈18'04	0°12'07
min. Earth dist.	-9377 Dec 15 j 01:15	17°♈15'39	17.22222 AU
direct	-9376 Feb 29 j 04:33	15°♈11'17	

Attention, astronomical year style is used: The year -9376 in astronomical counting style is the year 9377 BCE in historical counting style.

evening set	-9376 Jun 04 j 11:14	18°♈43'44		
conjunction	-9376 Jun 20 j 14:46	19°♈45'02	0°13'35	
minimum elong	-9376 Jun 20 j 14:46	19°♈45'02	0°13'42	
behind sun begin	-9376 Jun 20 j 11:09	19°♈44'29		
behind sun end	-9376 Jun 20 j 18:22	19°♈45'36		
max. Earth dist.	-9376 Jun 19 j 15:13	19°♈41'17	19.22865 AU	
morning rise	-9376 Jul 06 j 13:53	20°♈45'44		
retrograde	-9376 Oct 05 j 11:50	24°♈08'27		
opposition	-9376 Dec 18 j 07:17	22°♈06'24	0°18'01	
min. Earth dist.	-9376 Dec 19 j 04:18	22°♈04'08	17.23736 AU	
direct	-9375 Mar 05 j 08:32	19°♈59'51		
evening set	-9375 Jun 09 j 13:44	23°♈31'58		
conjunction	-9375 Jun 25 j 15:45	24°♈33'04	0°18'48	
minimum elong	-9375 Jun 25 j 15:45	24°♈33'04	0°18'59	
max. Earth dist.	-9375 Jun 24 j 17:36	24°♈29'32	19.24728 AU	
morning rise	-9375 Jul 11 j 13:51	25°♈33'36		
retrograde	-9375 Oct 10 j 13:54	28°♈56'17		
opposition	-9375 Dec 23 j 11:37	26°♈54'19	0°23'47	
min. Earth dist.	-9375 Dec 24 j 05:54	26°♈52'21	17.25921 AU	
direct	-9374 Mar 10 j 14:48	24°♈48'03		
evening set	-9374 Jun 14 j 15:38	28°♈19'43		
conjunction	-9374 Jun 30 j 16:30	29°♈20'37	0°23'54	
minimum elong	-9374 Jun 30 j 16:29	29°♈20'37	0°24'07	
max. Earth dist.	-9374 Jun 29 j 21:55	29°♈17'39	19.27220 AU	
	-9374 Jul 10 j 23:55	0°♉		
morning rise	-9374 Jul 16 j 13:17	0°♉20'56		
retrograde	-9374 Oct 15 j 13:41	3°♉43'31		
opposition	-9374 Dec 28 j 16:02	1°♉41'41	0°29'23	
min. Earth dist.	-9374 Dec 29 j 08:40	1°♉39'54	17.28694 AU	
	-9373 Feb 12 j 19:41	30°℞♈		
direct	-9373 Mar 15 j 19:33	29°♈35'45		
	-9373 Apr 15 j 06:21	0°♉		
evening set	-9373 Jun 19 j 17:08	3°♉06'51		
conjunction	-9373 Jul 05 j 16:30	4°♉07'30	0°28'49	
minimum elong	-9373 Jul 05 j 16:30	4°♉07'30	0°29'04	
max. Earth dist.	-9373 Jul 04 j 23:16	4°♉04'45	19.30275 AU	
morning rise	-9373 Jul 21 j 12:18	5°♉07'36		
retrograde	-9373 Oct 20 j 14:42	8°♉30'03		
opposition	-9372 Jan 02 j 20:34	6°♉28'20	0°34'45	
min. Earth dist.	-9372 Jan 03 j 10:45	6°♉26'49	17.32013 AU	
direct	-9372 Mar 20 j 01:16	4°♉22'43		
evening set	-9372 Jun 23 j 17:41	7°♉53'07		
conjunction	-9372 Jul 09 j 15:54	8°♉53'31	0°33'31	
minimum elong	-9372 Jul 09 j 15:54	8°♉53'31	0°33'49	
max. Earth dist.	-9372 Jul 09 j 02:11	8°♉51'20	19.33837 AU	
morning rise	-9372 Jul 25 j 10:29	9°♉53'23		
retrograde	-9372 Oct 24 j 14:17	13°♉15'38		
opposition	-9371 Jan 07 j 01:08	11°♉14'01	0°39'52	
min. Earth dist.	-9371 Jan 07 j 13:03	11°♉12'45	17.35799 AU	
direct	-9371 Mar 25 j 06:44	9°♉08'46		
evening set	-9371 Jun 28 j 17:42	12°♉38'21		
conjunction	-9371 Jul 14 j 14:34	13°♉38'28	0°37'58	
minimum elong	-9371 Jul 14 j 14:33	13°♉38'28	0°38'18	
max. Earth dist.	-9371 Jul 14 j 02:26	13°♉36'32	19.37847 AU	
morning rise	-9371 Jul 30 j 08:16	14°♉38'06		
	-9371 Aug 05 j 06:44	15°♉		
retrograde	-9371 Oct 29 j 13:39	18°♉00'05		
opposition	-9370 Jan 12 j 05:20	15°♉58'34	0°44'41	
min. Earth dist.	-9370 Jan 12 j 15:08	15°♉57'32	17.40028 AU	
	-9370 Feb 05 j 04:55	15°℞♉		
direct	-9370 Mar 30 j 10:59	13°♉53'39		
	-9370 May 20 j 09:53	15°♉		
evening set	-9370 Jul 03 j 16:42	17°♉22'19		
conjunction	-9370 Jul 19 j 12:31	18°♉22'08	0°42'08	
minimum elong	-9370 Jul 19 j 12:31	18°♉22'08	0°42'32	
max. Earth dist.	-9370 Jul 19 j 03:38	18°♉20'44	19.42272 AU	
morning rise	-9370 Aug 04 j 05:14	19°♉21'32		
retrograde	-9370 Nov 03 j 12:48	22°♉43'10		
opposition	-9369 Jan 17 j 09:15	20°♉41'44	0°49'10	
min. Earth dist.	-9369 Jan 17 j 16:18	20°♉41'00	17.44629 AU	
direct	-9369 Apr 04 j 15:57	18°♉37'10		
evening set	-9369 Jul 08 j 14:56	22°♉04'48		
conjunction	-9369 Jul 24 j 09:32	23°♉04'20	0°46'01	
minimum elong	-9369 Jul 24 j 09:31	23°♉04'20	0°46'25	
max. Earth dist.	-9369 Jul 24 j 02:37	23°♉03'14	19.47058 AU	
morning rise	-9369 Aug 09 j 01:27	24°♉03'28		
retrograde	-9369 Nov 08 j 10:44	27°♉24'43		
opposition	-9368 Jan 22 j 12:51	25°♉23'21	0°53'18	
min. Earth dist.	-9368 Jan 22 j 18:00	25°♉22'49	17.49605 AU	
direct	-9368 Apr 08 j 18:09	23°♉19'06		
evening set	-9368 Jul 12 j 12:07	26°♉45'38		
conjunction	-9368 Jul 28 j 05:45	27°♉44'51	0°49'33	
minimum elong	-9368 Jul 28 j 05:45	27°♉44'51	0°50'00	
max. Earth dist.	-9368 Jul 28 j 01:56	27°♉44'15	19.52219 AU	
morning rise	-9368 Aug 12 j 20:53	28°♉43'43		
	-9368 Sep 03 j 14:34	0°♊		
retrograde	-9368 Nov 12 j 09:28	2°♊04'31		
opposition	-9367 Jan 26 j 15:54	0°♊03'13	0°57'02	
min. Earth dist.	-9367 Jan 26 j 17:44	0°♊03'01	17.54936 AU	
	-9367 Jan 27 j 22:32	30°℞♉		
direct	-9367 Apr 13 j 21:46	27°♉59'18		
	-9367 Jun 22 j 22:15	0°♊		
evening set	-9367 Jul 17 j 08:13	1°♊24'36		
conjunction	-9367 Aug 02 j 00:52	2°♊23'31	0°52'44	
minimum elong	-9367 Aug 02 j 00:52	2°♊23'31	0°53'13	
max. Earth dist.	-9367 Aug 01 j 23:38	2°♊23'19	19.57728 AU	
morning rise	-9367 Aug 17 j 15:24	3°♊22'07		
retrograde	-9367 Nov 17 j 06:16	6°♊42'27		
opposition	-9366 Jan 31 j 18:25	4°♊41'10	1°00'23	
min. Earth dist.	-9366 Jan 31 j 18:27	4°♊41'10	17.60634 AU	
direct	-9366 Apr 18 j 22:13	2°♊37'36		
evening set	-9366 Jul 22 j 03:21	6°♊01'38		
conjunction	-9366 Aug 06 j 19:09	7°♊00'13	0°55'34	
minimum elong	-9366 Aug 06 j 19:09	7°♊00'13	0°56'03	
max. Earth dist.	-9366 Aug 06 j 20:47	7°♊00'28	19.63609 AU	
morning rise	-9366 Aug 22 j 09:07	7°♊58'33		
retrograde	-9366 Nov 22 j 03:49	11°♊18'20		
opposition	-9365 Feb 05 j 20:00	9°♊17'07	1°03'18	
min. Earth dist.	-9365 Feb 05 j 16:21	9°♊17'30	17.66692 AU	
direct	-9365 Apr 24 j 00:17	7°♊13'55		
evening set	-9365 Jul 26 j 21:31	10°♊36'37		
conjunction	-9365 Aug 11 j 12:31	11°♊34'54	0°58'01	
minimum elong	-9365 Aug 11 j 12:31	11°♊34'54	0°58'32	
max. Earth dist.	-9365 Aug 11 j 17:10	11°♊35'38	19.69847 AU	
morning rise	-9365 Aug 27 j 01:57	12°♊32'57		
retrograde	-9365 Nov 26 j 23:38	15°♊52'12		
opposition	-9364 Feb 10 j 21:15	13°♊51'02	1°05'49	
min. Earth dist.	-9364 Feb 10 j 15:44	13°♊51'37	17.73125 AU	
direct	-9364 Apr 27 j 23:12	11°♊48'13		
evening set	-9364 Jul 30 j 14:34	15°♊09'35		
conjunction	-9364 Aug 15 j 04:50	16°♊07'32	1°00'06	

Attention, astronomical year style is used: The year -9364 in astronomical counting style is the year 9365 BCE in historical counting style.

minimum elong	-9364 Aug 15 j 04:50	16°♊07'32	1°00'37
max. Earth dist.	-9364 Aug 15 j 12:09	16°♊08'41	19.76462 AU
morning rise	-9364 Aug 30 j 17:57	17°♊05'20	
retrograde	-9364 Nov 30 j 19:54	20°♊24'01	
opposition	-9363 Feb 14 j 21:36	18°♊22'56	1°07'53
min. Earth dist.	-9363 Feb 14 j 12:10	18°♊23'55	17.79909 AU
direct	-9363 May 02 j 23:49	16°♊20'33	
evening set	-9363 Aug 04 j 06:45	19°♊40'32	
conjunction	-9363 Aug 19 j 20:29	20°♊38'12	1°01'47
minimum elong	-9363 Aug 19 j 20:29	20°♊38'12	1°02'20
max. Earth dist.	-9363 Aug 20 j 07:02	20°♊39'50	19.83400 AU
morning rise	-9363 Sep 04 j 09:16	21°♊35'43	
retrograde	-9363 Dec 05 j 14:09	24°♊53'49	
opposition	-9362 Feb 19 j 21:10	22°♊52'52	1°09'32
min. Earth dist.	-9362 Feb 19 j 10:08	22°♊54'00	17.87002 AU
direct	-9362 May 07 j 21:21	20°♊50'56	
evening set	-9362 Aug 08 j 21:59	24°♊09'33	
conjunction	-9362 Aug 24 j 11:11	25°♊06'54	1°03'06
minimum elong	-9362 Aug 24 j 11:11	25°♊06'54	1°03'40
max. Earth dist.	-9362 Aug 24 j 23:49	25°♊08'51	19.90625 AU
morning rise	-9362 Sep 08 j 23:54	26°♊04'10	
retrograde	-9362 Dec 10 j 09:06	29°♊21'41	
opposition	-9361 Feb 24 j 19:56	27°♊20'52	1°10'45
min. Earth dist.	-9361 Feb 24 j 05:18	27°♊22'22	17.94334 AU
direct	-9361 May 12 j 19:39	25°♊19'25	
evening set	-9361 Aug 13 j 12:14	28°♊36'38	
conjunction	-9361 Aug 29 j 01:05	29°♊33'41	1°04'01
minimum elong	-9361 Aug 29 j 01:05	29°♊33'41	1°04'36
max. Earth dist.	-9361 Aug 29 j 16:57	29°♊36'08	19.98038 AU
	-9361 Sep 05 j 03:58	0°♋	
morning rise	-9361 Sep 13 j 13:37	0°♋30'42	
retrograde	-9361 Dec 15 j 01:50	3°♋47'38	
opposition	-9360 Feb 29 j 18:12	1°♋46'58	1°11'32
min. Earth dist.	-9360 Feb 29 j 02:09	1°♋48'37	18.01822 AU
	-9360 Apr 23 j 00:12	30°℞♊	
direct	-9360 May 16 j 15:49	29°♊46'00	
	-9360 Jun 08 j 19:54	0°♋	
evening set	-9360 Aug 17 j 01:47	3°♋01'50	
conjunction	-9360 Sep 01 j 14:15	3°♋58'35	1°04'33
minimum elong	-9360 Sep 01 j 14:15	3°♋58'35	1°05'09
max. Earth dist.	-9360 Sep 02 j 07:40	4°♋01'16	20.05580 AU
morning rise	-9360 Sep 17 j 02:54	4°♋55'21	
retrograde	-9360 Dec 18 j 19:25	8°♋11'42	
opposition	-9359 Mar 05 j 15:26	6°♋11'11	1°11'53
min. Earth dist.	-9359 Mar 04 j 20:16	6°♋13'08	18.09395 AU
direct	-9359 May 21 j 11:45	4°♋10'40	
evening set	-9359 Aug 21 j 14:24	7°♋25'07	
conjunction	-9359 Sep 06 j 02:46	8°♋21'36	1°04'42
minimum elong	-9359 Sep 06 j 02:46	8°♋21'36	1°05'16
max. Earth dist.	-9359 Sep 06 j 23:07	8°♋24'42	20.13147 AU
morning rise	-9359 Sep 21 j 15:27	9°♋18'08	
retrograde	-9359 Dec 23 j 10:50	12°♋33'51	
opposition	-9358 Mar 10 j 11:59	10°♋33'29	1°11'49
min. Earth dist.	-9358 Mar 09 j 15:46	10°♋35'33	18.16950 AU
direct	-9358 May 26 j 05:56	8°♋33'25	
evening set	-9358 Aug 26 j 02:23	11°♋46'30	
conjunction	-9358 Sep 10 j 14:31	12°♋42'42	1°04'29
minimum elong	-9358 Sep 10 j 14:31	12°♋42'42	1°05'03
max. Earth dist.	-9358 Sep 11 j 11:48	12°♋45'56	20.20664 AU
morning rise	-9358 Sep 26 j 03:29	13°♋39'00	
retrograde	-9358 Dec 28 j 03:11	16°♋54'07	

min. Earth dist.	-9357 Mar 14 j 08:47	14°♋56'10	18.24419 AU
opposition	-9357 Mar 15 j 07:31	14°♋53'52	1°11'19
direct	-9357 May 30 j 23:46	12°♋54'12	
evening set	-9357 Aug 30 j 13:30	16°♋05'56	
conjunction	-9357 Sep 15 j 01:43	17°♋01'53	1°03'53
minimum elong	-9357 Sep 15 j 01:44	17°♋01'53	1°04'26
max. Earth dist.	-9357 Sep 16 j 01:40	17°♋05'30	20.28054 AU
morning rise	-9357 Sep 30 j 14:51	17°♋57'58	
retrograde	-9356 Jan 01 j 17:06	21°♋12'26	
min. Earth dist.	-9356 Mar 18 j 02:45	19°♋14'42	18.31728 AU
opposition	-9356 Mar 19 j 02:23	19°♋12'18	1°10'25
direct	-9356 Jun 03 j 16:09	17°♋13'02	
evening set	-9356 Sep 02 j 23:51	20°♋23'25	
conjunction	-9356 Sep 18 j 12:04	21°♋19'07	1°02'55
minimum elong	-9356 Sep 18 j 12:04	21°♋19'07	1°03'29
max. Earth dist.	-9356 Sep 19 j 12:34	21°♋22'48	20.35269 AU
morning rise	-9356 Oct 04 j 01:44	22°♋15'00	
retrograde	-9355 Jan 05 j 08:22	25°♋28'51	
opposition	-9355 Mar 23 j 20:16	23°♋28'46	1°09'08
min. Earth dist.	-9355 Mar 22 j 18:39	23°♋31'22	18.38840 AU
direct	-9355 Jun 08 j 07:58	21°♋29'51	
evening set	-9355 Sep 07 j 09:25	24°♋38'54	
conjunction	-9355 Sep 22 j 21:57	25°♋34'23	1°01'38
minimum elong	-9355 Sep 22 j 21:57	25°♋34'23	1°02'10
max. Earth dist.	-9355 Sep 24 j 00:52	25°♋38'25	20.42257 AU
morning rise	-9355 Oct 08 j 11:58	26°♋30'05	
retrograde	-9354 Jan 09 j 20:35	29°♋43'16	
min. Earth dist.	-9354 Mar 27 j 10:40	27°♋45'55	18.45711 AU
opposition	-9354 Mar 28 j 13:02	27°♋43'15	1°07'29
direct	-9354 Jun 12 j 22:37	25°♋44'39	
evening set	-9354 Sep 11 j 18:17	28°♋52'25	
conjunction	-9354 Sep 27 j 06:57	29°♋47'40	1°00'00
minimum elong	-9354 Sep 27 j 06:58	29°♋47'40	1°00'32
max. Earth dist.	-9354 Sep 28 j 10:12	29°♋51'44	20.49018 AU
	-9354 Sep 30 j 17:31	0°♌	
morning rise	-9354 Oct 12 j 21:40	0°♌43'12	
retrograde	-9353 Jan 14 j 10:06	3°♌55'45	
min. Earth dist.	-9353 Apr 01 j 01:02	1°♌58'35	18.52364 AU
opposition	-9353 Apr 02 j 05:00	1°♌55'45	1°05'30
	-9353 Jun 07 j 11:55	30°℞♋	
direct	-9353 Jun 17 j 12:00	29°♋57'26	
	-9353 Jun 27 j 10:29	0°♌	
evening set	-9353 Sep 16 j 02:09	3°♌03'57	
conjunction	-9353 Oct 01 j 15:18	3°♌59'00	0°58'05
minimum elong	-9353 Oct 01 j 15:19	3°♌59'01	0°58'36
max. Earth dist.	-9353 Oct 02 j 21:04	4°♌03'26	20.55552 AU
morning rise	-9353 Oct 17 j 06:29	4°♌54'22	
retrograde	-9352 Jan 18 j 21:15	8°♌06'18	
opposition	-9352 Apr 05 j 20:04	6°♌06'20	1°03'10
min. Earth dist.	-9352 Apr 04 j 15:09	6°♌09'15	18.58793 AU
direct	-9352 Jun 21 j 01:13	4°♌08'18	
evening set	-9352 Sep 19 j 09:38	7°♌13'37	
conjunction	-9352 Oct 04 j 23:04	8°♌08'29	0°55'52
minimum elong	-9352 Oct 04 j 23:04	8°♌08'29	0°56'21
max. Earth dist.	-9352 Oct 06 j 05:04	8°♌12'56	20.61886 AU
morning rise	-9352 Oct 20 j 15:06	9°♌03'42	
retrograde	-9351 Jan 22 j 09:19	12°♌15'03	
min. Earth dist.	-9351 Apr 09 j 03:53	10°♌18'09	18.65040 AU
opposition	-9351 Apr 10 j 10:05	10°♌15'06	1°00'32
direct	-9351 Jun 25 j 11:48	8°♌17'19	
evening set	-9351 Sep 23 j 16:22	11°♌21'32	

Attention, astronomical year style is used: The year -9351 in astronomical counting style is the year 9352 BCE in historical counting style.

conjunction	-9351 Oct 09 j 06:27	12°♌16'15	0°53'23
minimum elong	-9351 Oct 09 j 06:28	12°♌16'15	0°53'51
max. Earth dist.	-9351 Oct 10 j 14:44	12°♌21'00	20.68023 AU
morning rise	-9351 Oct 24 j 23:05	13°♌11'20	
	-9351 Nov 28 j 22:43	15°♌	
retrograde	-9350 Jan 26 j 19:44	16°♌22'06	
	-9350 Mar 30 j 00:46	15°℞♌	
opposition	-9350 Apr 14 j 23:15	14°♌22'13	0°57'37
min. Earth dist.	-9350 Apr 13 j 16:07	14°♌25'21	18.71076 AU
direct	-9350 Jun 29 j 23:30	12°♌24'43	
	-9350 Sep 19 j 16:38	15°♌	
evening set	-9350 Sep 27 j 22:39	15°♌27'53	
conjunction	-9350 Oct 13 j 13:08	16°♌22'26	0°50'38
minimum elong	-9350 Oct 13 j 13:08	16°♌22'26	0°51'04
max. Earth dist.	-9350 Oct 14 j 21:22	16°♌27'10	20.73958 AU
morning rise	-9350 Oct 29 j 06:41	17°♌17'25	
retrograde	-9349 Jan 31 j 07:00	20°♌27'40	
min. Earth dist.	-9349 Apr 18 j 03:37	18°♌31'04	18.76908 AU
opposition	-9349 Apr 19 j 11:39	18°♌27'51	0°54'25
direct	-9349 Jul 04 j 08:05	16°♌30'38	
evening set	-9349 Oct 02 j 04:23	19°♌32'49	
conjunction	-9349 Oct 17 j 19:40	20°♌27'15	0°47'39
minimum elong	-9349 Oct 17 j 19:40	20°♌27'15	0°48'04
max. Earth dist.	-9349 Oct 19 j 05:54	20°♌32'15	20.79667 AU
morning rise	-9349 Nov 02 j 13:55	21°♌22'08	
retrograde	-9348 Feb 04 j 16:48	24°♌31'53	
opposition	-9348 Apr 22 j 23:15	22°♌32'10	0°50'58
min. Earth dist.	-9348 Apr 21 j 14:28	22°♌35'28	18.82485 AU
direct	-9348 Jul 07 j 18:12	20°♌35'15	
evening set	-9348 Oct 05 j 09:51	23°♌36'31	
conjunction	-9348 Oct 21 j 01:42	24°♌30'51	0°44'26
minimum elong	-9348 Oct 21 j 01:42	24°♌30'51	0°44'50
max. Earth dist.	-9348 Oct 22 j 11:31	24°♌35'46	20.85110 AU
morning rise	-9348 Nov 05 j 21:03	25°♌25'38	
retrograde	-9347 Feb 08 j 03:44	28°♌34'58	
min. Earth dist.	-9347 Apr 26 j 01:10	26°♌38'38	18.87775 AU
opposition	-9347 Apr 27 j 10:11	26°♌35'20	0°47'16
direct	-9347 Jul 12 j 01:42	24°♌38'40	
evening set	-9347 Oct 09 j 14:59	27°♌39'07	
conjunction	-9347 Oct 25 j 07:43	28°♌33'21	0°41'01
minimum elong	-9347 Oct 25 j 07:44	28°♌33'21	0°41'22
max. Earth dist.	-9347 Oct 26 j 19:03	28°♌38'29	20.90221 AU
morning rise	-9347 Nov 10 j 03:50	29°♌28'05	
	-9347 Nov 19 j 17:59	0°♍	
retrograde	-9346 Feb 12 j 12:43	2°♍36'58	
min. Earth dist.	-9346 Apr 30 j 10:52	0°♍40'48	18.92694 AU
opposition	-9346 May 01 j 20:13	0°♍37'27	0°43'22
	-9346 May 17 j 16:48	30°℞♌	
direct	-9346 Jul 16 j 10:13	28°♌41'03	
	-9346 Sep 10 j 23:21	0°♍	
evening set	-9346 Oct 13 j 20:02	1°♍40'45	
conjunction	-9346 Oct 29 j 13:24	2°♍34'54	0°37'24
minimum elong	-9346 Oct 29 j 13:24	2°♍34'54	0°37'44
max. Earth dist.	-9346 Oct 30 j 23:48	2°♍39'53	20.94948 AU
morning rise	-9346 Nov 14 j 10:39	3°♍29'35	
retrograde	-9345 Feb 16 j 22:58	6°♍38'06	
min. Earth dist.	-9345 May 04 j 20:53	4°♍41'57	18.97212 AU
opposition	-9345 May 06 j 05:52	4°♍38'39	0°39'15
direct	-9345 Jul 20 j 16:50	2°♍42'28	
evening set	-9345 Oct 18 j 00:38	5°♍41'28	
conjunction	-9345 Nov 02 j 19:01	6°♍35'34	0°33'37
minimum elong	-9345 Nov 02 j 19:01	6°♍35'34	0°33'54
max. Earth dist.	-9345 Nov 04 j 06:31	6°♍40'41	20.99231 AU
morning rise	-9345 Nov 18 j 17:07	7°♍30'13	
retrograde	-9344 Feb 21 j 07:22	10°♍38'22	
min. Earth dist.	-9344 May 08 j 05:52	8°♍42'17	19.01242 AU
opposition	-9344 May 09 j 14:51	8°♍38'59	0°34'58
direct	-9344 Jul 24 j 00:14	6°♍42'59	
evening set	-9344 Oct 21 j 05:29	9°♍41'22	
conjunction	-9344 Nov 06 j 00:36	10°♍35'25	0°29'41
minimum elong	-9344 Nov 06 j 00:37	10°♍35'25	0°29'57
max. Earth dist.	-9344 Nov 07 j 10:37	10°♍40'18	21.03007 AU
morning rise	-9344 Nov 21 j 23:55	11°♍30'03	
retrograde	-9343 Feb 24 j 16:23	14°♍37'51	
opposition	-9343 May 13 j 23:14	12°♍38'30	0°30'31
min. Earth dist.	-9343 May 12 j 15:16	12°♍41'42	19.04752 AU
direct	-9343 Jul 28 j 06:12	10°♍42'37	
evening set	-9343 Oct 25 j 10:03	13°♍40'27	
conjunction	-9343 Nov 10 j 06:16	14°♍34'29	0°25'37
minimum elong	-9343 Nov 10 j 06:17	14°♍34'29	0°25'50
max. Earth dist.	-9343 Nov 11 j 16:47	14°♍39'26	21.06231 AU
morning rise	-9343 Nov 26 j 06:27	15°♍29'06	
retrograde	-9342 Mar 01 j 00:28	18°♍36'35	
min. Earth dist.	-9342 May 16 j 23:22	16°♍40'25	19.07682 AU
opposition	-9342 May 18 j 07:04	16°♍37'14	0°25'57
direct	-9342 Aug 01 j 12:45	14°♍41'27	
evening set	-9342 Oct 29 j 14:30	17°♍38'45	
conjunction	-9342 Nov 14 j 11:32	18°♍32'47	0°21'26
minimum elong	-9342 Nov 14 j 11:32	18°♍32'47	0°21'37
max. Earth dist.	-9342 Nov 15 j 20:18	18°♍37'28	21.08882 AU
morning rise	-9342 Nov 30 j 12:57	19°♍27'24	
retrograde	-9341 Mar 05 j 07:53	22°♍34'36	
min. Earth dist.	-9341 May 21 j 08:06	20°♍38'15	19.10051 AU
opposition	-9341 May 22 j 14:31	20°♍35'12	0°21'16
direct	-9341 Aug 05 j 18:02	18°♍39'26	
evening set	-9341 Nov 02 j 18:50	21°♍36'18	
conjunction	-9341 Nov 18 j 17:02	22°♍30'21	0°17'11
minimum elong	-9341 Nov 18 j 17:02	22°♍30'21	0°17'20
max. Earth dist.	-9341 Nov 20 j 02:12	22°♍35'04	21.10977 AU
morning rise	-9341 Dec 04 j 19:23	23°♍24'59	
retrograde	-9340 Mar 08 j 15:49	26°♍31'54	
opposition	-9340 May 25 j 21:12	24°♍32'27	0°16'31
min. Earth dist.	-9340 May 24 j 15:12	24°♍35'27	19.11870 AU
direct	-9340 Aug 08 j 23:58	22°♍36'40	
evening set	-9340 Nov 05 j 23:17	25°♍33'10	
conjunction	-9340 Nov 21 j 22:22	26°♍27'14	0°12'51
minimum elong	-9340 Nov 21 j 22:22	26°♍27'14	0°12'57
behind sun begin	-9340 Nov 21 j 18:19	26°♍26'40	
behind sun end	-9340 Nov 22 j 02:25	26°♍27'48	
max. Earth dist.	-9340 Nov 23 j 05:37	26°♍31'41	21.12548 AU
morning rise	-9340 Dec 08 j 02:00	27°♍21'55	
	-9339 Feb 06 j 04:31	0°♎	
retrograde	-9339 Mar 12 j 22:12	0°♎28'35	
	-9339 Apr 17 j 04:34	30°℞♍	
min. Earth dist.	-9339 May 28 j 23:02	28°♍31'55	19.13198 AU
opposition	-9339 May 30 j 03:33	28°♍29'03	0°11'42
direct	-9339 Aug 13 j 03:59	26°♍33'13	
evening set	-9339 Nov 10 j 03:36	29°♍29'27	
	-9339 Nov 19 j 05:44	0°♎	
conjunction	-9339 Nov 26 j 03:52	0°♎23'33	0°08'30
minimum elong	-9339 Nov 26 j 03:52	0°♎23'33	0°08'33
behind sun begin	-9339 Nov 25 j 22:05	0°♎22'45	

Attention, astronomical year style is used: The year -9339 in astronomical counting style is the year 9340 BCE in historical counting style.

behind sun end	-9339 Nov 26 j 09:39	0°♎24'21		direct	-9333 Sep 06 j 02:59	20°♎08'44	
max. Earth dist.	-9339 Nov 27 j 11:24	0°♎28'02	21.13638 AU	evening set	-9333 Dec 04 j 10:16	23°♎05'15	
morning rise	-9339 Dec 12 j 08:22	1°♎18'16					
retrograde	-9338 Mar 17 j 05:39	4°♎24'45		conjunction	-9333 Dec 20 j 16:54	23°♎59'59	-0°17'54
min. Earth dist.	-9338 Jun 02 j 05:04	2°♎27'59	19.14060 AU	minimum elong	-9333 Dec 20 j 16:53	23°♎59'59	0°18'04
opposition	-9338 Jun 03 j 09:14	2°♎25'09	0°06'50	max. Earth dist.	-9333 Dec 21 j 17:05	24°♎03'24	21.11485 AU
direct	-9338 Aug 17 j 09:25	0°♎29'16		morning rise	-9332 Jan 06 j 03:36	24°♎55'18	
evening set	-9338 Nov 14 j 08:09	3°♎25'19		retrograde	-9332 Apr 10 j 01:10	28°♎01'46	
				opposition	-9332 Jun 26 j 14:58	26°♎02'04	-0°22'10
conjunction	-9338 Nov 30 j 09:17	4°♎19'28	0°04'07	min. Earth dist.	-9332 Jun 25 j 18:27	26°♎04'09	19.10617 AU
minimum elong	-9338 Nov 30 j 09:16	4°♎19'28	0°04'07	direct	-9332 Sep 09 j 07:18	24°♎05'47	
behind sun begin	-9338 Nov 30 j 02:44	4°♎18'34		evening set	-9332 Dec 07 j 17:02	27°♎02'40	
behind sun end	-9338 Nov 30 j 15:49	4°♎20'22					
max. Earth dist.	-9338 Dec 01 j 14:49	4°♎23'40	21.14297 AU	conjunction	-9332 Dec 24 j 00:32	27°♎57'33	-0°22'08
morning rise	-9338 Dec 16 j 15:01	5°♎14'15		minimum elong	-9332 Dec 24 j 00:32	27°♎57'33	0°22'20
retrograde	-9337 Mar 21 j 12:06	8°♎20'36		max. Earth dist.	-9332 Dec 24 j 21:38	28°♎00'31	21.09578 AU
opposition	-9337 Jun 07 j 14:46	6°♎20'56	0°01'58	morning rise	-9331 Jan 09 j 12:21	28°♎53'01	
min. Earth dist.	-9337 Jun 06 j 12:09	6°♎23'37	19.14520 AU		-9331 Jan 30 j 19:55	0°♏	
direct	-9337 Aug 21 j 12:19	4°♎24'59		retrograde	-9331 Apr 14 j 08:57	1°♏59'39	
desc. node	-9337 Nov 01 j 17:59	6°♎27'31		opposition	-9331 Jun 30 j 19:48	29°♎59'56	-0°26'49
evening set	-9337 Nov 18 j 12:37	7°♎20'56		min. Earth dist.	-9331 Jun 30 j 01:58	0°♏01'45	19.08451 AU
					-9331 Jun 30 j 19:09	30°℞♎	
conjunction	-9337 Dec 04 j 14:59	8°♎15'11	-0°00'24	direct	-9331 Sep 13 j 10:31	28°♎03'31	
minimum elong	-9337 Dec 04 j 14:59	8°♎15'11	0°00'24		-9331 Nov 22 j 17:43	0°♏	
behind sun begin	-9337 Dec 04 j 08:22	8°♎14'16		evening set	-9331 Dec 12 j 00:07	1°♏00'50	
behind sun end	-9337 Dec 04 j 21:36	8°♎16'05					
max. Earth dist.	-9337 Dec 05 j 20:42	8°♎19'23	21.14554 AU	conjunction	-9331 Dec 28 j 08:48	1°♏55'54	-0°26'17
morning rise	-9337 Dec 20 j 21:39	9°♎10'03		minimum elong	-9331 Dec 28 j 08:47	1°♏55'54	0°26'32
retrograde	-9336 Mar 24 j 19:26	12°♎16'18		max. Earth dist.	-9331 Dec 29 j 04:51	1°♏58'44	21.07138 AU
opposition	-9336 Jun 10 j 19:55	10°♎16'36	-0°02'55	morning rise	-9330 Jan 13 j 21:18	2°♏51'31	
min. Earth dist.	-9336 Jun 09 j 17:41	10°♎19'15	19.14568 AU	retrograde	-9330 Apr 18 j 17:27	5°♏58'20	
direct	-9336 Aug 24 j 17:19	8°♎20'37		min. Earth dist.	-9330 Jul 04 j 08:00	4°♏00'18	19.05728 AU
evening set	-9336 Nov 21 j 17:38	11°♎16'33		opposition	-9330 Jul 05 j 00:31	3°♏58'36	-0°31'20
				direct	-9330 Sep 17 j 15:31	2°♏02'01	
conjunction	-9336 Dec 07 j 20:54	12°♎10'53	-0°04'52	evening set	-9330 Dec 16 j 08:00	4°♏59'50	
minimum elong	-9336 Dec 07 j 20:55	12°♎10'54	0°04'55				
behind sun begin	-9336 Dec 07 j 14:26	12°♎10'00		conjunction	-9329 Jan 01 j 17:30	5°♏55'05	-0°30'19
behind sun end	-9336 Dec 08 j 03:24	12°♎11'47		minimum elong	-9329 Jan 01 j 17:30	5°♏55'05	0°30'35
max. Earth dist.	-9336 Dec 09 j 00:18	12°♎14'46	21.14410 AU	max. Earth dist.	-9329 Jan 02 j 10:05	5°♏57'25	21.04141 AU
morning rise	-9336 Dec 24 j 04:47	13°♎05'51		morning rise	-9329 Jan 18 j 07:03	6°♏50'53	
retrograde	-9335 Mar 29 j 02:32	16°♎12'05		retrograde	-9329 Apr 23 j 01:18	9°♏57'55	
min. Earth dist.	-9335 Jun 14 j 00:27	14°♎14'49	19.14227 AU	opposition	-9329 Jul 09 j 05:31	7°♏58'07	-0°35'43
opposition	-9335 Jun 15 j 00:49	14°♎12'21	-0°07'48	min. Earth dist.	-9329 Jul 08 j 15:57	7°♏59'30	19.02453 AU
direct	-9335 Aug 28 j 19:48	12°♎16'18		direct	-9329 Sep 21 j 19:12	6°♏01'16	
evening set	-9335 Nov 25 j 22:45	15°♎12'21		evening set	-9329 Dec 20 j 16:18	8°♏59'40	
conjunction	-9335 Dec 12 j 03:16	16°♎06'49	-0°09'15	conjunction	-9328 Jan 06 j 03:00	9°♏55'07	-0°34'12
minimum elong	-9335 Dec 12 j 03:16	16°♎06'49	0°09'20	minimum elong	-9328 Jan 06 j 03:00	9°♏55'07	0°34'31
behind sun begin	-9335 Dec 11 j 21:41	16°♎06'02		max. Earth dist.	-9328 Jan 06 j 18:11	9°♏57'16	21.00589 AU
behind sun end	-9335 Dec 12 j 08:51	16°♎07'35		morning rise	-9328 Jan 22 j 17:14	10°♏51'05	
max. Earth dist.	-9335 Dec 13 j 06:30	16°♎10'39	21.13866 AU	retrograde	-9328 Apr 26 j 10:38	13°♏58'21	
morning rise	-9335 Dec 28 j 11:59	17°♎01'52		opposition	-9328 Jul 12 j 10:32	11°♏58'27	-0°39'57
retrograde	-9334 Apr 02 j 09:49	20°♎08'07		min. Earth dist.	-9328 Jul 11 j 22:23	11°♏59'42	18.98616 AU
min. Earth dist.	-9334 Jun 18 j 05:50	18°♎10'49	19.13465 AU	direct	-9328 Sep 25 j 01:01	10°♏01'20	
opposition	-9334 Jun 19 j 05:35	18°♎08'24	-0°12'39	evening set	-9328 Dec 24 j 01:26	13°♏00'21	
direct	-9334 Sep 02 j 00:14	16°♎12'18					
evening set	-9334 Nov 30 j 04:15	19°♎08'32		conjunction	-9327 Jan 09 j 12:56	13°♏56'00	-0°37'56
				minimum elong	-9327 Jan 09 j 12:55	13°♏56'00	0°38'17
conjunction	-9334 Dec 16 j 09:40	20°♎03'06	-0°13'36	max. Earth dist.	-9327 Jan 10 j 00:27	13°♏57'38	20.96495 AU
minimum elong	-9334 Dec 16 j 09:39	20°♎03'06	0°13'43	morning rise	-9327 Jan 26 j 04:05	14°♏52'10	
behind sun begin	-9334 Dec 16 j 06:09	20°♎02'37			-9327 Jan 28 j 13:00	15°♏	
behind sun end	-9334 Dec 16 j 13:09	20°♎03'35		retrograde	-9327 Apr 30 j 18:44	17°♏59'40	
max. Earth dist.	-9334 Dec 17 j 10:23	20°♎06'36	21.12899 AU	opposition	-9327 Jul 16 j 15:43	15°♏59'40	-0°43'59
morning rise	-9333 Jan 01 j 19:34	20°♎58'18		min. Earth dist.	-9327 Jul 16 j 06:36	16°♏00'36	18.94279 AU
retrograde	-9333 Apr 06 j 17:25	24°♎04'39			-9327 Aug 10 j 22:14	15°℞♏	
opposition	-9333 Jun 23 j 10:26	22°♎04'55	-0°17'27	direct	-9327 Sep 29 j 05:29	14°♏02'12	
min. Earth dist.	-9333 Jun 22 j 12:51	22°♎07'07	19.12279 AU		-9327 Nov 16 j 08:14	15°♏	

Attention, astronomical year style is used: The year -9326 in astronomical counting style is the year 9327 BCE in historical counting style.

evening set	-9327 Dec 28 j 10:58	17°♏01'55		
conjunction	-9326 Jan 13 j 23:33	17°♏57'47	-0°41'29	
minimum elong	-9326 Jan 13 j 23:33	17°♏57'47	0°41'52	
max. Earth dist.	-9326 Jan 14 j 09:42	17°♏59'14	20.91933 AU	
morning rise	-9326 Jan 30 j 15:16	18°♏54'08		
retrograde	-9326 May 05 j 04:40	22°♏01'55		
opposition	-9326 Jul 20 j 21:02	20°♏01'46	-0°47'50	
min. Earth dist.	-9326 Jul 20 j 13:09	20°♏02'35	18.89500 AU	
direct	-9326 Oct 03 j 11:40	18°♏03'58		
evening set	-9325 Jan 01 j 21:08	21°♏04'26		
conjunction	-9325 Jan 18 j 10:27	22°♏00'32	-0°44'51	
minimum elong	-9325 Jan 18 j 10:27	22°♏00'32	0°45'16	
max. Earth dist.	-9325 Jan 18 j 17:11	22°♏01'29	20.86963 AU	
morning rise	-9325 Feb 04 j 03:01	22°♏57'06		
retrograde	-9325 May 09 j 13:40	26°♏05'12		
opposition	-9325 Jul 25 j 02:44	24°♏04'54	-0°51'27	
min. Earth dist.	-9325 Jul 24 j 21:46	24°♏05'25	18.84358 AU	
direct	-9325 Oct 07 j 16:56	22°♏06'42		
evening set	-9324 Jan 06 j 08:01	25°♏08'01		
conjunction	-9324 Jan 22 j 22:22	26°♏04'22	-0°48'00	
minimum elong	-9324 Jan 22 j 22:22	26°♏04'22	0°48'26	
max. Earth dist.	-9324 Jan 23 j 03:45	26°♏05'08	20.81658 AU	
morning rise	-9324 Feb 08 j 15:24	27°♏01'08		
	-9324 Apr 23 j 10:21	0°♐		
retrograde	-9324 May 13 j 00:32	0°♐09'35		
	-9324 Jun 01 j 16:34	30°℞♏		
opposition	-9324 Jul 28 j 08:28	28°♏09'09	-0°54'50	
min. Earth dist.	-9324 Jul 28 j 04:40	28°♏09'33	18.78901 AU	
direct	-9324 Oct 10 j 23:58	26°♏10'35		
evening set	-9323 Jan 09 j 19:50	29°♏12'48		
	-9323 Jan 23 j 17:06	0°♐		
conjunction	-9323 Jan 26 j 10:50	0°♐09'24	-0°50'56	
minimum elong	-9323 Jan 26 j 10:49	0°♐09'24	0°51'24	
max. Earth dist.	-9323 Jan 26 j 12:48	0°♐09'41	20.76066 AU	
morning rise	-9323 Feb 12 j 04:31	1°♐06'24		
retrograde	-9323 May 17 j 10:29	4°♐15'14		
opposition	-9323 Aug 01 j 14:52	2°♐14'40	-0°57'57	
min. Earth dist.	-9323 Aug 01 j 13:55	2°♐14'46	18.73195 AU	
direct	-9323 Oct 15 j 05:41	0°♐15'44		
evening set	-9322 Jan 14 j 08:05	3°♐18'56		
conjunction	-9322 Jan 30 j 23:58	4°♐15'48	-0°53'37	
minimum elong	-9322 Jan 30 j 23:58	4°♐15'48	0°54'06	
max. Earth dist.	-9322 Jan 31 j 00:37	4°♐15'54	20.70247 AU	
morning rise	-9322 Feb 16 j 18:00	5°♐13'01		
retrograde	-9322 May 21 j 22:54	8°♐22'18		
opposition	-9322 Aug 05 j 21:34	6°♐21'39	-1°00'49	
min. Earth dist.	-9322 Aug 05 j 21:36	6°♐21'38	18.67271 AU	
direct	-9322 Oct 19 j 14:07	4°♐22'20		
evening set	-9321 Jan 18 j 21:27	7°♐26'36		
conjunction	-9321 Feb 04 j 13:54	8°♐23'44	-0°56'03	
minimum elong	-9321 Feb 04 j 13:53	8°♐23'44	0°56'34	
max. Earth dist.	-9321 Feb 04 j 11:16	8°♐23'22	20.64227 AU	
morning rise	-9321 Feb 21 j 08:28	9°♐21'12		
retrograde	-9321 May 26 j 09:37	12°♐30'57		
opposition	-9321 Aug 10 j 04:50	10°♐30'13	-1°03'22	
min. Earth dist.	-9321 Aug 10 j 07:50	10°♐29'54	18.61169 AU	
direct	-9321 Oct 23 j 20:30	8°♐30'33		
evening set	-9320 Jan 23 j 11:36	11°♐35'58		
conjunction	-9320 Feb 09 j 04:52	12°♐33'23	-0°58'13	
minimum elong	-9320 Feb 09 j 04:52	12°♐33'23	0°58'44	
max. Earth dist.	-9320 Feb 09 j 00:40	12°♐32'47	20.58040 AU	
morning rise	-9320 Feb 25 j 23:43	13°♐31'05		
retrograde	-9320 May 29 j 23:54	16°♐41'21		
opposition	-9320 Aug 13 j 12:36	14°♐40'34	-1°05'37	
min. Earth dist.	-9320 Aug 13 j 16:45	14°♐40'08	18.54887 AU	
direct	-9320 Oct 27 j 06:28	12°♐40'34		
evening set	-9319 Jan 27 j 02:53	15°♐47'11		
conjunction	-9319 Feb 12 j 20:35	16°♐44'53	-1°00'05	
minimum elong	-9319 Feb 12 j 20:35	16°♐44'53	1°00'37	
max. Earth dist.	-9319 Feb 12 j 13:05	16°♐43'48	20.51663 AU	
morning rise	-9319 Mar 01 j 15:45	17°♐42'50		
retrograde	-9319 Jun 03 j 11:42	20°♐53'39		
opposition	-9319 Aug 17 j 21:07	18°♐52'50	-1°07'32	
min. Earth dist.	-9319 Aug 18 j 04:24	18°♐52'04	18.48428 AU	
direct	-9319 Oct 31 j 14:24	16°♐52'28		
evening set	-9318 Jan 31 j 18:59	20°♐00'22		
conjunction	-9318 Feb 17 j 13:19	20°♐58'22	-1°01'38	
minimum elong	-9318 Feb 17 j 13:19	20°♐58'22	1°02'12	
max. Earth dist.	-9318 Feb 17 j 03:56	20°♐57'00	20.45114 AU	
morning rise	-9318 Mar 06 j 08:36	21°♐56'33		
retrograde	-9318 Jun 08 j 03:19	25°♐07'57		
opposition	-9318 Aug 22 j 06:11	23°♐07'06	-1°09'06	
min. Earth dist.	-9318 Aug 22 j 14:45	23°♐06'12	18.41780 AU	
direct	-9318 Nov 05 j 01:43	21°♐06'24		
evening set	-9317 Feb 05 j 12:08	24°♐15'35		
conjunction	-9317 Feb 22 j 06:50	25°♐13'53	-1°02'52	
minimum elong	-9317 Feb 22 j 06:50	25°♐13'53	1°03'25	
max. Earth dist.	-9317 Feb 21 j 18:08	25°♐12'02	20.38355 AU	
morning rise	-9317 Mar 11 j 02:18	26°♐12'19		
retrograde	-9317 Jun 12 j 16:44	29°♐24'20		
opposition	-9317 Aug 26 j 16:13	27°♐23'26	-1°10'18	
min. Earth dist.	-9317 Aug 27 j 04:04	27°♐22'10	18.34921 AU	
direct	-9317 Nov 09 j 11:47	25°♐22'19		
evening set	-9316 Feb 10 j 06:19	28°♐32'52		
max. Earth dist.	-9316 Feb 26 j 10:26	29°♐29'15	20.31388 AU	
conjunction	-9316 Feb 27 j 01:29	29°♐31'28	-1°03'44	
minimum elong	-9316 Feb 27 j 01:29	29°♐31'28	1°04'19	
	-9316 Mar 06 j 04:21	0°♑		
morning rise	-9316 Mar 14 j 20:58	0°♑30'09		
retrograde	-9316 Jun 16 j 09:16	3°♑42'45		
opposition	-9316 Aug 30 j 02:46	1°♑41'47	-1°11'07	
min. Earth dist.	-9316 Aug 30 j 15:57	1°♑40'23	18.27848 AU	
	-9316 Oct 16 j 08:39	30°℞♐		
direct	-9316 Nov 13 j 00:52	29°♐40'16		
	-9316 Dec 10 j 13:21	0°♑		
evening set	-9315 Feb 14 j 01:30	2°♑52'11		
conjunction	-9315 Mar 02 j 20:55	3°♑51'04	-1°04'16	
minimum elong	-9315 Mar 02 j 20:55	3°♑51'04	1°04'50	
max. Earth dist.	-9315 Mar 02 j 02:43	3°♑48'23	20.24209 AU	
morning rise	-9315 Mar 19 j 16:20	4°♑50'00		
retrograde	-9315 Jun 20 j 23:56	8°♑03'12		
opposition	-9315 Sep 03 j 14:21	6°♑02'08	-1°11'31	
min. Earth dist.	-9315 Sep 04 j 06:41	6°♑00'23	18.20592 AU	
direct	-9315 Nov 17 j 13:02	4°♑00'11		
evening set	-9314 Feb 18 j 21:17	7°♑13'28		
conjunction	-9314 Mar 07 j 16:58	8°♑12'38	-1°04'25	
minimum elong	-9314 Mar 07 j 16:58	8°♑12'38	1°05'00	
max. Earth dist.	-9314 Mar 06 j 20:26	8°♑09'36	20.16885 AU	
morning rise	-9314 Mar 24 j 12:19	9°♑11'48		
retrograde	-9314 Jun 25 j 17:14	12°♑25'36		
opposition	-9314 Sep 08 j 02:30	10°♑24'25	-1°11'31	

Attention, astronomical year style is used: The year -9314 in astronomical counting style is the year 9315 BCE in historical counting style.

min. Earth dist.	-9314 Sep 08 j 19:56	10°♉22'33	18.13210 AU
direct	-9314 Nov 22 j 04:03	8°♉22'01	
evening set	-9313 Feb 23 j 18:08	11°♉36'40	
conjunction	-9313 Mar 12 j 13:59	12°♉36'08	-1°04'12
minimum elong	-9313 Mar 12 j 13:59	12°♉36'08	1°04'47
max. Earth dist.	-9313 Mar 11 j 14:56	12°♉32'43	20.09459 AU
morning rise	-9313 Mar 29 j 09:04	13°♉35'32	
retrograde	-9313 Jun 30 j 08:53	16°♉49'55	
opposition	-9313 Sep 12 j 15:25	14°♉48'37	-1°11'06
min. Earth dist.	-9313 Sep 13 j 11:48	14°♉46'25	18.05775 AU
direct	-9313 Nov 26 j 18:30	12°♉45'44	
evening set	-9312 Feb 28 j 15:50	16°♉01'47	
max. Earth dist.	-9312 Mar 15 j 10:21	16°♉57'44	20.02032 AU
conjunction	-9312 Mar 16 j 11:44	17°♉01'32	-1°03'36
minimum elong	-9312 Mar 16 j 11:45	17°♉01'32	1°04'10
morning rise	-9312 Apr 02 j 06:38	18°♉01'09	
retrograde	-9312 Jul 04 j 02:50	21°♉16'08	
opposition	-9312 Sep 16 j 05:06	19°♉14'41	-1°10'15
min. Earth dist.	-9312 Sep 17 j 02:21	19°♉12'23	17.98372 AU
direct	-9312 Nov 30 j 11:25	17°♉11'20	
evening set	-9311 Mar 04 j 14:13	20°♉28'46	
max. Earth dist.	-9311 Mar 20 j 07:05	21°♉24'44	19.94659 AU
conjunction	-9311 Mar 21 j 10:07	21°♉28'47	-1°02'38
minimum elong	-9311 Mar 21 j 10:08	21°♉28'47	1°03'11
morning rise	-9311 Apr 07 j 04:30	22°♉28'38	
retrograde	-9311 Jul 08 j 19:52	25°♉44'12	
opposition	-9311 Sep 20 j 19:46	23°♉42'37	-1°08'58
min. Earth dist.	-9311 Sep 21 j 19:25	23°♉40'04	17.91073 AU
direct	-9311 Dec 05 j 04:09	21°♉38'49	
evening set	-9310 Mar 09 j 13:24	24°♉57'38	
max. Earth dist.	-9310 Mar 25 j 03:54	25°♉53'31	19.87451 AU
conjunction	-9310 Mar 26 j 09:07	25°♉57'54	-1°01'16
minimum elong	-9310 Mar 26 j 09:07	25°♉57'55	1°01'48
morning rise	-9310 Apr 12 j 03:11	26°♉57'58	
	-9310 Jun 20 j 19:36	0°♒	
retrograde	-9310 Jul 13 j 14:50	0°♒14'08	
	-9310 Aug 05 j 14:00	30°℞♉	
opposition	-9310 Sep 25 j 11:02	28°♉12'25	-1°07'17
min. Earth dist.	-9310 Sep 26 j 11:14	28°♉09'48	17.83974 AU
direct	-9310 Dec 09 j 22:54	26°♉08'11	
evening set	-9309 Mar 14 j 13:16	29°♉28'23	
	-9309 Mar 23 j 09:26	0°♒	
max. Earth dist.	-9309 Mar 30 j 02:48	0°♒24'22	19.80458 AU
conjunction	-9309 Mar 31 j 08:55	0°♒28'55	-0°59'31
minimum elong	-9309 Mar 31 j 08:55	0°♒28'55	1°00'03
morning rise	-9309 Apr 17 j 02:18	1°♒29'10	
retrograde	-9309 Jul 18 j 09:25	4°♒45'55	
opposition	-9309 Sep 30 j 03:27	2°♒44'08	-1°05'09
min. Earth dist.	-9309 Oct 01 j 05:36	2°♒41'18	17.77120 AU
direct	-9309 Dec 14 j 17:08	0°♒39'30	
evening set	-9308 Mar 18 j 14:04	4°♒01'04	
max. Earth dist.	-9308 Apr 03 j 01:01	4°♒56'55	19.73757 AU
conjunction	-9308 Apr 04 j 09:15	5°♒01'49	-0°57'24
minimum elong	-9308 Apr 04 j 09:15	5°♒01'49	0°57'54
morning rise	-9308 Apr 21 j 02:09	6°♒02'16	
retrograde	-9308 Jul 22 j 06:16	9°♒19'37	
opposition	-9308 Oct 03 j 20:35	7°♒17'46	-1°02'36
min. Earth dist.	-9308 Oct 04 j 23:08	7°♒14'53	17.70584 AU
direct	-9308 Dec 18 j 13:41	5°♒12'47	
evening set	-9307 Mar 23 j 15:25	8°♒35'41	
max. Earth dist.	-9307 Apr 08 j 01:59	9°♒31'44	19.67385 AU
conjunction	-9307 Apr 09 j 10:22	9°♒36'40	-0°54'54
minimum elong	-9307 Apr 09 j 10:22	9°♒36'40	0°55'22
morning rise	-9307 Apr 26 j 02:24	10°♒37'17	
retrograde	-9307 Jul 27 j 02:44	13°♒55'13	
opposition	-9307 Oct 08 j 14:52	11°♒53'22	-0°59'38
min. Earth dist.	-9307 Oct 09 j 18:51	11°♒50'19	17.64393 AU
direct	-9307 Dec 23 j 09:18	9°♒48'04	
evening set	-9306 Mar 28 j 17:27	13°♒12'17	
max. Earth dist.	-9306 Apr 13 j 01:27	14°♒08'12	19.61385 AU
conjunction	-9306 Apr 14 j 11:45	14°♒13'27	-0°52'01
minimum elong	-9306 Apr 14 j 11:46	14°♒13'27	0°52'29
	-9306 Apr 27 j 04:34	15°♒	
morning rise	-9306 May 01 j 03:13	15°♒14'15	
retrograde	-9306 Aug 01 j 01:14	18°♒32'47	
opposition	-9306 Oct 13 j 09:56	16°♒30'54	-0°56'15
min. Earth dist.	-9306 Oct 14 j 14:24	16°♒27'48	17.58579 AU
	-9306 Nov 21 j 08:15	15°℞♒	
direct	-9306 Dec 28 j 07:01	14°♒25'21	
	-9305 Feb 02 j 18:26	15°♒	
evening set	-9305 Apr 02 j 20:11	17°♒50'49	
max. Earth dist.	-9305 Apr 18 j 04:05	18°♒46'57	19.55746 AU
conjunction	-9305 Apr 19 j 14:05	18°♒52'12	-0°48'47
minimum elong	-9305 Apr 19 j 14:06	18°♒52'12	0°49'12
morning rise	-9305 May 06 j 04:31	19°♒53'07	
retrograde	-9305 Aug 05 j 23:29	23°♒12'13	
opposition	-9305 Oct 18 j 06:00	21°♒10'21	-0°52'29
min. Earth dist.	-9305 Oct 19 j 11:35	21°♒07'08	17.53116 AU
direct	-9304 Jan 02 j 04:43	19°♒04'34	
evening set	-9304 Apr 06 j 23:46	22°♒31'15	
max. Earth dist.	-9304 Apr 22 j 04:54	23°♒27'13	19.50465 AU
conjunction	-9304 Apr 23 j 16:48	23°♒32'46	-0°45'12
minimum elong	-9304 Apr 23 j 16:48	23°♒32'47	0°45'36
morning rise	-9304 May 10 j 06:26	24°♒33'50	
retrograde	-9304 Aug 09 j 22:50	27°♒53'28	
opposition	-9304 Oct 22 j 03:08	25°♒51'37	-0°48'19
min. Earth dist.	-9304 Oct 23 j 09:18	25°♒48'19	17.48019 AU
direct	-9303 Jan 06 j 03:53	23°♒45'36	
evening set	-9303 Apr 12 j 03:31	27°♒13'23	
max. Earth dist.	-9303 Apr 27 j 08:41	28°♒09'35	19.45536 AU
conjunction	-9303 Apr 28 j 19:55	28°♒15'03	-0°41'18
minimum elong	-9303 Apr 28 j 19:56	28°♒15'04	0°41'40
morning rise	-9303 May 15 j 08:25	29°♒16'12	
	-9303 May 27 j 16:42	0°♓	
retrograde	-9303 Aug 14 j 22:23	2°♓36'21	
opposition	-9303 Oct 27 j 01:13	0°♓34'29	-0°43'48
min. Earth dist.	-9303 Oct 28 j 07:51	0°♓31'08	17.43263 AU
	-9303 Nov 09 j 09:11	30°℞♒	
direct	-9302 Jan 11 j 04:23	28°♒28'17	
	-9302 Mar 12 j 20:15	0°♓	
evening set	-9302 Apr 17 j 07:57	1°♓57'04	
max. Earth dist.	-9302 May 02 j 10:37	2°♓53'07	19.40963 AU
conjunction	-9302 May 03 j 23:21	2°♓58'51	-0°37'06
minimum elong	-9302 May 03 j 23:22	2°♓58'51	0°37'24
morning rise	-9302 May 20 j 10:54	4°♓00'04	
retrograde	-9302 Aug 19 j 21:33	7°♓20'41	
opposition	-9302 Nov 01 j 00:00	5°♓18'47	-0°38'58
min. Earth dist.	-9302 Nov 02 j 07:17	5°♓15'22	17.38885 AU
direct	-9301 Jan 16 j 04:59	3°♓12'22	
evening set	-9301 Apr 22 j 12:35	6°♓42'05	
max. Earth dist.	-9301 May 07 j 15:16	7°♓38'19	19.36776 AU
conjunction	-9301 May 09 j 03:11	7°♓43'56	-0°32'37

Attention, astronomical year style is used: The year -9301 in astronomical counting style is the year 9302 BCE in historical counting style.

minimum elong	-9301 May 09 j 03:12	7°♓43'56	0°32'54
morning rise	-9301 May 25 j 13:34	8°♓45'12	
retrograde	-9301 Aug 24 j 22:08	12°♓06'14	
opposition	-9301 Nov 05 j 23:43	10°♓04'18	-0°33'51
min. Earth dist.	-9301 Nov 07 j 06:46	10°♓00'54	17.34888 AU
direct	-9300 Jan 21 j 08:11	7°♓57'42	
evening set	-9300 Apr 26 j 17:29	11°♓28'12	
max. Earth dist.	-9300 May 11 j 18:22	12°♓24'22	19.32996 AU
conjunction	-9300 May 13 j 06:57	12°♓30'06	-0°27'54
minimum elong	-9300 May 13 j 06:57	12°♓30'06	0°28'08
morning rise	-9300 May 29 j 16:11	13°♓31'24	
retrograde	-9300 Aug 28 j 21:10	16°♓52'48	
opposition	-9300 Nov 10 j 00:12	14°♓50'48	-0°28'28
min. Earth dist.	-9300 Nov 11 j 07:42	14°♓47'22	17.31345 AU
direct	-9299 Jan 25 j 10:24	12°♓44'03	
evening set	-9299 May 01 j 22:20	16°♓15'13	
max. Earth dist.	-9299 May 16 j 23:23	17°♓11'34	19.29702 AU
conjunction	-9299 May 18 j 10:47	17°♓17'09	-0°22'59
minimum elong	-9299 May 18 j 10:47	17°♓17'09	0°23'10
morning rise	-9299 Jun 03 j 18:49	18°♓18'27	
retrograde	-9299 Sep 02 j 22:19	21°♓40'10	
opposition	-9299 Nov 15 j 01:15	19°♓38'06	-0°22'53
min. Earth dist.	-9299 Nov 16 j 07:37	19°♓34'47	17.28300 AU
direct	-9298 Jan 30 j 15:28	17°♓31'13	
evening set	-9298 May 07 j 03:04	21°♓02'55	
max. Earth dist.	-9298 May 22 j 03:27	21°♓59'20	19.26931 AU
conjunction	-9298 May 23 j 14:23	22°♓04'51	-0°17'54
minimum elong	-9298 May 23 j 14:23	22°♓04'51	0°18'02
morning rise	-9298 Jun 08 j 21:12	23°♓06'08	
retrograde	-9298 Sep 07 j 21:23	26°♓28'07	
opposition	-9298 Nov 20 j 02:58	24°♓26'00	-0°17'08
min. Earth dist.	-9298 Nov 21 j 09:31	24°♓22'40	17.25819 AU
direct	-9297 Feb 04 j 18:37	22°♓19'00	
evening set	-9297 May 12 j 07:46	25°♓51'08	
max. Earth dist.	-9297 May 27 j 08:14	26°♓47'42	19.24756 AU
conjunction	-9297 May 28 j 17:51	26°♓53'01	-0°12'41
minimum elong	-9297 May 28 j 17:51	26°♓53'01	0°12'46
behind sun begin	-9297 May 28 j 13:41	26°♓52'22	
behind sun end	-9297 May 28 j 22:01	26°♓53'40	
morning rise	-9297 Jun 13 j 23:28	27°♓54'16	
	-9297 Jul 22 j 00:36	0°♈	
retrograde	-9297 Sep 12 j 22:57	1°♈16'27	
	-9297 Nov 07 j 06:53	30°℞♓	
opposition	-9297 Nov 25 j 05:07	29°♓14'18	-0°11'15
min. Earth dist.	-9297 Nov 26 j 09:44	29°♓11'11	17.23947 AU
direct	-9296 Feb 10 j 00:59	27°♓07'16	
	-9296 May 05 j 13:59	0°♈	
evening set	-9296 May 16 j 12:17	0°♈39'41	
conjunction	-9296 Jun 01 j 21:07	1°♈41'30	-0°07'24
minimum elong	-9296 Jun 01 j 21:07	1°♈41'30	0°07'27
behind sun begin	-9296 Jun 01 j 15:01	1°♈40'33	
behind sun end	-9296 Jun 02 j 03:14	1°♈42'27	
max. Earth dist.	-9296 May 31 j 13:10	1°♈36'26	19.23213 AU
morning rise	-9296 Jun 18 j 01:22	2°♈42'40	
retrograde	-9296 Sep 16 j 22:29	6°♈05'03	
opposition	-9296 Nov 29 j 08:02	4°♈02'53	-0°05'17
min. Earth dist.	-9296 Nov 30 j 12:18	3°♈59'49	17.22751 AU
direct	-9295 Feb 14 j 04:38	1°♈55'50	
evening set	-9295 May 21 j 16:22	5°♈28'26	
conjunction	-9295 Jun 06 j 23:50	6°♈30'09	-0°02'02
minimum elong	-9295 Jun 06 j 23:50	6°♈30'09	0°02'02
behind sun begin	-9295 Jun 06 j 17:09	6°♈29'07	
behind sun end	-9295 Jun 07 j 06:30	6°♈31'11	
max. Earth dist.	-9295 Jun 05 j 17:21	6°♈25'18	19.22374 AU
morning rise	-9295 Jun 23 j 02:56	7°♈31'14	
retrograde	-9295 Sep 22 j 00:29	10°♈53'45	
asc. node	-9295 Oct 22 j 09:39	10°♈28'41	
opposition	-9295 Dec 04 j 11:10	8°♈51'36	0°00'43
min. Earth dist.	-9295 Dec 05 j 12:49	8°♈48'49	17.22258 AU
direct	-9294 Feb 19 j 10:35	6°♈44'37	
evening set	-9294 May 26 j 20:13	10°♈17'15	
max. Earth dist.	-9294 Jun 10 j 22:35	11°♈14'26	19.22241 AU
conjunction	-9294 Jun 12 j 02:29	11°♈18'52	0°03'28
minimum elong	-9294 Jun 12 j 02:28	11°♈18'52	0°03'31
behind sun begin	-9294 Jun 11 j 19:51	11°♈17'50	
behind sun end	-9294 Jun 12 j 09:05	11°♈19'53	
morning rise	-9294 Jun 28 j 04:09	12°♈19'50	
retrograde	-9294 Sep 27 j 00:54	15°♈42'26	
opposition	-9294 Dec 09 j 14:40	13°♈40'20	0°06'44
min. Earth dist.	-9294 Dec 10 j 15:39	13°♈37'38	17.22481 AU
direct	-9293 Feb 24 j 14:16	11°♈33'30	
evening set	-9293 May 31 j 23:49	15°♈06'05	
max. Earth dist.	-9293 Jun 16 j 02:00	16°♈03'18	19.22829 AU
conjunction	-9293 Jun 17 j 04:36	16°♈07'32	0°08'48
minimum elong	-9293 Jun 17 j 04:35	16°♈07'32	0°08'53
behind sun begin	-9293 Jun 16 j 22:52	16°♈06'39	
behind sun end	-9293 Jun 17 j 10:19	16°♈08'25	
morning rise	-9293 Jul 03 j 05:10	17°♈08'23	
retrograde	-9293 Oct 02 j 03:11	20°♈31'02	
opposition	-9293 Dec 14 j 18:31	18°♈29'01	0°12'41
min. Earth dist.	-9293 Dec 15 j 16:41	18°♈26'37	17.23406 AU
direct	-9292 Feb 29 j 19:35	16°♈22'23	
evening set	-9292 Jun 05 j 02:43	19°♈54'46	
max. Earth dist.	-9292 Jun 20 j 06:58	20°♈52'20	19.24089 AU
conjunction	-9292 Jun 21 j 06:17	20°♈56'03	0°14'05
minimum elong	-9292 Jun 21 j 06:17	20°♈56'03	0°14'14
behind sun begin	-9292 Jun 21 j 03:04	20°♈55'33	
behind sun end	-9292 Jun 21 j 09:30	20°♈56'33	
morning rise	-9292 Jul 07 j 05:26	21°♈56'44	
retrograde	-9292 Oct 06 j 04:02	25°♈19'24	
opposition	-9292 Dec 18 j 22:50	23°♈17'29	0°18'33
min. Earth dist.	-9292 Dec 19 j 19:53	23°♈15'13	17.24984 AU
direct	-9291 Mar 06 j 00:03	21°♈11'07	
evening set	-9291 Jun 10 j 05:22	24°♈43'10	
max. Earth dist.	-9291 Jun 25 j 09:19	25°♈40'44	19.25986 AU
conjunction	-9291 Jun 26 j 07:24	25°♈44'15	0°19'17
minimum elong	-9291 Jun 26 j 07:24	25°♈44'15	0°19'27
morning rise	-9291 Jul 12 j 05:32	26°♈44'45	
	-9291 Sep 25 j 01:49	0°♉	
retrograde	-9291 Oct 11 j 05:36	0°♉07'23	
	-9291 Oct 27 j 12:27	30°℞♈	
opposition	-9291 Dec 24 j 03:01	28°♈05'34	0°24'17
min. Earth dist.	-9291 Dec 24 j 21:22	28°♈03'36	17.27176 AU
direct	-9290 Mar 11 j 05:13	25°♈59'28	
evening set	-9290 Jun 15 j 07:15	29°♈31'05	
	-9290 Jun 22 j 23:28	0°♉	
conjunction	-9290 Jul 01 j 08:08	0°♉31'57	0°24'20
minimum elong	-9290 Jul 01 j 08:08	0°♉31'57	0°24'34
max. Earth dist.	-9290 Jun 30 j 13:27	0°♉28'58	19.28452 AU
morning rise	-9290 Jul 17 j 04:56	1°♉32'14	
retrograde	-9290 Oct 16 j 06:06	4°♉54'45	
opposition	-9290 Dec 29 j 07:33	2°♉53'04	0°29'50
min. Earth dist.	-9290 Dec 30 j 00:26	2°♉51'15	17.29896 AU

Attention, astronomical year style is used: The year -9289 in astronomical counting style is the year 9290 BCE in historical counting style.

direct	-9289 Mar 16 j 10:59	0°♉47'15	
evening set	-9289 Jun 20 j 08:42	4°♉18'16	
conjunction	-9289 Jul 06 j 08:04	5°♉18'53	0°29'12
minimum elong	-9289 Jul 06 j 08:04	5°♉18'53	0°29'29
max. Earth dist.	-9289 Jul 05 j 14:36	5°♉16'07	19.31427 AU
morning rise	-9289 Jul 22 j 03:52	6°♉18'58	
retrograde	-9289 Oct 21 j 06:09	9°♉41'19	
opposition	-9288 Jan 03 j 12:00	7°♉39'42	0°35'09
min. Earth dist.	-9288 Jan 04 j 02:21	7°♉38'10	17.33114 AU
direct	-9288 Mar 20 j 16:30	5°♉34'11	
evening set	-9288 Jun 24 j 09:18	9°♉04'30	
conjunction	-9288 Jul 10 j 07:33	10°♉04'51	0°33'51
minimum elong	-9288 Jul 10 j 07:32	10°♉04'51	0°34'10
max. Earth dist.	-9288 Jul 09 j 17:32	10°♉02'38	19.34872 AU
morning rise	-9288 Jul 26 j 02:08	11°♉04'42	
retrograde	-9288 Oct 25 j 05:46	14°♉26'49	
opposition	-9287 Jan 07 j 16:25	12°♉25'17	0°40'13
min. Earth dist.	-9287 Jan 08 j 04:44	12°♉23'58	17.36770 AU
direct	-9287 Mar 25 j 22:27	10°♉20'04	
evening set	-9287 Jun 29 j 09:07	13°♉49'31	
conjunction	-9287 Jul 15 j 06:01	14°♉49'36	0°38'15
minimum elong	-9287 Jul 15 j 06:00	14°♉49'36	0°38'37
max. Earth dist.	-9287 Jul 14 j 17:27	14°♉47'37	19.38744 AU
	-9287 Jul 17 j 23:25	15°♉	
morning rise	-9287 Jul 30 j 23:45	15°♉49'13	
retrograde	-9287 Oct 30 j 04:42	19°♉11'02	
opposition	-9286 Jan 12 j 20:31	17°♉09'33	0°44'58
min. Earth dist.	-9286 Jan 13 j 06:33	17°♉08'29	17.40851 AU
direct	-9286 Mar 31 j 02:37	15°♉04'37	
evening set	-9286 Jul 04 j 08:03	18°♉33'08	
conjunction	-9286 Jul 20 j 03:54	19°♉32'56	0°42'22
minimum elong	-9286 Jul 20 j 03:53	19°♉32'56	0°42'44
max. Earth dist.	-9286 Jul 19 j 18:39	19°♉31'28	19.43023 AU
morning rise	-9286 Aug 04 j 20:36	20°♉32'17	
retrograde	-9286 Nov 04 j 03:26	23°♉53'44	
opposition	-9285 Jan 18 j 00:09	21°♉52'18	0°49'23
min. Earth dist.	-9285 Jan 18 j 07:36	21°♉51'31	17.45315 AU
direct	-9285 Apr 05 j 07:21	19°♉47'40	
evening set	-9285 Jul 09 j 06:08	23°♉15'08	
conjunction	-9285 Jul 25 j 00:46	24°♉14'37	0°46'10
minimum elong	-9285 Jul 25 j 00:45	24°♉14'37	0°46'36
max. Earth dist.	-9285 Jul 24 j 17:25	24°♉13'28	19.47690 AU
morning rise	-9285 Aug 09 j 16:43	25°♉13'43	
retrograde	-9285 Nov 09 j 01:16	28°♉34'46	
opposition	-9284 Jan 23 j 03:36	26°♉33'21	0°53'26
min. Earth dist.	-9284 Jan 23 j 08:54	26°♉32'47	17.50189 AU
direct	-9284 Apr 09 j 09:44	24°♉29'01	
evening set	-9284 Jul 13 j 02:59	27°♉55'20	
conjunction	-9284 Jul 28 j 20:40	28°♉54'31	0°49'39
minimum elong	-9284 Jul 28 j 20:40	28°♉54'31	0°50'06
max. Earth dist.	-9284 Jul 28 j 16:43	28°♉53'54	19.52765 AU
morning rise	-9284 Aug 13 j 11:50	29°♉53'21	
	-9284 Aug 15 j 07:03	0°♊	
retrograde	-9284 Nov 12 j 23:35	3°♊13'57	
opposition	-9283 Jan 27 j 06:25	1°♊12'33	0°57'07
min. Earth dist.	-9283 Jan 27 j 08:26	1°♊12'20	17.55456 AU
	-9283 Feb 27 j 01:02	30°℞♉	
direct	-9283 Apr 14 j 13:09	29°♉08'33	
	-9283 May 29 j 05:53	0°♊	
evening set	-9283 Jul 17 j 22:59	2°♊33'39	

conjunction	-9283 Aug 02 j 15:39	3°♊32'31	0°52'47
minimum elong	-9283 Aug 02 j 15:39	3°♊32'31	0°53'15
max. Earth dist.	-9283 Aug 02 j 14:11	3°♊32'17	19.58235 AU
morning rise	-9283 Aug 18 j 06:12	4°♊31'05	
retrograde	-9283 Nov 17 j 19:54	7°♊51'11	
opposition	-9282 Feb 01 j 08:33	5°♊49'49	1°00'24
min. Earth dist.	-9282 Feb 01 j 08:35	5°♊49'49	17.61145 AU
direct	-9282 Apr 19 j 13:26	3°♊46'09	
evening set	-9282 Jul 22 j 17:56	7°♊10'00	
conjunction	-9282 Aug 07 j 09:46	8°♊08'33	0°55'33
minimum elong	-9282 Aug 07 j 09:46	8°♊08'33	0°56'04
max. Earth dist.	-9282 Aug 07 j 11:25	8°♊08'49	19.64130 AU
morning rise	-9282 Aug 22 j 23:44	9°♊06'51	
retrograde	-9282 Nov 22 j 17:41	12°♊26'25	
opposition	-9281 Feb 06 j 10:06	10°♊25'08	1°03'16
min. Earth dist.	-9281 Feb 06 j 06:24	10°♊25'31	17.67236 AU
direct	-9281 Apr 24 j 15:24	8°♊21'51	
evening set	-9281 Jul 27 j 11:52	11°♊44'24	
conjunction	-9281 Aug 12 j 02:52	12°♊42'38	0°57'58
minimum elong	-9281 Aug 12 j 02:52	12°♊42'38	0°58'28
max. Earth dist.	-9281 Aug 12 j 07:26	12°♊43'21	19.70416 AU
morning rise	-9281 Aug 27 j 16:20	13°♊40'40	
retrograde	-9281 Nov 27 j 12:31	16°♊59'43	
opposition	-9280 Feb 11 j 11:11	14°♊58'31	1°05'43
min. Earth dist.	-9280 Feb 11 j 05:34	14°♊59'07	17.73727 AU
direct	-9280 Apr 28 j 13:53	12°♊55'40	
evening set	-9280 Jul 31 j 04:53	16°♊16'54	
conjunction	-9280 Aug 15 j 19:13	17°♊14'50	0°59'59
minimum elong	-9280 Aug 15 j 19:12	17°♊14'50	1°00'32
max. Earth dist.	-9280 Aug 16 j 02:32	17°♊15'58	19.77094 AU
morning rise	-9280 Aug 31 j 08:20	18°♊12'35	
retrograde	-9280 Dec 01 j 09:48	21°♊31'07	
opposition	-9279 Feb 15 j 11:21	19°♊30'02	1°07'45
min. Earth dist.	-9279 Feb 15 j 01:56	19°♊31'01	17.80567 AU
direct	-9279 May 03 j 13:59	17°♊27'39	
evening set	-9279 Aug 04 j 20:55	20°♊47'32	
conjunction	-9279 Aug 20 j 10:41	21°♊45'10	1°01'39
minimum elong	-9279 Aug 20 j 10:41	21°♊45'10	1°02'12
max. Earth dist.	-9279 Aug 20 j 21:02	21°♊46'46	19.84079 AU
morning rise	-9279 Sep 04 j 23:31	22°♊42'40	
retrograde	-9279 Dec 06 j 03:23	26°♊00'39	
opposition	-9278 Feb 20 j 10:59	23°♊59'44	1°09'21
min. Earth dist.	-9278 Feb 20 j 00:01	24°♊00'52	17.87688 AU
direct	-9278 May 08 j 10:40	21°♊57'50	
evening set	-9278 Aug 09 j 12:06	25°♊16'23	
conjunction	-9278 Aug 25 j 01:19	26°♊13'42	1°02'54
minimum elong	-9278 Aug 25 j 01:19	26°♊13'42	1°03'28
max. Earth dist.	-9278 Aug 25 j 13:51	26°♊15'38	19.91310 AU
morning rise	-9278 Sep 09 j 14:01	27°♊10'57	
	-9278 Nov 08 j 00:02	0°♋	
retrograde	-9278 Dec 10 j 23:23	0°♋28'22	
	-9277 Jan 13 j 19:59	30°℞♊	
opposition	-9277 Feb 25 j 09:41	28°♊27'37	1°10'31
min. Earth dist.	-9277 Feb 24 j 19:14	28°♊29'07	17.95003 AU
direct	-9277 May 13 j 09:26	26°♊26'12	
evening set	-9277 Aug 14 j 02:27	29°♊43'24	
	-9277 Aug 18 j 16:01	0°♋	
conjunction	-9277 Aug 29 j 15:18	0°♋40'26	1°03'47
minimum elong	-9277 Aug 29 j 15:18	0°♋40'26	1°04'22
max. Earth dist.	-9277 Aug 30 j 06:48	0°♋42'50	19.98687 AU
morning rise	-9277 Sep 14 j 03:50	1°♋37'26	

Attention, astronomical year style is used: The year -9277 in astronomical counting style is the year 9278 BCE in historical counting style.

retrograde	-9277 Dec 15 j 15:46	4°♋54'18	
opposition	-9276 Mar 01 j 07:56	2°♋53'43	1°11'15
min. Earth dist.	-9276 Feb 29 j 16:15	2°♋55'19	18.02436 AU
direct	-9276 May 17 j 04:39	0°♋52'47	
evening set	-9276 Aug 17 j 15:55	4°♋08'37	
conjunction	-9276 Sep 02 j 04:24	5°♋05'21	1°04'17
minimum elong	-9276 Sep 02 j 04:24	5°♋05'21	1°04'50
max. Earth dist.	-9276 Sep 02 j 21:33	5°♋07'59	20.06147 AU
morning rise	-9276 Sep 17 j 17:03	6°♋02'06	
retrograde	-9276 Dec 19 j 10:13	9°♋18'24	
min. Earth dist.	-9275 Mar 05 j 10:26	7°♋19'52	18.09902 AU
opposition	-9275 Mar 06 j 05:11	7°♋17'57	1°11'33
direct	-9275 May 22 j 01:38	5°♋17'29	
evening set	-9275 Aug 22 j 04:39	8°♋31'57	
conjunction	-9275 Sep 06 j 17:00	9°♋28'25	1°04'23
minimum elong	-9275 Sep 06 j 17:00	9°♋28'25	1°04'58
max. Earth dist.	-9275 Sep 07 j 12:51	9°♋31'27	20.13585 AU
morning rise	-9275 Sep 22 j 05:39	10°♋24'56	
retrograde	-9275 Dec 24 j 00:56	13°♋40'37	
min. Earth dist.	-9274 Mar 10 j 05:59	11°♋42'19	18.17314 AU
opposition	-9274 Mar 11 j 01:34	11°♋40'19	1°11'26
direct	-9274 May 26 j 19:32	9°♋40'17	
evening set	-9274 Aug 26 j 16:38	12°♋53'24	
conjunction	-9274 Sep 11 j 04:46	13°♋49'35	1°04'07
minimum elong	-9274 Sep 11 j 04:46	13°♋49'35	1°04'40
max. Earth dist.	-9274 Sep 12 j 01:38	13°♋52'45	20.20948 AU
morning rise	-9274 Sep 26 j 17:43	14°♋45'53	
retrograde	-9274 Dec 28 j 17:31	18°♋00'57	
opposition	-9273 Mar 15 j 21:10	16°♋00'45	1°10'54
min. Earth dist.	-9273 Mar 14 j 22:57	16°♋03'01	18.24617 AU
direct	-9273 May 31 j 13:52	14°♋01'06	
evening set	-9273 Aug 31 j 03:35	17°♋12'51	
conjunction	-9273 Sep 15 j 15:49	18°♋08'48	1°03'29
minimum elong	-9273 Sep 15 j 15:49	18°♋08'48	1°04'03
max. Earth dist.	-9273 Sep 16 j 15:16	18°♋12'21	20.28167 AU
morning rise	-9273 Oct 01 j 04:57	19°♋04'53	
retrograde	-9272 Jan 02 j 07:07	22°♋19'20	
opposition	-9272 Mar 19 j 16:02	20°♋19'12	1°09'58
min. Earth dist.	-9272 Mar 18 j 16:59	20°♋21'33	18.31755 AU
direct	-9272 Jun 04 j 06:20	18°♋19'56	
evening set	-9272 Sep 03 j 13:56	21°♋30'19	
conjunction	-9272 Sep 19 j 02:10	22°♋26'01	1°02'30
minimum elong	-9272 Sep 19 j 02:10	22°♋26'01	1°03'03
max. Earth dist.	-9272 Sep 20 j 02:18	22°♋29'39	20.35222 AU
morning rise	-9272 Oct 04 j 15:50	23°♋21'54	
retrograde	-9271 Jan 05 j 21:39	26°♋35'42	
min. Earth dist.	-9271 Mar 23 j 08:26	24°♋38'11	18.38724 AU
opposition	-9271 Mar 24 j 09:40	24°♋35'38	1°08'39
direct	-9271 Jun 08 j 21:56	22°♋36'39	
evening set	-9271 Sep 07 j 23:20	25°♋45'44	
conjunction	-9271 Sep 23 j 11:52	26°♋41'12	1°01'11
minimum elong	-9271 Sep 23 j 11:53	26°♋41'12	1°01'43
max. Earth dist.	-9271 Sep 24 j 14:28	26°♋45'11	20.42089 AU
morning rise	-9271 Oct 09 j 01:54	27°♋36'54	
	-9271 Nov 26 j 11:17	0°♌	
retrograde	-9270 Jan 10 j 10:00	0°♌50'03	
	-9270 Feb 26 j 06:31	30°℞♋	
min. Earth dist.	-9270 Mar 28 j 00:27	28°♋52'38	18.45502 AU
opposition	-9270 Mar 29 j 02:30	28°♋50'00	1°06'59
direct	-9270 Jun 13 j 12:30	26°♋51'20	
evening set	-9270 Sep 12 j 07:59	29°♋59'06	
	-9270 Sep 12 j 14:10	0°♌	
conjunction	-9270 Sep 27 j 20:39	0°♌54'21	0°59'32
minimum elong	-9270 Sep 27 j 20:39	0°♌54'21	1°00'04
max. Earth dist.	-9270 Sep 28 j 23:49	0°♌58'24	20.48786 AU
morning rise	-9270 Oct 13 j 11:20	1°♌49'52	
retrograde	-9269 Jan 14 j 23:07	5°♌02'23	
opposition	-9269 Apr 02 j 18:22	3°♌02'21	1°04'58
min. Earth dist.	-9269 Apr 01 j 14:21	3°♌05'11	18.52127 AU
direct	-9269 Jun 18 j 02:01	1°♌03'58	
evening set	-9269 Sep 16 j 15:55	4°♌10'29	
conjunction	-9269 Oct 02 j 05:02	5°♌05'32	0°57'36
minimum elong	-9269 Oct 02 j 05:02	5°♌05'33	0°58'05
max. Earth dist.	-9269 Oct 03 j 10:43	5°♌09'57	20.55327 AU
morning rise	-9269 Oct 17 j 20:10	6°♌00'54	
retrograde	-9268 Jan 19 j 10:15	9°♌12'47	
min. Earth dist.	-9268 Apr 05 j 04:21	7°♌15'42	18.58600 AU
opposition	-9268 Apr 06 j 09:18	7°♌12'47	1°02'37
direct	-9268 Jun 21 j 14:21	5°♌14'42	
evening set	-9268 Sep 19 j 23:16	8°♌20'01	
conjunction	-9268 Oct 05 j 12:41	9°♌14'53	0°55'22
minimum elong	-9268 Oct 05 j 12:41	9°♌14'53	0°55'51
max. Earth dist.	-9268 Oct 06 j 18:44	9°♌19'20	20.61731 AU
morning rise	-9268 Oct 21 j 04:40	10°♌10'06	
retrograde	-9267 Jan 22 j 22:38	13°♌21'24	
opposition	-9267 Apr 10 j 23:20	11°♌21'27	0°59'58
min. Earth dist.	-9267 Apr 09 j 16:49	11°♌24'31	18.64934 AU
direct	-9267 Jun 26 j 02:04	9°♌23'38	
evening set	-9267 Sep 24 j 06:01	12°♌27'51	
conjunction	-9267 Oct 09 j 20:03	13°♌22'34	0°52'52
minimum elong	-9267 Oct 09 j 20:03	13°♌22'34	0°53'18
max. Earth dist.	-9267 Oct 11 j 04:21	13°♌27'19	20.67971 AU
morning rise	-9267 Oct 25 j 12:36	14°♌17'38	
	-9267 Nov 07 j 03:33	15°♌	
retrograde	-9266 Jan 27 j 08:57	17°♌28'22	
min. Earth dist.	-9266 Apr 14 j 05:07	15°♌31'39	18.71082 AU
opposition	-9266 Apr 15 j 12:23	15°♌28'30	0°57'02
	-9266 Apr 27 j 10:41	15°℞♌	
direct	-9266 Jun 30 j 12:24	13°♌31'00	
	-9266 Aug 29 j 15:36	15°♌	
evening set	-9266 Sep 28 j 12:19	16°♌34'10	
conjunction	-9266 Oct 14 j 02:47	17°♌28'43	0°50'06
minimum elong	-9266 Oct 14 j 02:47	17°♌28'43	0°50'33
max. Earth dist.	-9266 Oct 15 j 11:07	17°♌33'28	20.74028 AU
morning rise	-9266 Oct 29 j 20:18	18°♌23'41	
retrograde	-9265 Jan 31 j 20:21	21°♌33'54	
min. Earth dist.	-9265 Apr 18 j 16:32	19°♌37'21	18.77032 AU
opposition	-9265 Apr 20 j 00:50	19°♌34'07	0°53'49
direct	-9265 Jul 04 j 22:16	17°♌36'54	
evening set	-9265 Oct 02 j 18:00	20°♌39'06	
conjunction	-9265 Oct 18 j 09:15	21°♌33'32	0°47'06
minimum elong	-9265 Oct 18 j 09:15	21°♌33'32	0°47'31
max. Earth dist.	-9265 Oct 19 j 19:36	21°♌38'33	20.79845 AU
morning rise	-9265 Nov 03 j 03:29	22°♌28'24	
retrograde	-9264 Feb 05 j 06:25	25°♌38'08	
min. Earth dist.	-9264 Apr 22 j 03:46	23°♌41'45	18.82701 AU
opposition	-9264 Apr 23 j 12:33	23°♌38'27	0°50'21
direct	-9264 Jul 08 j 07:33	21°♌41'33	
evening set	-9264 Oct 05 j 23:37	24°♌42'50	
conjunction	-9264 Oct 21 j 15:26	25°♌37'09	0°43'53
minimum elong	-9264 Oct 21 j 15:26	25°♌37'09	0°44'16

Attention, astronomical year style is used: The year -9264 in astronomical counting style is the year 9265 BCE in historical counting style.

max. Earth dist.	-9264 Oct 23 j 01:18	25°♌42'05	20.85362 AU
morning rise	-9264 Nov 06 j 10:44	26°♌31'57	
retrograde	-9263 Feb 08 j 16:45	29°♌41'14	
opposition	-9263 Apr 27 j 23:25	27°♌41'39	0°46'39
min. Earth dist.	-9263 Apr 26 j 14:22	27°♌44'57	18.88048 AU
direct	-9263 Jul 12 j 15:26	25°♌45'01	
evening set	-9263 Oct 10 j 04:50	28°♌45'29	
conjunction	-9263 Oct 25 j 21:31	29°♌39'43	0°40'27
minimum elong	-9263 Oct 25 j 21:32	29°♌39'43	0°40'48
max. Earth dist.	-9263 Oct 27 j 08:50	29°♌44'50	20.90509 AU
	-9263 Oct 31 j 17:22	0°♍	
morning rise	-9263 Nov 10 j 17:36	0°♍34'26	
retrograde	-9262 Feb 13 j 02:18	3°♍43'18	
min. Earth dist.	-9262 May 01 j 00:35	1°♍47'08	18.92981 AU
opposition	-9262 May 02 j 09:42	1°♍43'49	0°42'43
	-9262 Jun 24 j 14:37	30°℞♌	
direct	-9262 Jul 16 j 23:54	29°♌47'27	
	-9262 Aug 08 j 00:55	0°♍	
evening set	-9262 Oct 14 j 09:50	2°♍47'09	
conjunction	-9262 Oct 30 j 03:10	3°♍41'18	0°36'50
minimum elong	-9262 Oct 30 j 03:10	3°♍41'18	0°37'08
max. Earth dist.	-9262 Oct 31 j 13:30	3°♍46'15	20.95222 AU
morning rise	-9262 Nov 15 j 00:21	4°♍35'58	
retrograde	-9261 Feb 17 j 11:51	7°♍44'28	
min. Earth dist.	-9261 May 05 j 10:39	5°♍48'20	18.97461 AU
opposition	-9261 May 06 j 19:29	5°♍45'03	0°38'36
direct	-9261 Jul 21 j 06:16	3°♍48'54	
evening set	-9261 Oct 18 j 14:41	6°♍47'54	
conjunction	-9261 Nov 03 j 09:01	7°♍42'00	0°33'02
minimum elong	-9261 Nov 03 j 09:01	7°♍42'00	0°33'20
max. Earth dist.	-9261 Nov 04 j 20:16	7°♍47'05	20.99441 AU
morning rise	-9261 Nov 19 j 07:03	8°♍36'38	
retrograde	-9260 Feb 21 j 20:44	11°♍44'46	
min. Earth dist.	-9260 May 08 j 19:56	9°♍48'41	19.01408 AU
opposition	-9260 May 10 j 04:30	9°♍45'25	0°34'19
direct	-9260 Jul 24 j 14:05	7°♍49'26	
evening set	-9260 Oct 21 j 19:31	10°♍47'49	
conjunction	-9260 Nov 06 j 14:37	11°♍41'52	0°29'06
minimum elong	-9260 Nov 06 j 14:37	11°♍41'52	0°29'20
max. Earth dist.	-9260 Nov 08 j 00:16	11°♍46'42	21.03118 AU
morning rise	-9260 Nov 22 j 13:52	12°♍36'29	
retrograde	-9259 Feb 25 j 05:45	15°♍44'17	
min. Earth dist.	-9259 May 13 j 05:19	13°♍48'07	19.04804 AU
opposition	-9259 May 14 j 13:03	13°♍44'57	0°29'52
direct	-9259 Jul 28 j 19:30	11°♍49'04	
evening set	-9259 Oct 26 j 00:01	14°♍46'53	
conjunction	-9259 Nov 10 j 20:11	15°♍40'55	0°25'02
minimum elong	-9259 Nov 10 j 20:11	15°♍40'55	0°25'15
max. Earth dist.	-9259 Nov 12 j 06:23	15°♍45'49	21.06223 AU
morning rise	-9259 Nov 26 j 20:18	16°♍35'32	
retrograde	-9258 Mar 01 j 13:33	19°♍43'00	
opposition	-9258 May 18 j 20:50	17°♍43'39	0°25'19
min. Earth dist.	-9258 May 17 j 13:30	17°♍46'48	19.07619 AU
direct	-9258 Aug 02 j 02:39	15°♍47'52	
evening set	-9258 Oct 30 j 04:31	18°♍45'10	
conjunction	-9258 Nov 15 j 01:30	19°♍39'12	0°20'52
minimum elong	-9258 Nov 15 j 01:30	19°♍39'12	0°21'02
max. Earth dist.	-9258 Nov 16 j 09:59	19°♍43'50	21.08780 AU
morning rise	-9258 Dec 01 j 02:52	20°♍33'49	
retrograde	-9257 Mar 05 j 22:07	23°♍41'01	
min. Earth dist.	-9257 May 21 j 21:55	21°♍44'38	19.09915 AU
opposition	-9257 May 23 j 04:14	21°♍41'36	0°20'39
direct	-9257 Aug 06 j 07:24	19°♍45'49	
evening set	-9257 Nov 03 j 08:43	22°♍42'42	
conjunction	-9257 Nov 19 j 06:53	23°♍36'45	0°16'37
minimum elong	-9257 Nov 19 j 06:53	23°♍36'45	0°16'45
max. Earth dist.	-9257 Nov 20 j 15:54	23°♍41'27	21.10821 AU
morning rise	-9257 Dec 05 j 09:11	24°♍31'23	
retrograde	-9256 Mar 09 j 04:57	27°♍38'18	
min. Earth dist.	-9256 May 25 j 05:03	25°♍41'51	19.11705 AU
opposition	-9256 May 26 j 10:58	25°♍38'51	0°15'54
direct	-9256 Aug 09 j 13:26	23°♍43'04	
evening set	-9256 Nov 06 j 13:11	26°♍39'36	
conjunction	-9256 Nov 22 j 12:12	27°♍33'40	0°12'19
minimum elong	-9256 Nov 22 j 12:12	27°♍33'40	0°12'24
behind sun begin	-9256 Nov 22 j 07:51	27°♍33'04	
behind sun end	-9256 Nov 22 j 16:32	27°♍34'16	
max. Earth dist.	-9256 Nov 23 j 19:24	27°♍38'06	21.12387 AU
morning rise	-9256 Dec 08 j 15:44	28°♍28'20	
	-9255 Jan 07 j 13:04	0°♎	
retrograde	-9255 Mar 13 j 12:56	1°♎35'03	
	-9255 May 20 j 11:56	30°℞♍	
opposition	-9255 May 30 j 17:10	29°♍35'31	0°11'06
min. Earth dist.	-9255 May 29 j 12:29	29°♍38'24	19.13055 AU
direct	-9255 Aug 13 j 17:35	27°♍39'43	
	-9255 Oct 30 j 15:17	0°♎	
evening set	-9255 Nov 10 j 17:29	0°♎35'59	
conjunction	-9255 Nov 26 j 17:40	1°♎30'06	0°07'58
minimum elong	-9255 Nov 26 j 17:40	1°♎30'06	0°08'01
behind sun begin	-9255 Nov 26 j 11:45	1°♎29'17	
behind sun end	-9255 Nov 26 j 23:35	1°♎30'55	
max. Earth dist.	-9255 Nov 28 j 01:18	1°♎34'36	21.13522 AU
morning rise	-9255 Dec 12 j 22:06	2°♎24'49	
retrograde	-9254 Mar 17 j 19:25	5°♎31'21	
opposition	-9254 Jun 03 j 23:00	3°♎31'47	0°06'16
min. Earth dist.	-9254 Jun 02 j 18:40	3°♎34'39	19.13979 AU
direct	-9254 Aug 17 j 22:23	1°♎35'58	
evening set	-9254 Nov 14 j 21:52	4°♎32'03	
conjunction	-9254 Nov 30 j 22:56	5°♎26'13	0°03'36
minimum elong	-9254 Nov 30 j 22:57	5°♎26'13	0°03'38
behind sun begin	-9254 Nov 30 j 16:22	5°♎25'19	
behind sun end	-9254 Dec 01 j 05:31	5°♎27'08	
max. Earth dist.	-9254 Dec 02 j 04:41	5°♎30'26	21.14253 AU
morning rise	-9254 Dec 17 j 04:38	6°♎21'01	
retrograde	-9253 Mar 22 j 02:43	9°♎27'27	
min. Earth dist.	-9253 Jun 07 j 01:41	7°♎30'33	19.14514 AU
opposition	-9253 Jun 08 j 04:39	7°♎27'49	0°01'24
direct	-9253 Aug 22 j 02:11	5°♎31'57	
desc. node	-9253 Sep 20 j 09:57	5°♎54'03	
evening set	-9253 Nov 19 j 02:28	8°♎27'58	
conjunction	-9253 Dec 05 j 04:48	9°♎22'14	-0°00'55
minimum elong	-9253 Dec 05 j 04:47	9°♎22'14	0°00'56
behind sun begin	-9253 Dec 04 j 22:09	9°♎21'19	
behind sun end	-9253 Dec 05 j 11:25	9°♎23'08	
max. Earth dist.	-9253 Dec 06 j 10:42	9°♎26'28	21.14587 AU
morning rise	-9253 Dec 21 j 11:22	10°♎17'06	
retrograde	-9252 Mar 25 j 09:58	13°♎23'26	
min. Earth dist.	-9252 Jun 10 j 07:25	11°♎26'28	19.14639 AU
opposition	-9252 Jun 11 j 09:46	11°♎23'49	-0°03'28
direct	-9252 Aug 25 j 06:26	9°♎27'55	
evening set	-9252 Nov 22 j 07:30	12°♎23'56	
conjunction	-9252 Dec 08 j 10:44	13°♎18'17	-0°05'21

Attention, astronomical year style is used: The year -9252 in astronomical counting style is the year 9253 BCE in historical counting style.

minimum elong	-9252 Dec 08 j 10:44	13°♎18'17	0°05'24
behind sun begin	-9252 Dec 08 j 04:18	13°♎17'24	
behind sun end	-9252 Dec 08 j 17:09	13°♎19'10	
max. Earth dist.	-9252 Dec 09 j 14:20	13°♎22'11	21.14515 AU
morning rise	-9252 Dec 24 j 18:32	14°♎13'15	
retrograde	-9251 Mar 29 j 16:42	17°♎19'35	
opposition	-9251 Jun 15 j 14:53	15°♎19'56	-0°08'20
min. Earth dist.	-9251 Jun 14 j 14:19	15°♎22'25	19.14356 AU
direct	-9251 Aug 29 j 09:36	13°♎23'59	
evening set	-9251 Nov 26 j 12:37	16°♎20'06	
conjunction	-9251 Dec 12 j 17:02	17°♎14'34	-0°09'43
minimum elong	-9251 Dec 12 j 17:02	17°♎14'34	0°09'49
behind sun begin	-9251 Dec 12 j 11:36	17°♎13'49	
behind sun end	-9251 Dec 12 j 22:27	17°♎15'18	
max. Earth dist.	-9251 Dec 13 j 20:30	17°♎18'26	21.14011 AU
morning rise	-9251 Dec 29 j 01:40	18°♎09'38	
retrograde	-9250 Apr 03 j 00:37	21°♎15'59	
opposition	-9250 Jun 19 j 19:43	19°♎16'21	-0°13'10
min. Earth dist.	-9250 Jun 18 j 20:01	19°♎18'45	19.13619 AU
direct	-9250 Sep 02 j 14:01	17°♎20'21	
evening set	-9250 Nov 30 j 18:24	20°♎16'39	
conjunction	-9250 Dec 16 j 23:43	21°♎11'14	-0°14'03
minimum elong	-9250 Dec 16 j 23:43	21°♎11'14	0°14'12
behind sun begin	-9250 Dec 16 j 20:35	21°♎10'48	
behind sun end	-9250 Dec 17 j 02:50	21°♎11'40	
max. Earth dist.	-9250 Dec 18 j 00:28	21°♎14'44	21.13052 AU
morning rise	-9249 Jan 02 j 09:32	22°♎06'25	
retrograde	-9249 Apr 07 j 07:26	25°♎12'51	
min. Earth dist.	-9249 Jun 23 j 03:07	23°♎15'23	19.12420 AU
opposition	-9249 Jun 24 j 00:35	23°♎13'13	-0°17'56
direct	-9249 Sep 06 j 16:48	21°♎17'06	
evening set	-9249 Dec 05 j 00:32	24°♎13'41	
conjunction	-9249 Dec 21 j 07:05	25°♎08'25	-0°18'20
minimum elong	-9249 Dec 21 j 07:05	25°♎08'24	0°18'31
max. Earth dist.	-9249 Dec 22 j 07:09	25°♎11'48	21.11597 AU
morning rise	-9248 Jan 06 j 17:43	26°♎03'44	
retrograde	-9248 Apr 10 j 15:49	29°♎10'16	
min. Earth dist.	-9248 Jun 26 j 09:07	27°♎12'40	19.10688 AU
opposition	-9248 Jun 27 j 05:20	27°♎10'37	-0°22'39
direct	-9248 Sep 09 j 21:39	25°♎14'23	
evening set	-9248 Dec 08 j 07:26	28°♎11'18	
conjunction	-9248 Dec 24 j 14:51	29°♎06'11	-0°22'33
minimum elong	-9248 Dec 24 j 14:51	29°♎06'11	0°22'46
max. Earth dist.	-9248 Dec 25 j 11:37	29°♎09'07	21.09594 AU
	-9247 Jan 09 j 14:31	0°♏	
morning rise	-9247 Jan 10 j 02:34	0°♏01'40	
retrograde	-9247 Apr 14 j 23:16	3°♏08'20	
opposition	-9247 Jul 01 j 10:10	1°♏08'38	-0°27'15
min. Earth dist.	-9247 Jun 30 j 16:34	1°♏10'26	19.08405 AU
	-9247 Jul 31 j 09:41	30°℞♎	
direct	-9247 Sep 14 j 00:50	29°♎12'13	
	-9247 Oct 27 j 14:45	0°♏	
evening set	-9247 Dec 12 j 14:39	2°♏09'34	
conjunction	-9247 Dec 28 j 23:16	3°♏04'37	-0°26'39
minimum elong	-9247 Dec 28 j 23:15	3°♏04'37	0°26'54
max. Earth dist.	-9247 Dec 29 j 18:55	3°♏07'24	21.07023 AU
morning rise	-9246 Jan 14 j 11:42	4°♏00'15	
retrograde	-9246 Apr 19 j 07:52	7°♏07'04	
opposition	-9246 Jul 05 j 15:02	5°♏07'19	-0°31'44
min. Earth dist.	-9246 Jul 04 j 22:48	5°♏08'59	19.05540 AU
direct	-9246 Sep 18 j 06:03	3°♏10'42	
evening set	-9246 Dec 16 j 22:26	6°♏08'30	

conjunction	-9245 Jan 02 j 07:54	7°♏03'44	-0°30'39
minimum elong	-9245 Jan 02 j 07:54	7°♏03'44	0°30'56
max. Earth dist.	-9245 Jan 03 j 00:04	7°♏06'01	21.03882 AU
morning rise	-9245 Jan 18 j 21:25	7°♏59'32	
retrograde	-9245 Apr 23 j 15:56	11°♏06'34	
opposition	-9245 Jul 09 j 20:07	9°♏06'41	-0°36'05
min. Earth dist.	-9245 Jul 09 j 06:40	9°♏08'04	19.02120 AU
direct	-9245 Sep 22 j 09:58	7°♏09'47	
evening set	-9245 Dec 21 j 06:46	10°♏08'08	
conjunction	-9244 Jan 06 j 17:25	11°♏03'35	-0°34'30
minimum elong	-9244 Jan 06 j 17:25	11°♏03'35	0°34'48
max. Earth dist.	-9244 Jan 07 j 08:20	11°♏05'41	21.00197 AU
morning rise	-9244 Jan 23 j 07:36	11°♏59'33	
	-9244 Apr 10 j 10:19	15°♏	
retrograde	-9244 Apr 27 j 00:47	15°♏06'46	
	-9244 May 13 j 17:06	15°℞♏	
opposition	-9244 Jul 13 j 01:00	13°♏06'47	-0°40'15
min. Earth dist.	-9244 Jul 12 j 13:00	13°♏08'01	18.98174 AU
direct	-9244 Sep 25 j 15:43	11°♏09'35	
evening set	-9244 Dec 24 j 15:49	14°♏08'33	
	-9243 Jan 08 j 21:42	15°♏	
conjunction	-9243 Jan 10 j 03:16	15°♏04'12	-0°38'11
minimum elong	-9243 Jan 10 j 03:16	15°♏04'12	0°38'32
max. Earth dist.	-9243 Jan 10 j 14:41	15°♏05'48	20.96022 AU
morning rise	-9243 Jan 26 j 18:24	16°♏00'21	
retrograde	-9243 May 01 j 09:12	19°♏07'50	
opposition	-9243 Jul 17 j 06:15	17°♏07'42	-0°44'15
min. Earth dist.	-9243 Jul 16 j 21:03	17°♏08'39	18.93782 AU
direct	-9243 Sep 29 j 20:11	15°♏10'09	
evening set	-9243 Dec 29 j 01:07	18°♏09'48	
conjunction	-9242 Jan 14 j 13:39	19°♏05'41	-0°41'42
minimum elong	-9242 Jan 14 j 13:38	19°♏05'41	0°42'05
max. Earth dist.	-9242 Jan 14 j 23:58	19°♏07'09	20.91426 AU
morning rise	-9242 Jan 31 j 05:19	20°♏02'02	
retrograde	-9242 May 05 j 18:42	23°♏09'48	
opposition	-9242 Jul 21 j 11:33	21°♏09'32	-0°48'02
min. Earth dist.	-9242 Jul 21 j 03:35	21°♏10'22	18.88997 AU
direct	-9242 Oct 04 j 02:37	19°♏11'39	
evening set	-9241 Jan 02 j 11:21	22°♏12'04	
conjunction	-9241 Jan 19 j 00:37	23°♏08'10	-0°45'01
minimum elong	-9241 Jan 19 j 00:37	23°♏08'10	0°45'25
max. Earth dist.	-9241 Jan 19 j 07:34	23°♏09'10	20.86474 AU
morning rise	-9241 Feb 04 j 17:08	24°♏04'44	
retrograde	-9241 May 10 j 03:41	27°♏12'50	
opposition	-9241 Jul 25 j 17:08	25°♏12'27	-0°51'36
min. Earth dist.	-9241 Jul 25 j 11:57	25°♏12'59	18.83897 AU
direct	-9241 Oct 08 j 07:34	23°♏14'11	
evening set	-9240 Jan 06 j 22:11	26°♏15'29	
conjunction	-9240 Jan 23 j 12:29	27°♏11'50	-0°48'07
minimum elong	-9240 Jan 23 j 12:29	27°♏11'50	0°48'34
max. Earth dist.	-9240 Jan 23 j 18:13	27°♏12'39	20.81227 AU
morning rise	-9240 Feb 09 j 05:28	28°♏08'36	
	-9240 Mar 17 j 09:33	0°♐	
retrograde	-9240 May 13 j 14:28	1°♐17'04	
	-9240 Jul 11 j 04:23	30°℞♏	
opposition	-9240 Jul 28 j 23:00	29°♏16'35	-0°54'56
min. Earth dist.	-9240 Jul 28 j 19:00	29°♏17'00	18.78509 AU
direct	-9240 Oct 11 j 14:44	27°♏17'59	
	-9239 Jan 04 j 07:10	0°♐	
evening set	-9239 Jan 10 j 09:54	0°♐20'13	
conjunction	-9239 Jan 27 j 00:49	1°♐16'49	-0°51'01

Attention, astronomical year style is used: The year -9239 in astronomical counting style is the year 9240 BCE in historical counting style.

minimum elong	-9239 Jan 27 j 00:49	1°♐16'49	0°51'28
max. Earth dist.	-9239 Jan 27 j 03:08	1°♐17'09	20.75712 AU
morning rise	-9239 Feb 12 j 18:28	2°♐13'49	
retrograde	-9239 May 18 j 00:28	5°♐22'42	
opposition	-9239 Aug 02 j 05:21	3°♐22'08	-0°58'01
min. Earth dist.	-9239 Aug 02 j 04:06	3°♐22'15	18.72886 AU
direct	-9239 Oct 15 j 20:36	1°♐23'11	
evening set	-9238 Jan 14 j 22:13	4°♐26'26	
conjunction	-9238 Jan 31 j 14:05	5°♐23'18	-0°53'39
minimum elong	-9238 Jan 31 j 14:04	5°♐23'18	0°54'09
max. Earth dist.	-9238 Jan 31 j 15:06	5°♐23'27	20.69981 AU
morning rise	-9238 Feb 17 j 08:05	6°♐20'31	
retrograde	-9238 May 22 j 12:36	9°♐29'53	
opposition	-9238 Aug 06 j 12:02	7°♐29'14	-1°00'49
min. Earth dist.	-9238 Aug 06 j 11:55	7°♐29'15	18.67046 AU
direct	-9238 Oct 20 j 04:15	5°♐29'58	
evening set	-9237 Jan 19 j 11:33	8°♐34'18	
conjunction	-9237 Feb 05 j 03:59	9°♐31'27	-0°56'03
minimum elong	-9237 Feb 05 j 03:58	9°♐31'27	0°56'33
max. Earth dist.	-9237 Feb 05 j 01:34	9°♐31'06	20.64038 AU
morning rise	-9237 Feb 21 j 22:34	10°♐28'55	
retrograde	-9237 May 27 j 00:24	13°♐38'47	
opposition	-9237 Aug 10 j 19:26	11°♐38'05	-1°03'20
min. Earth dist.	-9237 Aug 10 j 22:16	11°♐37'47	18.61001 AU
direct	-9237 Oct 24 j 11:29	9°♐38'28	
evening set	-9236 Jan 24 j 01:47	12°♐43'58	
conjunction	-9236 Feb 09 j 19:02	13°♐41'24	-0°58'09
minimum elong	-9236 Feb 09 j 19:02	13°♐41'24	0°58'41
max. Earth dist.	-9236 Feb 09 j 15:01	13°♐40'49	20.57885 AU
morning rise	-9236 Feb 26 j 13:50	14°♐39'07	
retrograde	-9236 May 30 j 13:48	17°♐49'30	
opposition	-9236 Aug 14 j 03:09	15°♐48'47	-1°05'32
min. Earth dist.	-9236 Aug 14 j 07:18	15°♐48'21	18.54733 AU
direct	-9236 Oct 27 j 20:20	13°♐48'50	
evening set	-9235 Jan 27 j 17:10	16°♐55'33	
conjunction	-9235 Feb 13 j 10:49	17°♐53'16	-0°59'59
minimum elong	-9235 Feb 13 j 10:49	17°♐53'16	1°00'31
max. Earth dist.	-9235 Feb 13 j 03:14	17°♐52'10	20.51500 AU
morning rise	-9235 Mar 02 j 06:00	18°♐51'14	
retrograde	-9235 Jun 04 j 03:06	22°♐02'11	
opposition	-9235 Aug 18 j 11:49	20°♐01'25	-1°07'24
min. Earth dist.	-9235 Aug 18 j 19:06	20°♐00'39	18.48239 AU
direct	-9235 Nov 01 j 04:56	18°♐01'07	
evening set	-9234 Feb 01 j 09:10	21°♐09'05	
conjunction	-9234 Feb 18 j 03:30	22°♐07'06	-1°01'29
minimum elong	-9234 Feb 18 j 03:29	22°♐07'06	1°02'01
max. Earth dist.	-9234 Feb 17 j 18:03	22°♐05'44	20.44882 AU
morning rise	-9234 Mar 06 j 22:47	23°♐05'19	
retrograde	-9234 Jun 08 j 17:57	26°♐16'50	
opposition	-9234 Aug 22 j 21:00	24°♐16'01	-1°08'55
min. Earth dist.	-9234 Aug 23 j 05:39	24°♐15'06	18.41493 AU
direct	-9234 Nov 05 j 16:02	22°♐15'20	
evening set	-9233 Feb 06 j 02:29	25°♐24'36	
conjunction	-9233 Feb 22 j 21:10	26°♐22'54	-1°02'39
minimum elong	-9233 Feb 22 j 21:10	26°♐22'54	1°03'13
max. Earth dist.	-9233 Feb 22 j 08:05	26°♐21'00	20.38003 AU
morning rise	-9233 Mar 11 j 16:39	27°♐21'22	
	-9233 May 08 j 01:35	0°♑	
retrograde	-9233 Jun 13 j 07:46	0°♑33'28	
	-9233 Jul 19 j 20:48	30°℞♐	
opposition	-9233 Aug 27 j 06:58	28°♐32'33	-1°10'03
min. Earth dist.	-9233 Aug 27 j 18:57	28°♐31'17	18.34499 AU
direct	-9233 Nov 10 j 02:06	26°♐31'27	
evening set	-9232 Feb 10 j 20:41	29°♐42'02	
	-9232 Feb 16 j 01:37	0°♑	
conjunction	-9232 Feb 27 j 15:51	0°♑40'38	-1°03'29
minimum elong	-9232 Feb 27 j 15:51	0°♑40'38	1°04'03
max. Earth dist.	-9232 Feb 27 j 00:35	0°♑38'24	20.30895 AU
morning rise	-9232 Mar 15 j 11:20	1°♑39'20	
retrograde	-9232 Jun 17 j 00:01	4°♑52'01	
opposition	-9232 Aug 30 j 17:37	2°♑50'59	-1°10'48
min. Earth dist.	-9232 Aug 31 j 06:53	2°♑49'34	18.27282 AU
direct	-9232 Nov 13 j 15:42	0°♑49'26	
evening set	-9231 Feb 14 j 15:44	4°♑01'21	
conjunction	-9231 Mar 03 j 11:07	5°♑00'15	-1°03'58
minimum elong	-9231 Mar 03 j 11:07	5°♑00'15	1°04'32
max. Earth dist.	-9231 Mar 02 j 16:40	4°♑57'32	20.23580 AU
morning rise	-9231 Mar 20 j 06:33	5°♑59'11	
retrograde	-9231 Jun 21 j 14:17	9°♑12'26	
opposition	-9231 Sep 04 j 05:06	7°♑11'17	-1°11'09
min. Earth dist.	-9231 Sep 04 j 21:29	7°♑09'32	18.19907 AU
direct	-9231 Nov 18 j 03:35	5°♑09'15	
evening set	-9230 Feb 19 j 11:35	8°♑22'31	
max. Earth dist.	-9230 Mar 07 j 10:46	9°♑18'40	20.16159 AU
conjunction	-9230 Mar 08 j 07:17	9°♑21'42	-1°04'04
minimum elong	-9230 Mar 08 j 07:17	9°♑21'42	1°04'39
morning rise	-9230 Mar 25 j 02:38	10°♑20'53	
retrograde	-9230 Jun 26 j 07:29	13°♑34'42	
opposition	-9230 Sep 08 j 17:03	11°♑33'24	-1°11'06
min. Earth dist.	-9230 Sep 09 j 10:30	11°♑31'31	18.12454 AU
direct	-9230 Nov 22 j 19:16	9°♑30'53	
evening set	-9229 Feb 24 j 08:22	12°♑45'30	
max. Earth dist.	-9229 Mar 12 j 05:08	13°♑41'33	20.08688 AU
conjunction	-9229 Mar 13 j 04:13	13°♑44'59	-1°03'49
minimum elong	-9229 Mar 13 j 04:13	13°♑44'59	1°04'23
morning rise	-9229 Mar 29 j 23:21	14°♑44'24	
retrograde	-9229 Jun 30 j 22:44	17°♑58'47	
opposition	-9229 Sep 13 j 06:02	15°♑57'20	-1°10'39
min. Earth dist.	-9229 Sep 14 j 02:19	15°♑55'09	18.05000 AU
direct	-9229 Nov 27 j 08:58	13°♑54'20	
evening set	-9228 Feb 29 j 05:57	17°♑10'21	
max. Earth dist.	-9228 Mar 16 j 00:48	18°♑06'22	20.01265 AU
conjunction	-9228 Mar 17 j 01:52	18°♑10'06	-1°03'11
minimum elong	-9228 Mar 17 j 01:53	18°♑10'06	1°03'45
morning rise	-9228 Apr 02 j 20:46	19°♑09'44	
retrograde	-9228 Jul 04 j 17:13	22°♑24'42	
opposition	-9228 Sep 16 j 19:36	20°♑23'07	-1°09'46
min. Earth dist.	-9228 Sep 17 j 16:36	20°♑20'51	17.97629 AU
direct	-9228 Dec 01 j 02:45	18°♑19'39	
evening set	-9227 Mar 05 j 04:20	21°♑37'03	
max. Earth dist.	-9227 Mar 20 j 21:27	22°♑33'04	19.93955 AU
conjunction	-9227 Mar 22 j 00:15	22°♑37'05	-1°02'10
minimum elong	-9227 Mar 22 j 00:15	22°♑37'05	1°02'43
morning rise	-9227 Apr 07 j 18:41	23°♑36'56	
retrograde	-9227 Jul 09 j 09:41	26°♑52'30	
opposition	-9227 Sep 21 j 10:16	24°♑50'48	-1°08'27
min. Earth dist.	-9227 Sep 22 j 09:38	24°♑48'16	17.90421 AU
direct	-9227 Dec 05 j 18:08	22°♑46'53	
evening set	-9226 Mar 10 j 03:21	26°♑05'41	
conjunction	-9226 Mar 26 j 23:08	27°♑05'58	-1°00'47
minimum elong	-9226 Mar 26 j 23:08	27°♑05'58	1°01'19

Attention, astronomical year style is used: The year -9226 in astronomical counting style is the year 9227 BCE in historical counting style.

max. Earth dist.	-9226 Mar 25 j 18:28	27°♉01'39	19.86857 AU	
morning rise	-9226 Apr 12 j 17:15	28°♉06'02		
	-9226 May 18 j 12:44	0°♒		
retrograde	-9226 Jul 14 j 05:37	1°♒22'12		
	-9226 Sep 10 j 13:45	30°℞♉		
opposition	-9226 Sep 26 j 01:37	29°♉20'25	-1°06'43	
min. Earth dist.	-9226 Sep 27 j 01:24	29°♉17'50	17.83444 AU	
direct	-9226 Dec 10 j 13:28	27°♉16'06		
	-9225 Mar 04 j 15:55	0°♒		
evening set	-9225 Mar 15 j 03:19	0°♒36'17		
conjunction	-9225 Mar 31 j 22:59	1°♒36'49	-0°59'00	
minimum elong	-9225 Mar 31 j 22:59	1°♒36'49	0°59'31	
max. Earth dist.	-9225 Mar 30 j 17:19	1°♒32'20	19.80002 AU	
morning rise	-9225 Apr 17 j 16:26	2°♒37'05		
retrograde	-9225 Jul 18 j 23:49	5°♒53'51		
opposition	-9225 Sep 30 j 17:58	3°♒52'01	-1°04'34	
min. Earth dist.	-9225 Oct 01 j 19:48	3°♒49'13	17.76740 AU	
direct	-9225 Dec 15 j 07:01	1°♒47'21		
evening set	-9224 Mar 19 j 04:10	5°♒08'56		
conjunction	-9224 Apr 04 j 23:25	6°♒09'41	-0°56'51	
minimum elong	-9224 Apr 04 j 23:26	6°♒09'41	0°57'21	
max. Earth dist.	-9224 Apr 03 j 15:49	6°♒04'53	19.73460 AU	
morning rise	-9224 Apr 21 j 16:24	7°♒10'09		
retrograde	-9224 Jul 22 j 21:01	10°♒27'33		
opposition	-9224 Oct 04 j 11:13	8°♒25'41	-1°01'59	
min. Earth dist.	-9224 Oct 05 j 13:21	8°♒22'50	17.70359 AU	
direct	-9224 Dec 19 j 03:45	6°♒20'43		
evening set	-9223 Mar 24 j 05:29	9°♒43'38		
max. Earth dist.	-9223 Apr 08 j 16:36	10°♒39'46	19.67233 AU	
conjunction	-9223 Apr 10 j 00:28	10°♒44'38	-0°54'19	
minimum elong	-9223 Apr 10 j 00:28	10°♒44'38	0°54'49	
morning rise	-9223 Apr 26 j 16:35	11°♒45'16		
	-9223 Jul 16 j 21:39	15°♒		
retrograde	-9223 Jul 27 j 17:18	15°♒03'16		
	-9223 Aug 07 j 15:59	15°℞♒		
opposition	-9223 Oct 09 j 05:33	13°♒01'25	-0°58'59	
min. Earth dist.	-9223 Oct 10 j 09:21	12°♒58'24	17.64298 AU	
direct	-9223 Dec 23 j 23:27	10°♒56'11		
evening set	-9222 Mar 29 j 07:47	14°♒20'26		
	-9222 Apr 09 j 05:01	15°♒		
max. Earth dist.	-9222 Apr 13 j 16:15	15°♒16'26	19.61340 AU	
conjunction	-9222 Apr 15 j 02:09	15°♒21'38	-0°51'25	
minimum elong	-9222 Apr 15 j 02:09	15°♒21'38	0°51'52	
morning rise	-9222 May 01 j 17:40	16°♒22'26		
retrograde	-9222 Aug 01 j 15:49	19°♒41'03		
opposition	-9222 Oct 14 j 00:35	17°♒39'12	-0°55'34	
min. Earth dist.	-9222 Oct 15 j 04:52	17°♒36'08	17.58568 AU	
direct	-9222 Dec 28 j 21:41	15°♒33'42		
evening set	-9221 Apr 03 j 10:41	18°♒59'15		
max. Earth dist.	-9221 Apr 18 j 18:47	19°♒55'25	19.55755 AU	
conjunction	-9221 Apr 20 j 04:38	20°♒00'38	-0°48'10	
minimum elong	-9221 Apr 20 j 04:38	20°♒00'38	0°48'35	
morning rise	-9221 May 06 j 19:07	21°♒01'34		
retrograde	-9221 Aug 06 j 14:04	24°♒20'45		
opposition	-9221 Oct 18 j 20:53	22°♒18'56	-0°51'46	
min. Earth dist.	-9221 Oct 20 j 02:29	22°♒15'42	17.53132 AU	
direct	-9220 Jan 02 j 19:17	20°♒13'13		
evening set	-9220 Apr 07 j 14:18	23°♒39'56		
max. Earth dist.	-9220 Apr 22 j 19:32	24°♒35'56	19.50472 AU	
conjunction	-9220 Apr 24 j 07:21	24°♒41'29	-0°44'33	
minimum elong	-9220 Apr 24 j 07:22	24°♒41'29	0°44'56	
morning rise	-9220 May 10 j 21:03	25°♒42'33		
retrograde	-9220 Aug 10 j 13:43	29°♒02'16		
opposition	-9220 Oct 22 j 18:03	27°♒00'27	-0°47'35	
min. Earth dist.	-9220 Oct 24 j 00:08	26°♒57'10	17.48010 AU	
direct	-9219 Jan 06 j 19:12	24°♒54'29		
evening set	-9219 Apr 12 j 18:13	28°♒22'19		
max. Earth dist.	-9219 Apr 27 j 23:21	29°♒18'30	19.45499 AU	
conjunction	-9219 Apr 29 j 10:40	29°♒24'00	-0°40'38	
minimum elong	-9219 Apr 29 j 10:41	29°♒24'00	0°40'59	
	-9219 May 09 j 02:49	0°♓		
morning rise	-9219 May 15 j 23:13	0°♓25'10		
retrograde	-9219 Aug 15 j 13:14	3°♓45'23		
opposition	-9219 Oct 27 j 16:06	1°♓43'32	-0°43'03	
min. Earth dist.	-9219 Oct 28 j 22:53	1°♓40'10	17.43197 AU	
	-9219 Dec 13 j 03:57	30°℞♒		
direct	-9218 Jan 11 j 18:31	29°♒37'21		
	-9218 Feb 10 j 03:47	0°♓		
evening set	-9218 Apr 17 j 22:35	3°♓06'11		
max. Earth dist.	-9218 May 03 j 01:09	4°♓02'13	19.40861 AU	
conjunction	-9218 May 04 j 14:04	4°♓07'59	-0°36'25	
minimum elong	-9218 May 04 j 14:05	4°♓07'59	0°36'44	
morning rise	-9218 May 21 j 01:44	5°♓09'13		
retrograde	-9218 Aug 20 j 13:12	8°♓29'54		
opposition	-9218 Nov 01 j 14:59	6°♓28'00	-0°38'13	
min. Earth dist.	-9218 Nov 02 j 22:14	6°♓24'35	17.38744 AU	
direct	-9217 Jan 16 j 20:13	4°♓21'36		
evening set	-9217 Apr 23 j 03:12	7°♓51'20		
max. Earth dist.	-9217 May 08 j 05:54	8°♓47'34	19.36600 AU	
conjunction	-9217 May 09 j 17:53	8°♓53'12	-0°31'56	
minimum elong	-9217 May 09 j 17:54	8°♓53'12	0°32'11	
morning rise	-9217 May 26 j 04:19	9°♓54'30		
retrograde	-9217 Aug 25 j 12:58	13°♓15'34		
opposition	-9217 Nov 06 j 14:36	11°♓13'37	-0°33'05	
min. Earth dist.	-9217 Nov 07 j 21:45	11°♓10'13	17.34681 AU	
direct	-9216 Jan 21 j 22:00	9°♓07'02		
evening set	-9216 Apr 27 j 08:07	12°♓37'33		
max. Earth dist.	-9216 May 12 j 08:56	13°♓33'42	19.32770 AU	
conjunction	-9216 May 13 j 21:39	13°♓39'28	-0°27'13	
minimum elong	-9216 May 13 j 21:40	13°♓39'28	0°27'27	
morning rise	-9216 May 30 j 07:00	14°♓40'47		
retrograde	-9216 Aug 29 j 12:39	18°♓02'13		
opposition	-9216 Nov 10 j 15:04	16°♓00'12	-0°27'43	
min. Earth dist.	-9216 Nov 11 j 22:26	15°♓56'47	17.31103 AU	
direct	-9215 Jan 26 j 01:16	13°♓53'26		
evening set	-9215 May 02 j 12:45	17°♓24'36		
max. Earth dist.	-9215 May 17 j 14:01	18°♓20'59	19.29453 AU	
conjunction	-9215 May 19 j 01:19	18°♓26'33	-0°22'19	
minimum elong	-9215 May 19 j 01:19	18°♓26'33	0°22'29	
morning rise	-9215 Jun 04 j 09:27	19°♓27'52		
retrograde	-9215 Sep 03 j 12:55	22°♓49'37		
opposition	-9215 Nov 15 j 16:06	20°♓47'32	-0°22'09	
min. Earth dist.	-9215 Nov 16 j 22:23	20°♓44'13	17.28049 AU	
direct	-9214 Jan 31 j 05:37	18°♓40'38		
evening set	-9214 May 07 j 17:36	22°♓12'20		
max. Earth dist.	-9214 May 22 j 18:02	23°♓08'45	19.26692 AU	
conjunction	-9214 May 24 j 04:58	23°♓14'16	-0°17'15	
minimum elong	-9214 May 24 j 04:58	23°♓14'16	0°17'22	
morning rise	-9214 Jun 09 j 11:52	24°♓15'34		
retrograde	-9214 Sep 08 j 12:17	27°♓37'34		
opposition	-9214 Nov 20 j 17:40	25°♓35'26	-0°16'25	
min. Earth dist.	-9214 Nov 21 j 23:59	25°♓32'08	17.25601 AU	

Attention, astronomical year style is used: The year -9213 in astronomical counting style is the year 9214 BCE in historical counting style.

direct	-9213 Feb 05 j 09:41	23°♓28'25	
evening set	-9213 May 12 j 22:20	27°♓00'34	
max. Earth dist.	-9213 May 27 j 23:08	27°♓57'11	19.24568 AU
conjunction	-9213 May 29 j 08:29	28°♓02'27	-0°12'03
minimum elong	-9213 May 29 j 08:29	28°♓02'27	0°12'09
behind sun begin	-9213 May 29 j 03:59	28°♓01'46	
behind sun end	-9213 May 29 j 12:59	28°♓03'09	
morning rise	-9213 Jun 14 j 14:09	29°♓03'42	
	-9213 Jun 30 j 06:51	0°♈	
retrograde	-9213 Sep 13 j 13:32	2°♈25'56	
opposition	-9213 Nov 25 j 19:55	0°♈23'45	-0°10'33
min. Earth dist.	-9213 Nov 27 j 00:17	0°♈20'40	17.23799 AU
	-9213 Dec 04 j 23:29	30°℞♓	
direct	-9212 Feb 10 j 15:21	28°♓16'43	
	-9212 Apr 15 j 00:34	0°♈	
evening set	-9212 May 17 j 02:47	1°♈49'08	
max. Earth dist.	-9212 Jun 01 j 03:52	2°♈45'56	19.23111 AU
conjunction	-9212 Jun 02 j 11:40	2°♈50'58	-0°06'47
minimum elong	-9212 Jun 02 j 11:40	2°♈50'58	0°06'49
behind sun begin	-9212 Jun 02 j 05:26	2°♈50'00	
behind sun end	-9212 Jun 02 j 17:53	2°♈51'56	
morning rise	-9212 Jun 18 j 15:58	3°♈52'09	
retrograde	-9212 Sep 17 j 13:19	7°♈14'34	
opposition	-9212 Nov 29 j 22:49	5°♈12'24	-0°04'36
min. Earth dist.	-9212 Dec 01 j 02:45	5°♈09'22	17.22701 AU
direct	-9211 Feb 14 j 19:07	3°♈05'22	
evening set	-9211 May 22 j 07:04	6°♈37'59	
max. Earth dist.	-9211 Jun 06 j 08:23	7°♈34'54	19.22379 AU
conjunction	-9211 Jun 07 j 14:36	7°♈39'43	-0°01'26
minimum elong	-9211 Jun 07 j 14:36	7°♈39'43	0°01'26
behind sun begin	-9211 Jun 07 j 07:55	7°♈38'40	
behind sun end	-9211 Jun 07 j 21:17	7°♈40'45	
morning rise	-9211 Jun 23 j 17:44	8°♈40'48	
asc. node	-9211 Sep 13 j 01:47	12°♈00'43	
retrograde	-9211 Sep 22 j 15:46	12°♈03'21	
opposition	-9211 Dec 05 j 01:51	10°♈01'13	0°01'23
min. Earth dist.	-9211 Dec 06 j 03:16	9°♈58'28	17.22316 AU
direct	-9210 Feb 20 j 01:05	7°♈54'17	
evening set	-9210 May 27 j 11:01	11°♈26'58	
conjunction	-9210 Jun 12 j 17:20	12°♈28'35	0°04'03
minimum elong	-9210 Jun 12 j 17:20	12°♈28'35	0°04'06
behind sun begin	-9210 Jun 12 j 10:45	12°♈27'33	
behind sun end	-9210 Jun 12 j 23:54	12°♈29'36	
max. Earth dist.	-9210 Jun 11 j 13:29	12°♈24'09	19.22349 AU
morning rise	-9210 Jun 28 j 19:05	13°♈29'34	
retrograde	-9210 Sep 27 j 15:51	16°♈52'12	
opposition	-9210 Dec 10 j 05:34	14°♈50'09	0°07'22
min. Earth dist.	-9210 Dec 11 j 06:23	14°♈47'28	17.22629 AU
direct	-9209 Feb 25 j 04:30	12°♈43'22	
evening set	-9209 Jun 01 j 14:42	16°♈16'00	
conjunction	-9209 Jun 17 j 19:31	17°♈17'28	0°09'22
minimum elong	-9209 Jun 17 j 19:31	17°♈17'28	0°09'28
behind sun begin	-9209 Jun 17 j 13:58	17°♈16'36	
behind sun end	-9209 Jun 18 j 01:04	17°♈18'19	
max. Earth dist.	-9209 Jun 16 j 17:03	17°♈13'15	19.23007 AU
morning rise	-9209 Jul 03 j 20:08	18°♈18'18	
retrograde	-9209 Oct 02 j 18:44	21°♈41'00	
opposition	-9209 Dec 15 j 09:30	19°♈39'03	0°13'18
min. Earth dist.	-9209 Dec 16 j 07:34	19°♈36'40	17.23602 AU
direct	-9208 Mar 01 j 10:45	17°♈32'29	
evening set	-9208 Jun 05 j 17:52	21°♈04'55	
conjunction	-9208 Jun 21 j 21:28	22°♈06'12	0°14'37
minimum elong	-9208 Jun 21 j 21:28	22°♈06'12	0°14'46
behind sun begin	-9208 Jun 21 j 18:44	22°♈05'47	
behind sun end	-9208 Jun 22 j 00:13	22°♈06'38	
max. Earth dist.	-9208 Jun 20 j 22:02	22°♈02'28	19.24293 AU
morning rise	-9208 Jul 07 j 20:41	23°♈06'53	
retrograde	-9208 Oct 06 j 19:02	26°♈29'35	
opposition	-9208 Dec 19 j 13:55	24°♈27'45	0°19'08
min. Earth dist.	-9208 Dec 20 j 11:06	24°♈25'28	17.25186 AU
direct	-9207 Mar 06 j 14:36	22°♈21'25	
evening set	-9207 Jun 10 j 20:35	25°♈53'31	
conjunction	-9207 Jun 26 j 22:41	26°♈54'37	0°19'47
minimum elong	-9207 Jun 26 j 22:41	26°♈54'37	0°19'59
max. Earth dist.	-9207 Jun 26 j 00:25	26°♈51'04	19.26169 AU
morning rise	-9207 Jul 12 j 20:52	27°♈55'07	
	-9207 Aug 19 j 08:35	0°♉	
retrograde	-9207 Oct 11 j 21:20	1°♉17'46	
	-9207 Dec 07 j 06:51	30°℞♈	
opposition	-9207 Dec 24 j 18:18	29°♈16'01	0°24'50
min. Earth dist.	-9207 Dec 25 j 12:47	29°♈14'02	17.27329 AU
direct	-9206 Mar 11 j 21:00	27°♈09'57	
	-9206 Jun 04 j 12:48	0°♉	
evening set	-9206 Jun 15 j 22:41	0°♉41'35	
conjunction	-9206 Jul 01 j 23:36	1°♉42'28	0°24'48
minimum elong	-9206 Jul 01 j 23:36	1°♉42'28	0°25'02
max. Earth dist.	-9206 Jul 01 j 04:36	1°♉39'27	19.28565 AU
morning rise	-9206 Jul 17 j 20:24	2°♉42'46	
retrograde	-9206 Oct 16 j 21:09	6°♉05'18	
opposition	-9206 Dec 29 j 22:52	4°♉03'39	0°30'20
min. Earth dist.	-9206 Dec 30 j 16:06	4°♉01'48	17.29967 AU
direct	-9205 Mar 17 j 01:40	1°♉57'51	
evening set	-9205 Jun 21 j 00:20	5°♉28'54	
conjunction	-9205 Jul 06 j 23:44	6°♉29'32	0°29'37
minimum elong	-9205 Jul 06 j 23:44	6°♉29'32	0°29'54
max. Earth dist.	-9205 Jul 06 j 05:54	6°♉26'41	19.31450 AU
morning rise	-9205 Jul 22 j 19:34	7°♉29'37	
retrograde	-9205 Oct 21 j 22:20	10°♉51'59	
opposition	-9204 Jan 04 j 03:25	8°♉50'23	0°35'36
min. Earth dist.	-9204 Jan 04 j 18:00	8°♉48'50	17.33085 AU
direct	-9204 Mar 21 j 07:47	6°♉44'52	
evening set	-9204 Jun 25 j 00:52	10°♉15'12	
conjunction	-9204 Jul 10 j 23:10	11°♉15'34	0°34'14
minimum elong	-9204 Jul 10 j 23:10	11°♉15'34	0°34'33
max. Earth dist.	-9204 Jul 10 j 08:50	11°♉13'18	19.34791 AU
morning rise	-9204 Jul 26 j 17:47	12°♉15'25	
	-9204 Sep 19 j 00:51	15°♉	
retrograde	-9204 Oct 25 j 21:33	15°♉37'33	
	-9204 Dec 03 j 00:06	15°℞♉	
opposition	-9203 Jan 08 j 07:52	13°♉36'00	0°40'36
min. Earth dist.	-9203 Jan 08 j 20:33	13°♉34'40	17.36638 AU
direct	-9203 Mar 26 j 13:09	11°♉30'47	
	-9203 Jun 29 j 23:06	15°♉	
evening set	-9203 Jun 30 j 00:50	15°♉00'16	
conjunction	-9203 Jul 15 j 21:46	16°♉00'22	0°38'34
minimum elong	-9203 Jul 15 j 21:46	16°♉00'22	0°38'55
max. Earth dist.	-9203 Jul 15 j 08:51	15°♉58'19	19.38568 AU
morning rise	-9203 Jul 31 j 15:34	16°♉59'59	
retrograde	-9203 Oct 30 j 20:43	20°♉21'48	
opposition	-9202 Jan 13 j 11:48	18°♉20'18	0°45'18
min. Earth dist.	-9202 Jan 13 j 22:05	18°♉19'12	17.40636 AU
direct	-9202 Mar 31 j 18:00	16°♉15'20	
evening set	-9202 Jul 04 j 23:44	19°♉43'53	

Attention, astronomical year style is used: The year -9202 in astronomical counting style is the year 9203 BCE in historical counting style.

conjunction	-9202 Jul 20 j 19:39	20°♉43'42	0°42'38
minimum elong	-9202 Jul 20 j 19:39	20°♉43'42	0°43'02
max. Earth dist.	-9202 Jul 20 j 10:17	20°♉42'13	19.42781 AU
morning rise	-9202 Aug 05 j 12:24	21°♉43'03	
retrograde	-9202 Nov 04 j 19:14	25°♉04'30	
opposition	-9201 Jan 18 j 15:34	23°♉03'02	0°49'39
min. Earth dist.	-9201 Jan 18 j 23:18	23°♉02'14	17.45053 AU
direct	-9201 Apr 05 j 22:50	20°♉58'23	
evening set	-9201 Jul 09 j 21:41	24°♉25'53	
conjunction	-9201 Jul 25 j 16:21	25°♉25'23	0°46'23
minimum elong	-9201 Jul 25 j 16:21	25°♉25'22	0°46'49
max. Earth dist.	-9201 Jul 25 j 08:58	25°♉24'13	19.47422 AU
morning rise	-9201 Aug 10 j 08:22	26°♉24'29	
retrograde	-9201 Nov 09 j 16:50	29°♉45'32	
opposition	-9200 Jan 23 j 18:59	27°♉44'06	0°53'39
min. Earth dist.	-9200 Jan 24 j 00:18	27°♉43'32	17.49926 AU
direct	-9200 Apr 10 j 01:30	25°♉39'44	
evening set	-9200 Jul 13 j 18:35	29°♉06'05	
	-9200 Jul 28 j 02:54	0°♊	
conjunction	-9200 Jul 29 j 12:19	0°♊05'17	0°49'48
minimum elong	-9200 Jul 29 j 12:19	0°♊05'17	0°50'16
max. Earth dist.	-9200 Jul 29 j 08:34	0°♊04'41	19.52522 AU
morning rise	-9200 Aug 14 j 03:30	1°♊04'07	
retrograde	-9200 Nov 13 j 14:43	4°♊24'43	
opposition	-9199 Jan 27 j 21:42	2°♊23'19	0°57'15
min. Earth dist.	-9199 Jan 27 j 23:46	2°♊23'06	17.55249 AU
direct	-9199 Apr 15 j 04:38	0°♊19'17	
evening set	-9199 Jul 18 j 14:32	3°♊44'26	
conjunction	-9199 Aug 03 j 07:14	4°♊43'19	0°52'53
minimum elong	-9199 Aug 03 j 07:14	4°♊43'19	0°53'22
max. Earth dist.	-9199 Aug 03 j 05:53	4°♊43'06	19.58071 AU
morning rise	-9199 Aug 18 j 21:50	5°♊41'54	
retrograde	-9199 Nov 18 j 11:23	9°♊02'01	
opposition	-9198 Feb 01 j 23:57	7°♊00'40	1°00'29
min. Earth dist.	-9198 Feb 01 j 23:47	7°♊00'41	17.61034 AU
direct	-9198 Apr 20 j 05:01	4°♊57'00	
evening set	-9198 Jul 23 j 09:27	8°♊20'55	
conjunction	-9198 Aug 08 j 01:19	9°♊19'28	0°55'36
minimum elong	-9198 Aug 08 j 01:19	9°♊19'28	0°56'06
max. Earth dist.	-9198 Aug 08 j 03:18	9°♊19'47	19.64077 AU
morning rise	-9198 Aug 23 j 15:16	10°♊17'47	
retrograde	-9198 Nov 23 j 08:39	13°♊37'23	
opposition	-9197 Feb 07 j 01:28	11°♊36'08	1°03'17
min. Earth dist.	-9197 Feb 06 j 21:37	11°♊36'33	17.67245 AU
direct	-9197 Apr 25 j 06:18	9°♊32'54	
evening set	-9197 Jul 28 j 03:30	12°♊55'31	
conjunction	-9197 Aug 12 j 18:32	13°♊53'46	0°57'57
minimum elong	-9197 Aug 12 j 18:32	13°♊53'46	0°58'29
max. Earth dist.	-9197 Aug 12 j 23:15	13°♊54'30	19.70493 AU
morning rise	-9197 Aug 28 j 08:02	14°♊51'48	
retrograde	-9197 Nov 28 j 04:46	18°♊10'54	
opposition	-9196 Feb 12 j 02:34	16°♊09'46	1°05'41
min. Earth dist.	-9196 Feb 11 j 20:43	16°♊10'22	17.73862 AU
direct	-9196 Apr 29 j 04:57	14°♊06'58	
evening set	-9196 Jul 31 j 20:26	17°♊28'15	
conjunction	-9196 Aug 16 j 10:49	18°♊26'12	0°59'55
minimum elong	-9196 Aug 16 j 10:49	18°♊26'12	1°00'28
max. Earth dist.	-9196 Aug 16 j 18:26	18°♊27'23	19.77284 AU
morning rise	-9196 Aug 31 j 23:58	19°♊23'58	
retrograde	-9196 Dec 02 j 01:06	22°♊42'31	
opposition	-9195 Feb 16 j 02:48	20°♊41'32	1°07'39
min. Earth dist.	-9195 Feb 15 j 17:17	20°♊42'31	17.80796 AU
direct	-9195 May 04 j 04:52	18°♊39'13	
evening set	-9195 Aug 05 j 12:37	21°♊59'09	
conjunction	-9195 Aug 21 j 02:23	22°♊56'47	1°01'31
minimum elong	-9195 Aug 21 j 02:23	22°♊56'47	1°02'05
max. Earth dist.	-9195 Aug 21 j 12:45	22°♊58'24	19.84342 AU
morning rise	-9195 Sep 05 j 15:14	23°♊54'18	
retrograde	-9195 Dec 06 j 19:40	27°♊12'17	
opposition	-9194 Feb 21 j 02:20	25°♊11'27	1°09'11
min. Earth dist.	-9194 Feb 20 j 15:23	25°♊12'35	17.87973 AU
direct	-9194 May 09 j 02:17	23°♊09'36	
evening set	-9194 Aug 10 j 03:54	26°♊28'12	
conjunction	-9194 Aug 25 j 17:08	27°♊25'31	1°02'44
minimum elong	-9194 Aug 25 j 17:08	27°♊25'31	1°03'17
max. Earth dist.	-9194 Aug 26 j 05:44	27°♊27'28	19.91609 AU
morning rise	-9194 Sep 10 j 05:49	28°♊22'46	
	-9194 Oct 09 j 08:10	0°♋	
retrograde	-9194 Dec 11 j 14:53	1°♋40'11	
	-9193 Feb 17 j 16:51	30°℞♊	
min. Earth dist.	-9193 Feb 25 j 10:48	29°♊40'59	17.95304 AU
opposition	-9193 Feb 26 j 01:10	29°♊39'30	1°10'17
direct	-9193 May 14 j 00:35	27°♊38'07	
	-9193 Jul 29 j 20:34	0°♋	
evening set	-9193 Aug 14 j 18:13	0°♋55'20	
conjunction	-9193 Aug 30 j 07:03	1°♋52'21	1°03'33
minimum elong	-9193 Aug 30 j 07:03	1°♋52'21	1°04'07
max. Earth dist.	-9193 Aug 30 j 22:24	1°♋54'43	19.98978 AU
morning rise	-9193 Sep 14 j 19:36	2°♋49'21	
retrograde	-9193 Dec 16 j 07:35	6°♋06'11	
opposition	-9192 Mar 01 j 23:27	4°♋05'38	1°10'57
min. Earth dist.	-9192 Mar 01 j 07:56	4°♋07'13	18.02709 AU
direct	-9192 May 17 j 20:52	2°♋04'43	
evening set	-9192 Aug 18 j 07:49	5°♋20'31	
conjunction	-9192 Sep 02 j 20:19	6°♋17'15	1°03'59
minimum elong	-9192 Sep 02 j 20:19	6°♋17'15	1°04'33
max. Earth dist.	-9192 Sep 03 j 13:16	6°♋19'52	20.06390 AU
morning rise	-9192 Sep 18 j 08:57	7°♋14'00	
retrograde	-9192 Dec 20 j 01:21	10°♋30'14	
opposition	-9191 Mar 06 j 20:32	8°♋29'47	1°11'11
min. Earth dist.	-9191 Mar 06 j 02:01	8°♋31'41	18.10112 AU
direct	-9191 May 22 j 17:07	6°♋29'17	
evening set	-9191 Aug 22 j 20:32	9°♋43'43	
conjunction	-9191 Sep 07 j 08:53	10°♋40'10	1°04'02
minimum elong	-9191 Sep 07 j 08:53	10°♋40'10	1°04'36
max. Earth dist.	-9191 Sep 08 j 04:18	10°♋43'08	20.13752 AU
morning rise	-9191 Sep 22 j 21:33	11°♋36'41	
retrograde	-9191 Dec 24 j 16:19	14°♋52'16	
opposition	-9190 Mar 11 j 17:03	12°♋51'56	1°11'00
min. Earth dist.	-9190 Mar 10 j 21:42	12°♋53'54	18.17438 AU
direct	-9190 May 27 j 11:24	10°♋51'50	
evening set	-9190 Aug 27 j 08:21	14°♋04'52	
conjunction	-9190 Sep 11 j 20:31	15°♋01'03	1°03'43
minimum elong	-9190 Sep 11 j 20:31	15°♋01'03	1°04'17
max. Earth dist.	-9190 Sep 12 j 17:04	15°♋04'10	20.21026 AU
morning rise	-9190 Sep 27 j 09:27	15°♋57'20	
retrograde	-9190 Dec 29 j 08:43	19°♋12'17	
opposition	-9189 Mar 16 j 12:33	17°♋12'01	1°10'25
min. Earth dist.	-9189 Mar 15 j 14:28	17°♋14'16	18.24651 AU
direct	-9189 Jun 01 j 05:44	15°♋12'17	
evening set	-9189 Aug 31 j 19:19	18°♋23'56	

Attention, astronomical year style is used: The year -9189 in astronomical counting style is the year 9190 BCE in historical counting style.

conjunction	-9189 Sep 16 j 07:33	19°♋19'51	1°03'02
minimum elong	-9189 Sep 16 j 07:33	19°♋19'51	1°03'36
max. Earth dist.	-9189 Sep 17 j 06:37	19°♋23'21	20.28166 AU
morning rise	-9189 Oct 01 j 20:42	20°♋15'56	
retrograde	-9188 Jan 02 j 21:56	23°♋30'14	
min. Earth dist.	-9188 Mar 19 j 08:23	21°♋32'20	18.31728 AU
opposition	-9188 Mar 20 j 07:13	21°♋30'01	1°09'27
direct	-9188 Jun 04 j 22:01	19°♋30'37	
evening set	-9188 Sep 04 j 05:26	22°♋40'54	
conjunction	-9188 Sep 19 j 17:42	23°♋36'34	1°02'00
minimum elong	-9188 Sep 19 j 17:43	23°♋36'34	1°02'34
max. Earth dist.	-9188 Sep 20 j 17:41	23°♋40'11	20.35180 AU
morning rise	-9188 Oct 05 j 07:23	24°♋32'26	
retrograde	-9187 Jan 06 j 13:02	27°♋46'05	
min. Earth dist.	-9187 Mar 23 j 23:33	25°♋48'27	18.38677 AU
opposition	-9187 Mar 25 j 00:46	25°♋45'54	1°08'05
direct	-9187 Jun 09 j 13:58	23°♋46'49	
evening set	-9187 Sep 08 j 14:41	26°♋55'46	
conjunction	-9187 Sep 24 j 03:12	27°♋51'13	1°00'39
minimum elong	-9187 Sep 24 j 03:12	27°♋51'13	1°01'11
max. Earth dist.	-9187 Sep 25 j 05:45	27°♋55'12	20.42052 AU
morning rise	-9187 Oct 09 j 17:12	28°♋46'54	
	-9187 Oct 31 j 17:19	0°♌	
retrograde	-9186 Jan 11 j 00:25	1°♌59'53	
opposition	-9186 Mar 29 j 17:22	29°♋59'45	1°06'23
min. Earth dist.	-9186 Mar 28 j 15:22	0°♌02'22	18.45494 AU
	-9186 Mar 29 j 14:50	30°℞♋	
direct	-9186 Jun 14 j 04:17	28°♋00'58	
	-9186 Aug 23 j 07:11	0°♌	
evening set	-9186 Sep 12 j 23:17	1°♌08'39	
conjunction	-9186 Sep 28 j 11:56	2°♌03'53	0°58'59
minimum elong	-9186 Sep 28 j 11:57	2°♌03'53	0°59'30
max. Earth dist.	-9186 Sep 29 j 15:16	2°♌07'58	20.48822 AU
morning rise	-9186 Oct 14 j 02:35	2°♌59'23	
retrograde	-9185 Jan 15 j 14:06	6°♌11'45	
min. Earth dist.	-9185 Apr 02 j 04:54	4°♌14'30	18.52218 AU
opposition	-9185 Apr 03 j 09:07	4°♌11'39	1°04'20
direct	-9185 Jun 18 j 17:35	2°♌13'11	
evening set	-9185 Sep 17 j 07:01	5°♌19'38	
conjunction	-9185 Oct 02 j 20:07	6°♌14'41	0°57'01
minimum elong	-9185 Oct 02 j 20:07	6°♌14'41	0°57'31
max. Earth dist.	-9185 Oct 04 j 02:01	6°♌19'07	20.55480 AU
morning rise	-9185 Oct 18 j 11:16	7°♌10'01	
retrograde	-9184 Jan 20 j 00:45	10°♌21'48	
min. Earth dist.	-9184 Apr 05 j 18:59	8°♌24'42	18.58820 AU
opposition	-9184 Apr 07 j 00:01	8°♌21'47	1°01'58
direct	-9184 Jun 22 j 06:06	6°♌23'39	
evening set	-9184 Sep 20 j 14:21	9°♌28'56	
conjunction	-9184 Oct 06 j 03:46	10°♌23'47	0°54'46
minimum elong	-9184 Oct 06 j 03:46	10°♌23'47	0°55'14
max. Earth dist.	-9184 Oct 07 j 10:05	10°♌28'17	20.62023 AU
morning rise	-9184 Oct 21 j 19:44	11°♌18'59	
retrograde	-9183 Jan 23 j 13:08	14°♌30'13	
min. Earth dist.	-9183 Apr 10 j 07:07	12°♌33'22	18.65293 AU
opposition	-9183 Apr 11 j 13:50	12°♌30'16	0°59'18
direct	-9183 Jun 26 j 16:38	10°♌32'28	
evening set	-9183 Sep 24 j 21:00	13°♌36'41	
conjunction	-9183 Oct 10 j 11:02	14°♌31'22	0°52'15
minimum elong	-9183 Oct 10 j 11:02	14°♌31'23	0°52'43
max. Earth dist.	-9183 Oct 11 j 19:34	14°♌36'10	20.68401 AU
	-9183 Oct 18 j 13:31	15°♌	

morning rise	-9183 Oct 26 j 03:35	15°♌26'26	
retrograde	-9182 Jan 27 j 23:17	18°♌37'08	
min. Earth dist.	-9182 Apr 14 j 19:41	16°♌40'27	18.71571 AU
opposition	-9182 Apr 16 j 03:01	16°♌37'19	0°56'20
	-9182 Jun 02 j 13:45	15°℞♌	
direct	-9182 Jul 01 j 03:39	14°♌39'52	
	-9182 Jul 29 j 01:53	15°♌	
evening set	-9182 Sep 29 j 03:09	17°♌43'02	
conjunction	-9182 Oct 14 j 17:37	18°♌37'34	0°49'28
minimum elong	-9182 Oct 14 j 17:37	18°♌37'34	0°49'54
max. Earth dist.	-9182 Oct 16 j 02:12	18°♌42'21	20.74574 AU
morning rise	-9182 Oct 30 j 11:07	19°♌32'32	
retrograde	-9181 Feb 01 j 11:03	22°♌42'44	
min. Earth dist.	-9181 Apr 19 j 07:02	20°♌46'17	18.77621 AU
opposition	-9181 Apr 20 j 15:30	20°♌43'02	0°53'06
direct	-9181 Jul 05 j 12:30	18°♌45'54	
evening set	-9181 Oct 03 j 08:57	21°♌48'07	
conjunction	-9181 Oct 19 j 00:10	22°♌42'32	0°46'27
minimum elong	-9181 Oct 19 j 00:11	22°♌42'32	0°46'52
max. Earth dist.	-9181 Oct 20 j 10:36	22°♌47'34	20.80471 AU
morning rise	-9181 Nov 03 j 18:23	23°♌37'23	
retrograde	-9180 Feb 05 j 20:36	26°♌47'07	
min. Earth dist.	-9180 Apr 22 j 18:26	24°♌50'49	18.83356 AU
opposition	-9180 Apr 24 j 03:08	24°♌47'32	0°49'37
direct	-9180 Jul 08 j 21:58	22°♌50'44	
evening set	-9180 Oct 06 j 14:33	25°♌52'02	
conjunction	-9180 Oct 22 j 06:21	26°♌46'21	0°43'13
minimum elong	-9180 Oct 22 j 06:21	26°♌46'21	0°43'35
max. Earth dist.	-9180 Oct 23 j 16:12	26°♌51'16	20.86034 AU
morning rise	-9180 Nov 07 j 01:36	27°♌41'07	
	-9180 Dec 25 j 07:42	0°♍	
retrograde	-9179 Feb 09 j 07:53	0°♍50'25	
	-9179 Mar 28 j 21:39	30°℞♌	
min. Earth dist.	-9179 Apr 27 j 05:02	28°♌54'14	18.88727 AU
opposition	-9179 Apr 28 j 14:07	28°♌50'56	0°45'54
direct	-9179 Jul 13 j 06:01	26°♌54'23	
evening set	-9179 Oct 10 j 19:45	29°♌54'52	
	-9179 Oct 12 j 07:57	0°♍	
conjunction	-9179 Oct 26 j 12:22	0°♍49'05	0°39'46
minimum elong	-9179 Oct 26 j 12:23	0°♍49'05	0°40'06
max. Earth dist.	-9179 Oct 27 j 23:32	0°♍54'11	20.91180 AU
morning rise	-9179 Nov 11 j 08:23	1°♍43'47	
retrograde	-9178 Feb 13 j 16:41	4°♍52'39	
min. Earth dist.	-9178 May 01 j 15:25	2°♍56'34	18.93642 AU
opposition	-9178 May 03 j 00:23	2°♍53'16	0°41'58
direct	-9178 Jul 17 j 13:57	0°♍56'58	
evening set	-9178 Oct 15 j 00:52	3°♍56'40	
conjunction	-9178 Oct 30 j 18:09	4°♍50'48	0°36'08
minimum elong	-9178 Oct 30 j 18:09	4°♍50'48	0°36'27
max. Earth dist.	-9178 Nov 01 j 04:14	4°♍55'44	20.95863 AU
morning rise	-9178 Nov 15 j 15:17	5°♍45'27	
retrograde	-9177 Feb 18 j 03:00	8°♍53'55	
min. Earth dist.	-9177 May 06 j 01:19	6°♍57'52	18.98078 AU
opposition	-9177 May 07 j 10:07	6°♍54'35	0°37'50
direct	-9177 Jul 21 j 21:23	4°♍58'28	
evening set	-9177 Oct 19 j 05:36	7°♍57'27	
conjunction	-9177 Nov 03 j 23:54	8°♍51'32	0°32'21
minimum elong	-9177 Nov 03 j 23:54	8°♍51'32	0°32'36
max. Earth dist.	-9177 Nov 05 j 10:51	8°♍56'34	21.00029 AU
morning rise	-9177 Nov 19 j 21:54	9°♍46'09	
retrograde	-9176 Feb 22 j 11:17	12°♍54'13	

Attention, astronomical year style is used: The year -9176 in astronomical counting style is the year 9177 BCE in historical counting style.

min. Earth dist.	-9176 May 09 j 10:45	10°♍58'08	19.01966 AU
opposition	-9176 May 10 j 19:09	10°♍54'54	0°33'33
direct	-9176 Jul 25 j 04:23	8°♍58'56	
evening set	-9176 Oct 22 j 10:21	11°♍57'14	
conjunction	-9176 Nov 07 j 05:24	12°♍51'16	0°28'25
minimum elong	-9176 Nov 07 j 05:25	12°♍51'16	0°28'39
max. Earth dist.	-9176 Nov 08 j 14:53	12°♍56'05	21.03654 AU
morning rise	-9176 Nov 23 j 04:35	13°♍45'52	
retrograde	-9175 Feb 25 j 20:02	16°♍53'33	
min. Earth dist.	-9175 May 13 j 19:43	14°♍57'24	19.05322 AU
opposition	-9175 May 15 j 03:28	14°♍54'13	0°29'07
direct	-9175 Jul 29 j 10:53	12°♍58'19	
evening set	-9175 Oct 26 j 14:42	15°♍56'03	
conjunction	-9175 Nov 11 j 10:49	16°♍50'03	0°24'22
minimum elong	-9175 Nov 11 j 10:50	16°♍50'03	0°24'33
max. Earth dist.	-9175 Nov 12 j 21:00	16°♍54'57	21.06744 AU
morning rise	-9175 Nov 27 j 10:54	17°♍44'37	
retrograde	-9174 Mar 02 j 03:46	20°♍51'58	
min. Earth dist.	-9174 May 18 j 03:53	18°♍55'44	19.08149 AU
opposition	-9174 May 19 j 11:13	18°♍52'35	0°24'35
direct	-9174 Aug 02 j 17:13	16°♍56'45	
evening set	-9174 Oct 30 j 18:54	19°♍53'56	
conjunction	-9174 Nov 15 j 15:51	20°♍47'55	0°20'13
minimum elong	-9174 Nov 15 j 15:51	20°♍47'55	0°20'22
max. Earth dist.	-9174 Nov 17 j 00:34	20°♍52'35	21.09338 AU
morning rise	-9174 Dec 01 j 17:10	21°♍42'30	
retrograde	-9173 Mar 06 j 11:15	24°♍49'33	
min. Earth dist.	-9173 May 22 j 11:57	22°♍53'09	19.10511 AU
opposition	-9173 May 23 j 18:30	22°♍50'06	0°19'56
direct	-9173 Aug 06 j 22:25	20°♍54'16	
evening set	-9173 Nov 03 j 23:04	23°♍51'00	
conjunction	-9173 Nov 19 j 21:09	24°♍45'00	0°15'59
minimum elong	-9173 Nov 19 j 21:09	24°♍45'00	0°16'06
max. Earth dist.	-9173 Nov 21 j 06:29	24°♍49'45	21.11468 AU
morning rise	-9173 Dec 05 j 23:23	25°♍39'36	
retrograde	-9172 Mar 09 j 18:41	28°♍46'21	
min. Earth dist.	-9172 May 25 j 18:55	26°♍49'53	19.12420 AU
opposition	-9172 May 27 j 00:58	26°♍46'52	0°15'13
direct	-9172 Aug 10 j 04:01	24°♍51'03	
evening set	-9172 Nov 07 j 03:21	27°♍47'26	
conjunction	-9172 Nov 23 j 02:17	28°♍41'27	0°11'42
minimum elong	-9172 Nov 23 j 02:17	28°♍41'27	0°11'47
behind sun begin	-9172 Nov 22 j 21:38	28°♍40'49	
behind sun end	-9172 Nov 23 j 06:56	28°♍42'06	
max. Earth dist.	-9172 Nov 24 j 09:53	28°♍45'57	21.13174 AU
morning rise	-9172 Dec 09 j 05:45	29°♍36'05	
	-9172 Dec 16 j 12:47	0°♎	
retrograde	-9171 Mar 14 j 01:35	2°♎42'38	
min. Earth dist.	-9171 May 30 j 02:07	0°♎46'01	19.13923 AU
opposition	-9171 May 31 j 07:11	0°♎43'05	0°10'26
	-9171 Jun 18 j 14:00	30°℞♍	
direct	-9171 Aug 14 j 07:43	28°♍47'16	
	-9171 Oct 07 j 16:16	0°♎	
evening set	-9171 Nov 11 j 07:26	1°♎43'24	
conjunction	-9171 Nov 27 j 07:32	2°♎37'28	0°07'23
minimum elong	-9171 Nov 27 j 07:31	2°♎37'28	0°07'26
behind sun begin	-9171 Nov 27 j 01:28	2°♎36'38	
behind sun end	-9171 Nov 27 j 13:34	2°♎38'18	
max. Earth dist.	-9171 Nov 28 j 15:33	2°♎42'00	21.14466 AU
morning rise	-9171 Dec 13 j 11:52	3°♎32'08	
retrograde	-9170 Mar 18 j 08:44	6°♎38'31	

min. Earth dist.	-9170 Jun 03 j 08:22	4°♎41'51	19.15007 AU
opposition	-9170 Jun 04 j 12:57	4°♎38'58	0°05'37
direct	-9170 Aug 18 j 12:48	2°♎43'09	
evening set	-9170 Nov 15 j 11:52	5°♎39'07	
conjunction	-9170 Dec 01 j 12:52	6°♎33'14	0°03'01
minimum elong	-9170 Dec 01 j 12:52	6°♎33'14	0°03'01
behind sun begin	-9170 Dec 01 j 06:15	6°♎32'20	
behind sun end	-9170 Dec 01 j 19:28	6°♎34'09	
max. Earth dist.	-9170 Dec 02 j 18:55	6°♎37'30	21.15359 AU
morning rise	-9170 Dec 17 j 18:27	7°♎27'59	
retrograde	-9169 Mar 22 j 16:07	10°♎34'16	
opposition	-9169 Jun 08 j 18:28	8°♎34'42	0°00'47
min. Earth dist.	-9169 Jun 07 j 15:10	8°♎37'27	19.15695 AU
desc. node	-9169 Aug 05 j 02:55	6°♎46'44	
direct	-9169 Aug 22 j 15:43	6°♎38'53	
evening set	-9169 Nov 19 j 16:24	9°♎34'47	
conjunction	-9169 Dec 05 j 18:37	10°♎29'00	-0°01'29
minimum elong	-9169 Dec 05 j 18:38	10°♎29'00	0°01'30
behind sun begin	-9169 Dec 05 j 11:59	10°♎28'05	
behind sun end	-9169 Dec 06 j 01:17	10°♎29'54	
max. Earth dist.	-9169 Dec 07 j 00:46	10°♎33'15	21.15832 AU
morning rise	-9169 Dec 22 j 01:08	11°♎23'49	
retrograde	-9168 Mar 25 j 23:14	14°♎30'03	
opposition	-9168 Jun 11 j 23:40	12°♎30'30	-0°04'04
min. Earth dist.	-9168 Jun 10 j 21:10	12°♎33'10	19.15938 AU
direct	-9168 Aug 25 j 20:15	10°♎34'41	
evening set	-9168 Nov 22 j 21:25	13°♎30'36	
conjunction	-9168 Dec 09 j 00:32	14°♎24'54	-0°05'53
minimum elong	-9168 Dec 09 j 00:32	14°♎24'54	0°05'58
behind sun begin	-9168 Dec 08 j 18:12	14°♎24'02	
behind sun end	-9168 Dec 09 j 06:52	14°♎25'47	
max. Earth dist.	-9168 Dec 10 j 04:16	14°♎28'49	21.15856 AU
morning rise	-9168 Dec 25 j 08:14	15°♎19'50	
retrograde	-9167 Mar 30 j 07:16	18°♎26'04	
min. Earth dist.	-9167 Jun 15 j 03:55	16°♎29'02	19.15728 AU
opposition	-9167 Jun 16 j 04:41	16°♎26'32	-0°08'55
direct	-9167 Aug 29 j 23:06	14°♎30'41	
evening set	-9167 Nov 27 j 02:38	17°♎26'43	
conjunction	-9167 Dec 13 j 06:57	18°♎21'09	-0°10'14
minimum elong	-9167 Dec 13 j 06:57	18°♎21'09	0°10'21
behind sun begin	-9167 Dec 13 j 01:42	18°♎20'26	
behind sun end	-9167 Dec 13 j 12:12	18°♎21'52	
max. Earth dist.	-9167 Dec 14 j 10:24	18°♎25'01	21.15402 AU
morning rise	-9167 Dec 29 j 15:30	19°♎16'11	
retrograde	-9166 Apr 03 j 14:17	22°♎22'27	
min. Earth dist.	-9166 Jun 19 j 09:56	20°♎25'20	19.15013 AU
opposition	-9166 Jun 20 j 09:35	20°♎22'57	-0°13'43
direct	-9166 Sep 03 j 03:10	18°♎27'04	
evening set	-9166 Dec 01 j 08:21	21°♎23'17	
conjunction	-9166 Dec 17 j 13:36	22°♎17'50	-0°14'33
minimum elong	-9166 Dec 17 j 13:35	22°♎17'50	0°14'42
behind sun begin	-9166 Dec 17 j 10:56	22°♎17'28	
behind sun end	-9166 Dec 17 j 16:14	22°♎18'12	
max. Earth dist.	-9166 Dec 18 j 14:15	22°♎21'19	21.14432 AU
morning rise	-9165 Jan 02 j 23:20	23°♎13'00	
retrograde	-9165 Apr 07 j 22:35	26°♎19'22	
opposition	-9165 Jun 24 j 14:33	24°♎19'51	-0°18'28
min. Earth dist.	-9165 Jun 23 j 17:06	24°♎22'01	19.13768 AU
direct	-9165 Sep 07 j 06:37	22°♎23'52	
evening set	-9165 Dec 05 j 14:35	25°♎20'22	
conjunction	-9165 Dec 21 j 21:03	26°♎15'05	-0°18'48

Attention, astronomical year style is used: The year -9165 in astronomical counting style is the year 9166 BCE in historical counting style.

minimum elong	-9165 Dec 21 j 21:03	26°♎15'05	0°19'00
max. Earth dist.	-9165 Dec 22 j 20:51	26°♎18'26	21.12897 AU
morning rise	-9164 Jan 07 j 07:35	27°♎10'22	
	-9164 Mar 15 j 18:27	0°♏	
retrograde	-9164 Apr 11 j 06:03	0°♏16'50	
	-9164 May 07 j 21:57	30°℞♎	
opposition	-9164 Jun 27 j 19:15	28°♎17'18	-0°23'08
min. Earth dist.	-9164 Jun 26 j 23:18	28°♎19'20	19.11932 AU
direct	-9164 Sep 10 j 10:56	26°♎21'11	
evening set	-9164 Dec 08 j 21:26	29°♎18'02	
	-9164 Dec 21 j 09:34	0°♏	
conjunction	-9164 Dec 25 j 04:47	0°♏12'54	-0°22'59
minimum elong	-9164 Dec 25 j 04:47	0°♏12'54	0°23'11
max. Earth dist.	-9164 Dec 26 j 01:15	0°♏15'47	21.10772 AU
morning rise	-9163 Jan 10 j 16:25	1°♏08'21	
retrograde	-9163 Apr 15 j 13:53	4°♏14'57	
min. Earth dist.	-9163 Jul 01 j 06:45	2°♏17'08	19.09511 AU
opposition	-9163 Jul 02 j 00:12	2°♏15'21	-0°27'42
direct	-9163 Sep 14 j 14:51	0°♏19'02	
evening set	-9163 Dec 13 j 04:25	3°♏16'17	
conjunction	-9163 Dec 29 j 12:57	4°♏11'19	-0°27'03
minimum elong	-9163 Dec 29 j 12:57	4°♏11'19	0°27'19
max. Earth dist.	-9163 Dec 30 j 08:23	4°♏14'04	21.08056 AU
morning rise	-9162 Jan 15 j 01:20	5°♏06'55	
retrograde	-9162 Apr 19 j 22:04	8°♏13'41	
opposition	-9162 Jul 06 j 05:03	6°♏13'59	-0°32'09
min. Earth dist.	-9162 Jul 05 j 13:06	6°♏15'37	19.06500 AU
direct	-9162 Sep 18 j 19:56	4°♏17'26	
evening set	-9162 Dec 17 j 12:11	7°♏15'09	
conjunction	-9161 Jan 02 j 21:35	8°♏10'22	-0°31'00
minimum elong	-9161 Jan 02 j 21:35	8°♏10'22	0°31'17
max. Earth dist.	-9161 Jan 03 j 13:36	8°♏12'37	21.04784 AU
morning rise	-9161 Jan 19 j 11:02	9°♏06'08	
retrograde	-9161 Apr 24 j 05:33	12°♏13'05	
opposition	-9161 Jul 10 j 09:54	10°♏13'15	-0°36'26
min. Earth dist.	-9161 Jul 09 j 20:36	10°♏14'37	19.02970 AU
direct	-9161 Sep 23 j 00:03	8°♏16'24	
evening set	-9161 Dec 21 j 20:21	11°♏14'39	
conjunction	-9160 Jan 07 j 06:56	12°♏10'04	-0°34'48
minimum elong	-9160 Jan 07 j 06:56	12°♏10'04	0°35'09
max. Earth dist.	-9160 Jan 07 j 21:49	12°♏12'10	21.01010 AU
morning rise	-9160 Jan 23 j 21:04	13°♏06'01	
	-9160 Mar 02 j 11:23	15°♏	
retrograde	-9160 Apr 27 j 14:20	16°♏13'09	
	-9160 Jun 24 j 02:45	15°℞♏	
opposition	-9160 Jul 13 j 14:47	14°♏13'12	-0°40'34
min. Earth dist.	-9160 Jul 13 j 02:56	14°♏14'25	18.98961 AU
direct	-9160 Sep 26 j 05:45	12°♏16'03	
	-9160 Dec 20 j 16:23	15°♏	
evening set	-9160 Dec 25 j 05:11	15°♏14'54	
conjunction	-9159 Jan 10 j 16:31	16°♏10'31	-0°38'27
minimum elong	-9159 Jan 10 j 16:31	16°♏10'31	0°38'49
max. Earth dist.	-9159 Jan 11 j 04:02	16°♏12'09	20.96793 AU
morning rise	-9159 Jan 27 j 07:34	17°♏06'39	
retrograde	-9159 May 01 j 22:11	20°♏14'03	
opposition	-9159 Jul 17 j 19:51	18°♏13'57	-0°44'30
min. Earth dist.	-9159 Jul 17 j 10:32	18°♏14'54	18.94556 AU
direct	-9159 Sep 30 j 10:11	16°♏16'26	
evening set	-9159 Dec 29 j 14:26	19°♏16'00	
conjunction	-9158 Jan 15 j 02:53	20°♏11'50	-0°41'55
minimum elong	-9158 Jan 15 j 02:52	20°♏11'50	0°42'18
max. Earth dist.	-9158 Jan 15 j 13:22	20°♏13'19	20.92208 AU
morning rise	-9158 Jan 31 j 18:29	21°♏08'09	
retrograde	-9158 May 06 j 07:41	24°♏15'51	
opposition	-9158 Jul 22 j 01:02	22°♏15'37	-0°48'15
min. Earth dist.	-9158 Jul 21 j 16:57	22°♏16'27	18.89804 AU
direct	-9158 Oct 04 j 16:12	20°♏17'46	
evening set	-9157 Jan 03 j 00:29	23°♏18'06	
conjunction	-9157 Jan 19 j 13:41	24°♏14'10	-0°45'11
minimum elong	-9157 Jan 19 j 13:40	24°♏14'10	0°45'37
max. Earth dist.	-9157 Jan 19 j 20:47	24°♏15'10	20.87306 AU
morning rise	-9157 Feb 05 j 06:09	25°♏10'41	
retrograde	-9157 May 10 j 16:43	28°♏18'43	
opposition	-9157 Jul 26 j 06:37	26°♏18'22	-0°51'46
min. Earth dist.	-9157 Jul 26 j 01:06	26°♏18'56	18.84761 AU
direct	-9157 Oct 08 j 21:15	24°♏20'10	
evening set	-9156 Jan 07 j 11:13	27°♏21'21	
conjunction	-9156 Jan 24 j 01:26	28°♏17'40	-0°48'15
minimum elong	-9156 Jan 24 j 01:26	28°♏17'40	0°48'41
max. Earth dist.	-9156 Jan 24 j 07:23	28°♏18'31	20.82121 AU
morning rise	-9156 Feb 09 j 18:20	29°♏14'25	
	-9156 Feb 23 j 20:03	0°♐	
retrograde	-9156 May 14 j 03:24	2°♐22'48	
opposition	-9156 Jul 29 j 12:21	0°♐22'22	-0°55'04
min. Earth dist.	-9156 Jul 29 j 08:05	0°♐22'49	18.79440 AU
	-9156 Aug 07 j 12:18	30°℞♏	
direct	-9156 Oct 12 j 04:00	28°♏23'50	
	-9156 Dec 14 j 06:35	0°♐	
evening set	-9155 Jan 10 j 22:52	1°♐25'57	
conjunction	-9155 Jan 27 j 13:43	2°♐22'32	-0°51'06
minimum elong	-9155 Jan 27 j 13:43	2°♐22'31	0°51'35
max. Earth dist.	-9155 Jan 27 j 16:13	2°♐22'53	20.76681 AU
morning rise	-9155 Feb 13 j 07:20	3°♐19'30	
retrograde	-9155 May 18 j 13:37	6°♐28'19	
opposition	-9155 Aug 02 j 18:44	4°♐27'48	-0°58'05
min. Earth dist.	-9155 Aug 02 j 17:06	4°♐27'58	18.73886 AU
direct	-9155 Oct 16 j 09:37	2°♐28'56	
evening set	-9154 Jan 15 j 11:00	5°♐32'03	
conjunction	-9154 Feb 01 j 02:48	6°♐28'54	-0°53'42
minimum elong	-9154 Feb 01 j 02:48	6°♐28'54	0°54'11
max. Earth dist.	-9154 Feb 01 j 04:07	6°♐29'05	20.71006 AU
morning rise	-9154 Feb 17 j 20:46	7°♐26'06	
retrograde	-9154 May 23 j 01:58	10°♐35'23	
opposition	-9154 Aug 07 j 01:26	8°♐34'49	-1°00'51
min. Earth dist.	-9154 Aug 07 j 01:08	8°♐34'51	18.68082 AU
direct	-9154 Oct 20 j 17:42	6°♐35'38	
evening set	-9153 Jan 20 j 00:28	9°♐39'50	
conjunction	-9153 Feb 05 j 16:49	10°♐36'57	-0°56'03
minimum elong	-9153 Feb 05 j 16:49	10°♐36'57	0°56'34
max. Earth dist.	-9153 Feb 05 j 14:31	10°♐36'37	20.65082 AU
morning rise	-9153 Feb 22 j 11:22	11°♐34'24	
retrograde	-9153 May 27 j 13:12	14°♐44'11	
opposition	-9153 Aug 11 j 08:42	12°♐43'33	-1°03'19
min. Earth dist.	-9153 Aug 11 j 11:27	12°♐43'16	18.62036 AU
direct	-9153 Oct 25 j 00:21	10°♐44'02	
evening set	-9152 Jan 24 j 14:45	13°♐49'24	
conjunction	-9152 Feb 10 j 07:56	14°♐46'48	-0°58'07
minimum elong	-9152 Feb 10 j 07:55	14°♐46'48	0°58'39
max. Earth dist.	-9152 Feb 10 j 04:01	14°♐46'15	20.58899 AU
morning rise	-9152 Feb 27 j 02:41	15°♐44'29	
retrograde	-9152 May 31 j 03:17	18°♐54'48	
opposition	-9152 Aug 14 j 16:34	16°♐54'08	-1°05'28

Attention, astronomical year style is used: The year -9152 in astronomical counting style is the year 9153 BCE in historical counting style.

min. Earth dist.	-9152 Aug 14 j 20:50	16°♐53'41	18.55711 AU
direct	-9152 Oct 28 j 10:07	14°♐54'16	
evening set	-9151 Jan 28 j 06:03	18°♐00'51	
conjunction	-9151 Feb 13 j 23:37	18°♐58'32	-0°59'53
minimum elong	-9151 Feb 13 j 23:37	18°♐58'32	1°00'25
max. Earth dist.	-9151 Feb 13 j 15:57	18°♐57'25	20.52426 AU
morning rise	-9151 Mar 02 j 18:45	19°♐56'27	
retrograde	-9151 Jun 04 j 15:29	23°♐07'20	
opposition	-9151 Aug 19 j 01:13	21°♐06'36	-1°07'16
min. Earth dist.	-9151 Aug 19 j 08:40	21°♐05'49	18.49104 AU
direct	-9151 Nov 01 j 18:35	19°♐06'20	
evening set	-9150 Feb 01 j 22:11	22°♐14'10	
conjunction	-9150 Feb 18 j 16:27	23°♐12'09	-1°01'20
minimum elong	-9150 Feb 18 j 16:27	23°♐12'09	1°01'54
max. Earth dist.	-9150 Feb 18 j 06:53	23°♐10'46	20.45673 AU
morning rise	-9150 Mar 07 j 11:41	24°♐10'20	
retrograde	-9150 Jun 09 j 06:40	27°♐21'45	
opposition	-9150 Aug 23 j 10:18	25°♐20'56	-1°08'43
min. Earth dist.	-9150 Aug 23 j 19:16	25°♐19'59	18.42206 AU
direct	-9150 Nov 06 j 05:48	23°♐20'16	
evening set	-9149 Feb 06 j 15:26	26°♐29'23	
conjunction	-9149 Feb 23 j 10:05	27°♐27'39	-1°02'28
minimum elong	-9149 Feb 23 j 10:04	27°♐27'39	1°03'01
max. Earth dist.	-9149 Feb 22 j 20:41	27°♐25'42	20.38638 AU
morning rise	-9149 Mar 12 j 05:33	28°♐26'05	
	-9149 Apr 10 j 22:39	0°♑	
retrograde	-9149 Jun 13 j 20:14	1°♑38'05	
	-9149 Aug 18 j 19:55	30°℞♐	
opposition	-9149 Aug 27 j 20:18	29°♐37'09	-1°09'49
min. Earth dist.	-9149 Aug 28 j 08:30	29°♐35'51	18.35053 AU
direct	-9149 Nov 10 j 16:23	27°♐36'01	
	-9148 Jan 28 j 10:18	0°♑	
evening set	-9148 Feb 11 j 09:27	0°♑46'27	
conjunction	-9148 Feb 28 j 04:36	1°♑45'01	-1°03'15
minimum elong	-9148 Feb 28 j 04:36	1°♑45'01	1°03'50
max. Earth dist.	-9148 Feb 27 j 13:15	1°♑42'46	20.31375 AU
morning rise	-9148 Mar 16 j 00:03	2°♑43'42	
retrograde	-9148 Jun 17 j 12:09	5°♑56'15	
opposition	-9148 Aug 31 j 06:45	3°♑55'12	-1°10'31
min. Earth dist.	-9148 Aug 31 j 20:13	3°♑53'46	18.27698 AU
direct	-9148 Nov 14 j 05:05	1°♑53'36	
evening set	-9147 Feb 15 j 04:24	5°♑05'22	
conjunction	-9147 Mar 03 j 23:47	6°♑04'14	-1°03'41
minimum elong	-9147 Mar 03 j 23:47	6°♑04'14	1°04'15
max. Earth dist.	-9147 Mar 03 j 05:08	6°♑01'30	20.23948 AU
morning rise	-9147 Mar 20 j 19:15	7°♑03'09	
retrograde	-9147 Jun 22 j 02:59	10°♑16'17	
opposition	-9147 Sep 04 j 18:04	8°♑15'05	-1°10'49
min. Earth dist.	-9147 Sep 05 j 10:32	8°♑13'19	18.20233 AU
direct	-9147 Nov 18 j 17:19	6°♑13'00	
evening set	-9146 Feb 19 j 23:56	9°♑26'08	
conjunction	-9146 Mar 08 j 19:41	10°♑25'17	-1°03'45
minimum elong	-9146 Mar 08 j 19:41	10°♑25'17	1°04'19
max. Earth dist.	-9146 Mar 07 j 23:17	10°♑22'17	20.16457 AU
morning rise	-9146 Mar 25 j 15:04	11°♑24'27	
retrograde	-9146 Jun 26 j 19:50	14°♑38'10	
opposition	-9146 Sep 09 j 05:58	12°♑36'49	-1°10'44
min. Earth dist.	-9146 Sep 09 j 23:21	12°♑34'57	18.12731 AU
direct	-9146 Nov 23 j 07:49	10°♑34'16	
evening set	-9145 Feb 24 j 20:36	13°♑48'46	

conjunction	-9145 Mar 13 j 16:27	14°♑48'13	-1°03'27
minimum elong	-9145 Mar 13 j 16:27	14°♑48'13	1°04'01
max. Earth dist.	-9145 Mar 12 j 17:23	14°♑44'48	20.08959 AU
morning rise	-9145 Mar 30 j 11:38	15°♑47'37	
retrograde	-9145 Jul 01 j 11:38	19°♑01'56	
opposition	-9145 Sep 13 j 18:43	17°♑00'27	-1°10'14
min. Earth dist.	-9145 Sep 14 j 14:51	16°♑58'16	18.05276 AU
direct	-9145 Nov 27 j 21:54	14°♑57'25	
evening set	-9144 Feb 29 j 18:00	18°♑13'19	
conjunction	-9144 Mar 17 j 13:58	19°♑13'03	-1°02'48
minimum elong	-9144 Mar 17 j 13:58	19°♑13'03	1°03'20
max. Earth dist.	-9144 Mar 16 j 13:14	19°♑09'22	20.01556 AU
morning rise	-9144 Apr 03 j 08:53	20°♑12'41	
retrograde	-9144 Jul 05 j 05:30	23°♑27'36	
opposition	-9144 Sep 17 j 08:16	21°♑25'59	-1°09'19
min. Earth dist.	-9144 Sep 18 j 04:57	21°♑23'45	17.97945 AU
direct	-9144 Dec 01 j 14:25	19°♑22'31	
evening set	-9143 Mar 05 j 16:06	22°♑39'49	
max. Earth dist.	-9143 Mar 21 j 09:28	23°♑35'51	19.94301 AU
conjunction	-9143 Mar 22 j 12:01	23°♑39'50	-1°01'45
minimum elong	-9143 Mar 22 j 12:01	23°♑39'50	1°02'19
morning rise	-9143 Apr 08 j 06:31	24°♑39'41	
retrograde	-9143 Jul 09 j 22:34	27°♑55'13	
opposition	-9143 Sep 21 j 22:49	25°♑53'31	-1°07'59
min. Earth dist.	-9143 Sep 22 j 21:50	25°♑51'02	17.90804 AU
direct	-9143 Dec 06 j 06:27	23°♑49'39	
evening set	-9142 Mar 10 j 15:07	27°♑08'21	
max. Earth dist.	-9142 Mar 26 j 06:41	28°♑04'22	19.87280 AU
conjunction	-9142 Mar 27 j 10:56	28°♑08'38	-1°00'20
minimum elong	-9142 Mar 27 j 10:56	28°♑08'38	1°00'52
morning rise	-9142 Apr 13 j 05:05	29°♑08'41	
	-9142 Apr 28 j 05:43	0°♒	
retrograde	-9142 Jul 14 j 17:35	2°♒24'51	
opposition	-9142 Sep 26 j 13:57	0°♒23'05	-1°06'13
min. Earth dist.	-9142 Sep 27 j 13:20	0°♒20'33	17.83908 AU
	-9142 Oct 05 j 12:07	30°℞♑	
direct	-9142 Dec 11 j 01:03	28°♑18'50	
	-9141 Feb 13 j 07:05	0°♒	
evening set	-9141 Mar 15 j 15:03	1°♒38'58	
max. Earth dist.	-9141 Mar 31 j 05:15	2°♒35'02	19.80510 AU
conjunction	-9141 Apr 01 j 10:44	2°♒39'29	-0°58'33
minimum elong	-9141 Apr 01 j 10:44	2°♒39'29	0°59'04
morning rise	-9141 Apr 18 j 04:15	3°♒39'45	
retrograde	-9141 Jul 19 j 12:14	6°♒56'32	
opposition	-9141 Oct 01 j 06:21	4°♒54'45	-1°04'02
min. Earth dist.	-9141 Oct 02 j 07:52	4°♒51'58	17.77282 AU
direct	-9141 Dec 15 j 18:48	2°♒50'10	
evening set	-9140 Mar 19 j 15:45	6°♒11'41	
max. Earth dist.	-9140 Apr 04 j 03:46	7°♒07'42	19.74031 AU
conjunction	-9140 Apr 05 j 11:02	7°♒12'27	-0°56'22
minimum elong	-9140 Apr 05 j 11:03	7°♒12'27	0°56'53
morning rise	-9140 Apr 22 j 04:04	8°♒12'54	
retrograde	-9140 Jul 23 j 09:13	11°♒30'19	
opposition	-9140 Oct 04 j 23:29	9°♒28'31	-1°01'26
min. Earth dist.	-9140 Oct 06 j 01:19	9°♒25'42	17.70947 AU
direct	-9140 Dec 19 j 15:39	7°♒23'38	
evening set	-9139 Mar 24 j 17:12	10°♒46'32	
max. Earth dist.	-9139 Apr 09 j 04:22	11°♒42'39	19.67830 AU
conjunction	-9139 Apr 10 j 12:12	11°♒47'31	-0°53'49
minimum elong	-9139 Apr 10 j 12:13	11°♒47'31	0°54'17
morning rise	-9139 Apr 27 j 04:23	12°♒48'08	

Attention, astronomical year style is used: The year -9139 in astronomical counting style is the year 9140 BCE in historical counting style.

	-9139 Jun 08 j 05:50	15°♒	
retrograde	-9139 Jul 28 j 05:31	16°♒06'10	
	-9139 Sep 17 j 14:42	15°℞♒	
opposition	-9139 Oct 09 j 17:44	14°♒04'23	-0°58'25
min. Earth dist.	-9139 Oct 10 j 21:31	14°♒01'21	17.64892 AU
direct	-9139 Dec 24 j 11:05	11°♒59'13	
	-9138 Mar 23 j 04:39	15°♒	
evening set	-9138 Mar 29 j 19:28	15°♒23'25	
max. Earth dist.	-9138 Apr 14 j 04:01	16°♒19'25	19.61917 AU
conjunction	-9138 Apr 15 j 13:53	16°♒24'36	-0°50'54
minimum elong	-9138 Apr 15 j 13:53	16°♒24'36	0°51'21
morning rise	-9138 May 02 j 05:29	17°♒25'24	
retrograde	-9138 Aug 02 j 04:11	20°♒44'01	
opposition	-9138 Oct 14 j 12:53	18°♒42'13	-0°54'59
min. Earth dist.	-9138 Oct 15 j 17:06	18°♒39'09	17.59114 AU
direct	-9138 Dec 29 j 09:33	16°♒36'47	
evening set	-9137 Apr 03 j 22:24	20°♒02'14	
max. Earth dist.	-9137 Apr 19 j 06:23	20°♒58'23	19.56259 AU
conjunction	-9137 Apr 20 j 16:22	21°♒03'37	-0°47'38
minimum elong	-9137 Apr 20 j 16:23	21°♒03'37	0°48'01
morning rise	-9137 May 07 j 06:55	22°♒04'33	
retrograde	-9137 Aug 07 j 02:17	25°♒23'42	
opposition	-9137 Oct 19 j 09:07	23°♒21'54	-0°51'10
min. Earth dist.	-9137 Oct 20 j 14:53	23°♒18'39	17.53593 AU
direct	-9136 Jan 03 j 07:23	21°♒16'11	
evening set	-9136 Apr 08 j 02:02	24°♒42'49	
max. Earth dist.	-9136 Apr 23 j 07:12	25°♒38'47	19.50886 AU
conjunction	-9136 Apr 24 j 19:10	25°♒44'21	-0°44'01
minimum elong	-9136 Apr 24 j 19:10	25°♒44'21	0°44'23
morning rise	-9136 May 11 j 08:57	26°♒45'24	
	-9136 Jul 28 j 15:36	0°♓	
retrograde	-9136 Aug 11 j 01:40	0°♓05'04	
	-9136 Aug 24 j 12:51	30°℞♒	
opposition	-9136 Oct 23 j 06:15	28°♒03'13	-0°46'58
min. Earth dist.	-9136 Oct 24 j 12:19	27°♒59'57	17.48376 AU
direct	-9135 Jan 07 j 07:07	25°♒57'15	
evening set	-9135 Apr 13 j 05:46	29°♒24'57	
	-9135 Apr 22 j 18:38	0°♓	
max. Earth dist.	-9135 Apr 28 j 10:54	0°♓21'07	19.45822 AU
conjunction	-9135 Apr 29 j 22:19	0°♓26'37	-0°40'05
minimum elong	-9135 Apr 29 j 22:19	0°♓26'37	0°40'26
morning rise	-9135 May 16 j 10:58	1°♓27'46	
retrograde	-9135 Aug 16 j 00:59	4°♓47'54	
opposition	-9135 Oct 28 j 04:16	2°♓46'01	-0°42'27
min. Earth dist.	-9135 Oct 29 j 11:10	2°♓42'38	17.43478 AU
direct	-9134 Jan 12 j 07:19	0°♓39'48	
evening set	-9134 Apr 18 j 10:12	4°♓08'28	
max. Earth dist.	-9134 May 03 j 12:46	5°♓04'29	19.41116 AU
conjunction	-9134 May 05 j 01:45	5°♓10'14	-0°35'53
minimum elong	-9134 May 05 j 01:45	5°♓10'15	0°36'10
morning rise	-9134 May 21 j 13:30	6°♓11'28	
retrograde	-9134 Aug 21 j 00:13	9°♓32'02	
opposition	-9134 Nov 02 j 02:52	7°♓30'04	-0°37'37
min. Earth dist.	-9134 Nov 03 j 10:03	7°♓26'40	17.38977 AU
direct	-9133 Jan 17 j 08:13	5°♓23'36	
evening set	-9133 Apr 23 j 14:44	8°♓53'10	
max. Earth dist.	-9133 May 08 j 17:40	9°♓49'25	19.36830 AU
conjunction	-9133 May 10 j 05:30	9°♓55'02	-0°31'24
minimum elong	-9133 May 10 j 05:31	9°♓55'02	0°31'41
morning rise	-9133 May 26 j 16:01	10°♓56'18	
retrograde	-9133 Aug 26 j 00:36	14°♓17'14	

opposition	-9133 Nov 07 j 02:28	12°♓15'13	-0°32'30
min. Earth dist.	-9133 Nov 08 j 09:37	12°♓11'48	17.34916 AU
direct	-9132 Jan 22 j 10:49	10°♓08'33	
evening set	-9132 Apr 27 j 19:24	13°♓38'53	
max. Earth dist.	-9132 May 12 j 20:31	14°♓35'03	19.33024 AU
conjunction	-9132 May 14 j 09:01	14°♓40'47	-0°26'43
minimum elong	-9132 May 14 j 09:01	14°♓40'47	0°26'55
morning rise	-9132 May 30 j 18:28	15°♓42'05	
retrograde	-9132 Aug 29 j 23:38	19°♓03'23	
opposition	-9132 Nov 11 j 02:44	17°♓01'16	-0°27'10
min. Earth dist.	-9132 Nov 12 j 09:52	16°♓57'52	17.31386 AU
direct	-9131 Jan 26 j 12:56	14°♓54'25	
evening set	-9131 May 03 j 00:03	18°♓25'26	
max. Earth dist.	-9131 May 18 j 01:51	19°♓21'52	19.29777 AU
conjunction	-9131 May 19 j 12:41	19°♓27'21	-0°21'49
minimum elong	-9131 May 19 j 12:41	19°♓27'21	0°22'00
morning rise	-9131 Jun 04 j 20:53	20°♓28'39	
retrograde	-9131 Sep 04 j 00:34	23°♓50'15	
opposition	-9131 Nov 16 j 03:30	21°♓48'06	-0°21'37
min. Earth dist.	-9131 Nov 17 j 09:41	21°♓44'48	17.28427 AU
direct	-9130 Jan 31 j 17:19	19°♓41'08	
evening set	-9130 May 08 j 04:48	23°♓12'41	
max. Earth dist.	-9130 May 23 j 05:37	24°♓09'08	19.27131 AU
conjunction	-9130 May 24 j 16:13	24°♓14'36	-0°16'46
minimum elong	-9130 May 24 j 16:13	24°♓14'36	0°16'54
morning rise	-9130 Jun 09 j 23:14	25°♓15'52	
retrograde	-9130 Sep 08 j 23:37	28°♓37'45	
opposition	-9130 Nov 21 j 05:04	26°♓35'34	-0°15'54
min. Earth dist.	-9130 Nov 22 j 11:02	26°♓32'18	17.26111 AU
direct	-9129 Feb 05 j 20:25	24°♓28'32	
evening set	-9129 May 13 j 09:22	28°♓00'32	
max. Earth dist.	-9129 May 28 j 10:47	28°♓57'13	19.25149 AU
conjunction	-9129 May 29 j 19:36	29°♓02'24	-0°11'37
minimum elong	-9129 May 29 j 19:36	29°♓02'24	0°11'41
behind sun begin	-9129 May 29 j 14:52	29°♓01'40	
behind sun end	-9129 May 30 j 00:20	29°♓03'08	
	-9129 Jun 14 j 01:49	0°♈	
morning rise	-9129 Jun 15 j 01:19	0°♈03'38	
retrograde	-9129 Sep 14 j 01:06	3°♈25'45	
opposition	-9129 Nov 26 j 07:11	1°♈23'35	-0°10'04
min. Earth dist.	-9129 Nov 27 j 11:15	1°♈20'31	17.24456 AU
	-9129 Dec 31 j 06:28	30°℞♓	
direct	-9128 Feb 11 j 02:26	29°♓16'34	
	-9128 Mar 22 j 23:40	0°♈	
evening set	-9128 May 17 j 13:52	2°♈48'53	
conjunction	-9128 Jun 02 j 22:49	3°♈50'41	-0°06'22
minimum elong	-9128 Jun 02 j 22:50	3°♈50'42	0°06'24
behind sun begin	-9128 Jun 02 j 16:32	3°♈49'43	
behind sun end	-9128 Jun 03 j 05:08	3°♈51'40	
max. Earth dist.	-9128 Jun 01 j 15:17	3°♈45'42	19.23844 AU
morning rise	-9128 Jun 19 j 03:14	4°♈51'51	
retrograde	-9128 Sep 18 j 00:33	8°♈14'11	
opposition	-9128 Nov 30 j 09:54	6°♈12'03	-0°04'09
min. Earth dist.	-9128 Dec 01 j 13:32	6°♈09'03	17.23503 AU
direct	-9127 Feb 15 j 05:50	4°♈05'06	
evening set	-9127 May 22 j 18:00	7°♈37'39	
max. Earth dist.	-9127 Jun 06 j 19:49	8°♈34'37	19.23240 AU
conjunction	-9127 Jun 08 j 01:42	8°♈39'22	-0°01'01
minimum elong	-9127 Jun 08 j 01:40	8°♈39'22	0°00'59
behind sun begin	-9127 Jun 07 j 19:00	8°♈38'20	
behind sun end	-9127 Jun 08 j 08:21	8°♈40'24	

Attention, astronomical year style is used: The year -9127 in astronomical counting style is the year 9128 BCE in historical counting style.

morning rise	-9127 Jun	24 j 04:55	9°♈40'27	
asc. node	-9127 Aug	16 j 17:52	12°♈23'42	
retrograde	-9127 Sep	23 j 02:46	13°♈02'55	
opposition	-9127 Dec	05 j 12:57	11°♈00'54	0°01'49
min. Earth dist.	-9127 Dec	06 j 14:15	10°♈58'09	17.23215 AU
direct	-9126 Feb	20 j 12:00	8°♈54'05	
evening set	-9126 May	27 j 22:01	12°♈26'42	
max. Earth dist.	-9126 Jun	12 j 00:36	13°♈23'54	19.23276 AU
conjunction	-9126 Jun	13 j 04:26	13°♈28'19	0°04'26
minimum elong	-9126 Jun	13 j 04:25	13°♈28'19	0°04'30
behind sun begin	-9126 Jun	12 j 21:52	13°♈27'18	
behind sun end	-9126 Jun	13 j 10:57	13°♈29'20	
morning rise	-9126 Jun	29 j 06:15	14°♈29'17	
retrograde	-9126 Sep	28 j 03:05	17°♈51'53	
opposition	-9126 Dec	10 j 16:33	15°♈49'57	0°07'47
min. Earth dist.	-9126 Dec	11 j 17:25	15°♈47'16	17.23565 AU
direct	-9125 Feb	25 j 15:38	13°♈43'19	
evening set	-9125 Jun	02 j 01:46	17°♈15'55	
max. Earth dist.	-9125 Jun	17 j 04:17	18°♈13'10	19.23936 AU
conjunction	-9125 Jun	18 j 06:42	18°♈17'23	0°09'43
minimum elong	-9125 Jun	18 j 06:42	18°♈17'23	0°09'50
behind sun begin	-9125 Jun	18 j 01:15	18°♈16'32	
behind sun end	-9125 Jun	18 j 12:08	18°♈18'13	
morning rise	-9125 Jul	04 j 07:23	19°♈18'13	
retrograde	-9125 Oct	03 j 05:48	22°♈40'53	
opposition	-9125 Dec	15 j 20:32	20°♈39'04	0°13'41
min. Earth dist.	-9125 Dec	16 j 18:45	20°♈36'40	17.24507 AU
direct	-9124 Mar	01 j 21:33	18°♈32'38	
evening set	-9124 Jun	06 j 04:52	22°♈05'03	
max. Earth dist.	-9124 Jun	21 j 08:53	23°♈02'34	19.25154 AU
conjunction	-9124 Jun	22 j 08:34	23°♈06'21	0°14'57
minimum elong	-9124 Jun	22 j 08:33	23°♈06'21	0°15'07
behind sun begin	-9124 Jun	22 j 06:12	23°♈05'59	
behind sun end	-9124 Jun	22 j 10:55	23°♈06'43	
morning rise	-9124 Jul	08 j 07:51	24°♈07'01	
retrograde	-9124 Oct	07 j 06:27	27°♈29'42	
opposition	-9124 Dec	20 j 00:57	25°♈27'59	0°19'29
min. Earth dist.	-9124 Dec	20 j 22:28	25°♈25'40	17.25993 AU
direct	-9123 Mar	07 j 01:30	23°♈21'47	
evening set	-9123 Jun	11 j 07:44	26°♈53'52	
max. Earth dist.	-9123 Jun	26 j 11:20	27°♈51'22	19.26905 AU
conjunction	-9123 Jun	27 j 09:56	27°♈54'58	0°20'05
minimum elong	-9123 Jun	27 j 09:55	27°♈54'58	0°20'16
morning rise	-9123 Jul	13 j 08:10	28°♈55'28	
	-9123 Jul	31 j 08:07	0°♉	
retrograde	-9123 Oct	12 j 08:42	2°♉18'06	
opposition	-9123 Dec	25 j 05:10	0°♉16'27	0°25'09
min. Earth dist.	-9123 Dec	26 j 00:00	0°♉14'26	17.27988 AU
	-9123 Dec	31 j 15:01	30°℞♈	
direct	-9122 Mar	12 j 07:20	28°♈10'27	
	-9122 May	17 j 18:25	0°♉	
evening set	-9122 Jun	16 j 09:55	1°♉42'07	
conjunction	-9122 Jul	02 j 10:55	2°♉43'00	0°25'03
minimum elong	-9122 Jul	02 j 10:55	2°♉43'00	0°25'18
max. Earth dist.	-9122 Jul	01 j 15:24	2°♉39'53	19.29137 AU
morning rise	-9122 Jul	18 j 07:47	3°♉43'18	
retrograde	-9122 Oct	17 j 08:48	7°♉05'47	
opposition	-9122 Dec	30 j 09:50	5°♉04'13	0°30'36
min. Earth dist.	-9122 Dec	31 j 03:32	5°♉02'19	17.30452 AU
direct	-9121 Mar	17 j 12:27	2°♉58'28	
evening set	-9121 Jun	21 j 11:27	6°♉29'31	

conjunction	-9121 Jul	07 j 10:57	7°♉30'09	0°29'51
minimum elong	-9121 Jul	07 j 10:57	7°♉30'09	0°30'08
max. Earth dist.	-9121 Jul	06 j 16:38	7°♉27'14	19.31842 AU
morning rise	-9121 Jul	23 j 06:52	8°♉30'14	
retrograde	-9121 Oct	22 j 09:36	11°♉52'34	
opposition	-9120 Jan	04 j 14:19	9°♉51'00	0°35'50
min. Earth dist.	-9120 Jan	05 j 05:13	9°♉49'25	17.33387 AU
direct	-9120 Mar	21 j 18:34	7°♉45'30	
evening set	-9120 Jun	25 j 12:06	11°♉15'50	
conjunction	-9120 Jul	11 j 10:31	12°♉16'12	0°34'25
minimum elong	-9120 Jul	11 j 10:30	12°♉16'12	0°34'44
max. Earth dist.	-9120 Jul	10 j 19:42	12°♉13'51	19.35007 AU
morning rise	-9120 Jul	27 j 05:12	13°♉16'04	
	-9120 Aug	26 j 13:15	15°♉	
retrograde	-9120 Oct	26 j 08:36	16°♉38'08	
	-9120 Dec	30 j 13:04	15°℞♉	
opposition	-9119 Jan	08 j 18:37	14°♉36'36	0°40'47
min. Earth dist.	-9119 Jan	09 j 07:48	14°♉35'12	17.36778 AU
direct	-9119 Mar	27 j 00:06	12°♉31'21	
	-9119 Jun	13 j 12:03	15°♉	
evening set	-9119 Jun	30 j 11:59	16°♉00'50	
conjunction	-9119 Jul	16 j 09:02	17°♉00'55	0°38'43
minimum elong	-9119 Jul	16 j 09:01	17°♉00'55	0°39'06
max. Earth dist.	-9119 Jul	15 j 19:39	16°♉58'48	19.38638 AU
morning rise	-9119 Aug	01 j 02:55	18°♉00'33	
retrograde	-9119 Oct	31 j 07:56	21°♉22'18	
opposition	-9118 Jan	13 j 22:37	19°♉20'46	0°45'26
min. Earth dist.	-9118 Jan	14 j 09:06	19°♉19'40	17.40645 AU
direct	-9118 Apr	01 j 05:01	17°♉15'46	
evening set	-9118 Jul	05 j 10:47	20°♉44'18	
conjunction	-9118 Jul	21 j 06:48	21°♉44'06	0°42'44
minimum elong	-9118 Jul	21 j 06:47	21°♉44'06	0°43'08
max. Earth dist.	-9118 Jul	20 j 21:11	21°♉42'35	19.42739 AU
morning rise	-9118 Aug	05 j 23:36	22°♉43'28	
retrograde	-9118 Nov	05 j 05:54	26°♉04'51	
opposition	-9117 Jan	19 j 02:20	24°♉03'21	0°49'45
min. Earth dist.	-9117 Jan	19 j 10:20	24°♉02'31	17.44978 AU
direct	-9117 Apr	06 j 09:48	21°♉58'38	
evening set	-9117 Jul	10 j 08:50	25°♉26'06	
conjunction	-9117 Jul	26 j 03:33	26°♉25'37	0°46'27
minimum elong	-9117 Jul	26 j 03:33	26°♉25'37	0°46'53
max. Earth dist.	-9117 Jul	25 j 19:53	26°♉24'24	19.47326 AU
morning rise	-9117 Aug	10 j 19:38	27°♉24'43	
	-9117 Sep	30 j 03:38	0°♊	
retrograde	-9117 Nov	10 j 04:02	0°♊45'43	
	-9117 Dec	22 j 21:25	30°℞♉	
opposition	-9116 Jan	24 j 05:41	28°♉44'13	0°53'42
min. Earth dist.	-9116 Jan	24 j 10:58	28°♉43'40	17.49826 AU
direct	-9116 Apr	10 j 12:25	26°♉39'48	
	-9116 Jul	12 j 13:33	0°♊	
evening set	-9116 Jul	14 j 05:38	0°♊06'09	
conjunction	-9116 Jul	29 j 23:28	1°♊05'21	0°49'50
minimum elong	-9116 Jul	29 j 23:27	1°♊05'21	0°50'17
max. Earth dist.	-9116 Jul	29 j 19:38	1°♊04'45	19.52421 AU
morning rise	-9116 Aug	14 j 14:41	2°♊04'12	
retrograde	-9116 Nov	14 j 01:43	5°♊24'45	
opposition	-9115 Jan	28 j 08:28	3°♊23'19	0°57'16
min. Earth dist.	-9115 Jan	28 j 10:35	3°♊23'06	17.55159 AU
direct	-9115 Apr	15 j 15:38	1°♊19'16	
evening set	-9115 Jul	19 j 01:45	4°♊44'26	
conjunction	-9115 Aug	03 j 18:29	5°♊43'19	0°52'52

Attention, astronomical year style is used: The year -9115 in astronomical counting style is the year 9116 BCE in historical counting style.

minimum elong	-9115 Aug 03 j 18:29	5°♊43'19	0°53'21
max. Earth dist.	-9115 Aug 03 j 16:53	5°♊43'04	19.57997 AU
morning rise	-9115 Aug 19 j 09:07	6°♊41'54	
retrograde	-9115 Nov 18 j 22:28	10°♊01'59	
opposition	-9114 Feb 02 j 10:37	8°♊00'39	1°00'27
min. Earth dist.	-9114 Feb 02 j 10:21	8°♊00'40	17.60980 AU
direct	-9114 Apr 20 j 15:49	5°♊56'59	
evening set	-9114 Jul 23 j 20:47	9°♊20'56	
conjunction	-9114 Aug 08 j 12:44	10°♊19'31	0°55'33
minimum elong	-9114 Aug 08 j 12:44	10°♊19'31	0°56'04
max. Earth dist.	-9114 Aug 08 j 14:39	10°♊19'49	19.64044 AU
morning rise	-9114 Aug 24 j 02:43	11°♊17'49	
retrograde	-9114 Nov 23 j 20:03	14°♊37'26	
opposition	-9113 Feb 07 j 12:18	12°♊36'13	1°03'13
min. Earth dist.	-9113 Feb 07 j 08:34	12°♊36'37	17.67224 AU
direct	-9113 Apr 25 j 17:42	10°♊33'00	
evening set	-9113 Jul 28 j 14:52	13°♊55'41	
conjunction	-9113 Aug 13 j 05:57	14°♊53'57	0°57'52
minimum elong	-9113 Aug 13 j 05:57	14°♊53'57	0°58'24
max. Earth dist.	-9113 Aug 13 j 10:24	14°♊54'39	19.70481 AU
morning rise	-9113 Aug 28 j 19:30	15°♊52'00	
retrograde	-9113 Nov 28 j 15:37	19°♊11'08	
opposition	-9112 Feb 12 j 13:31	17°♊10'03	1°05'34
min. Earth dist.	-9112 Feb 12 j 07:49	17°♊10'39	17.73844 AU
direct	-9112 Apr 29 j 15:52	15°♊07'18	
evening set	-9112 Aug 01 j 08:04	18°♊28'42	
conjunction	-9112 Aug 16 j 22:31	19°♊26'39	0°59'49
minimum elong	-9112 Aug 16 j 22:30	19°♊26'39	1°00'22
max. Earth dist.	-9112 Aug 17 j 05:57	19°♊27'49	19.77253 AU
morning rise	-9112 Sep 01 j 11:40	20°♊24'26	
retrograde	-9112 Dec 02 j 12:47	23°♊43'01	
opposition	-9111 Feb 16 j 13:45	21°♊42'07	1°07'30
min. Earth dist.	-9111 Feb 16 j 04:40	21°♊43'03	17.80739 AU
direct	-9111 May 04 j 16:10	19°♊39'50	
evening set	-9111 Aug 06 j 00:26	22°♊59'55	
conjunction	-9111 Aug 21 j 14:14	23°♊57'34	1°01'22
minimum elong	-9111 Aug 21 j 14:14	23°♊57'34	1°01'56
max. Earth dist.	-9111 Aug 22 j 00:07	23°♊59'06	19.84250 AU
morning rise	-9111 Sep 06 j 03:06	24°♊55'05	
retrograde	-9111 Dec 07 j 06:55	28°♊13'09	
opposition	-9110 Feb 21 j 13:34	26°♊12'23	1°08'59
min. Earth dist.	-9110 Feb 21 j 03:03	26°♊13'29	17.87834 AU
direct	-9110 May 09 j 12:42	24°♊10'35	
evening set	-9110 Aug 10 j 15:47	27°♊29'19	
conjunction	-9110 Aug 26 j 05:04	28°♊26'39	1°02'32
minimum elong	-9110 Aug 26 j 05:04	28°♊26'39	1°03'06
max. Earth dist.	-9110 Aug 26 j 17:20	28°♊28'33	19.91411 AU
morning rise	-9110 Sep 10 j 17:44	29°♊23'55	
	-9110 Sep 20 j 21:43	0°♋	
retrograde	-9110 Dec 12 j 02:53	2°♋41'25	
opposition	-9109 Feb 26 j 12:33	0°♋40'48	1°10'03
min. Earth dist.	-9109 Feb 25 j 22:43	0°♋42'13	17.95039 AU
	-9109 Mar 15 j 09:24	30°℞♊	
direct	-9109 May 14 j 11:58	28°♊39'27	
	-9109 Jul 10 j 02:29	0°♋	
evening set	-9109 Aug 15 j 06:25	1°♋56'48	
conjunction	-9109 Aug 30 j 19:16	2°♋53'52	1°03'19
minimum elong	-9109 Aug 30 j 19:16	2°♋53'52	1°03'53
max. Earth dist.	-9109 Aug 31 j 09:58	2°♋56'07	19.98638 AU
morning rise	-9109 Sep 15 j 07:50	3°♋50'52	
retrograde	-9109 Dec 16 j 19:43	7°♋07'48	
opposition	-9108 Mar 02 j 10:52	5°♋07'17	1°10'40
min. Earth dist.	-9108 Mar 01 j 19:58	5°♋08'49	18.02293 AU
direct	-9108 May 18 j 07:04	3°♋06'22	
evening set	-9108 Aug 18 j 20:03	6°♋22'20	
conjunction	-9108 Sep 03 j 08:37	7°♋19'06	1°03'42
minimum elong	-9108 Sep 03 j 08:37	7°♋19'06	1°04'16
max. Earth dist.	-9108 Sep 04 j 01:03	7°♋21'38	20.05887 AU
morning rise	-9108 Sep 18 j 21:14	8°♋15'53	
retrograde	-9108 Dec 20 j 13:50	11°♋32'10	
opposition	-9107 Mar 07 j 08:09	9°♋31'46	1°10'52
min. Earth dist.	-9107 Mar 06 j 14:12	9°♋33'36	18.09520 AU
direct	-9107 May 23 j 04:48	7°♋31'16	
evening set	-9107 Aug 23 j 08:50	10°♋45'50	
conjunction	-9107 Sep 07 j 21:12	11°♋42'19	1°03'43
minimum elong	-9107 Sep 07 j 21:12	11°♋42'19	1°04'18
max. Earth dist.	-9107 Sep 08 j 16:00	11°♋45'12	20.13074 AU
morning rise	-9107 Sep 23 j 09:52	12°♋38'51	
retrograde	-9107 Dec 25 j 04:49	15°♋54'31	
min. Earth dist.	-9106 Mar 11 j 09:54	13°♋56'06	18.16678 AU
opposition	-9106 Mar 12 j 04:40	13°♋54'11	1°10'38
direct	-9106 May 27 j 22:44	11°♋54'03	
evening set	-9106 Aug 27 j 20:44	15°♋07'13	
conjunction	-9106 Sep 12 j 08:57	16°♋03'26	1°03'22
minimum elong	-9106 Sep 12 j 08:57	16°♋03'26	1°03'55
max. Earth dist.	-9106 Sep 13 j 05:09	16°♋06'30	20.20199 AU
morning rise	-9106 Sep 27 j 21:53	16°♋59'45	
retrograde	-9106 Dec 29 j 21:00	20°♋14'46	
min. Earth dist.	-9105 Mar 16 j 02:33	18°♋16'40	18.23761 AU
opposition	-9105 Mar 17 j 00:13	18°♋14'28	1°10'01
direct	-9105 Jun 01 j 17:51	16°♋14'41	
evening set	-9105 Sep 01 j 07:34	19°♋26'27	
conjunction	-9105 Sep 16 j 19:51	20°♋22'24	1°02'39
minimum elong	-9105 Sep 16 j 19:51	20°♋22'25	1°03'13
max. Earth dist.	-9105 Sep 17 j 18:36	20°♋25'51	20.27232 AU
morning rise	-9105 Oct 02 j 09:02	21°♋18'30	
retrograde	-9104 Jan 03 j 10:25	24°♋32'52	
opposition	-9104 Mar 20 j 18:56	22°♋32'36	1°09'00
min. Earth dist.	-9104 Mar 19 j 20:28	22°♋34'53	18.30760 AU
direct	-9104 Jun 05 j 10:06	20°♋33'08	
evening set	-9104 Sep 04 j 17:44	23°♋43'32	
conjunction	-9104 Sep 20 j 06:01	24°♋39'14	1°01'36
minimum elong	-9104 Sep 20 j 06:02	24°♋39'14	1°02'08
max. Earth dist.	-9104 Sep 21 j 05:56	24°♋42'51	20.34198 AU
morning rise	-9104 Oct 05 j 19:40	25°♋35'08	
retrograde	-9103 Jan 07 j 00:31	28°♋48'50	
min. Earth dist.	-9103 Mar 24 j 11:13	26°♋51'08	18.37696 AU
opposition	-9103 Mar 25 j 12:21	26°♋48'36	1°07'38
direct	-9103 Jun 10 j 02:16	24°♋49'25	
evening set	-9103 Sep 09 j 03:01	27°♋58'30	
conjunction	-9103 Sep 24 j 15:31	28°♋53'59	1°00'13
minimum elong	-9103 Sep 24 j 15:31	28°♋53'59	1°00'45
max. Earth dist.	-9103 Sep 25 j 17:59	28°♋57'57	20.41091 AU
morning rise	-9103 Oct 10 j 05:31	29°♋49'41	
	-9103 Oct 13 j 04:23	0°♌	
retrograde	-9102 Jan 11 j 12:40	3°♌02'45	
min. Earth dist.	-9102 Mar 29 j 03:06	1°♌05'11	18.44566 AU
opposition	-9102 Mar 30 j 05:06	1°♌02'33	1°05'54
	-9102 Apr 26 j 07:49	30°℞♋	
direct	-9102 Jun 14 j 16:11	29°♋03'43	
	-9102 Jul 31 j 18:21	0°♌	
evening set	-9102 Sep 13 j 11:30	2°♌11'30	

Attention, astronomical year style is used: The year -9102 in astronomical counting style is the year 9103 BCE in historical counting style.

conjunction	-9102 Sep 29 j 00:10	3°♌06'46	0°58'32
minimum elong	-9102 Sep 29 j 00:10	3°♌06'46	0°59'03
max. Earth dist.	-9102 Sep 30 j 03:36	3°♌10'51	20.47935 AU
morning rise	-9102 Oct 14 j 14:47	4°♌02'17	
retrograde	-9101 Jan 16 j 01:46	7°♌14'44	
opposition	-9101 Apr 03 j 20:55	5°♌14'36	1°03'50
min. Earth dist.	-9101 Apr 02 j 16:27	5°♌17'28	18.51379 AU
direct	-9101 Jun 19 j 05:55	3°♌16'05	
evening set	-9101 Sep 17 j 19:23	6°♌22'39	
conjunction	-9101 Oct 03 j 08:28	7°♌17'43	0°56'33
minimum elong	-9101 Oct 03 j 08:29	7°♌17'43	0°57'02
max. Earth dist.	-9101 Oct 04 j 14:21	7°♌22'09	20.54694 AU
morning rise	-9101 Oct 18 j 23:36	8°♌13'05	
retrograde	-9100 Jan 20 j 12:51	11°♌24'56	
min. Earth dist.	-9100 Apr 06 j 06:39	9°♌27'49	18.58089 AU
opposition	-9100 Apr 07 j 11:47	9°♌24'53	1°01'26
direct	-9100 Jun 22 j 17:33	7°♌26'43	
evening set	-9100 Sep 21 j 02:42	10°♌32'08	
conjunction	-9100 Oct 06 j 16:08	11°♌27'00	0°54'17
minimum elong	-9100 Oct 06 j 16:09	11°♌27'00	0°54'46
max. Earth dist.	-9100 Oct 07 j 22:30	11°♌31'30	20.61344 AU
morning rise	-9100 Oct 22 j 08:04	12°♌22'13	
	-9100 Dec 18 j 03:11	15°♌	
retrograde	-9099 Jan 24 j 01:30	15°♌33'31	
	-9099 Mar 03 j 01:54	15°℞♌	
min. Earth dist.	-9099 Apr 10 j 18:51	13°♌36'41	18.64659 AU
opposition	-9099 Apr 12 j 01:48	13°♌33'34	0°58'45
direct	-9099 Jun 27 j 05:19	11°♌35'45	
evening set	-9099 Sep 25 j 09:22	14°♌40'04	
	-9099 Oct 01 j 02:52	15°♌	
conjunction	-9099 Oct 10 j 23:22	15°♌34'47	0°51'44
minimum elong	-9099 Oct 10 j 23:22	15°♌34'47	0°52'11
max. Earth dist.	-9099 Oct 12 j 07:53	15°♌39'34	20.67806 AU
morning rise	-9099 Oct 26 j 15:53	16°♌29'52	
retrograde	-9098 Jan 28 j 11:44	19°♌40'37	
min. Earth dist.	-9098 Apr 15 j 07:47	17°♌43'57	18.71007 AU
opposition	-9098 Apr 16 j 15:07	17°♌40'48	0°55'46
direct	-9098 Jul 01 j 15:24	15°♌43'20	
evening set	-9098 Sep 29 j 15:45	18°♌46'36	
conjunction	-9098 Oct 15 j 06:11	19°♌41'10	0°48'56
minimum elong	-9098 Oct 15 j 06:12	19°♌41'10	0°49'22
max. Earth dist.	-9098 Oct 16 j 14:47	19°♌45'57	20.74036 AU
morning rise	-9098 Oct 30 j 23:38	20°♌36'08	
retrograde	-9097 Feb 01 j 23:36	23°♌46'24	
min. Earth dist.	-9097 Apr 19 j 19:09	21°♌49'57	18.77097 AU
opposition	-9097 Apr 21 j 03:39	21°♌46'41	0°52'30
direct	-9097 Jul 06 j 01:29	19°♌49'32	
evening set	-9097 Oct 03 j 21:38	22°♌51'50	
conjunction	-9097 Oct 19 j 12:48	23°♌46'16	0°45'54
minimum elong	-9097 Oct 19 j 12:49	23°♌46'16	0°46'18
max. Earth dist.	-9097 Oct 20 j 23:06	23°♌51'17	20.79951 AU
morning rise	-9097 Nov 04 j 06:59	24°♌41'08	
retrograde	-9096 Feb 06 j 09:21	27°♌50'55	
min. Earth dist.	-9096 Apr 23 j 07:03	25°♌54'35	18.82827 AU
opposition	-9096 Apr 24 j 15:29	25°♌51'19	0°49'00
direct	-9096 Jul 09 j 10:40	23°♌54'29	
evening set	-9096 Oct 07 j 03:23	26°♌55'52	
conjunction	-9096 Oct 22 j 19:07	27°♌50'11	0°42'39
minimum elong	-9096 Oct 22 j 19:07	27°♌50'11	0°43'00
max. Earth dist.	-9096 Oct 24 j 04:49	27°♌55'05	20.85487 AU
morning rise	-9096 Nov 07 j 14:17	28°♌44'58	
	-9096 Nov 30 j 22:52	0°♍	
retrograde	-9095 Feb 09 j 20:01	1°♍54'17	
	-9095 Apr 26 j 22:19	30°℞♌	
min. Earth dist.	-9095 Apr 27 j 17:32	29°♌58'05	18.88153 AU
opposition	-9095 Apr 29 j 02:26	29°♌54'47	0°45'16
direct	-9095 Jul 13 j 18:50	27°♌58'12	
	-9095 Sep 23 j 07:19	0°♍	
evening set	-9095 Oct 11 j 08:42	0°♍58'44	
conjunction	-9095 Oct 27 j 01:17	1°♍52'58	0°39'12
minimum elong	-9095 Oct 27 j 01:17	1°♍52'58	0°39'32
max. Earth dist.	-9095 Oct 28 j 12:10	1°♍58'02	20.90575 AU
morning rise	-9095 Nov 11 j 21:14	2°♍47'41	
retrograde	-9094 Feb 14 j 04:57	5°♍56'34	
min. Earth dist.	-9094 May 02 j 04:17	4°♍00'24	18.92998 AU
opposition	-9094 May 03 j 12:53	3°♍57'08	0°41'20
direct	-9094 Jul 18 j 03:23	2°♍00'46	
evening set	-9094 Oct 15 j 13:45	5°♍00'31	
conjunction	-9094 Oct 31 j 07:01	5°♍54'39	0°35'34
minimum elong	-9094 Oct 31 j 07:01	5°♍54'39	0°35'51
max. Earth dist.	-9094 Nov 01 j 16:53	5°♍59'33	20.95180 AU
morning rise	-9094 Nov 16 j 04:05	6°♍49'19	
retrograde	-9093 Feb 18 j 14:52	9°♍57'48	
opposition	-9093 May 07 j 22:41	7°♍58'23	0°37'12
min. Earth dist.	-9093 May 06 j 14:04	8°♍01'39	18.97350 AU
direct	-9093 Jul 22 j 10:02	6°♍02'11	
evening set	-9093 Oct 19 j 18:33	9°♍01'12	
conjunction	-9093 Nov 04 j 12:47	9°♍55'17	0°31'46
minimum elong	-9093 Nov 04 j 12:48	9°♍55'17	0°32'03
max. Earth dist.	-9093 Nov 05 j 23:30	10°♍00'17	20.99268 AU
morning rise	-9093 Nov 20 j 10:45	10°♍49'54	
retrograde	-9092 Feb 22 j 22:42	13°♍57'58	
min. Earth dist.	-9092 May 09 j 23:30	12°♍01'47	19.01178 AU
opposition	-9092 May 11 j 07:35	11°♍58'34	0°32'55
direct	-9092 Jul 25 j 17:44	10°♍02'30	
evening set	-9092 Oct 22 j 23:11	13°♍00'51	
conjunction	-9092 Nov 07 j 18:13	13°♍54'53	0°27'51
minimum elong	-9092 Nov 07 j 18:13	13°♍54'53	0°28'04
max. Earth dist.	-9092 Nov 09 j 03:37	13°♍59'41	21.02857 AU
morning rise	-9092 Nov 23 j 17:21	14°♍49'28	
retrograde	-9091 Feb 26 j 07:58	17°♍57'10	
min. Earth dist.	-9091 May 14 j 08:10	16°♍00'55	19.04526 AU
opposition	-9091 May 15 j 15:57	15°♍57'44	0°28'30
direct	-9091 Jul 29 j 23:26	14°♍01'45	
evening set	-9091 Oct 27 j 03:22	16°♍59'30	
conjunction	-9091 Nov 11 j 23:24	17°♍53'30	0°23'49
minimum elong	-9091 Nov 11 j 23:25	17°♍53'30	0°24'00
max. Earth dist.	-9091 Nov 13 j 09:39	17°♍58'25	21.05967 AU
morning rise	-9091 Nov 27 j 23:25	18°♍48'05	
retrograde	-9090 Mar 02 j 14:56	21°♍55'27	
opposition	-9090 May 19 j 23:42	19°♍55'59	0°23'58
min. Earth dist.	-9090 May 18 j 16:19	19°♍59'08	19.07411 AU
direct	-9090 Aug 03 j 05:49	18°♍00'04	
evening set	-9090 Oct 31 j 07:38	20°♍57'17	
conjunction	-9090 Nov 16 j 04:31	21°♍51'17	0°19'41
minimum elong	-9090 Nov 16 j 04:31	21°♍51'17	0°19'49
max. Earth dist.	-9090 Nov 17 j 13:27	21°♍55'59	21.08654 AU
morning rise	-9090 Dec 02 j 05:45	22°♍45'52	
retrograde	-9089 Mar 06 j 23:47	25°♍52'56	
min. Earth dist.	-9089 May 22 j 23:55	23°♍56'32	19.09901 AU
opposition	-9089 May 24 j 06:51	23°♍53'25	0°19'21
direct	-9089 Aug 07 j 10:51	21°♍57'33	

Attention, astronomical year style is used: The year -9089 in astronomical counting style is the year 9090 BCE in historical counting style.

evening set	-9089 Nov 04 j 11:45	24°♑54'20	
conjunction	-9089 Nov 20 j 09:45	25°♑48'21	0°15'28
minimum elong	-9089 Nov 20 j 09:45	25°♑48'21	0°15'34
behind sun begin	-9089 Nov 20 j 08:04	25°♑48'07	
behind sun end	-9089 Nov 20 j 11:26	25°♑48'35	
max. Earth dist.	-9089 Nov 21 j 19:21	25°♑53'08	21.10938 AU
morning rise	-9089 Dec 06 j 11:54	26°♑42'57	
retrograde	-9088 Mar 10 j 06:25	29°♑49'45	
min. Earth dist.	-9088 May 26 j 07:02	27°♑53'18	19.11986 AU
opposition	-9088 May 27 j 13:28	27°♑50'14	0°14'39
direct	-9088 Aug 10 j 15:43	25°♑54'25	
evening set	-9088 Nov 07 j 15:58	28°♑50'52	
conjunction	-9088 Nov 23 j 14:49	29°♑44'53	0°11'12
minimum elong	-9088 Nov 23 j 14:49	29°♑44'53	0°11'16
behind sun begin	-9088 Nov 23 j 09:57	29°♑44'13	
behind sun end	-9088 Nov 23 j 19:41	29°♑45'34	
max. Earth dist.	-9088 Nov 24 j 22:50	29°♑49'27	21.12838 AU
	-9088 Nov 28 j 01:00	0°♎	
morning rise	-9088 Dec 09 j 18:10	0°♎39'32	
retrograde	-9087 Mar 14 j 14:40	3°♎46'08	
opposition	-9087 May 31 j 19:38	1°♎46'37	0°09'53
min. Earth dist.	-9087 May 30 j 13:56	1°♎49'36	19.13695 AU
	-9087 Jul 26 j 19:52	30°℞♑	
direct	-9087 Aug 14 j 20:11	29°♑50'50	
	-9087 Sep 02 j 16:32	0°♎	
evening set	-9087 Nov 11 j 20:07	2°♎47'02	
conjunction	-9087 Nov 27 j 20:07	3°♎41'06	0°06'53
minimum elong	-9087 Nov 27 j 20:07	3°♎41'06	0°06'55
behind sun begin	-9087 Nov 27 j 13:58	3°♎40'15	
behind sun end	-9087 Nov 28 j 02:16	3°♎41'57	
max. Earth dist.	-9087 Nov 29 j 04:36	3°♎45'43	21.14350 AU
morning rise	-9087 Dec 14 j 00:23	4°♎35'47	
retrograde	-9086 Mar 18 j 21:28	7°♎42'14	
min. Earth dist.	-9086 Jun 03 j 20:27	5°♎45'39	19.15002 AU
opposition	-9086 Jun 05 j 01:28	5°♎42'44	0°05'05
direct	-9086 Aug 19 j 00:16	3°♎47'00	
evening set	-9086 Nov 16 j 00:28	6°♎43'01	
conjunction	-9086 Dec 02 j 01:26	7°♎37'09	0°02'32
minimum elong	-9086 Dec 02 j 01:25	7°♎37'09	0°02'33
behind sun begin	-9086 Dec 01 j 18:47	7°♎36'14	
behind sun end	-9086 Dec 02 j 08:02	7°♎38'04	
max. Earth dist.	-9086 Dec 03 j 08:01	7°♎41'29	21.15463 AU
morning rise	-9086 Dec 18 j 06:56	8°♎31'54	
retrograde	-9085 Mar 23 j 05:14	11°♎38'15	
min. Earth dist.	-9085 Jun 08 j 03:15	9°♎41'35	19.15899 AU
opposition	-9085 Jun 09 j 07:06	9°♎38'46	0°00'15
desc. node	-9085 Jun 28 j 00:33	8°♎54'37	
direct	-9085 Aug 23 j 04:11	7°♎43'03	
evening set	-9085 Nov 20 j 05:07	10°♎39'00	
conjunction	-9085 Dec 06 j 07:15	11°♎33'13	-0°01'58
minimum elong	-9085 Dec 06 j 07:15	11°♎33'13	0°02'01
behind sun begin	-9085 Dec 06 j 00:36	11°♎32'18	
behind sun end	-9085 Dec 06 j 13:54	11°♎34'08	
max. Earth dist.	-9085 Dec 07 j 13:51	11°♎37'33	21.16131 AU
morning rise	-9085 Dec 22 j 13:41	12°♎28'03	
retrograde	-9084 Mar 26 j 12:42	15°♎34'19	
min. Earth dist.	-9084 Jun 11 j 09:32	13°♎37'34	19.16325 AU
opposition	-9084 Jun 12 j 12:15	13°♎34'53	-0°04'35
direct	-9084 Aug 26 j 08:14	11°♎39'10	
evening set	-9084 Nov 23 j 10:10	14°♎35'08	
conjunction	-9084 Dec 09 j 13:13	15°♎29'26	-0°06'20
minimum elong	-9084 Dec 09 j 13:13	15°♎29'26	0°06'25
behind sun begin	-9084 Dec 09 j 06:57	15°♎28'34	
behind sun end	-9084 Dec 09 j 19:29	15°♎30'17	
max. Earth dist.	-9084 Dec 10 j 17:24	15°♎33'25	21.16323 AU
morning rise	-9084 Dec 25 j 20:50	16°♎24'21	
retrograde	-9083 Mar 30 j 19:50	19°♎30'37	
opposition	-9083 Jun 16 j 17:27	17°♎31'11	-0°09'24
min. Earth dist.	-9083 Jun 15 j 16:23	17°♎33'43	19.16260 AU
direct	-9083 Aug 30 j 11:31	15°♎35'27	
evening set	-9083 Nov 27 j 15:20	18°♎31'30	
conjunction	-9083 Dec 13 j 19:33	19°♎25'55	-0°10'39
minimum elong	-9083 Dec 13 j 19:33	19°♎25'55	0°10'47
behind sun begin	-9083 Dec 13 j 14:29	19°♎25'13	
behind sun end	-9083 Dec 14 j 00:38	19°♎26'36	
max. Earth dist.	-9083 Dec 14 j 23:19	19°♎29'50	21.15984 AU
morning rise	-9083 Dec 30 j 04:02	20°♎20'56	
retrograde	-9082 Apr 04 j 03:45	23°♎27'14	
opposition	-9082 Jun 20 j 22:28	21°♎27'48	-0°14'11
min. Earth dist.	-9082 Jun 19 j 22:48	21°♎30'12	19.15635 AU
direct	-9082 Sep 03 j 16:04	19°♎32'00	
evening set	-9082 Dec 01 j 21:14	22°♎28'13	
conjunction	-9082 Dec 18 j 02:23	23°♎22'45	-0°14'57
minimum elong	-9082 Dec 18 j 02:22	23°♎22'45	0°15'06
behind sun begin	-9082 Dec 18 j 00:12	23°♎22'27	
behind sun end	-9082 Dec 18 j 04:33	23°♎23'03	
max. Earth dist.	-9082 Dec 19 j 03:09	23°♎26'15	21.15077 AU
morning rise	-9081 Jan 03 j 12:01	24°♎17'53	
retrograde	-9081 Apr 08 j 10:56	27°♎24'14	
min. Earth dist.	-9081 Jun 24 j 05:51	25°♎26'57	19.14430 AU
opposition	-9081 Jun 25 j 03:22	25°♎24'46	-0°18'54
direct	-9081 Sep 07 j 19:18	23°♎28'50	
evening set	-9081 Dec 06 j 03:27	26°♎25'18	
conjunction	-9081 Dec 22 j 09:49	27°♎19'58	-0°19'11
minimum elong	-9081 Dec 22 j 09:48	27°♎19'58	0°19'22
max. Earth dist.	-9081 Dec 23 j 09:35	27°♎23'19	21.13561 AU
morning rise	-9080 Jan 07 j 20:16	28°♎15'15	
	-9080 Feb 11 j 22:05	0°♏	
retrograde	-9080 Apr 11 j 18:43	1°♏21'39	
	-9080 Jun 12 j 12:50	30°℞♎	
opposition	-9080 Jun 28 j 08:13	29°♎22'08	-0°23'32
min. Earth dist.	-9080 Jun 27 j 12:19	29°♎24'10	19.12596 AU
direct	-9080 Sep 11 j 00:14	27°♎26'03	
	-9080 Dec 02 j 10:07	0°♏	
evening set	-9080 Dec 09 j 10:07	0°♏22'47	
conjunction	-9080 Dec 25 j 17:21	1°♏17'37	-0°23'19
minimum elong	-9080 Dec 25 j 17:21	1°♏17'37	0°23'34
max. Earth dist.	-9080 Dec 26 j 13:51	1°♏20'30	21.11432 AU
morning rise	-9079 Jan 11 j 04:54	2°♏13'01	
retrograde	-9079 Apr 16 j 02:23	5°♏19'32	
opposition	-9079 Jul 02 j 13:04	3°♏19'55	-0°28'04
min. Earth dist.	-9079 Jul 01 j 19:26	3°♏21'43	19.10172 AU
direct	-9079 Sep 15 j 03:54	1°♏23'36	
evening set	-9079 Dec 13 j 17:05	4°♏20'43	
conjunction	-9079 Dec 30 j 01:31	5°♏15'42	-0°27'22
minimum elong	-9079 Dec 30 j 01:31	5°♏15'42	0°27'37
max. Earth dist.	-9079 Dec 30 j 21:01	5°♏18'27	21.08726 AU
morning rise	-9078 Jan 15 j 13:49	6°♏11'16	
retrograde	-9078 Apr 20 j 09:55	9°♏17'54	
opposition	-9078 Jul 06 j 17:45	7°♏18'10	-0°32'28
min. Earth dist.	-9078 Jul 06 j 01:43	7°♏19'49	19.07189 AU
direct	-9078 Sep 19 j 08:51	5°♏21'36	
evening set	-9078 Dec 18 j 00:39	8°♏19'09	

Attention, astronomical year style is used: The year -9077 in astronomical counting style is the year 9078 BCE in historical counting style.

conjunction	-9077 Jan 03 j 09:59	9♏14'18	-0°31'16
minimum elong	-9077 Jan 03 j 09:59	9♏14'18	0°31'35
max. Earth dist.	-9077 Jan 04 j 02:12	9♏16'36	21.05501 AU
morning rise	-9077 Jan 19 j 23:22	10♏10'02	
retrograde	-9077 Apr 24 j 18:14	13♏16'50	
opposition	-9077 Jul 10 j 22:35	11♏16'58	-0°36'43
min. Earth dist.	-9077 Jul 10 j 08:54	11♏18'22	19.03725 AU
direct	-9077 Sep 23 j 13:02	9♏20'06	
evening set	-9077 Dec 22 j 08:44	12♏18'10	
conjunction	-9076 Jan 07 j 19:11	13♏13'32	-0°35'02
minimum elong	-9076 Jan 07 j 19:11	13♏13'32	0°35'22
max. Earth dist.	-9076 Jan 08 j 10:24	13♏15'41	21.01810 AU
morning rise	-9076 Jan 24 j 09:11	14♏09'26	
	-9076 Feb 09 j 04:35	15♏	
retrograde	-9076 Apr 28 j 02:04	17♏16'25	
opposition	-9076 Jul 14 j 03:15	15♏16'27	-0°40'48
min. Earth dist.	-9076 Jul 13 j 15:04	15♏17'42	18.99824 AU
	-9076 Jul 20 j 19:42	15°℞♏	
direct	-9076 Sep 26 j 18:07	13♏19'16	
	-9076 Nov 30 j 14:39	15♏	
evening set	-9076 Dec 25 j 17:25	16♏17'58	
conjunction	-9075 Jan 11 j 04:40	17♏13'31	-0°38'38
minimum elong	-9075 Jan 11 j 04:39	17♏13'31	0°39'01
max. Earth dist.	-9075 Jan 11 j 16:38	17♏15'13	20.97726 AU
morning rise	-9075 Jan 27 j 19:37	18♏09'37	
retrograde	-9075 May 02 j 10:45	21♏16'52	
opposition	-9075 Jul 18 j 08:18	19♏16'45	-0°44'42
min. Earth dist.	-9075 Jul 17 j 22:24	19♏17'46	18.95567 AU
direct	-9075 Sep 30 j 22:42	17♏19'16	
evening set	-9075 Dec 30 j 02:26	20♏18'39	
conjunction	-9074 Jan 15 j 14:47	21♏14'27	-0°42'04
minimum elong	-9074 Jan 15 j 14:47	21♏14'27	0°42'28
max. Earth dist.	-9074 Jan 16 j 01:50	21♏16'01	20.93297 AU
morning rise	-9074 Feb 01 j 06:19	22♏10'43	
retrograde	-9074 May 06 j 19:45	25♏18'17	
opposition	-9074 Jul 22 j 13:28	23♏18'04	-0°48'24
min. Earth dist.	-9074 Jul 22 j 04:59	23♏18'57	18.90975 AU
direct	-9074 Oct 05 j 04:25	21♏20'17	
evening set	-9073 Jan 03 j 12:29	24♏20'27	
conjunction	-9073 Jan 20 j 01:35	25♏16'28	-0°45'19
minimum elong	-9073 Jan 20 j 01:35	25♏16'28	0°45'44
max. Earth dist.	-9073 Jan 20 j 09:14	25♏17'34	20.88561 AU
morning rise	-9073 Feb 05 j 17:58	26♏12'58	
retrograde	-9073 May 11 j 05:02	29♏20'52	
opposition	-9073 Jul 26 j 18:55	27♏20'35	-0°51'53
min. Earth dist.	-9073 Jul 26 j 12:54	27♏21'12	18.86098 AU
direct	-9073 Oct 09 j 09:33	25♏22'29	
evening set	-9072 Jan 07 j 23:08	28♏23'31	
conjunction	-9072 Jan 24 j 13:17	29♏19'48	-0°48'21
minimum elong	-9072 Jan 24 j 13:16	29♏19'48	0°48'48
max. Earth dist.	-9072 Jan 24 j 19:48	29♏20'44	20.83539 AU
	-9072 Feb 05 j 08:10	0♐	
morning rise	-9072 Feb 10 j 06:07	0♐16'30	
retrograde	-9072 May 14 j 15:27	3♐24'48	
opposition	-9072 Jul 30 j 00:43	1♐24'27	-0°55'08
min. Earth dist.	-9072 Jul 29 j 20:09	1♐24'56	18.80931 AU
	-9072 Sep 05 j 16:50	30°℞♏	
direct	-9072 Oct 12 j 16:08	29♏26'04	
	-9072 Nov 18 j 01:52	0♐	
evening set	-9071 Jan 11 j 10:36	2♐28'03	
conjunction	-9071 Jan 28 j 01:22	3♐24'35	-0°51'10
minimum elong	-9071 Jan 28 j 01:21	3♐24'35	0°51'38
max. Earth dist.	-9071 Jan 28 j 04:23	3♐25'01	20.78239 AU
morning rise	-9071 Feb 13 j 18:55	4♐21'31	
retrograde	-9071 May 19 j 01:44	7♐30'16	
opposition	-9071 Aug 03 j 07:03	5♐29'53	-0°58'08
min. Earth dist.	-9071 Aug 03 j 05:06	5♐30'05	18.75498 AU
direct	-9071 Oct 16 j 22:08	3♐31'11	
evening set	-9070 Jan 15 j 22:53	6♐34'12	
conjunction	-9070 Feb 01 j 14:36	7♐31'00	-0°53'43
minimum elong	-9070 Feb 01 j 14:36	7♐31'00	0°54'14
max. Earth dist.	-9070 Feb 01 j 16:18	7♐31'14	20.72661 AU
morning rise	-9070 Feb 18 j 08:29	8♐28'09	
retrograde	-9070 May 23 j 13:35	11♐37'22	
opposition	-9070 Aug 07 j 13:38	9♐36'57	-1°00'51
min. Earth dist.	-9070 Aug 07 j 13:18	9♐37'00	18.69768 AU
direct	-9070 Oct 21 j 05:40	7♐37'57	
evening set	-9069 Jan 20 j 12:20	10♐42'04	
conjunction	-9069 Feb 06 j 04:37	11♐39'08	-0°56'02
minimum elong	-9069 Feb 06 j 04:36	11♐39'08	0°56'33
max. Earth dist.	-9069 Feb 06 j 02:25	11♐38'49	20.66780 AU
morning rise	-9069 Feb 22 j 23:06	12♐36'32	
retrograde	-9069 May 28 j 01:25	15♐46'16	
opposition	-9069 Aug 11 j 20:59	13♐45'48	-1°03'16
min. Earth dist.	-9069 Aug 11 j 23:39	13♐45'31	18.63733 AU
direct	-9069 Oct 25 j 13:05	11♐46'26	
evening set	-9068 Jan 25 j 02:34	14♐51'43	
conjunction	-9068 Feb 10 j 19:38	15♐49'04	-0°58'03
minimum elong	-9068 Feb 10 j 19:38	15♐49'04	0°58'35
max. Earth dist.	-9068 Feb 10 j 15:44	15♐48'30	20.60572 AU
morning rise	-9068 Feb 27 j 14:18	16♐46'42	
retrograde	-9068 May 31 j 14:36	19♐56'57	
opposition	-9068 Aug 15 j 04:46	17♐56'25	-1°05'22
min. Earth dist.	-9068 Aug 15 j 09:06	17♐55'58	18.57354 AU
direct	-9068 Oct 28 j 22:06	15♐56'42	
evening set	-9067 Jan 28 j 17:50	19♐03'09	
conjunction	-9067 Feb 14 j 11:20	20♐00'47	-0°59'47
minimum elong	-9067 Feb 14 j 11:20	20♐00'47	1°00'20
max. Earth dist.	-9067 Feb 14 j 03:25	19♐59'38	20.54027 AU
morning rise	-9067 Mar 03 j 06:26	20♐58'40	
retrograde	-9067 Jun 05 j 03:35	24♐09'27	
opposition	-9067 Aug 19 j 13:19	22♐08'49	-1°07'07
min. Earth dist.	-9067 Aug 19 j 20:45	22♐08'02	18.50657 AU
direct	-9067 Nov 02 j 06:50	20♐08'40	
evening set	-9066 Feb 02 j 09:43	23♐16'21	
conjunction	-9066 Feb 19 j 03:58	24♐14'17	-1°01'11
minimum elong	-9066 Feb 19 j 03:58	24♐14'17	1°01'44
max. Earth dist.	-9066 Feb 18 j 18:15	24♐12'52	20.47173 AU
morning rise	-9066 Mar 07 j 23:11	25♐12'24	
retrograde	-9066 Jun 09 j 18:09	28♐23'43	
opposition	-9066 Aug 23 j 22:23	26♐22'58	-1°08'32
min. Earth dist.	-9066 Aug 24 j 07:22	26♐22'01	18.43649 AU
direct	-9066 Nov 06 j 18:00	24♐22'22	
evening set	-9065 Feb 07 j 02:49	27♐31'17	
conjunction	-9065 Feb 23 j 21:24	28♐29'31	-1°02'16
minimum elong	-9065 Feb 23 j 21:24	28♐29'31	1°02'50
max. Earth dist.	-9065 Feb 23 j 07:48	28♐27'32	20.40035 AU
morning rise	-9065 Mar 12 j 16:53	29♐27'54	
	-9065 Mar 22 j 06:49	0♑	
retrograde	-9065 Jun 14 j 07:31	2♑39'44	
opposition	-9065 Aug 28 j 08:05	0♑38'50	-1°09'34
min. Earth dist.	-9065 Aug 28 j 20:12	0♑37'33	18.36407 AU

Attention, astronomical year style is used: The year -9065 in astronomical counting style is the year 9066 BCE in historical counting style.

	-9065 Sep 12 j 19:51	30°℞♐		
direct	-9065 Nov 11 j 03:54	28°♐37'45		
	-9064 Jan 08 j 00:03	0°♑		
evening set	-9064 Feb 11 j 20:34	1°♑47'57		
conjunction	-9064 Feb 28 j 15:43	2°♑46'29	-1°03'01	
minimum elong	-9064 Feb 28 j 15:43	2°♑46'29	1°03'34	
max. Earth dist.	-9064 Feb 28 j 00:27	2°♑44'15	20.32701 AU	
morning rise	-9064 Mar 16 j 11:09	3°♑45'06		
retrograde	-9064 Jun 17 j 23:36	6°♑57'28		
opposition	-9064 Aug 31 j 18:24	4°♑56'25	-1°10'13	
min. Earth dist.	-9064 Sep 01 j 07:46	4°♑55'00	18.28999 AU	
direct	-9064 Nov 14 j 17:11	2°♑54'51		
evening set	-9063 Feb 15 j 15:06	6°♑06'21		
conjunction	-9063 Mar 04 j 10:27	7°♑05'10	-1°03'24	
minimum elong	-9063 Mar 04 j 10:27	7°♑05'10	1°03'59	
max. Earth dist.	-9063 Mar 03 j 15:57	7°♑02'27	20.25239 AU	
morning rise	-9063 Mar 21 j 05:57	8°♑04'02		
retrograde	-9063 Jun 22 j 13:21	11°♑16'58		
opposition	-9063 Sep 05 j 05:31	9°♑15'45	-1°10'30	
min. Earth dist.	-9063 Sep 05 j 21:45	9°♑14'01	18.21518 AU	
direct	-9063 Nov 19 j 04:33	7°♑13'41		
evening set	-9062 Feb 20 j 10:30	10°♑26'31		
max. Earth dist.	-9062 Mar 08 j 10:14	11°♑22'41	20.17747 AU	
conjunction	-9062 Mar 09 j 06:13	11°♑25'38	-1°03'27	
minimum elong	-9062 Mar 09 j 06:13	11°♑25'38	1°04'01	
morning rise	-9062 Mar 26 j 01:36	12°♑24'44		
retrograde	-9062 Jun 27 j 06:34	15°♑38'14		
opposition	-9062 Sep 09 j 17:07	13°♑36'52	-1°10'22	
min. Earth dist.	-9062 Sep 10 j 10:18	13°♑35'01	18.14033 AU	
direct	-9062 Nov 23 j 19:40	11°♑34'19		
evening set	-9061 Feb 25 j 06:56	14°♑48'31		
max. Earth dist.	-9061 Mar 13 j 03:58	15°♑44'32	20.10281 AU	
conjunction	-9061 Mar 14 j 02:44	15°♑47'55	-1°03'07	
minimum elong	-9061 Mar 14 j 02:44	15°♑47'55	1°03'41	
morning rise	-9061 Mar 30 j 21:57	16°♑47'15		
retrograde	-9061 Jul 01 j 21:27	20°♑01'21		
opposition	-9061 Sep 14 j 05:46	17°♑59'50	-1°09'50	
min. Earth dist.	-9061 Sep 15 j 01:35	17°♑57'42	18.06625 AU	
direct	-9061 Nov 28 j 08:56	15°♑56'49		
evening set	-9060 Mar 01 j 03:59	19°♑12'26		
conjunction	-9060 Mar 17 j 23:55	20°♑12'06	-1°02'26	
minimum elong	-9060 Mar 17 j 23:55	20°♑12'06	1°03'00	
max. Earth dist.	-9060 Mar 16 j 23:45	20°♑08'30	20.02931 AU	
morning rise	-9060 Apr 03 j 18:50	21°♑11'40		
retrograde	-9060 Jul 05 j 15:52	24°♑26'22		
opposition	-9060 Sep 17 j 19:05	22°♑24'45	-1°08'54	
min. Earth dist.	-9060 Sep 18 j 15:26	22°♑22'33	17.99350 AU	
direct	-9060 Dec 02 j 01:51	20°♑21'19		
evening set	-9059 Mar 06 j 02:01	23°♑38'20		
conjunction	-9059 Mar 22 j 21:55	24°♑38'17	-1°01'22	
minimum elong	-9059 Mar 22 j 21:55	24°♑38'17	1°01'55	
max. Earth dist.	-9059 Mar 21 j 19:38	24°♑34'21	19.95739 AU	
morning rise	-9059 Apr 08 j 16:27	25°♑38'04		
retrograde	-9059 Jul 10 j 08:10	28°♑53'24		
opposition	-9059 Sep 22 j 09:22	26°♑51'43	-1°07'32	
min. Earth dist.	-9059 Sep 23 j 08:09	26°♑49'15	17.92270 AU	
direct	-9059 Dec 06 j 16:48	24°♑47'53		
evening set	-9058 Mar 11 j 00:51	28°♑06'19		
conjunction	-9058 Mar 27 j 20:42	29°♑06'32	-0°59'56	
minimum elong	-9058 Mar 27 j 20:42	29°♑06'32	1°00'28	
max. Earth dist.	-9058 Mar 26 j 16:53	29°♑02'21	19.88770 AU	
	-9058 Apr 11 j 18:23	0°♒		
morning rise	-9058 Apr 13 j 14:54	0°♒06'33		
retrograde	-9058 Jul 15 j 04:14	3°♒22'31		
opposition	-9058 Sep 27 j 00:28	1°♒20'47	-1°05'45	
min. Earth dist.	-9058 Sep 27 j 23:40	1°♒18'16	17.85406 AU	
	-9058 Oct 30 j 21:05	30°℞♑		
direct	-9058 Dec 11 j 11:28	29°♑16'36		
	-9057 Jan 21 j 13:06	0°♒		
evening set	-9057 Mar 16 j 00:41	2°♒36'28		
conjunction	-9057 Apr 01 j 20:22	3°♒36'57	-0°58'07	
minimum elong	-9057 Apr 01 j 20:22	3°♒36'57	0°58'37	
max. Earth dist.	-9057 Mar 31 j 15:00	3°♒32'31	19.82009 AU	
morning rise	-9057 Apr 18 j 13:56	4°♒37'10		
retrograde	-9057 Jul 19 j 22:15	7°♒53'46		
opposition	-9057 Oct 01 j 16:39	5°♒52'02	-1°03'32	
min. Earth dist.	-9057 Oct 02 j 18:13	5°♒49'16	17.78766 AU	
direct	-9057 Dec 16 j 04:42	3°♒47'32		
evening set	-9056 Mar 20 j 01:21	7°♒08'50		
conjunction	-9056 Apr 05 j 20:41	8°♒09'32	-0°55'55	
minimum elong	-9056 Apr 05 j 20:41	8°♒09'33	0°56'24	
max. Earth dist.	-9056 Apr 04 j 13:35	8°♒04'49	19.75488 AU	
morning rise	-9056 Apr 22 j 13:46	9°♒09'57		
retrograde	-9056 Jul 23 j 19:36	12°♒27'13		
opposition	-9056 Oct 05 j 09:43	10°♒25'28	-1°00'55	
min. Earth dist.	-9056 Oct 06 j 11:38	10°♒22'39	17.72357 AU	
direct	-9056 Dec 20 j 01:10	8°♒20'40		
evening set	-9055 Mar 25 j 02:37	11°♒43'20		
conjunction	-9055 Apr 10 j 21:40	12°♒44'17	-0°53'21	
minimum elong	-9055 Apr 10 j 21:40	12°♒44'17	0°53'49	
max. Earth dist.	-9055 Apr 09 j 13:38	12°♒39'24	19.69176 AU	
morning rise	-9055 Apr 27 j 13:56	13°♒44'52		
	-9055 May 19 j 17:56	15°♒		
retrograde	-9055 Jul 28 j 15:25	17°♒02'45		
opposition	-9055 Oct 10 j 03:56	15°♒01'00	-0°57'52	
	-9055 Oct 10 j 13:09	15°℞♒		
min. Earth dist.	-9055 Oct 11 j 08:00	14°♒57'57	17.66158 AU	
direct	-9055 Dec 24 j 20:58	12°♒55'55		
	-9054 Mar 06 j 14:11	15°♒		
evening set	-9054 Mar 30 j 04:53	16°♒19'55		
conjunction	-9054 Apr 15 j 23:21	17°♒21'03	-0°50'25	
minimum elong	-9054 Apr 15 j 23:21	17°♒21'03	0°50'50	
max. Earth dist.	-9054 Apr 14 j 13:16	17°♒15'50	19.63089 AU	
morning rise	-9054 May 02 j 15:00	18°♒21'49		
retrograde	-9054 Aug 02 j 13:47	21°♒40'17		
opposition	-9054 Oct 14 j 22:52	19°♒38'31	-0°54'26	
min. Earth dist.	-9054 Oct 16 j 03:18	19°♒35'25	17.60184 AU	
direct	-9054 Dec 29 j 19:34	17°♒33'07		
evening set	-9053 Apr 04 j 07:44	20°♒58'23		
max. Earth dist.	-9053 Apr 19 j 15:18	21°♒54'26	19.57222 AU	
conjunction	-9053 Apr 21 j 01:46	21°♒59'43	-0°47'08	
minimum elong	-9053 Apr 21 j 01:46	21°♒59'44	0°47'32	
morning rise	-9053 May 07 j 16:23	23°♒00'37		
retrograde	-9053 Aug 07 j 11:07	26°♒19'39		
opposition	-9053 Oct 19 j 19:02	24°♒17'51	-0°50'36	
min. Earth dist.	-9053 Oct 21 j 01:08	24°♒14'34	17.54446 AU	
direct	-9052 Jan 03 j 17:19	22°♒12'10		
evening set	-9052 Apr 08 j 11:04	25°♒38'37		
max. Earth dist.	-9052 Apr 23 j 15:58	26°♒34'30	19.51631 AU	
conjunction	-9052 Apr 25 j 04:16	26°♒40'06	-0°43'31	
minimum elong	-9052 Apr 25 j 04:16	26°♒40'06	0°43'54	

Attention, astronomical year style is used: The year -9052 in astronomical counting style is the year 9053 BCE in historical counting style.

morning rise	-9052 May 11 j 18:09	27°♒41'08	
	-9052 Jun 25 j 00:08	0°♓	
retrograde	-9052 Aug 11 j 10:46	1°♓00'42	
	-9052 Sep 29 j 04:13	30°℞♒	
opposition	-9052 Oct 23 j 15:53	28°♒58'49	-0°46'26
min. Earth dist.	-9052 Oct 24 j 22:07	28°♒55'32	17.49012 AU
direct	-9051 Jan 07 j 17:36	26°♒52'51	
	-9051 Apr 07 j 22:31	0°♓	
evening set	-9051 Apr 13 j 14:46	0°♓20'23	
max. Earth dist.	-9051 Apr 28 j 19:35	1°♓16'28	19.46361 AU
conjunction	-9051 Apr 30 j 07:24	1°♓22'01	-0°39'36
minimum elong	-9051 Apr 30 j 07:25	1°♓22'02	0°39'56
morning rise	-9051 May 16 j 20:09	2°♓23'09	
retrograde	-9051 Aug 16 j 09:17	5°♓43'11	
opposition	-9051 Oct 28 j 13:33	3°♓41'15	-0°41'55
min. Earth dist.	-9051 Oct 29 j 20:48	3°♓37'51	17.43927 AU
direct	-9050 Jan 12 j 16:36	1°♓35'01	
evening set	-9050 Apr 18 j 19:00	5°♓03'33	
max. Earth dist.	-9050 May 03 j 21:23	5°♓59'30	19.41488 AU
conjunction	-9050 May 05 j 10:39	6°♓05'18	-0°35'24
minimum elong	-9050 May 05 j 10:40	6°♓05'18	0°35'43
morning rise	-9050 May 21 j 22:32	7°♓06'31	
retrograde	-9050 Aug 21 j 09:40	10°♓26'59	
opposition	-9050 Nov 02 j 12:03	8°♓24'58	-0°37'06
min. Earth dist.	-9050 Nov 03 j 19:17	8°♓21'34	17.39278 AU
direct	-9049 Jan 17 j 18:11	6°♓18'28	
evening set	-9049 Apr 23 j 23:16	9°♓47'55	
max. Earth dist.	-9049 May 09 j 02:10	10°♓44'08	19.37072 AU
conjunction	-9049 May 10 j 14:09	10°♓49'45	-0°30'57
minimum elong	-9049 May 10 j 14:09	10°♓49'45	0°31'12
morning rise	-9049 May 27 j 00:46	11°♓51'01	
retrograde	-9049 Aug 26 j 08:51	15°♓11'53	
opposition	-9049 Nov 07 j 11:25	13°♓09'49	-0°32'01
min. Earth dist.	-9049 Nov 08 j 18:42	13°♓06'23	17.35114 AU
direct	-9048 Jan 22 j 18:59	11°♓03'06	
evening set	-9048 Apr 28 j 03:51	14°♓33'20	
max. Earth dist.	-9048 May 13 j 04:55	15°♓29'29	19.33190 AU
conjunction	-9048 May 14 j 17:34	15°♓35'14	-0°26'17
minimum elong	-9048 May 14 j 17:34	15°♓35'14	0°26'30
morning rise	-9048 May 31 j 03:10	16°♓36'31	
retrograde	-9048 Aug 30 j 09:11	19°♓57'46	
opposition	-9048 Nov 11 j 11:26	17°♓55'36	-0°26'41
min. Earth dist.	-9048 Nov 12 j 18:25	17°♓52'13	17.31535 AU
direct	-9047 Jan 26 j 21:50	15°♓48'43	
evening set	-9047 May 03 j 08:15	19°♓19'39	
max. Earth dist.	-9047 May 18 j 10:15	20°♓16'06	19.29914 AU
conjunction	-9047 May 19 j 21:03	20°♓21'34	-0°21'25
minimum elong	-9047 May 19 j 21:03	20°♓21'34	0°21'34
morning rise	-9047 Jun 05 j 05:24	21°♓22'52	
retrograde	-9047 Sep 04 j 08:51	24°♓44'26	
opposition	-9047 Nov 16 j 12:12	22°♓42'15	-0°21'10
min. Earth dist.	-9047 Nov 17 j 18:16	22°♓38'58	17.28565 AU
direct	-9046 Feb 01 j 01:03	20°♓35'16	
evening set	-9046 May 08 j 12:58	24°♓06'46	
max. Earth dist.	-9046 May 23 j 13:48	25°♓03'13	19.27277 AU
conjunction	-9046 May 25 j 00:29	25°♓08'41	-0°16'23
minimum elong	-9046 May 25 j 00:30	25°♓08'41	0°16'30
morning rise	-9046 Jun 10 j 07:38	26°♓09'58	
retrograde	-9046 Sep 09 j 08:42	29°♓31'49	
opposition	-9046 Nov 21 j 13:35	27°♓29'38	-0°15'28
min. Earth dist.	-9046 Nov 22 j 19:13	27°♓26'24	17.26271 AU
direct	-9045 Feb 06 j 04:56	25°♓22'36	
evening set	-9045 May 13 j 17:33	28°♓54'35	
max. Earth dist.	-9045 May 28 j 19:16	29°♓51'18	19.25331 AU
conjunction	-9045 May 30 j 03:56	29°♓56'28	-0°11'14
minimum elong	-9045 May 30 j 03:56	29°♓56'28	0°11'19
behind sun begin	-9045 May 29 j 23:03	29°♓55'42	
behind sun end	-9045 May 30 j 08:49	29°♓57'13	
	-9045 May 31 j 02:20	0°♈	
morning rise	-9045 Jun 15 j 09:47	0°♈57'42	
retrograde	-9045 Sep 14 j 09:33	4°♈19'49	
opposition	-9045 Nov 26 j 15:42	2°♈17'40	-0°09'40
min. Earth dist.	-9045 Nov 27 j 19:38	2°♈14'37	17.24657 AU
direct	-9044 Feb 11 j 09:57	0°♈10'41	
evening set	-9044 May 17 j 21:57	3°♈42'59	
max. Earth dist.	-9044 Jun 01 j 23:27	4°♈39'48	19.24064 AU
conjunction	-9044 Jun 03 j 07:03	4°♈44'49	-0°06'01
minimum elong	-9044 Jun 03 j 07:03	4°♈44'49	0°06'02
behind sun begin	-9044 Jun 03 j 00:40	4°♈43'50	
behind sun end	-9044 Jun 03 j 13:25	4°♈45'48	
morning rise	-9044 Jun 19 j 11:38	5°♈45'59	
retrograde	-9044 Sep 18 j 09:40	9°♈08'20	
opposition	-9044 Nov 30 j 18:24	7°♈06'15	-0°03'45
min. Earth dist.	-9044 Dec 01 j 21:53	7°♈03'15	17.23729 AU
direct	-9043 Feb 15 j 13:58	4°♈59'20	
evening set	-9043 May 23 j 02:17	8°♈31'53	
max. Earth dist.	-9043 Jun 07 j 04:20	9°♈28'53	19.23469 AU
conjunction	-9043 Jun 08 j 10:06	9°♈33'37	-0°00'40
minimum elong	-9043 Jun 08 j 10:06	9°♈33'37	0°00'39
behind sun begin	-9043 Jun 08 j 03:26	9°♈32'35	
behind sun end	-9043 Jun 08 j 16:46	9°♈34'39	
morning rise	-9043 Jun 24 j 13:28	10°♈34'42	
asc. node	-9043 Jul 24 j 09:58	12°♈17'10	
retrograde	-9043 Sep 23 j 11:42	13°♈57'12	
opposition	-9043 Dec 05 j 21:22	11°♈55'13	0°02'11
min. Earth dist.	-9043 Dec 06 j 22:48	11°♈52'27	17.23434 AU
direct	-9042 Feb 20 j 19:52	9°♈48'26	
evening set	-9042 May 28 j 06:29	13°♈21'05	
max. Earth dist.	-9042 Jun 12 j 08:55	14°♈18'15	19.23480 AU
conjunction	-9042 Jun 13 j 13:00	14°♈22'42	0°04'45
minimum elong	-9042 Jun 13 j 12:59	14°♈22'42	0°04'50
behind sun begin	-9042 Jun 13 j 06:29	14°♈21'42	
behind sun end	-9042 Jun 13 j 19:30	14°♈23'43	
morning rise	-9042 Jun 29 j 14:59	15°♈23'41	
retrograde	-9042 Sep 28 j 12:05	18°♈46'18	
opposition	-9042 Dec 11 j 01:09	16°♈44'24	0°08'07
min. Earth dist.	-9042 Dec 12 j 02:10	16°♈41'42	17.23743 AU
direct	-9041 Feb 25 j 23:47	14°♈37'47	
evening set	-9041 Jun 02 j 10:17	18°♈10'24	
conjunction	-9041 Jun 18 j 15:20	19°♈11'52	0°10'01
minimum elong	-9041 Jun 18 j 15:20	19°♈11'52	0°10'09
behind sun begin	-9041 Jun 18 j 10:00	19°♈11'02	
behind sun end	-9041 Jun 18 j 20:40	19°♈12'42	
max. Earth dist.	-9041 Jun 17 j 12:47	19°♈07'38	19.24075 AU
morning rise	-9041 Jul 04 j 16:08	20°♈12'43	
retrograde	-9041 Oct 03 j 14:47	23°♈35'23	
opposition	-9041 Dec 16 j 05:11	21°♈33'34	0°14'00
min. Earth dist.	-9041 Dec 17 j 03:39	21°♈31'09	17.24602 AU
direct	-9040 Mar 02 j 06:14	19°♈27'08	
evening set	-9040 Jun 06 j 13:41	22°♈59'33	
conjunction	-9040 Jun 22 j 17:28	24°♈00'51	0°15'13
minimum elong	-9040 Jun 22 j 17:28	24°♈00'51	0°15'23

Attention, astronomical year style is used: The year -9040 in astronomical counting style is the year 9041 BCE in historical counting style.

behind sun begin	-9040 Jun	22 j 15:26	24°♈00'32	
behind sun end	-9040 Jun	22 j 19:29	24°♈01'10	
max. Earth dist.	-9040 Jun	21 j 17:18	23°♈57'01	19.25197 AU
morning rise	-9040 Jul	08 j 16:52	25°♈01'33	
retrograde	-9040 Oct	07 j 15:03	28°♈24'12	
opposition	-9040 Dec	20 j 09:30	26°♈22'28	0°19'47
min. Earth dist.	-9040 Dec	21 j 07:24	26°♈20'07	17.25984 AU
direct	-9039 Mar	07 j 10:20	24°♈16'13	
evening set	-9039 Jun	11 j 16:36	27°♈48'19	
conjunction	-9039 Jun	27 j 18:56	28°♈49'25	0°20'19
minimum elong	-9039 Jun	27 j 18:55	28°♈49'25	0°20'32
max. Earth dist.	-9039 Jun	26 j 19:57	28°♈45'46	19.26833 AU
morning rise	-9039 Jul	13 j 17:16	29°♈49'56	
	-9039 Jul	16 j 10:14	0°♉	
retrograde	-9039 Oct	12 j 17:14	3°♉12'31	
opposition	-9039 Dec	25 j 13:52	1°♉10'50	0°25'24
min. Earth dist.	-9039 Dec	26 j 09:01	1°♉08'47	17.27854 AU
	-9038 Jan	23 j 19:51	30°℞♈	
direct	-9038 Mar	12 j 16:43	29°♈04'48	
	-9038 Apr	28 j 00:20	0°♉	
evening set	-9038 Jun	16 j 18:48	2°♉36'26	
conjunction	-9038 Jul	02 j 19:54	3°♉37'20	0°25'16
minimum elong	-9038 Jul	02 j 19:54	3°♉37'20	0°25'31
max. Earth dist.	-9038 Jul	01 j 23:56	3°♉34'09	19.28939 AU
morning rise	-9038 Jul	18 j 16:53	4°♉37'38	
retrograde	-9038 Oct	17 j 17:09	8°♉00'06	
opposition	-9038 Dec	30 j 18:28	5°♉58'28	0°30'49
min. Earth dist.	-9038 Dec	31 j 12:37	5°♉56'31	17.30195 AU
direct	-9037 Mar	17 j 21:14	3°♉52'38	
evening set	-9037 Jun	21 j 20:25	7°♉23'41	
conjunction	-9037 Jul	07 j 20:03	8°♉24'19	0°30'01
minimum elong	-9037 Jul	07 j 20:03	8°♉24'19	0°30'19
max. Earth dist.	-9037 Jul	07 j 01:23	8°♉21'21	19.31531 AU
morning rise	-9037 Jul	23 j 16:04	9°♉24'26	
retrograde	-9037 Oct	22 j 18:21	12°♉46'42	
opposition	-9036 Jan	04 j 22:51	10°♉45'05	0°36'00
min. Earth dist.	-9036 Jan	05 j 14:03	10°♉43'28	17.33028 AU
direct	-9036 Mar	22 j 03:11	8°♉39'29	
evening set	-9036 Jun	25 j 20:55	12°♉09'48	
conjunction	-9036 Jul	11 j 19:28	13°♉10'12	0°34'32
minimum elong	-9036 Jul	11 j 19:28	13°♉10'12	0°34'53
max. Earth dist.	-9036 Jul	11 j 04:22	13°♉07'48	19.34606 AU
morning rise	-9036 Jul	27 j 14:17	14°♉10'04	
	-9036 Aug	10 j 09:18	15°♉	
retrograde	-9036 Oct	26 j 17:31	17°♉32'06	
opposition	-9035 Jan	09 j 03:09	15°♉30'30	0°40'55
min. Earth dist.	-9035 Jan	09 j 16:45	15°♉29'03	17.36340 AU
	-9035 Jan	21 j 04:51	15°℞♉	
direct	-9035 Mar	27 j 08:10	13°♉25'10	
	-9035 May	27 j 21:05	15°♉	
evening set	-9035 Jun	30 j 20:50	16°♉54'39	
conjunction	-9035 Jul	16 j 17:58	17°♉54'46	0°38'48
minimum elong	-9035 Jul	16 j 17:58	17°♉54'46	0°39'10
max. Earth dist.	-9035 Jul	16 j 04:22	17°♉52'36	19.38173 AU
morning rise	-9035 Aug	01 j 11:56	18°♉54'24	
retrograde	-9035 Oct	31 j 16:47	22°♉16'08	
opposition	-9034 Jan	14 j 06:59	20°♉14'33	0°45'31
min. Earth dist.	-9034 Jan	14 j 17:36	20°♉13'25	17.40164 AU
direct	-9034 Apr	01 j 13:13	18°♉09'28	
evening set	-9034 Jul	05 j 19:41	21°♉38'03	
conjunction	-9034 Jul	21 j 15:47	22°♉37'53	0°42'47
minimum elong	-9034 Jul	21 j 15:47	22°♉37'53	0°43'12
max. Earth dist.	-9034 Jul	21 j 06:07	22°♉36'21	19.42253 AU
morning rise	-9034 Aug	06 j 08:39	23°♉37'15	
retrograde	-9034 Nov	05 j 15:15	26°♉58'39	
opposition	-9033 Jan	19 j 10:45	24°♉57'07	0°49'47
min. Earth dist.	-9033 Jan	19 j 18:58	24°♉56'14	17.44499 AU
direct	-9033 Apr	06 j 17:53	22°♉52'21	
evening set	-9033 Jul	10 j 17:39	26°♉19'54	
conjunction	-9033 Jul	26 j 12:27	27°♉19'26	0°46'28
minimum elong	-9033 Jul	26 j 12:27	27°♉19'26	0°46'54
max. Earth dist.	-9033 Jul	26 j 04:43	27°♉18'13	19.46858 AU
morning rise	-9033 Aug	11 j 04:37	28°♉18'34	
	-9033 Sep	09 j 21:22	0°♊	
retrograde	-9033 Nov	10 j 12:58	1°♊39'36	
	-9032 Jan	15 j 21:10	30°℞♉	
opposition	-9032 Jan	24 j 14:03	29°♉38'07	0°53'43
min. Earth dist.	-9032 Jan	24 j 19:19	29°♉37'34	17.49377 AU
direct	-9032 Apr	10 j 20:59	27°♉33'41	
	-9032 Jun	27 j 16:48	0°♊	
evening set	-9032 Jul	14 j 14:39	1°♊00'11	
conjunction	-9032 Jul	30 j 08:34	1°♊59'24	0°49'49
minimum elong	-9032 Jul	30 j 08:34	1°♊59'24	0°50'17
max. Earth dist.	-9032 Jul	30 j 04:46	1°♊58'48	19.51993 AU
morning rise	-9032 Aug	14 j 23:50	2°♊58'17	
retrograde	-9032 Nov	14 j 10:41	6°♊18'54	
opposition	-9031 Jan	28 j 16:42	4°♊17'31	0°57'15
min. Earth dist.	-9031 Jan	28 j 19:05	4°♊17'16	17.54754 AU
direct	-9031 Apr	15 j 23:49	2°♊13'29	
evening set	-9031 Jul	19 j 10:52	5°♊38'51	
conjunction	-9031 Aug	04 j 03:41	6°♊37'47	0°52'50
minimum elong	-9031 Aug	04 j 03:41	6°♊37'46	0°53'20
max. Earth dist.	-9031 Aug	04 j 01:55	6°♊37'30	19.57613 AU
morning rise	-9031 Aug	19 j 18:24	7°♊36'23	
retrograde	-9031 Nov	19 j 07:42	10°♊56'35	
opposition	-9030 Feb	02 j 19:04	8°♊55'20	1°00'24
min. Earth dist.	-9030 Feb	02 j 18:54	8°♊55'21	17.60607 AU
direct	-9030 Apr	21 j 00:32	6°♊51'44	
evening set	-9030 Jul	24 j 05:57	10°♊15'54	
conjunction	-9030 Aug	08 j 22:00	11°♊14'31	0°55'30
minimum elong	-9030 Aug	08 j 22:00	11°♊14'31	0°56'01
max. Earth dist.	-9030 Aug	08 j 23:53	11°♊14'49	19.63675 AU
morning rise	-9030 Aug	24 j 12:01	12°♊12'52	
retrograde	-9030 Nov	24 j 05:05	15°♊32'37	
opposition	-9029 Feb	07 j 20:55	13°♊31'31	1°03'09
min. Earth dist.	-9029 Feb	07 j 17:32	13°♊31'52	17.66849 AU
direct	-9029 Apr	26 j 01:31	11°♊28'22	
evening set	-9029 Jul	29 j 00:21	14°♊51'18	
conjunction	-9029 Aug	13 j 15:29	15°♊49'36	0°57'47
minimum elong	-9029 Aug	13 j 15:29	15°♊49'36	0°58'20
max. Earth dist.	-9029 Aug	13 j 19:34	15°♊50'15	19.70089 AU
morning rise	-9029 Aug	29 j 05:06	16°♊47'41	
retrograde	-9029 Nov	29 j 01:33	20°♊06'58	
opposition	-9028 Feb	12 j 22:12	18°♊06'00	1°05'28
min. Earth dist.	-9028 Feb	12 j 16:49	18°♊06'34	17.73425 AU
direct	-9028 Apr	30 j 00:35	16°♊03'19	
evening set	-9028 Aug	01 j 17:40	19°♊24'57	
conjunction	-9028 Aug	17 j 08:13	20°♊22'58	0°59'42
minimum elong	-9028 Aug	17 j 08:13	20°♊22'58	1°00'15
max. Earth dist.	-9028 Aug	17 j 15:20	20°♊24'04	19.76791 AU
morning rise	-9028 Sep	01 j 21:24	21°♊20'47	
retrograde	-9028 Dec	02 j 22:15	24°♊39'32	

Attention, astronomical year style is used: The year -9027 in astronomical counting style is the year 9028 BCE in historical counting style.

opposition	-9027 Feb 16 j 22:46	22°♊38'44	1°07'22
min. Earth dist.	-9027 Feb 16 j 14:10	22°♊39'37	17.80224 AU
direct	-9027 May 05 j 00:21	20°♊36'30	
evening set	-9027 Aug 06 j 10:17	23°♊56'49	
conjunction	-9027 Aug 22 j 00:06	24°♊54'30	1°01'14
minimum elong	-9027 Aug 22 j 00:06	24°♊54'30	1°01'47
max. Earth dist.	-9027 Aug 22 j 09:22	24°♊55'57	19.83669 AU
morning rise	-9027 Sep 06 j 13:00	25°♊52'04	
retrograde	-9027 Dec 07 j 17:16	29°♊10'17	
opposition	-9026 Feb 21 j 22:46	27°♊09'35	1°08'49
min. Earth dist.	-9026 Feb 21 j 12:42	27°♊10'38	17.87183 AU
direct	-9026 May 09 j 22:11	25°♊07'49	
evening set	-9026 Aug 11 j 01:57	28°♊26'45	
conjunction	-9026 Aug 26 j 15:18	29°♊24'09	1°02'22
minimum elong	-9026 Aug 26 j 15:18	29°♊24'09	1°02'55
max. Earth dist.	-9026 Aug 27 j 03:02	29°♊25'58	19.90679 AU
	-9026 Sep 05 j 07:16	0°♋	
morning rise	-9026 Sep 11 j 03:58	0°♋21'27	
retrograde	-9026 Dec 12 j 12:58	3°♋39'05	
opposition	-9025 Feb 26 j 22:00	1°♋38'30	1°09'50
min. Earth dist.	-9025 Feb 26 j 08:42	1°♋39'52	17.94223 AU
	-9025 Apr 14 j 10:56	30°℞♊	
direct	-9025 May 14 j 20:53	29°♊37'09	
	-9025 Jun 13 j 13:03	0°♋	
evening set	-9025 Aug 15 j 16:40	2°♋54'41	
conjunction	-9025 Aug 31 j 05:35	3°♋51'47	1°03'06
minimum elong	-9025 Aug 31 j 05:35	3°♋51'47	1°03'40
max. Earth dist.	-9025 Aug 31 j 19:31	3°♋53'56	19.97730 AU
morning rise	-9025 Sep 15 j 18:11	4°♋48'50	
retrograde	-9025 Dec 17 j 05:49	8°♋05'52	
opposition	-9024 Mar 02 j 20:32	6°♋05'22	1°10'25
min. Earth dist.	-9024 Mar 02 j 06:09	6°♋06'51	18.01291 AU
direct	-9024 May 18 j 17:28	4°♋04'24	
evening set	-9024 Aug 19 j 06:33	7°♋20'32	
conjunction	-9024 Sep 03 j 19:10	8°♋17'21	1°03'28
minimum elong	-9024 Sep 03 j 19:10	8°♋17'21	1°04'02
max. Earth dist.	-9024 Sep 04 j 11:01	8°♋19'47	20.04794 AU
morning rise	-9024 Sep 19 j 07:47	9°♋14'09	
retrograde	-9024 Dec 21 j 00:00	12°♋30'33	
opposition	-9023 Mar 07 j 17:50	10°♋30'06	1°10'35
min. Earth dist.	-9023 Mar 07 j 00:26	10°♋31'53	18.08337 AU
direct	-9023 May 23 j 14:24	8°♋29'30	
evening set	-9023 Aug 23 j 19:28	11°♋44'13	
conjunction	-9023 Sep 08 j 07:53	12°♋40'45	1°03'27
minimum elong	-9023 Sep 08 j 07:53	12°♋40'45	1°04'00
max. Earth dist.	-9023 Sep 09 j 01:59	12°♋43'31	20.11818 AU
morning rise	-9023 Sep 23 j 20:35	13°♋37'19	
retrograde	-9023 Dec 25 j 14:43	16°♋53'04	
opposition	-9022 Mar 12 j 14:35	14°♋52'39	1°10'19
min. Earth dist.	-9022 Mar 11 j 20:16	14°♋54'31	18.15352 AU
direct	-9022 May 28 j 08:57	12°♋52'24	
evening set	-9022 Aug 28 j 07:19	16°♋05'42	
conjunction	-9022 Sep 12 j 19:36	17°♋01'57	1°03'03
minimum elong	-9022 Sep 12 j 19:36	17°♋01'57	1°03'38
max. Earth dist.	-9022 Sep 13 j 15:28	17°♋04'58	20.18820 AU
morning rise	-9022 Sep 28 j 08:32	17°♋58'18	
retrograde	-9022 Dec 30 j 07:27	21°♋13'23	
opposition	-9021 Mar 17 j 10:15	19°♋12'59	1°09'40
min. Earth dist.	-9021 Mar 16 j 12:53	19°♋15'10	18.22340 AU
direct	-9021 Jun 02 j 03:59	17°♋13'03	
evening set	-9021 Sep 01 j 18:22	20°♋24'57	

conjunction	-9021 Sep 17 j 06:39	21°♋20'57	1°02'19
minimum elong	-9021 Sep 17 j 06:39	21°♋20'57	1°02'52
max. Earth dist.	-9021 Sep 18 j 05:01	21°♋24'21	20.25788 AU
morning rise	-9021 Oct 02 j 19:51	22°♋17'05	
retrograde	-9020 Jan 03 j 20:24	25°♋31'31	
min. Earth dist.	-9020 Mar 20 j 06:43	23°♋33'24	18.29310 AU
opposition	-9020 Mar 21 j 04:57	23°♋31'09	1°08'38
direct	-9020 Jun 05 j 20:05	21°♋31'32	
evening set	-9020 Sep 05 j 04:35	24°♋42'05	
conjunction	-9020 Sep 20 j 16:54	25°♋37'50	1°01'14
minimum elong	-9020 Sep 20 j 16:54	25°♋37'50	1°01'47
max. Earth dist.	-9020 Sep 21 j 16:45	25°♋41'26	20.32754 AU
morning rise	-9020 Oct 06 j 06:31	26°♋33'46	
retrograde	-9019 Jan 07 j 11:45	29°♋47'33	
opposition	-9019 Mar 25 j 22:37	27°♋47'13	1°07'13
min. Earth dist.	-9019 Mar 24 j 21:30	27°♋49'46	18.36271 AU
direct	-9019 Jun 10 j 12:37	25°♋47'57	
evening set	-9019 Sep 09 j 13:55	28°♋57'11	
conjunction	-9019 Sep 25 j 02:24	29°♋52'43	0°59'50
minimum elong	-9019 Sep 25 j 02:24	29°♋52'43	1°00'22
max. Earth dist.	-9019 Sep 26 j 04:47	29°♋56'40	20.39693 AU
	-9019 Sep 27 j 02:56	0°♌	
morning rise	-9019 Oct 10 j 16:22	0°♌48'27	
retrograde	-9018 Jan 11 j 23:18	4°♌01'38	
opposition	-9018 Mar 30 j 15:32	2°♌01'22	1°05'28
min. Earth dist.	-9018 Mar 29 j 13:35	2°♌04'00	18.43204 AU
direct	-9018 Jun 15 j 02:41	0°♌02'28	
evening set	-9018 Sep 13 j 22:38	3°♌10'26	
conjunction	-9018 Sep 29 j 11:19	4°♌05'44	0°58'08
minimum elong	-9018 Sep 29 j 11:19	4°♌05'44	0°58'38
max. Earth dist.	-9018 Sep 30 j 14:51	4°♌09'52	20.46613 AU
morning rise	-9018 Oct 15 j 01:53	5°♌01'18	
retrograde	-9017 Jan 16 j 13:31	8°♌13'54	
min. Earth dist.	-9017 Apr 03 j 02:57	6°♌16'36	18.50094 AU
opposition	-9017 Apr 04 j 07:27	6°♌13'44	1°03'22
direct	-9017 Jun 19 j 16:34	4°♌15'11	
evening set	-9017 Sep 18 j 06:35	7°♌21'58	
conjunction	-9017 Oct 03 j 19:41	8°♌17'05	0°56'07
minimum elong	-9017 Oct 03 j 19:41	8°♌17'05	0°56'37
max. Earth dist.	-9017 Oct 05 j 01:33	8°♌21'31	20.53447 AU
morning rise	-9017 Oct 19 j 10:49	9°♌12'29	
retrograde	-9016 Jan 21 j 00:23	12°♌24'31	
opposition	-9016 Apr 07 j 22:35	10°♌24'28	1°00'57
min. Earth dist.	-9016 Apr 06 j 17:36	10°♌27'23	18.56869 AU
direct	-9016 Jun 23 j 04:46	8°♌26'18	
evening set	-9016 Sep 21 j 14:06	11°♌31'56	
conjunction	-9016 Oct 07 j 03:31	12°♌26'52	0°53'49
minimum elong	-9016 Oct 07 j 03:31	12°♌26'52	0°54'16
max. Earth dist.	-9016 Oct 08 j 09:58	12°♌31'23	20.60148 AU
morning rise	-9016 Oct 22 j 19:23	13°♌22'08	
	-9016 Nov 22 j 14:30	15°♌	
retrograde	-9015 Jan 24 j 13:09	16°♌33'37	
	-9015 Apr 01 j 13:13	15°℞♌	
min. Earth dist.	-9015 Apr 11 j 05:49	14°♌36'48	18.63476 AU
opposition	-9015 Apr 12 j 12:42	14°♌33'42	0°58'14
direct	-9015 Jun 27 j 16:16	12°♌35'54	
	-9015 Sep 13 j 20:41	15°♌	
evening set	-9015 Sep 25 j 21:03	15°♌40'27	
conjunction	-9015 Oct 11 j 11:00	16°♌35'13	0°51'15
minimum elong	-9015 Oct 11 j 11:00	16°♌35'13	0°51'42
max. Earth dist.	-9015 Oct 12 j 19:23	16°♌40'00	20.66635 AU

Attention, astronomical year style is used: The year -9015 in astronomical counting style is the year 9016 BCE in historical counting style.

morning rise	-9015 Oct 27 j 03:29	17°♌30'21	
retrograde	-9014 Jan 28 j 23:31	20°♌41'19	
min. Earth dist.	-9014 Apr 15 j 19:12	18°♌44'39	18.69835 AU
opposition	-9014 Apr 17 j 02:15	18°♌41'32	0°55'13
direct	-9014 Jul 02 j 02:55	16°♌44'06	
evening set	-9014 Sep 30 j 03:30	19°♌47'36	
conjunction	-9014 Oct 15 j 17:56	20°♌42'13	0°48'26
minimum elong	-9014 Oct 15 j 17:56	20°♌42'13	0°48'50
max. Earth dist.	-9014 Oct 17 j 02:25	20°♌47'00	20.72854 AU
morning rise	-9014 Oct 31 j 11:19	21°♌37'14	
retrograde	-9013 Feb 02 j 11:27	24°♌47'43	
min. Earth dist.	-9013 Apr 20 j 06:40	22°♌51'17	18.75892 AU
opposition	-9013 Apr 21 j 15:00	22°♌48'03	0°51'56
direct	-9013 Jul 06 j 12:50	20°♌50'55	
evening set	-9013 Oct 04 j 09:43	23°♌53'28	
conjunction	-9013 Oct 20 j 00:50	24°♌47'57	0°45'22
minimum elong	-9013 Oct 20 j 00:50	24°♌47'57	0°45'45
max. Earth dist.	-9013 Oct 21 j 10:43	24°♌52'54	20.78716 AU
morning rise	-9013 Nov 04 j 18:58	25°♌42'52	
retrograde	-9012 Feb 06 j 20:56	28°♌52'51	
min. Earth dist.	-9012 Apr 23 j 18:51	26°♌56'29	18.81555 AU
opposition	-9012 Apr 25 j 02:52	26°♌53'17	0°48'24
direct	-9012 Jul 09 j 21:55	24°♌56'26	
evening set	-9012 Oct 07 j 15:36	27°♌58'03	
conjunction	-9012 Oct 23 j 07:19	28°♌52'25	0°42'06
minimum elong	-9012 Oct 23 j 07:19	28°♌52'25	0°42'27
max. Earth dist.	-9012 Oct 24 j 16:36	28°♌57'16	20.84170 AU
morning rise	-9012 Nov 08 j 02:25	29°♌47'15	
	-9012 Nov 11 j 20:45	0°♍	
retrograde	-9011 Feb 10 j 08:09	2°♍56'46	
min. Earth dist.	-9011 Apr 28 j 05:25	1°♍00'32	18.86785 AU
opposition	-9011 Apr 29 j 14:07	0°♍57'15	0°44'39
	-9011 May 24 j 11:02	30°℞♌	
direct	-9011 Jul 14 j 06:54	29°♌00'38	
	-9011 Aug 31 j 21:54	0°♍	
evening set	-9011 Oct 11 j 20:55	2°♍01'23	
conjunction	-9011 Oct 27 j 13:27	2°♍55'40	0°38'38
minimum elong	-9011 Oct 27 j 13:27	2°♍55'40	0°38'57
max. Earth dist.	-9011 Oct 28 j 23:51	3°♍00'39	20.89154 AU
morning rise	-9011 Nov 12 j 09:22	3°♍50'25	
retrograde	-9010 Feb 14 j 16:44	6°♍59'29	
min. Earth dist.	-9010 May 02 j 16:28	5°♍03'14	18.91526 AU
opposition	-9010 May 04 j 00:44	5°♍00'00	0°40'42
direct	-9010 Jul 18 j 14:34	3°♍03'34	
evening set	-9010 Oct 16 j 02:06	6°♍03'30	
conjunction	-9010 Oct 31 j 19:22	6°♍57'41	0°35'00
minimum elong	-9010 Oct 31 j 19:22	6°♍57'41	0°35'18
max. Earth dist.	-9010 Nov 02 j 04:54	7°♍02'32	20.93666 AU
morning rise	-9010 Nov 16 j 16:23	7°♍52'23	
retrograde	-9009 Feb 19 j 02:49	11°♍01'00	
min. Earth dist.	-9009 May 07 j 02:01	9°♍04'45	18.95800 AU
opposition	-9009 May 08 j 10:30	9°♍01'30	0°36'35
direct	-9009 Jul 22 j 22:45	7°♍05'12	
evening set	-9009 Oct 20 j 06:52	10°♍04'22	
conjunction	-9009 Nov 05 j 01:05	10°♍58'30	0°31'12
minimum elong	-9009 Nov 05 j 01:05	10°♍58'30	0°31'27
max. Earth dist.	-9009 Nov 06 j 11:33	11°♍03'28	20.97698 AU
morning rise	-9009 Nov 20 j 23:01	11°♍53'09	
retrograde	-9008 Feb 23 j 10:48	15°♍01'20	
min. Earth dist.	-9008 May 10 j 11:39	13°♍05'01	18.99598 AU
opposition	-9008 May 11 j 19:35	13°♍01'49	0°32'18
direct	-9008 Jul 26 j 05:25	11°♍05'37	
evening set	-9008 Oct 23 j 11:26	14°♍04'05	
conjunction	-9008 Nov 08 j 06:25	14°♍58'09	0°27'17
minimum elong	-9008 Nov 08 j 06:25	14°♍58'09	0°27'30
max. Earth dist.	-9008 Nov 09 j 15:55	15°♍02'58	21.01287 AU
morning rise	-9008 Nov 24 j 05:27	15°♍52'46	
retrograde	-9007 Feb 26 j 19:28	19°♍00'34	
min. Earth dist.	-9007 May 14 j 19:57	17°♍04'13	19.02982 AU
opposition	-9007 May 16 j 03:56	17°♍01'00	0°27'53
direct	-9007 Jul 30 j 12:09	15°♍04'53	
evening set	-9007 Oct 27 j 15:43	18°♍02'44	
conjunction	-9007 Nov 12 j 11:42	18°♍56'46	0°23'15
minimum elong	-9007 Nov 12 j 11:42	18°♍56'46	0°23'25
max. Earth dist.	-9007 Nov 13 j 22:07	19°♍01'42	21.04465 AU
morning rise	-9007 Nov 28 j 11:39	19°♍51'23	
retrograde	-9006 Mar 03 j 03:01	22°♍58'49	
min. Earth dist.	-9006 May 19 j 04:14	21°♍02'23	19.05969 AU
opposition	-9006 May 20 j 11:43	20°♍59'13	0°23'22
direct	-9006 Aug 03 j 18:10	19°♍03'11	
evening set	-9006 Oct 31 j 19:55	22°♍00'30	
conjunction	-9006 Nov 16 j 16:45	22°♍54'31	0°19'08
minimum elong	-9006 Nov 16 j 16:45	22°♍54'31	0°19'16
max. Earth dist.	-9006 Nov 18 j 02:04	22°♍59'16	21.07277 AU
morning rise	-9006 Dec 02 j 17:55	23°♍49'07	
retrograde	-9005 Mar 07 j 11:07	26°♍56'16	
min. Earth dist.	-9005 May 23 j 11:40	24°♍59'47	19.08597 AU
opposition	-9005 May 24 j 18:59	24°♍56'39	0°18'45
direct	-9005 Aug 07 j 23:08	23°♍00'40	
evening set	-9005 Nov 05 j 00:06	25°♍57'32	
conjunction	-9005 Nov 20 j 22:01	26°♍51'34	0°14'56
minimum elong	-9005 Nov 20 j 22:01	26°♍51'34	0°15'02
behind sun begin	-9005 Nov 20 j 19:36	26°♍51'14	
behind sun end	-9005 Nov 21 j 00:26	26°♍51'54	
max. Earth dist.	-9005 Nov 22 j 07:55	26°♍56'24	21.09711 AU
morning rise	-9005 Dec 07 j 00:06	27°♍46'11	
	-9004 Jan 23 j 01:29	0°♎	
retrograde	-9004 Mar 10 j 18:11	0°♎53'04	
	-9004 Apr 28 j 18:15	30°℞♍	
min. Earth dist.	-9004 May 26 j 18:56	28°♍56'32	19.10842 AU
opposition	-9004 May 28 j 01:34	28°♍53'28	0°14'04
direct	-9004 Aug 11 j 04:30	26°♍57'33	
evening set	-9004 Nov 08 j 04:19	29°♍54'05	
	-9004 Nov 09 j 22:52	0°♎	
conjunction	-9004 Nov 24 j 03:09	0°♎48'08	0°10'40
minimum elong	-9004 Nov 24 j 03:09	0°♎48'08	0°10'44
behind sun begin	-9004 Nov 23 j 22:03	0°♎47'26	
behind sun end	-9004 Nov 24 j 08:14	0°♎48'50	
max. Earth dist.	-9004 Nov 25 j 11:33	0°♎52'45	21.11780 AU
morning rise	-9004 Dec 10 j 06:25	1°♎42'47	
retrograde	-9003 Mar 15 j 02:14	4°♎49'28	
min. Earth dist.	-9003 May 31 j 01:49	2°♎52'54	19.12717 AU
opposition	-9003 Jun 01 j 07:55	2°♎49'53	0°09'19
direct	-9003 Aug 15 j 08:14	0°♎54'02	
evening set	-9003 Nov 12 j 08:25	3°♎50'19	
conjunction	-9003 Nov 28 j 08:22	4°♎44'24	0°06'22
minimum elong	-9003 Nov 28 j 08:22	4°♎44'24	0°06'25
behind sun begin	-9003 Nov 28 j 02:07	4°♎43'32	
behind sun end	-9003 Nov 28 j 14:37	4°♎45'16	
max. Earth dist.	-9003 Nov 29 j 17:09	4°♎49'03	21.13449 AU
morning rise	-9003 Dec 14 j 12:36	5°♎39'06	
retrograde	-9002 Mar 19 j 09:10	8°♎45'38	

Attention, astronomical year style is used: The year -9002 in astronomical counting style is the year 9003 BCE in historical counting style.

min. Earth dist.	-9002 Jun 04 j 08:43	6°♎49'02	19.14171 AU
opposition	-9002 Jun 05 j 13:56	6°♎46'05	0°04'31
direct	-9002 Aug 19 j 12:59	4°♎50'19	
evening set	-9002 Nov 16 j 12:58	7°♎46'25	
conjunction	-9002 Dec 02 j 13:52	8°♎40'34	0°02'01
minimum elong	-9002 Dec 02 j 13:52	8°♎40'34	0°02'00
behind sun begin	-9002 Dec 02 j 07:14	8°♎39'39	
behind sun end	-9002 Dec 02 j 20:30	8°♎41'29	
max. Earth dist.	-9002 Dec 03 j 20:45	8°♎44'57	21.14696 AU
morning rise	-9002 Dec 18 j 19:19	9°♎35'20	
retrograde	-9001 Mar 23 j 17:39	12°♎41'47	
desc. node	-9001 May 18 j 10:26	11°♎34'30	
opposition	-9001 Jun 09 j 19:33	10°♎42'16	-0°00'18
min. Earth dist.	-9001 Jun 08 j 15:25	10°♎45'06	19.15188 AU
direct	-9001 Aug 23 j 16:27	8°♎46'31	
evening set	-9001 Nov 20 j 17:45	11°♎42'34	
conjunction	-9001 Dec 06 j 19:46	12°♎36'47	-0°02'28
minimum elong	-9001 Dec 06 j 19:47	12°♎36'47	0°02'31
behind sun begin	-9001 Dec 06 j 13:09	12°♎35'53	
behind sun end	-9001 Dec 07 j 02:25	12°♎37'42	
max. Earth dist.	-9001 Dec 08 j 02:30	12°♎41'08	21.15465 AU
morning rise	-9001 Dec 23 j 02:09	13°♎31'38	
retrograde	-9000 Mar 27 j 00:32	16°♎38'00	
min. Earth dist.	-9000 Jun 11 j 22:10	14°♎41'15	19.15694 AU
opposition	-9000 Jun 13 j 00:58	14°♎38'33	-0°05'07
direct	-9000 Aug 26 j 20:24	12°♎42'50	
evening set	-9000 Nov 23 j 22:49	15°♎38'53	
conjunction	-9000 Dec 10 j 01:47	16°♎33'11	-0°06'49
minimum elong	-9000 Dec 10 j 01:46	16°♎33'11	0°06'55
behind sun begin	-9000 Dec 09 j 19:36	16°♎32'20	
behind sun end	-9000 Dec 10 j 07:56	16°♎34'02	
max. Earth dist.	-9000 Dec 11 j 06:05	16°♎37'12	21.15713 AU
morning rise	-9000 Dec 26 j 09:16	17°♎28'07	
retrograde	-8999 Mar 31 j 09:16	20°♎34'30	
min. Earth dist.	-8999 Jun 16 j 04:58	18°♎37'36	19.15667 AU
opposition	-8999 Jun 17 j 06:14	18°♎35'03	-0°09'55
direct	-8999 Aug 31 j 00:12	16°♎39'18	
evening set	-8999 Nov 28 j 04:14	19°♎35'26	
conjunction	-8999 Dec 14 j 08:21	20°♎29'52	-0°11'07
minimum elong	-8999 Dec 14 j 08:21	20°♎29'52	0°11'15
behind sun begin	-8999 Dec 14 j 03:28	20°♎29'11	
behind sun end	-8999 Dec 14 j 13:14	20°♎30'32	
max. Earth dist.	-8999 Dec 15 j 12:03	20°♎33'46	21.15394 AU
morning rise	-8999 Dec 30 j 16:44	21°♎24'54	
retrograde	-8998 Apr 04 j 16:04	24°♎31'17	
min. Earth dist.	-8998 Jun 20 j 11:40	22°♎34'14	19.15046 AU
opposition	-8998 Jun 21 j 11:18	22°♎31'50	-0°14'41
direct	-8998 Sep 04 j 03:57	20°♎36'01	
evening set	-8998 Dec 02 j 10:08	23°♎32'18	
conjunction	-8998 Dec 18 j 15:13	24°♎26'50	-0°15'23
minimum elong	-8998 Dec 18 j 15:13	24°♎26'50	0°15'34
behind sun begin	-8998 Dec 18 j 13:46	24°♎26'38	
behind sun end	-8998 Dec 18 j 16:41	24°♎27'02	
max. Earth dist.	-8998 Dec 19 j 16:00	24°♎30'20	21.14483 AU
morning rise	-8997 Jan 04 j 00:47	25°♎22'00	
retrograde	-8997 Apr 09 j 00:36	28°♎28'25	
opposition	-8997 Jun 25 j 16:21	26°♎28'56	-0°19'22
min. Earth dist.	-8997 Jun 24 j 18:38	26°♎31'08	19.13828 AU
direct	-8997 Sep 08 j 08:15	24°♎32'59	
evening set	-8997 Dec 06 j 16:20	27°♎29'29	
conjunction	-8997 Dec 22 j 22:36	28°♎24'10	-0°19'35
minimum elong	-8997 Dec 22 j 22:36	28°♎24'10	0°19'48
max. Earth dist.	-8997 Dec 23 j 22:25	28°♎27'32	21.12958 AU
morning rise	-8996 Jan 08 j 08:58	29°♎19'27	
	-8996 Jan 20 j 23:23	0°♏	
retrograde	-8996 Apr 12 j 07:41	2°♏25'55	
opposition	-8996 Jun 28 j 21:06	0°♏26'22	-0°23'58
min. Earth dist.	-8996 Jun 28 j 01:09	0°♏28'23	19.12003 AU
	-8996 Jul 09 j 18:45	30°℞♎	
direct	-8996 Sep 11 j 12:30	28°♎30'14	
	-8996 Nov 11 j 11:02	0°♏	
evening set	-8996 Dec 09 j 22:59	1°♏27'01	
conjunction	-8996 Dec 26 j 06:10	2°♏21'51	-0°23'42
minimum elong	-8996 Dec 26 j 06:09	2°♏21'51	0°23'56
max. Earth dist.	-8996 Dec 27 j 02:55	2°♏24'47	21.10867 AU
morning rise	-8995 Jan 11 j 17:38	3°♏17'16	
retrograde	-8995 Apr 16 j 15:22	6°♏23'49	
min. Earth dist.	-8995 Jul 02 j 08:00	4°♏26'00	19.09644 AU
opposition	-8995 Jul 03 j 01:56	4°♏24'10	-0°28'28
direct	-8995 Sep 15 j 16:43	2°♏27'49	
evening set	-8995 Dec 14 j 05:47	5°♏24'57	
conjunction	-8995 Dec 30 j 14:09	6°♏19'57	-0°27'42
minimum elong	-8995 Dec 30 j 14:09	6°♏19'57	0°27'59
max. Earth dist.	-8995 Dec 31 j 10:03	6°♏22'45	21.08252 AU
morning rise	-8994 Jan 16 j 02:24	7°♏15'31	
retrograde	-8994 Apr 20 j 23:16	10°♏22'11	
opposition	-8994 Jul 07 j 06:39	8°♏22'25	-0°32'49
min. Earth dist.	-8994 Jul 06 j 14:22	8°♏24'04	19.06783 AU
direct	-8994 Sep 19 j 21:36	6°♏25'49	
evening set	-8994 Dec 18 j 13:22	9°♏23'23	
conjunction	-8993 Jan 03 j 22:37	10°♏18'33	-0°31'34
minimum elong	-8993 Jan 03 j 22:37	10°♏18'33	0°31'52
max. Earth dist.	-8993 Jan 04 j 15:23	10°♏20'55	21.05178 AU
morning rise	-8993 Jan 20 j 11:55	11°♏14'17	
retrograde	-8993 Apr 25 j 06:37	14°♏21'06	
opposition	-8993 Jul 11 j 11:19	12°♏21'13	-0°37'02
min. Earth dist.	-8993 Jul 10 j 21:09	12°♏22'40	19.03500 AU
direct	-8993 Sep 24 j 01:42	10°♏24'20	
evening set	-8993 Dec 22 j 21:21	13°♏22'26	
conjunction	-8992 Jan 08 j 07:43	14°♏17'47	-0°35'18
minimum elong	-8992 Jan 08 j 07:43	14°♏17'47	0°35'39
max. Earth dist.	-8992 Jan 08 j 23:31	14°♏20'01	21.01688 AU
	-8992 Jan 20 j 19:05	15°♏	
morning rise	-8992 Jan 24 j 21:40	15°♏13'41	
retrograde	-8992 Apr 28 j 15:04	18°♏20'42	
opposition	-8992 Jul 14 j 16:07	16°♏20'43	-0°41'05
min. Earth dist.	-8992 Jul 14 j 03:29	16°♏22'01	18.99820 AU
	-8992 Aug 19 j 18:12	15°℞♏	
direct	-8992 Sep 27 j 07:02	14°♏23'34	
	-8992 Nov 04 j 02:52	15°♏	
evening set	-8992 Dec 26 j 05:50	17°♏22'15	
conjunction	-8991 Jan 11 j 17:00	18°♏17'49	-0°38'52
minimum elong	-8991 Jan 11 j 16:59	18°♏17'49	0°39'15
max. Earth dist.	-8991 Jan 12 j 05:40	18°♏19'36	20.97837 AU
morning rise	-8991 Jan 28 j 07:53	19°♏13'53	
retrograde	-8991 May 02 j 23:14	22°♏21'11	
opposition	-8991 Jul 18 j 21:09	20°♏21'05	-0°44'57
min. Earth dist.	-8991 Jul 18 j 10:35	20°♏22'10	18.95803 AU
direct	-8991 Oct 01 j 11:27	18°♏23'39	
evening set	-8991 Dec 30 j 14:57	21°♏23'01	
conjunction	-8990 Jan 16 j 03:13	22°♏18'48	-0°42'16
minimum elong	-8990 Jan 16 j 03:13	22°♏18'48	0°42'40

Attention, astronomical year style is used: The year -8990 in astronomical counting style is the year 8991 BCE in historical counting style.

max. Earth dist.	-8990 Jan 16 j 14:53	22°♏20'28	20.93651 AU
morning rise	-8990 Feb 01 j 18:41	23°♏15'04	
retrograde	-8990 May 07 j 08:20	26°♏22'38	
opposition	-8990 Jul 23 j 02:16	24°♏22'29	-0°48'37
min. Earth dist.	-8990 Jul 22 j 17:16	24°♏23'25	18.91451 AU
direct	-8990 Oct 05 j 17:08	22°♏24'47	
evening set	-8989 Jan 04 j 00:58	25°♏24'55	
conjunction	-8989 Jan 20 j 14:00	26°♏20'56	-0°45'29
minimum elong	-8989 Jan 20 j 14:00	26°♏20'56	0°45'55
max. Earth dist.	-8989 Jan 20 j 22:15	26°♏22'06	20.89150 AU
morning rise	-8989 Feb 06 j 06:21	27°♏17'24	
	-8989 Apr 09 j 14:31	0°♐	
retrograde	-8989 May 11 j 17:55	0°♐25'19	
	-8989 Jun 13 j 04:18	30°℞♏	
opposition	-8989 Jul 27 j 07:49	28°♏25'06	-0°52'04
min. Earth dist.	-8989 Jul 27 j 01:09	28°♏25'48	18.86794 AU
direct	-8989 Oct 09 j 22:15	26°♏27'06	
evening set	-8988 Jan 08 j 11:36	29°♏28'07	
	-8988 Jan 17 j 22:30	0°♐	
conjunction	-8988 Jan 25 j 01:38	0°♐24'22	-0°48'29
minimum elong	-8988 Jan 25 j 01:37	0°♐24'22	0°48'56
max. Earth dist.	-8988 Jan 25 j 08:41	0°♐25'22	20.84327 AU
morning rise	-8988 Feb 10 j 18:23	1°♐21'03	
retrograde	-8988 May 15 j 04:08	4°♐29'20	
opposition	-8988 Jul 30 j 13:37	2°♐29'06	-0°55'16
min. Earth dist.	-8988 Jul 30 j 08:37	2°♐29'37	18.81805 AU
direct	-8988 Oct 13 j 04:38	0°♐30'49	
evening set	-8987 Jan 11 j 23:12	3°♐32'45	
conjunction	-8987 Jan 28 j 13:53	4°♐29'15	-0°51'16
minimum elong	-8987 Jan 28 j 13:52	4°♐29'15	0°51'45
max. Earth dist.	-8987 Jan 28 j 17:19	4°♐29'45	20.79184 AU
morning rise	-8987 Feb 14 j 07:22	5°♐26'10	
retrograde	-8987 May 19 j 14:52	8°♐34'53	
opposition	-8987 Aug 03 j 19:56	6°♐34'36	-0°58'13
min. Earth dist.	-8987 Aug 03 j 17:35	6°♐34'50	18.76500 AU
direct	-8987 Oct 17 j 10:38	4°♐36'00	
evening set	-8986 Jan 16 j 11:29	7°♐38'57	
conjunction	-8986 Feb 02 j 03:08	8°♐35'43	-0°53'48
minimum elong	-8986 Feb 02 j 03:08	8°♐35'43	0°54'17
max. Earth dist.	-8986 Feb 02 j 05:07	8°♐36'00	20.73699 AU
morning rise	-8986 Feb 18 j 20:59	9°♐32'51	
retrograde	-8986 May 24 j 02:42	12°♐42'02	
opposition	-8986 Aug 08 j 02:42	10°♐41'42	-1°00'54
min. Earth dist.	-8986 Aug 08 j 02:14	10°♐41'45	18.70826 AU
direct	-8986 Oct 21 j 18:25	8°♐42'47	
evening set	-8985 Jan 21 j 01:01	11°♐46'48	
conjunction	-8985 Feb 06 j 17:12	12°♐43'50	-0°56'03
minimum elong	-8985 Feb 06 j 17:12	12°♐43'50	0°56'35
max. Earth dist.	-8985 Feb 06 j 15:08	12°♐43'32	20.67842 AU
morning rise	-8985 Feb 23 j 11:39	13°♐41'12	
retrograde	-8985 May 28 j 14:19	16°♐50'52	
opposition	-8985 Aug 12 j 10:00	14°♐50'27	-1°03'16
min. Earth dist.	-8985 Aug 12 j 12:32	14°♐50'11	18.64787 AU
direct	-8985 Oct 26 j 01:49	12°♐51'10	
evening set	-8984 Jan 25 j 15:13	15°♐56'18	
conjunction	-8984 Feb 11 j 08:15	16°♐53'37	-0°58'02
minimum elong	-8984 Feb 11 j 08:14	16°♐53'37	0°58'34
max. Earth dist.	-8984 Feb 11 j 04:26	16°♐53'04	20.61608 AU
morning rise	-8984 Feb 28 j 02:52	17°♐51'13	
retrograde	-8984 Jun 01 j 03:27	21°♐01'22	
opposition	-8984 Aug 15 j 17:53	19°♐00'52	-1°05'19
min. Earth dist.	-8984 Aug 15 j 22:13	19°♐00'24	18.58366 AU
direct	-8984 Oct 29 j 11:16	17°♐01'11	
evening set	-8983 Jan 29 j 06:15	20°♐07'28	
conjunction	-8983 Feb 14 j 23:43	21°♐05'04	-0°59'43
minimum elong	-8983 Feb 14 j 23:43	21°♐05'04	1°00'15
max. Earth dist.	-8983 Feb 14 j 15:53	21°♐03'56	20.55016 AU
morning rise	-8983 Mar 03 j 18:49	22°♐02'54	
retrograde	-8983 Jun 05 j 15:48	25°♐13'34	
opposition	-8983 Aug 20 j 02:24	23°♐12'56	-1°07'02
min. Earth dist.	-8983 Aug 20 j 09:45	23°♐12'10	18.51618 AU
direct	-8983 Nov 02 j 20:20	21°♐12'49	
evening set	-8982 Feb 02 j 22:08	24°♐20'17	
conjunction	-8982 Feb 19 j 16:21	25°♐18'11	-1°01'05
minimum elong	-8982 Feb 19 j 16:21	25°♐18'11	1°01'39
max. Earth dist.	-8982 Feb 19 j 06:49	25°♐16'48	20.48117 AU
morning rise	-8982 Mar 08 j 11:32	26°♐16'16	
retrograde	-8982 Jun 10 j 05:55	29°♐27'25	
opposition	-8982 Aug 24 j 11:13	27°♐26'40	-1°08'23
min. Earth dist.	-8982 Aug 24 j 20:14	27°♐25'42	18.44584 AU
direct	-8982 Nov 07 j 07:10	25°♐26'04	
evening set	-8981 Feb 07 j 15:04	28°♐34'47	
conjunction	-8981 Feb 24 j 09:37	29°♐32'58	-1°02'08
minimum elong	-8981 Feb 24 j 09:37	29°♐32'58	1°02'41
max. Earth dist.	-8981 Feb 23 j 20:15	29°♐31'01	20.40975 AU
	-8981 Mar 04 j 03:21	0°♑	
morning rise	-8981 Mar 13 j 05:06	0°♑31'18	
retrograde	-8981 Jun 14 j 19:27	3°♑42'59	
opposition	-8981 Aug 28 j 20:52	1°♑42'04	-1°09'23
min. Earth dist.	-8981 Aug 29 j 08:48	1°♑40'48	18.37360 AU
	-8981 Oct 15 j 13:26	30°℞♐	
direct	-8981 Nov 11 j 17:49	29°♐40'59	
	-8981 Dec 08 j 18:16	0°♑	
evening set	-8980 Feb 12 j 08:33	2°♑50'59	
conjunction	-8980 Feb 29 j 03:39	3°♑49'27	-1°02'50
minimum elong	-8980 Feb 29 j 03:39	3°♑49'27	1°03'25
max. Earth dist.	-8980 Feb 28 j 12:51	3°♑47'18	20.33677 AU
morning rise	-8980 Mar 16 j 23:03	4°♑48'02	
retrograde	-8980 Jun 18 j 10:34	8°♑00'15	
opposition	-8980 Sep 01 j 07:00	5°♑59'12	-1°10'00
min. Earth dist.	-8980 Sep 01 j 20:08	5°♑57'48	18.30012 AU
direct	-8980 Nov 15 j 05:51	3°♑57'39	
evening set	-8979 Feb 16 j 03:03	7°♑08'57	
conjunction	-8979 Mar 04 j 22:21	8°♑07'43	-1°03'11
minimum elong	-8979 Mar 04 j 22:20	8°♑07'43	1°03'45
max. Earth dist.	-8979 Mar 04 j 04:12	8°♑05'03	20.26299 AU
morning rise	-8979 Mar 21 j 17:51	9°♑06'32	
retrograde	-8979 Jun 23 j 01:32	12°♑19'20	
opposition	-8979 Sep 05 j 17:53	10°♑18'07	-1°10'14
min. Earth dist.	-8979 Sep 06 j 09:43	10°♑16'26	18.22639 AU
direct	-8979 Nov 19 j 17:51	8°♑16'05	
evening set	-8978 Feb 20 j 22:16	11°♑28'45	
conjunction	-8978 Mar 09 j 17:59	12°♑27'48	-1°03'12
minimum elong	-8978 Mar 09 j 17:59	12°♑27'48	1°03'46
max. Earth dist.	-8978 Mar 08 j 22:31	12°♑24'56	20.18931 AU
morning rise	-8978 Mar 26 j 13:20	13°♑26'52	
retrograde	-8978 Jun 27 j 17:57	16°♑40'14	
opposition	-8978 Sep 10 j 05:29	14°♑38'55	-1°10'04
min. Earth dist.	-8978 Sep 10 j 22:12	14°♑37'07	18.15290 AU
direct	-8978 Nov 24 j 07:38	12°♑36'26	
evening set	-8977 Feb 25 j 18:33	15°♑50'28	

Attention, astronomical year style is used: The year -8977 in astronomical counting style is the year 8978 BCE in historical counting style.

conjunction	-8977 Mar 14 j 14:18	16°♉49'49	-1°02'51
minimum elong	-8977 Mar 14 j 14:18	16°♉49'49	1°03'24
max. Earth dist.	-8977 Mar 13 j 15:56	16°♉46'30	20.11613 AU
morning rise	-8977 Mar 31 j 09:31	17°♉49'07	
retrograde	-8977 Jul 02 j 09:59	21°♉03'06	
opposition	-8977 Sep 14 j 17:57	19°♉01'40	-1°09'30
min. Earth dist.	-8977 Sep 15 j 13:13	18°♉59'36	18.08038 AU
direct	-8977 Nov 28 j 21:01	16°♉58'46	
evening set	-8976 Mar 01 j 15:31	20°♉14'12	
max. Earth dist.	-8976 Mar 17 j 11:52	21°♉10'19	20.04426 AU
conjunction	-8976 Mar 18 j 11:28	21°♉13'50	-1°02'08
minimum elong	-8976 Mar 18 j 11:28	21°♉13'50	1°02'40
morning rise	-8976 Apr 04 j 06:23	22°♉13'22	
retrograde	-8976 Jul 06 j 03:52	25°♉27'58	
opposition	-8976 Sep 18 j 07:12	23°♉26'28	-1°08'32
min. Earth dist.	-8976 Sep 19 j 03:01	23°♉24'19	18.00925 AU
direct	-8976 Dec 02 j 13:00	21°♉23'10	
evening set	-8975 Mar 06 j 13:21	24°♉40'02	
max. Earth dist.	-8975 Mar 22 j 07:20	25°♉36'03	19.97390 AU
conjunction	-8975 Mar 23 j 09:15	25°♉39'56	-1°01'02
minimum elong	-8975 Mar 23 j 09:15	25°♉39'56	1°01'35
morning rise	-8975 Apr 09 j 03:52	26°♉39'41	
retrograde	-8975 Jul 10 j 20:54	29°♉54'56	
opposition	-8975 Sep 22 j 21:26	27°♉53'23	-1°07'08
min. Earth dist.	-8975 Sep 23 j 19:46	27°♉50'58	17.93981 AU
direct	-8975 Dec 07 j 04:05	25°♉49'44	
evening set	-8974 Mar 11 j 12:11	29°♉08'01	
	-8974 Mar 26 j 01:34	0°♒	
max. Earth dist.	-8974 Mar 27 j 04:42	0°♒04'05	19.90536 AU
conjunction	-8974 Mar 28 j 08:03	0°♒08'12	-0°59'34
minimum elong	-8974 Mar 28 j 08:04	0°♒08'12	1°00'05
morning rise	-8974 Apr 14 j 02:16	1°♒08'10	
retrograde	-8974 Jul 15 j 16:08	4°♒24'02	
opposition	-8974 Sep 27 j 12:20	2°♒22'28	-1°05'19
min. Earth dist.	-8974 Sep 28 j 11:16	2°♒19'59	17.87208 AU
direct	-8974 Dec 11 j 22:31	0°♒18'29	
evening set	-8973 Mar 16 j 12:00	3°♒38'12	
max. Earth dist.	-8973 Apr 01 j 02:26	4°♒34'13	19.83839 AU
conjunction	-8973 Apr 02 j 07:40	4°♒38'37	-0°57'43
minimum elong	-8973 Apr 02 j 07:41	4°♒38'38	0°58'14
morning rise	-8973 Apr 19 j 01:18	5°♒38'48	
retrograde	-8973 Jul 20 j 10:28	8°♒55'18	
opposition	-8973 Oct 02 j 04:31	6°♒53'43	-1°03'05
min. Earth dist.	-8973 Oct 03 j 05:56	6°♒50'58	17.80603 AU
direct	-8973 Dec 16 j 15:42	4°♒49'24	
evening set	-8972 Mar 20 j 12:27	8°♒10'31	
max. Earth dist.	-8972 Apr 05 j 00:54	9°♒06'29	19.77315 AU
conjunction	-8972 Apr 06 j 07:48	9°♒11'10	-0°55'30
minimum elong	-8972 Apr 06 j 07:48	9°♒11'10	0°55'59
morning rise	-8972 Apr 23 j 00:55	10°♒11'32	
retrograde	-8972 Jul 24 j 07:17	13°♒28'40	
opposition	-8972 Oct 05 j 21:29	11°♒27'03	-1°00'26
min. Earth dist.	-8972 Oct 06 j 23:21	11°♒24'14	17.74160 AU
direct	-8972 Dec 20 j 12:52	9°♒22'24	
evening set	-8971 Mar 25 j 13:47	12°♒44'51	
max. Earth dist.	-8971 Apr 10 j 00:36	13°♒40'50	19.70942 AU
conjunction	-8971 Apr 11 j 08:50	13°♒45'44	-0°52'54
minimum elong	-8971 Apr 11 j 08:50	13°♒45'44	0°53'21
morning rise	-8971 Apr 28 j 01:09	14°♒46'17	
	-8971 May 01 j 22:03	15°♒	
retrograde	-8971 Jul 29 j 02:43	18°♒04'00	
opposition	-8971 Oct 10 j 15:27	16°♒02'20	-0°57'22
min. Earth dist.	-8971 Oct 11 j 19:39	15°♒59'16	17.67880 AU
	-8971 Nov 04 j 15:55	15°℞♒	
direct	-8971 Dec 25 j 08:04	13°♒57'21	
	-8970 Feb 13 j 01:12	15°♒	
evening set	-8970 Mar 30 j 15:54	17°♒21'06	
max. Earth dist.	-8970 Apr 15 j 00:15	18°♒16'57	19.64758 AU
conjunction	-8970 Apr 16 j 10:25	18°♒22'11	-0°49'57
minimum elong	-8970 Apr 16 j 10:26	18°♒22'11	0°50'24
morning rise	-8970 May 03 j 02:07	19°♒22'53	
retrograde	-8970 Aug 03 j 00:58	22°♒41'09	
opposition	-8970 Oct 15 j 10:18	20°♒39'25	-0°53'55
min. Earth dist.	-8970 Oct 16 j 14:48	20°♒36'19	17.61795 AU
direct	-8970 Dec 30 j 07:12	18°♒34'05	
evening set	-8969 Apr 04 j 18:28	21°♒59'03	
max. Earth dist.	-8969 Apr 20 j 01:52	22°♒55'00	19.58776 AU
conjunction	-8969 Apr 21 j 12:32	23°♒00'20	-0°46'40
minimum elong	-8969 Apr 21 j 12:32	23°♒00'20	0°47'03
morning rise	-8969 May 08 j 03:13	24°♒01'10	
retrograde	-8969 Aug 07 j 21:56	27°♒19'57	
opposition	-8969 Oct 20 j 06:10	25°♒18'09	-0°50'05
min. Earth dist.	-8969 Oct 21 j 12:27	25°♒14'51	17.55947 AU
direct	-8968 Jan 04 j 04:38	23°♒12'29	
evening set	-8968 Apr 08 j 21:37	26°♒38'36	
max. Earth dist.	-8968 Apr 24 j 02:35	27°♒34'25	19.53086 AU
conjunction	-8968 Apr 25 j 14:54	27°♒40'02	-0°43'03
minimum elong	-8968 Apr 25 j 14:54	27°♒40'02	0°43'26
morning rise	-8968 May 12 j 04:51	28°♒41'00	
	-8968 Jun 04 j 07:16	0°♓	
retrograde	-8968 Aug 11 j 20:50	2°♓00'16	
	-8968 Oct 23 j 11:44	30°℞♒	
opposition	-8968 Oct 24 j 02:40	29°♒58'22	-0°45'54
min. Earth dist.	-8968 Oct 25 j 08:57	29°♒55'04	17.50426 AU
direct	-8967 Jan 08 j 04:39	27°♒52'22	
	-8967 Mar 21 j 19:57	0°♓	
evening set	-8967 Apr 14 j 00:56	1°♓19'33	
max. Earth dist.	-8967 Apr 29 j 05:49	2°♓15'35	19.47742 AU
conjunction	-8967 Apr 30 j 17:40	2°♓21'08	-0°39'09
minimum elong	-8967 Apr 30 j 17:40	2°♓21'08	0°39'28
morning rise	-8967 May 17 j 06:31	3°♓22'12	
retrograde	-8967 Aug 16 j 19:13	6°♓41'55	
opposition	-8967 Oct 29 j 00:09	4°♓39'56	-0°41'24
min. Earth dist.	-8967 Oct 30 j 07:32	4°♓36'30	17.45280 AU
direct	-8966 Jan 13 j 03:58	2°♓33'39	
evening set	-8966 Apr 19 j 04:51	6°♓01'49	
max. Earth dist.	-8966 May 04 j 07:26	6°♓57'43	19.42822 AU
conjunction	-8966 May 05 j 20:34	7°♓03'29	-0°34'58
minimum elong	-8966 May 05 j 20:34	7°♓03'30	0°35'14
morning rise	-8966 May 22 j 08:33	8°♓04'39	
retrograde	-8966 Aug 21 j 18:28	11°♓24'48	
opposition	-8966 Nov 02 j 22:17	9°♓22'43	-0°36'36
min. Earth dist.	-8966 Nov 04 j 05:23	9°♓19'19	17.40602 AU
direct	-8965 Jan 18 j 05:01	7°♓16'09	
evening set	-8965 Apr 24 j 08:50	10°♓45'14	
conjunction	-8965 May 10 j 23:48	11°♓47'00	-0°30'32
minimum elong	-8965 May 10 j 23:48	11°♓47'00	0°30'46
max. Earth dist.	-8965 May 09 j 12:02	11°♓41'25	19.38397 AU
morning rise	-8965 May 27 j 10:31	12°♓48'12	
retrograde	-8965 Aug 26 j 18:05	16°♓08'46	
opposition	-8965 Nov 07 j 21:24	14°♓06'37	-0°31'32
min. Earth dist.	-8965 Nov 09 j 04:38	14°♓03'12	17.36449 AU

Attention, astronomical year style is used: The year -8964 in astronomical counting style is the year 8965 BCE in historical counting style.

direct	-8964 Jan 23 j 06:08	11°♓59'52	
evening set	-8964 Apr 28 j 12:59	15°♓29'43	
max. Earth dist.	-8964 May 13 j 14:24	16°♓25'51	19.34540 AU
conjunction	-8964 May 15 j 02:47	16°♓31'33	-0°25'52
minimum elong	-8964 May 15 j 02:47	16°♓31'33	0°26'04
morning rise	-8964 May 31 j 12:30	17°♓32'48	
retrograde	-8964 Aug 30 j 17:30	20°♓53'45	
opposition	-8964 Nov 11 j 21:09	18°♓51'33	-0°26'15
min. Earth dist.	-8964 Nov 13 j 03:49	18°♓48'12	17.32902 AU
direct	-8963 Jan 27 j 07:58	16°♓44'38	
evening set	-8963 May 03 j 17:16	20°♓15'13	
max. Earth dist.	-8963 May 18 j 19:40	21°♓11'40	19.31306 AU
conjunction	-8963 May 20 j 06:10	21°♓17'05	-0°21'02
minimum elong	-8963 May 20 j 06:10	21°♓17'05	0°21'11
morning rise	-8963 Jun 05 j 14:34	22°♓18'20	
retrograde	-8963 Sep 04 j 18:05	25°♓39'37	
opposition	-8963 Nov 16 j 21:32	23°♓37'26	-0°20'45
min. Earth dist.	-8963 Nov 18 j 03:33	23°♓34'09	17.29982 AU
direct	-8962 Feb 01 j 10:45	21°♓30'28	
evening set	-8962 May 08 j 21:51	25°♓01'40	
max. Earth dist.	-8962 May 23 j 22:56	25°♓58'05	19.28721 AU
conjunction	-8962 May 25 j 09:28	26°♓03'32	-0°16'02
minimum elong	-8962 May 25 j 09:28	26°♓03'32	0°16'09
morning rise	-8962 Jun 10 j 16:43	27°♓04'46	
	-8962 Aug 10 j 04:04	0°♈	
retrograde	-8962 Sep 09 j 17:43	0°♈26'23	
	-8962 Oct 10 j 20:59	30°♑℞♓	
opposition	-8962 Nov 21 j 22:45	28°♓24'14	-0°15'05
min. Earth dist.	-8962 Nov 23 j 04:11	28°♓21'01	17.27733 AU
direct	-8961 Feb 06 j 13:40	26°♓17'15	
evening set	-8961 May 14 j 02:10	29°♓48'59	
	-8961 May 17 j 01:28	0°♈	
max. Earth dist.	-8961 May 29 j 04:16	0°♈45'41	19.26805 AU
conjunction	-8961 May 30 j 12:40	0°♈50'49	-0°10'54
minimum elong	-8961 May 30 j 12:40	0°♈50'49	0°10'58
behind sun begin	-8961 May 30 j 07:38	0°♈50'02	
behind sun end	-8961 May 30 j 17:42	0°♈51'35	
morning rise	-8961 Jun 15 j 18:36	1°♈52'00	
retrograde	-8961 Sep 14 j 18:57	5°♈13'55	
opposition	-8961 Nov 27 j 00:38	3°♈11'50	-0°09'18
min. Earth dist.	-8961 Nov 28 j 04:40	3°♈08'47	17.26127 AU
direct	-8960 Feb 11 j 18:28	1°♈04'56	
evening set	-8960 May 18 j 06:37	4°♈37'03	
max. Earth dist.	-8960 Jun 02 j 08:04	5°♈33'48	19.25521 AU
conjunction	-8960 Jun 03 j 15:47	5°♈38'50	-0°05'42
minimum elong	-8960 Jun 03 j 15:48	5°♈38'50	0°05'44
behind sun begin	-8960 Jun 03 j 09:23	5°♈37'50	
behind sun end	-8960 Jun 03 j 22:13	5°♈39'49	
morning rise	-8960 Jun 19 j 20:30	6°♈39'58	
retrograde	-8960 Sep 18 j 18:38	10°♈02'08	
opposition	-8960 Dec 01 j 03:00	8°♈00'08	-0°03'25
min. Earth dist.	-8960 Dec 02 j 06:38	7°♈57'08	17.25159 AU
direct	-8959 Feb 15 j 22:05	5°♈53'19	
evening set	-8959 May 23 j 10:52	9°♈25'43	
conjunction	-8959 Jun 08 j 18:47	10°♈27'24	-0°00'22
minimum elong	-8959 Jun 08 j 18:48	10°♈27'24	0°00'19
behind sun begin	-8959 Jun 08 j 12:09	10°♈26'23	
behind sun end	-8959 Jun 09 j 01:27	10°♈28'26	
max. Earth dist.	-8959 Jun 07 j 12:55	10°♈22'40	19.24852 AU
morning rise	-8959 Jun 24 j 22:15	11°♈28'28	
asc. node	-8959 Jul 04 j 08:32	12°♈02'54	
retrograde	-8959 Sep 23 j 20:31	14°♈50'49	
opposition	-8959 Dec 06 j 05:59	12°♈48'55	0°02'30
min. Earth dist.	-8959 Dec 07 j 07:44	12°♈46'08	17.24760 AU
direct	-8958 Feb 21 j 04:21	10°♈42'15	
evening set	-8958 May 28 j 14:58	14°♈14'45	
conjunction	-8958 Jun 13 j 21:31	15°♈16'20	0°05'00
minimum elong	-8958 Jun 13 j 21:32	15°♈16'20	0°05'06
behind sun begin	-8958 Jun 13 j 15:03	15°♈15'20	
behind sun end	-8958 Jun 14 j 04:01	15°♈17'20	
max. Earth dist.	-8958 Jun 12 j 16:59	15°♈11'48	19.24729 AU
morning rise	-8958 Jun 29 j 23:37	16°♈17'17	
retrograde	-8958 Sep 28 j 20:29	19°♈39'46	
opposition	-8958 Dec 11 j 09:36	17°♈37'57	0°08'24
min. Earth dist.	-8958 Dec 12 j 10:56	17°♈35'13	17.24914 AU
direct	-8957 Feb 26 j 08:28	15°♈31'25	
evening set	-8957 Jun 02 j 18:45	19°♈03'55	
conjunction	-8957 Jun 18 j 23:56	20°♈05'21	0°10'15
minimum elong	-8957 Jun 18 j 23:56	20°♈05'21	0°10'22
behind sun begin	-8957 Jun 18 j 18:40	20°♈04'32	
behind sun end	-8957 Jun 19 j 05:11	20°♈06'10	
max. Earth dist.	-8957 Jun 17 j 21:00	20°♈01'04	19.25152 AU
morning rise	-8957 Jul 05 j 00:48	21°♈06'10	
retrograde	-8957 Oct 03 j 22:55	24°♈28'43	
opposition	-8957 Dec 16 j 13:26	22°♈26'59	0°14'14
min. Earth dist.	-8957 Dec 17 j 12:20	22°♈24'31	17.25585 AU
direct	-8956 Mar 02 j 14:55	20°♈20'36	
evening set	-8956 Jun 06 j 21:57	23°♈52'54	
max. Earth dist.	-8956 Jun 22 j 01:02	24°♈50'14	19.26075 AU
conjunction	-8956 Jun 23 j 01:52	24°♈54'11	0°15'25
minimum elong	-8956 Jun 23 j 01:51	24°♈54'11	0°15'36
behind sun begin	-8956 Jun 23 j 00:10	24°♈53'56	
behind sun end	-8956 Jun 23 j 03:33	24°♈54'27	
morning rise	-8956 Jul 09 j 01:24	25°♈54'51	
retrograde	-8956 Oct 07 j 22:56	29°♈17'24	
opposition	-8956 Dec 20 j 17:38	27°♈15'43	0°19'58
min. Earth dist.	-8956 Dec 21 j 15:59	27°♈13'19	17.26759 AU
direct	-8955 Mar 07 j 18:37	25°♈09'30	
evening set	-8955 Jun 12 j 00:49	28°♈41'29	
max. Earth dist.	-8955 Jun 27 j 03:48	29°♈38'50	19.27504 AU
conjunction	-8955 Jun 28 j 03:16	29°♈42'35	0°20'28
minimum elong	-8955 Jun 28 j 03:15	29°♈42'35	0°20'41
	-8955 Jul 02 j 16:33	0°♉	
morning rise	-8955 Jul 14 j 01:41	0°♉43'04	
retrograde	-8955 Oct 13 j 01:23	4°♉05'33	
opposition	-8955 Dec 25 j 21:43	2°♉03'53	0°25'33
min. Earth dist.	-8955 Dec 26 j 17:16	2°♉01'47	17.28429 AU
	-8954 Mar 03 j 22:49	30°♑♈	
direct	-8954 Mar 13 j 01:02	29°♈57'50	
	-8954 Mar 22 j 02:09	0°♉	
evening set	-8954 Jun 17 j 02:56	3°♉29'23	
max. Earth dist.	-8954 Jul 02 j 07:36	4°♉26'59	19.29429 AU
conjunction	-8954 Jul 03 j 04:10	4°♉30'15	0°25'23
minimum elong	-8954 Jul 03 j 04:09	4°♉30'15	0°25'39
morning rise	-8954 Jul 19 j 01:15	5°♉30'33	
retrograde	-8954 Oct 18 j 00:44	8°♉52'53	
opposition	-8954 Dec 31 j 02:10	6°♉51'15	0°30'56
min. Earth dist.	-8954 Dec 31 j 20:43	6°♉49'16	17.30610 AU
direct	-8953 Mar 18 j 04:55	4°♉45'24	
evening set	-8953 Jun 22 j 04:17	8°♉16'20	
max. Earth dist.	-8953 Jul 07 j 09:02	9°♉13'57	19.31882 AU
conjunction	-8953 Jul 08 j 04:03	9°♉16'58	0°30'06

Attention, astronomical year style is used: The year -8953 in astronomical counting style is the year 8954 BCE in historical counting style.

minimum elong	-8953 Jul 08 j 04:03	9°♉16'58	0°30'24
morning rise	-8953 Jul 24 j 00:12	10°♉17'04	
retrograde	-8953 Oct 23 j 02:14	13°♉39'13	
opposition	-8952 Jan 05 j 06:20	11°♉37'33	0°36'04
min. Earth dist.	-8952 Jan 05 j 21:44	11°♉35'55	17.33326 AU
direct	-8952 Mar 22 j 11:13	9°♉31'54	
evening set	-8952 Jun 26 j 04:45	13°♉02'08	
max. Earth dist.	-8952 Jul 11 j 11:59	14°♉00'04	19.34867 AU
conjunction	-8952 Jul 12 j 03:25	14°♉02'31	0°34'35
minimum elong	-8952 Jul 12 j 03:25	14°♉02'31	0°34'55
morning rise	-8952 Jul 27 j 22:20	15°♉02'23	
	-8952 Jul 27 j 06:59	15°♉	
retrograde	-8952 Oct 27 j 00:29	18°♉24'16	
opposition	-8951 Jan 09 j 10:19	16°♉22'38	0°40'56
min. Earth dist.	-8951 Jan 10 j 00:11	16°♉21'09	17.36584 AU
	-8951 Feb 13 j 18:53	15°℞♉	
direct	-8951 Mar 27 j 15:23	14°♉17'13	
	-8951 May 07 j 08:14	15°♉	
evening set	-8951 Jul 01 j 04:34	17°♉46'38	
conjunction	-8951 Jul 17 j 01:49	18°♉46'44	0°38'49
minimum elong	-8951 Jul 17 j 01:49	18°♉46'44	0°39'12
max. Earth dist.	-8951 Jul 16 j 12:03	18°♉44'33	19.38413 AU
morning rise	-8951 Aug 01 j 19:53	19°♉46'21	
retrograde	-8951 Nov 01 j 00:34	23°♉07'57	
opposition	-8950 Jan 14 j 14:07	21°♉06'20	0°45'31
min. Earth dist.	-8950 Jan 15 j 00:40	21°♉05'12	17.40416 AU
direct	-8950 Apr 01 j 20:55	19°♉01'11	
evening set	-8950 Jul 06 j 03:15	22°♉29'41	
conjunction	-8950 Jul 21 j 23:27	23°♉29'30	0°42'46
minimum elong	-8950 Jul 21 j 23:27	23°♉29'30	0°43'10
max. Earth dist.	-8950 Jul 21 j 13:44	23°♉27'58	19.42527 AU
morning rise	-8950 Aug 06 j 16:23	24°♉28'53	
retrograde	-8950 Nov 05 j 21:55	27°♉50'09	
opposition	-8949 Jan 19 j 17:46	25°♉48'35	0°49'45
min. Earth dist.	-8949 Jan 20 j 02:04	25°♉47'42	17.44809 AU
direct	-8949 Apr 07 j 00:49	23°♉43'46	
evening set	-8949 Jul 11 j 01:17	27°♉11'16	
conjunction	-8949 Jul 26 j 20:12	28°♉10'48	0°46'25
minimum elong	-8949 Jul 26 j 20:12	28°♉10'48	0°46'52
max. Earth dist.	-8949 Jul 26 j 12:20	28°♉09'33	19.47208 AU
morning rise	-8949 Aug 11 j 12:27	29°♉09'55	
	-8949 Aug 25 j 10:25	0°♊	
retrograde	-8949 Nov 10 j 20:52	2°♊30'50	
opposition	-8948 Jan 24 j 20:53	0°♊29'21	0°53'38
min. Earth dist.	-8948 Jan 25 j 02:02	0°♊28'48	17.49769 AU
	-8948 Feb 05 j 14:05	30°℞♉	
direct	-8948 Apr 11 j 03:59	28°♉24'54	
	-8948 Jun 11 j 18:57	0°♊	
evening set	-8948 Jul 14 j 22:12	1°♊51'21	
conjunction	-8948 Jul 30 j 16:16	2°♊50'35	0°49'45
minimum elong	-8948 Jul 30 j 16:15	2°♊50'35	0°50'13
max. Earth dist.	-8948 Jul 30 j 12:22	2°♊49'58	19.52425 AU
morning rise	-8948 Aug 15 j 07:36	3°♊49'26	
retrograde	-8948 Nov 14 j 17:59	7°♊09'57	
opposition	-8947 Jan 28 j 23:40	5°♊08'36	0°57'09
min. Earth dist.	-8947 Jan 29 j 02:13	5°♊08'20	17.55215 AU
direct	-8947 Apr 16 j 06:42	3°♊04'35	
evening set	-8947 Jul 19 j 18:26	6°♊29'55	
conjunction	-8947 Aug 04 j 11:20	7°♊28'50	0°52'45
minimum elong	-8947 Aug 04 j 11:20	7°♊28'50	0°53'14
max. Earth dist.	-8947 Aug 04 j 09:20	7°♊28'31	19.58096 AU
morning rise	-8947 Aug 20 j 02:07	8°♊27'27	
retrograde	-8947 Nov 19 j 15:36	11°♊47'33	
opposition	-8946 Feb 03 j 02:01	9°♊46'21	1°00'17
min. Earth dist.	-8946 Feb 03 j 01:54	9°♊46'21	17.61097 AU
direct	-8946 Apr 21 j 07:32	7°♊42'46	
evening set	-8946 Jul 24 j 13:40	11°♊06'56	
conjunction	-8946 Aug 09 j 05:49	12°♊05'33	0°55'23
minimum elong	-8946 Aug 09 j 05:49	12°♊05'33	0°55'54
max. Earth dist.	-8946 Aug 09 j 07:29	12°♊05'48	19.64164 AU
morning rise	-8946 Aug 24 j 19:52	13°♊03'53	
retrograde	-8946 Nov 24 j 12:40	16°♊23'33	
opposition	-8945 Feb 08 j 03:56	14°♊22'30	1°03'00
min. Earth dist.	-8945 Feb 08 j 00:58	14°♊22'49	17.67320 AU
direct	-8945 Apr 26 j 09:17	12°♊19'23	
evening set	-8945 Jul 29 j 08:04	15°♊42'19	
conjunction	-8945 Aug 13 j 23:17	16°♊40'37	0°57'39
minimum elong	-8945 Aug 13 j 23:16	16°♊40'37	0°58'10
max. Earth dist.	-8945 Aug 14 j 02:52	16°♊41'11	19.70527 AU
morning rise	-8945 Aug 29 j 12:58	17°♊38'42	
retrograde	-8945 Nov 29 j 08:59	20°♊57'55	
opposition	-8944 Feb 13 j 05:17	18°♊57'00	1°05'17
min. Earth dist.	-8944 Feb 13 j 00:17	18°♊57'31	17.73814 AU
direct	-8944 Apr 30 j 07:53	16°♊54'20	
evening set	-8944 Aug 02 j 01:35	20°♊16'00	
conjunction	-8944 Aug 17 j 16:11	21°♊14'00	0°59'32
minimum elong	-8944 Aug 17 j 16:11	21°♊14'00	1°00'05
max. Earth dist.	-8944 Aug 17 j 22:52	21°♊15'03	19.77115 AU
morning rise	-8944 Sep 02 j 05:21	22°♊11'49	
retrograde	-8944 Dec 03 j 05:26	25°♊30'31	
opposition	-8943 Feb 17 j 05:46	23°♊29'45	1°07'09
min. Earth dist.	-8943 Feb 16 j 21:55	23°♊30'34	17.80476 AU
direct	-8943 May 05 j 08:23	21°♊27'32	
evening set	-8943 Aug 06 j 18:21	24°♊47'54	
conjunction	-8943 Aug 22 j 08:12	25°♊45'36	1°01'02
minimum elong	-8943 Aug 22 j 08:12	25°♊45'36	1°01'34
max. Earth dist.	-8943 Aug 22 j 16:42	25°♊46'55	19.83836 AU
morning rise	-8943 Sep 06 j 21:08	26°♊43'09	
	-8943 Nov 30 j 22:51	0°♋	
retrograde	-8943 Dec 08 j 00:22	0°♋01'20	
	-8943 Dec 15 j 03:38	30°℞♊	
opposition	-8942 Feb 22 j 05:54	28°♊00'41	1°08'35
min. Earth dist.	-8942 Feb 21 j 20:28	28°♊01'39	17.87258 AU
direct	-8942 May 10 j 05:19	25°♊58'54	
evening set	-8942 Aug 11 j 09:58	29°♊17'54	
	-8942 Aug 22 j 20:38	0°♋	
conjunction	-8942 Aug 26 j 23:22	0°♋15'18	1°02'08
minimum elong	-8942 Aug 26 j 23:22	0°♋15'18	1°02'42
max. Earth dist.	-8942 Aug 27 j 10:33	0°♋17'02	19.90650 AU
morning rise	-8942 Sep 11 j 12:02	1°♋12'36	
retrograde	-8942 Dec 12 j 19:56	4°♋30'13	
opposition	-8941 Feb 27 j 05:09	2°♋29'40	1°09'35
min. Earth dist.	-8941 Feb 26 j 16:40	2°♋30'57	17.94087 AU
direct	-8941 May 15 j 04:33	0°♋28'18	
evening set	-8941 Aug 16 j 00:50	3°♋45'55	
conjunction	-8941 Aug 31 j 13:47	4°♋43'02	1°02'52
minimum elong	-8941 Aug 31 j 13:47	4°♋43'02	1°03'26
max. Earth dist.	-8941 Sep 01 j 02:52	4°♋45'03	19.97489 AU
morning rise	-8941 Sep 16 j 02:24	5°♋40'06	
retrograde	-8941 Dec 17 j 13:28	8°♋57'07	
opposition	-8940 Mar 03 j 03:32	6°♋56'38	1°10'08
min. Earth dist.	-8940 Mar 02 j 13:54	6°♋58'02	18.00947 AU

Attention, astronomical year style is used: The year -8940 in astronomical counting style is the year 8941 BCE in historical counting style.

direct	-8940 May 18 j 23:55	4°♋55'37	
evening set	-8940 Aug 19 j 14:38	8°♋11'52	
conjunction	-8940 Sep 04 j 03:20	9°♋08'41	1°03'12
minimum elong	-8940 Sep 04 j 03:20	9°♋08'41	1°03'46
max. Earth dist.	-8940 Sep 04 j 18:39	9°♋11'03	20.04353 AU
morning rise	-8940 Sep 19 j 15:57	10°♋05'31	
retrograde	-8940 Dec 21 j 07:11	13°♋21'55	
min. Earth dist.	-8939 Mar 07 j 08:16	11°♋23'11	18.07806 AU
opposition	-8939 Mar 08 j 00:59	11°♋21'28	1°10'17
direct	-8939 May 23 j 21:44	9°♋20'50	
evening set	-8939 Aug 24 j 03:28	12°♋35'40	
conjunction	-8939 Sep 08 j 15:53	13°♋32'13	1°03'10
minimum elong	-8939 Sep 08 j 15:53	13°♋32'13	1°03'45
max. Earth dist.	-8939 Sep 09 j 09:24	13°♋34'54	20.11209 AU
morning rise	-8939 Sep 24 j 04:36	14°♋28'48	
retrograde	-8939 Dec 25 j 23:00	17°♋44'36	
opposition	-8938 Mar 12 j 21:45	15°♋44'10	1°10'01
min. Earth dist.	-8938 Mar 12 j 03:56	15°♋45'59	18.14680 AU
direct	-8938 May 28 j 15:46	13°♋43'52	
evening set	-8938 Aug 28 j 15:25	16°♋57'18	
conjunction	-8938 Sep 13 j 03:43	17°♋53'35	1°02'46
minimum elong	-8938 Sep 13 j 03:43	17°♋53'35	1°03'20
max. Earth dist.	-8938 Sep 13 j 23:20	17°♋56'34	20.18098 AU
morning rise	-8938 Sep 28 j 16:37	18°♋49'57	
retrograde	-8938 Dec 30 j 15:00	22°♋05'06	
opposition	-8937 Mar 17 j 17:22	20°♋04'42	1°09'21
min. Earth dist.	-8937 Mar 16 j 20:23	20°♋06'51	18.21585 AU
direct	-8937 Jun 02 j 11:11	18°♋04'44	
evening set	-8937 Sep 02 j 02:27	21°♋16'48	
conjunction	-8937 Sep 17 j 14:43	22°♋12'50	1°02'02
minimum elong	-8937 Sep 17 j 14:44	22°♋12'50	1°02'35
max. Earth dist.	-8937 Sep 18 j 12:42	22°♋16'10	20.25008 AU
morning rise	-8937 Oct 03 j 03:55	23°♋09'00	
retrograde	-8936 Jan 04 j 04:57	26°♋23'31	
opposition	-8936 Mar 21 j 12:13	24°♋23'10	1°08'18
min. Earth dist.	-8936 Mar 20 j 14:15	24°♋25'24	18.28519 AU
direct	-8936 Jun 06 j 03:27	22°♋23'33	
evening set	-8936 Sep 05 j 12:45	25°♋34'17	
conjunction	-8936 Sep 21 j 01:04	26°♋30'04	1°00'57
minimum elong	-8936 Sep 21 j 01:04	26°♋30'04	1°01'28
max. Earth dist.	-8936 Sep 22 j 00:45	26°♋33'39	20.31953 AU
morning rise	-8936 Oct 06 j 14:36	27°♋26'02	
	-8936 Nov 28 j 20:56	0°♌	
retrograde	-8935 Jan 07 j 19:28	0°♌39'56	
	-8935 Feb 18 j 02:00	30°℞♋	
min. Earth dist.	-8935 Mar 25 j 04:55	28°♋42'11	18.35467 AU
opposition	-8935 Mar 26 j 05:54	28°♋39'39	1°06'53
direct	-8935 Jun 10 j 20:05	26°♋40'23	
evening set	-8935 Sep 09 j 22:17	29°♋49'51	
	-8935 Sep 12 j 19:12	0°♌	
conjunction	-8935 Sep 25 j 10:44	0°♌45'24	0°59'32
minimum elong	-8935 Sep 25 j 10:45	0°♌45'24	1°00'03
max. Earth dist.	-8935 Sep 26 j 12:43	0°♌49'18	20.38891 AU
morning rise	-8935 Oct 11 j 00:41	1°♌41'11	
retrograde	-8934 Jan 12 j 08:03	4°♌54'30	
opposition	-8934 Mar 30 j 23:00	2°♌54'18	1°05'07
min. Earth dist.	-8934 Mar 29 j 21:16	2°♌56'54	18.42398 AU
direct	-8934 Jun 15 j 10:02	0°♌55'25	
evening set	-8934 Sep 14 j 07:02	4°♌03'37	
conjunction	-8934 Sep 29 j 19:44	4°♌58'58	0°57'48
minimum elong	-8934 Sep 29 j 19:44	4°♌58'58	0°58'19
max. Earth dist.	-8934 Sep 30 j 23:02	5°♌03'03	20.45800 AU
morning rise	-8934 Oct 15 j 10:16	5°♌54'34	
retrograde	-8933 Jan 16 j 21:51	9°♌07'19	
min. Earth dist.	-8933 Apr 03 j 10:50	7°♌10'05	18.49259 AU
opposition	-8933 Apr 04 j 15:08	7°♌07'13	1°03'00
direct	-8933 Jun 20 j 00:26	5°♌08'43	
evening set	-8933 Sep 18 j 15:18	8°♌15'43	
conjunction	-8933 Oct 04 j 04:21	9°♌10'53	0°55'47
minimum elong	-8933 Oct 04 j 04:21	9°♌10'53	0°56'15
max. Earth dist.	-8933 Oct 05 j 09:41	9°♌15'15	20.52589 AU
morning rise	-8933 Oct 19 j 19:27	10°♌06'20	
retrograde	-8932 Jan 21 j 09:09	13°♌18'31	
min. Earth dist.	-8932 Apr 07 j 01:49	11°♌21'25	18.55974 AU
opposition	-8932 Apr 08 j 06:23	11°♌18'32	1°00'34
direct	-8932 Jun 23 j 12:15	9°♌20'24	
evening set	-8932 Sep 21 j 23:00	12°♌26'16	
conjunction	-8932 Oct 07 j 12:26	13°♌21'14	0°53'28
minimum elong	-8932 Oct 07 j 12:26	13°♌21'14	0°53'56
max. Earth dist.	-8932 Oct 08 j 18:28	13°♌25'42	20.59211 AU
morning rise	-8932 Oct 23 j 04:14	14°♌16'32	
	-8932 Nov 05 j 01:10	15°♌	
retrograde	-8931 Jan 24 j 22:24	17°♌28'11	
opposition	-8931 Apr 12 j 20:52	15°♌28'19	0°57'50
min. Earth dist.	-8931 Apr 11 j 14:22	15°♌31'23	18.62480 AU
	-8931 Apr 24 j 17:08	15°℞♌	
direct	-8931 Jun 28 j 00:43	13°♌30'32	
	-8931 Aug 27 j 04:50	15°♌	
evening set	-8931 Sep 26 j 06:07	16°♌35'19	
conjunction	-8931 Oct 11 j 20:01	17°♌30'07	0°50'53
minimum elong	-8931 Oct 11 j 20:01	17°♌30'07	0°51'18
max. Earth dist.	-8931 Oct 13 j 03:48	17°♌34'49	20.65573 AU
morning rise	-8931 Oct 27 j 12:28	18°♌25'17	
retrograde	-8930 Jan 29 j 08:40	21°♌36'26	
min. Earth dist.	-8930 Apr 16 j 04:19	19°♌39'43	18.68696 AU
opposition	-8930 Apr 17 j 10:46	19°♌36'40	0°54'48
direct	-8930 Jul 02 j 11:16	17°♌39'12	
evening set	-8930 Sep 30 j 12:57	20°♌42'56	
conjunction	-8930 Oct 16 j 03:21	21°♌37'35	0°48'03
minimum elong	-8930 Oct 16 j 03:21	21°♌37'35	0°48'27
max. Earth dist.	-8930 Oct 17 j 11:17	21°♌42'17	20.71627 AU
morning rise	-8930 Oct 31 j 20:39	22°♌32'39	
retrograde	-8929 Feb 02 j 21:06	25°♌43'17	
opposition	-8929 Apr 21 j 23:40	23°♌43'35	0°51'30
min. Earth dist.	-8929 Apr 20 j 15:55	23°♌46'46	18.74570 AU
direct	-8929 Jul 06 j 22:00	21°♌46'24	
evening set	-8929 Oct 04 j 19:19	24°♌49'09	
conjunction	-8929 Oct 20 j 10:24	25°♌43'41	0°44'59
minimum elong	-8929 Oct 20 j 10:24	25°♌43'41	0°45'21
max. Earth dist.	-8929 Oct 21 j 19:33	25°♌48'32	20.77289 AU
morning rise	-8929 Nov 05 j 04:29	26°♌38'38	
retrograde	-8928 Feb 07 j 06:29	29°♌48'47	
min. Earth dist.	-8928 Apr 24 j 04:38	27°♌52'17	18.80021 AU
opposition	-8928 Apr 25 j 11:56	27°♌49'09	0°47'58
direct	-8928 Jul 10 j 07:33	25°♌52'13	
evening set	-8928 Oct 08 j 01:17	28°♌54'02	
conjunction	-8928 Oct 23 j 16:58	29°♌48'26	0°41'42
minimum elong	-8928 Oct 23 j 16:58	29°♌48'26	0°42'02
max. Earth dist.	-8928 Oct 25 j 01:46	29°♌53'13	20.82527 AU
	-8928 Oct 27 j 00:12	0°♍	
morning rise	-8928 Nov 08 j 11:59	0°♍43'18	

Attention, astronomical year style is used: The year -8927 in astronomical counting style is the year 8928 BCE in historical counting style.

retrograde	-8927 Feb 10 j 17:33	3°♍52'58	
opposition	-8927 Apr 29 j 23:21	1°♍53'22	0°44'12
min. Earth dist.	-8927 Apr 28 j 15:09	1°♍56'35	18.85034 AU
	-8927 Jul 03 j 04:57	30°℞♌	
direct	-8927 Jul 14 j 16:37	29°♌56'37	
	-8927 Jul 26 j 02:27	0°♍	
evening set	-8927 Oct 12 j 06:49	2°♍57'33	
conjunction	-8927 Oct 27 j 23:18	3°♍51'52	0°38'13
minimum elong	-8927 Oct 27 j 23:19	3°♍51'52	0°38'32
max. Earth dist.	-8927 Oct 29 j 09:08	3°♍56'47	20.87310 AU
morning rise	-8927 Nov 12 j 19:11	4°♍46'39	
retrograde	-8926 Feb 15 j 01:57	7°♍55'51	
min. Earth dist.	-8926 May 03 j 02:26	5°♍59'25	18.89596 AU
opposition	-8926 May 04 j 10:06	5°♍56'15	0°40'15
direct	-8926 Jul 19 j 01:13	3°♍59'41	
evening set	-8926 Oct 16 j 11:58	6°♍59'46	
conjunction	-8926 Nov 01 j 05:13	7°♍54'00	0°34'35
minimum elong	-8926 Nov 01 j 05:13	7°♍54'00	0°34'51
max. Earth dist.	-8926 Nov 02 j 14:28	7°♍58'49	20.91667 AU
morning rise	-8926 Nov 17 j 02:11	8°♍48'44	
retrograde	-8925 Feb 19 j 12:06	11°♍57'30	
min. Earth dist.	-8925 May 07 j 11:47	10°♍01'06	18.93741 AU
opposition	-8925 May 08 j 20:02	9°♍57'52	0°36'08
direct	-8925 Jul 23 j 08:40	8°♍01'25	
evening set	-8925 Oct 20 j 16:52	11°♍00'45	
conjunction	-8925 Nov 05 j 11:00	11°♍54'55	0°30'48
minimum elong	-8925 Nov 05 j 11:00	11°♍54'55	0°31'02
max. Earth dist.	-8925 Nov 06 j 21:10	11°♍59'51	20.95601 AU
morning rise	-8925 Nov 21 j 08:51	12°♍49'37	
retrograde	-8924 Feb 23 j 19:25	15°♍57'57	
min. Earth dist.	-8924 May 10 j 21:26	14°♍01'29	18.97482 AU
opposition	-8924 May 12 j 05:06	13°♍58'18	0°31'51
direct	-8924 Jul 26 j 15:53	12°♍01'58	
evening set	-8924 Oct 23 j 21:31	15°♍00'38	
conjunction	-8924 Nov 08 j 16:26	15°♍54'45	0°26'53
minimum elong	-8924 Nov 08 j 16:26	15°♍54'45	0°27'05
max. Earth dist.	-8924 Nov 10 j 01:54	15°♍59'34	20.99169 AU
morning rise	-8924 Nov 24 j 15:23	16°♍49'25	
retrograde	-8923 Feb 27 j 05:04	19°♍57'24	
min. Earth dist.	-8923 May 15 j 05:31	18°♍00'57	19.00877 AU
opposition	-8923 May 16 j 13:39	17°♍57'43	0°27'27
direct	-8923 Jul 30 j 22:10	16°♍01'29	
evening set	-8923 Oct 28 j 01:48	18°♍59'33	
conjunction	-8923 Nov 12 j 21:41	19°♍53'38	0°22'52
minimum elong	-8923 Nov 12 j 21:41	19°♍53'38	0°23'02
max. Earth dist.	-8923 Nov 14 j 08:03	19°♍58'34	21.02382 AU
morning rise	-8923 Nov 28 j 21:35	20°♍48'18	
retrograde	-8922 Mar 03 j 12:01	23°♍55'57	
opposition	-8922 May 20 j 21:39	21°♍56'17	0°22'56
min. Earth dist.	-8922 May 19 j 14:05	21°♍59'27	19.03918 AU
direct	-8922 Aug 04 j 03:38	20°♍00'09	
evening set	-8922 Nov 01 j 06:11	22°♍57'43	
conjunction	-8922 Nov 17 j 02:58	23°♍51'47	0°18'45
minimum elong	-8922 Nov 17 j 02:58	23°♍51'47	0°18'52
max. Earth dist.	-8922 Nov 18 j 12:21	23°♍56'34	21.05262 AU
morning rise	-8922 Dec 03 j 04:02	24°♍46'27	
retrograde	-8921 Mar 07 j 21:21	27°♍53'50	
min. Earth dist.	-8921 May 23 j 21:22	25°♍57'21	19.06624 AU
opposition	-8921 May 25 j 04:57	25°♍54'11	0°18'19
direct	-8921 Aug 08 j 09:16	23°♍58'08	
evening set	-8921 Nov 05 j 10:29	26°♍55'18	

conjunction	-8921 Nov 21 j 08:19	27°♍49'23	0°14'33
minimum elong	-8921 Nov 21 j 08:19	27°♍49'23	0°14'39
behind sun begin	-8921 Nov 21 j 05:30	27°♍49'00	
behind sun end	-8921 Nov 21 j 11:08	27°♍49'47	
max. Earth dist.	-8921 Nov 22 j 18:15	27°♍54'14	21.07779 AU
morning rise	-8921 Dec 07 j 10:20	28°♍44'04	
	-8921 Dec 31 j 14:23	0°♎	
retrograde	-8920 Mar 11 j 04:24	1°♎51'13	
	-8920 May 25 j 00:17	30°℞♍	
min. Earth dist.	-8920 May 27 j 05:09	29°♍54'41	19.08950 AU
opposition	-8920 May 28 j 11:53	29°♍51'36	0°13'38
direct	-8920 Aug 11 j 13:21	27°♍55'40	
	-8920 Oct 23 j 06:11	0°♎	
evening set	-8920 Nov 08 j 14:44	0°♎52'29	
conjunction	-8920 Nov 24 j 13:28	1°♎46'35	0°10'17
minimum elong	-8920 Nov 24 j 13:28	1°♎46'35	0°10'21
behind sun begin	-8920 Nov 24 j 08:15	1°♎45'52	
behind sun end	-8920 Nov 24 j 18:42	1°♎47'19	
max. Earth dist.	-8920 Nov 25 j 22:07	1°♎51'14	21.09922 AU
morning rise	-8920 Dec 10 j 16:39	2°♎41'19	
retrograde	-8919 Mar 15 j 13:08	5°♎48'17	
opposition	-8919 Jun 01 j 18:26	3°♎48'42	0°08'53
min. Earth dist.	-8919 May 31 j 12:05	3°♎51'46	19.10888 AU
direct	-8919 Aug 15 j 18:32	1°♎52'52	
evening set	-8919 Nov 12 j 19:12	4°♎49'26	
conjunction	-8919 Nov 28 j 19:02	5°♎43'35	0°06'00
minimum elong	-8919 Nov 28 j 19:02	5°♎43'35	0°06'00
behind sun begin	-8919 Nov 28 j 12:44	5°♎42'43	
behind sun end	-8919 Nov 29 j 01:21	5°♎44'28	
max. Earth dist.	-8919 Nov 30 j 03:54	5°♎48'15	21.11643 AU
morning rise	-8919 Dec 14 j 23:11	6°♎38'21	
retrograde	-8918 Mar 19 j 20:36	9°♎45'12	
min. Earth dist.	-8918 Jun 04 j 19:29	7°♎48'36	19.12379 AU
opposition	-8918 Jun 06 j 00:36	7°♎45'39	0°04'06
direct	-8918 Aug 19 j 22:29	5°♎49'53	
evening set	-8918 Nov 16 j 23:56	8°♎46'17	
conjunction	-8918 Dec 03 j 00:46	9°♎40'30	0°01'38
minimum elong	-8918 Dec 03 j 00:45	9°♎40'30	0°01'37
behind sun begin	-8918 Dec 02 j 18:07	9°♎39'35	
behind sun end	-8918 Dec 03 j 07:23	9°♎41'25	
max. Earth dist.	-8918 Dec 04 j 07:44	9°♎44'54	21.12909 AU
morning rise	-8918 Dec 19 j 06:06	10°♎35'20	
retrograde	-8917 Mar 24 j 04:59	13°♎42'04	
desc. node	-8917 Apr 18 j 00:02	13°♎27'35	
min. Earth dist.	-8917 Jun 09 j 02:23	11°♎45'24	19.13391 AU
opposition	-8917 Jun 10 j 06:31	11°♎42'34	-0°00'43
direct	-8917 Aug 24 j 02:48	9°♎46'50	
evening set	-8917 Nov 21 j 04:57	12°♎43'09	
conjunction	-8917 Dec 07 j 06:53	13°♎37'26	-0°02'50
minimum elong	-8917 Dec 07 j 06:52	13°♎37'26	0°02'55
behind sun begin	-8917 Dec 07 j 00:15	13°♎36'31	
behind sun end	-8917 Dec 07 j 13:29	13°♎38'21	
max. Earth dist.	-8917 Dec 08 j 13:29	13°♎41'46	21.13646 AU
morning rise	-8917 Dec 23 j 13:07	14°♎32'20	
retrograde	-8916 Mar 27 j 12:35	17°♎39'00	
min. Earth dist.	-8916 Jun 12 j 09:35	15°♎42'12	19.13849 AU
opposition	-8916 Jun 13 j 12:06	15°♎39'31	-0°05'32
direct	-8916 Aug 27 j 07:16	13°♎43'47	
evening set	-8916 Nov 24 j 10:18	16°♎40'05	
conjunction	-8916 Dec 10 j 13:10	17°♎34'27	-0°07'10
minimum elong	-8916 Dec 10 j 13:10	17°♎34'27	0°07'16
behind sun begin	-8916 Dec 10 j 07:04	17°♎33'37	

Attention, astronomical year style is used: The year -8916 in astronomical counting style is the year 8917 BCE in historical counting style.

behind sun end	-8916 Dec 10 j 19:16	17°♎35'18	
max. Earth dist.	-8916 Dec 11 j 17:20	17°♎38'26	21.13832 AU
morning rise	-8916 Dec 26 j 20:35	18°♎29'27	
retrograde	-8915 Mar 31 j 20:29	21°♎36'05	
opposition	-8915 Jun 17 j 17:37	19°♎36'35	-0°10'19
min. Earth dist.	-8915 Jun 16 j 16:28	19°♎39'07	19.13742 AU
direct	-8915 Aug 31 j 11:01	17°♎40'46	
evening set	-8915 Nov 28 j 15:47	20°♎37'07	
conjunction	-8915 Dec 14 j 19:50	21°♎31'36	-0°11'27
minimum elong	-8915 Dec 14 j 19:50	21°♎31'36	0°11'36
behind sun begin	-8915 Dec 14 j 15:06	21°♎30'57	
behind sun end	-8915 Dec 15 j 00:34	21°♎32'15	
max. Earth dist.	-8915 Dec 15 j 23:14	21°♎35'28	21.13421 AU
morning rise	-8915 Dec 31 j 04:10	22°♎26'42	
retrograde	-8914 Apr 05 j 04:01	25°♎33'18	
opposition	-8914 Jun 21 j 22:57	23°♎33'45	-0°15'03
min. Earth dist.	-8914 Jun 20 j 23:35	23°♎36'08	19.13023 AU
direct	-8914 Sep 04 j 15:59	21°♎37'50	
evening set	-8914 Dec 02 j 21:49	24°♎34'18	
conjunction	-8914 Dec 19 j 02:52	25°♎28'54	-0°15'42
minimum elong	-8914 Dec 19 j 02:51	25°♎28'54	0°15'53
behind sun begin	-8914 Dec 19 j 02:20	25°♎28'49	
behind sun end	-8914 Dec 19 j 03:22	25°♎28'58	
max. Earth dist.	-8914 Dec 20 j 03:26	25°♎32'22	21.12420 AU
morning rise	-8913 Jan 04 j 12:21	26°♎24'06	
retrograde	-8913 Apr 09 j 11:47	29°♎30'42	
min. Earth dist.	-8913 Jun 25 j 06:19	27°♎33'16	19.11730 AU
opposition	-8913 Jun 26 j 03:59	27°♎31'05	-0°19'42
direct	-8913 Sep 08 j 19:57	25°♎34'59	
evening set	-8913 Dec 07 j 04:04	28°♎31'38	
conjunction	-8913 Dec 23 j 10:16	29°♎26'22	-0°19'52
minimum elong	-8913 Dec 23 j 10:15	29°♎26'22	0°20'05
max. Earth dist.	-8913 Dec 24 j 09:57	29°♎29'42	21.10844 AU
	-8912 Jan 02 j 08:44	0°♏	
morning rise	-8912 Jan 08 j 20:35	0°♏21'41	
retrograde	-8912 Apr 12 j 18:49	3°♏28'18	
opposition	-8912 Jun 29 j 08:57	1°♏28'35	-0°24'16
min. Earth dist.	-8912 Jun 28 j 13:02	1°♏30'37	19.09884 AU
	-8912 Aug 09 j 13:56	30°℞♎	
direct	-8912 Sep 12 j 00:40	29°♎32'18	
	-8912 Oct 14 j 22:17	0°♏	
evening set	-8912 Dec 10 j 10:34	2°♏29'12	
conjunction	-8912 Dec 26 j 17:42	3°♏24'04	-0°23'57
minimum elong	-8912 Dec 26 j 17:42	3°♏24'04	0°24'13
max. Earth dist.	-8912 Dec 27 j 14:40	3°♏27'01	21.08763 AU
morning rise	-8911 Jan 12 j 05:07	4°♏19'31	
retrograde	-8911 Apr 17 j 03:09	7°♏26'14	
opposition	-8911 Jul 03 j 13:51	5°♏26'23	-0°28'44
min. Earth dist.	-8911 Jul 02 j 19:36	5°♏28'14	19.07570 AU
direct	-8911 Sep 16 j 04:57	3°♏29'51	
evening set	-8911 Dec 14 j 17:34	6°♏27'06	
conjunction	-8911 Dec 31 j 01:50	7°♏22'08	-0°27'55
minimum elong	-8911 Dec 31 j 01:50	7°♏22'08	0°28'12
max. Earth dist.	-8911 Dec 31 j 22:00	7°♏24'59	21.06224 AU
morning rise	-8910 Jan 16 j 14:02	8°♏17'44	
retrograde	-8910 Apr 21 j 10:04	11°♏24'32	
opposition	-8910 Jul 07 j 18:34	9°♏24'35	-0°33'04
min. Earth dist.	-8910 Jul 07 j 02:01	9°♏26'17	19.04821 AU
direct	-8910 Sep 20 j 09:15	7°♏27'50	
evening set	-8910 Dec 19 j 01:09	10°♏25'30	
conjunction	-8909 Jan 04 j 10:20	11°♏20'42	-0°31'46
minimum elong	-8909 Jan 04 j 10:20	11°♏20'42	0°32'06
max. Earth dist.	-8909 Jan 05 j 03:37	11°♏23'08	21.03291 AU
morning rise	-8909 Jan 20 j 23:34	12°♏16'28	
	-8909 Mar 25 j 14:35	15°♏	
retrograde	-8909 Apr 25 j 19:06	15°♏23'25	
	-8909 May 27 j 04:09	15°℞♏	
opposition	-8909 Jul 11 j 23:26	13°♏23'23	-0°37'14
min. Earth dist.	-8909 Jul 11 j 08:39	13°♏24'54	19.01704 AU
direct	-8909 Sep 24 j 13:54	11°♏26'22	
evening set	-8909 Dec 23 j 09:07	14°♏24'34	
	-8908 Jan 02 j 22:25	15°♏	
conjunction	-8908 Jan 08 j 19:23	15°♏19'58	-0°35'28
minimum elong	-8908 Jan 08 j 19:23	15°♏19'58	0°35'49
max. Earth dist.	-8908 Jan 09 j 11:48	15°♏22'17	20.99986 AU
morning rise	-8908 Jan 25 j 09:15	16°♏15'53	
retrograde	-8908 Apr 29 j 02:41	19°♏23'03	
opposition	-8908 Jul 15 j 04:20	17°♏22'57	-0°41'15
min. Earth dist.	-8908 Jul 14 j 15:10	17°♏24'18	18.98227 AU
direct	-8908 Sep 27 j 18:24	15°♏25'42	
evening set	-8908 Dec 26 j 17:45	18°♏24'30	
conjunction	-8907 Jan 12 j 04:52	19°♏20'06	-0°39'01
minimum elong	-8907 Jan 12 j 04:52	19°♏20'06	0°39'24
max. Earth dist.	-8907 Jan 12 j 18:16	19°♏21'59	20.96358 AU
morning rise	-8907 Jan 28 j 19:42	20°♏16'13	
retrograde	-8907 May 03 j 12:03	23°♏23'39	
opposition	-8907 Jul 19 j 09:27	21°♏23'28	-0°45'06
min. Earth dist.	-8907 Jul 18 j 22:11	21°♏24'38	18.94442 AU
direct	-8907 Oct 01 j 23:21	19°♏25'59	
evening set	-8907 Dec 31 j 02:57	22°♏25'29	
conjunction	-8906 Jan 16 j 15:10	23°♏21'18	-0°42'24
minimum elong	-8906 Jan 16 j 15:10	23°♏21'18	0°42'48
max. Earth dist.	-8906 Jan 17 j 03:32	23°♏23'03	20.92407 AU
morning rise	-8906 Feb 02 j 06:36	24°♏17'37	
retrograde	-8906 May 07 j 21:13	27°♏25'21	
opposition	-8906 Jul 23 j 14:49	25°♏25'09	-0°48'44
min. Earth dist.	-8906 Jul 23 j 05:20	25°♏26'08	18.90321 AU
direct	-8906 Oct 06 j 04:43	23°♏27'26	
evening set	-8905 Jan 04 j 13:07	26°♏27'43	
conjunction	-8905 Jan 21 j 02:06	27°♏23'46	-0°45'35
minimum elong	-8905 Jan 21 j 02:05	27°♏23'46	0°46'01
max. Earth dist.	-8905 Jan 21 j 11:04	27°♏25'02	20.88131 AU
morning rise	-8905 Feb 06 j 18:22	28°♏20'16	
	-8905 Mar 11 j 12:52	0°♐	
retrograde	-8905 May 12 j 06:57	1°♐28'22	
	-8905 Jul 14 j 21:17	30°℞♏	
opposition	-8905 Jul 27 j 20:24	29°♏28'09	-0°52'09
min. Earth dist.	-8905 Jul 27 j 13:11	29°♏28'54	18.85879 AU
direct	-8905 Oct 10 j 10:12	27°♏30'11	
	-8905 Dec 30 j 10:05	0°♐	
evening set	-8904 Jan 08 j 23:56	0°♐31'20	
conjunction	-8904 Jan 25 j 13:54	1°♐27'37	-0°48'33
minimum elong	-8904 Jan 25 j 13:54	1°♐27'37	0°49'02
max. Earth dist.	-8904 Jan 25 j 21:33	1°♐28'43	20.83509 AU
morning rise	-8904 Feb 11 j 06:38	2°♐24'21	
retrograde	-8904 May 15 j 17:30	5°♐32'49	
opposition	-8904 Jul 31 j 02:27	3°♐32'36	-0°55'20
min. Earth dist.	-8904 Jul 30 j 21:09	3°♐33'09	18.81073 AU
direct	-8904 Oct 13 j 16:45	1°♐34'23	
evening set	-8903 Jan 12 j 11:34	4°♐36'27	
conjunction	-8903 Jan 29 j 02:12	5°♐33'00	-0°51'18
minimum elong	-8903 Jan 29 j 02:12	5°♐33'00	0°51'47

Attention, astronomical year style is used: The year -8903 in astronomical counting style is the year 8904 BCE in historical counting style.

max. Earth dist.	-8903 Jan 29 j 06:09	5°↗33'34	20.78524 AU
morning rise	-8903 Feb 14 j 19:41	6°↗29'56	
retrograde	-8903 May 20 j 04:06	9°↗38'52	
opposition	-8903 Aug 04 j 08:57	7°↗38'36	-0°58'15
min. Earth dist.	-8903 Aug 04 j 06:16	7°↗38'53	18.75897 AU
direct	-8903 Oct 17 j 23:17	5°↗40'04	
evening set	-8902 Jan 17 j 00:08	8°↗43'09	
conjunction	-8902 Feb 02 j 15:43	9°↗39'57	-0°53'48
minimum elong	-8902 Feb 02 j 15:43	9°↗39'57	0°54'18
max. Earth dist.	-8902 Feb 02 j 17:59	9°↗40'17	20.73137 AU
morning rise	-8902 Feb 19 j 09:32	10°↗37'07	
retrograde	-8902 May 24 j 15:44	13°↗46'28	
opposition	-8902 Aug 08 j 15:46	11°↗46'10	-1°00'53
min. Earth dist.	-8902 Aug 08 j 15:12	11°↗46'13	18.70300 AU
direct	-8902 Oct 22 j 07:13	9°↗47'18	
evening set	-8901 Jan 21 j 13:47	12°↗51'26	
conjunction	-8901 Feb 07 j 05:56	13°↗48'30	-0°56'01
minimum elong	-8901 Feb 07 j 05:55	13°↗48'30	0°56'32
max. Earth dist.	-8901 Feb 07 j 04:01	13°↗48'13	20.67338 AU
morning rise	-8901 Feb 24 j 00:20	14°↗45'53	
retrograde	-8901 May 29 j 03:28	17°↗55'41	
opposition	-8901 Aug 12 j 23:17	15°↗55'18	-1°03'13
min. Earth dist.	-8901 Aug 13 j 01:31	15°↗55'04	18.64302 AU
direct	-8901 Oct 26 j 15:10	13°↗56'03	
evening set	-8900 Jan 26 j 03:55	17°↗01'16	
conjunction	-8900 Feb 11 j 20:53	17°↗58'36	-0°57'58
minimum elong	-8900 Feb 11 j 20:53	17°↗58'36	0°58'30
max. Earth dist.	-8900 Feb 11 j 17:16	17°↗58'05	20.61137 AU
morning rise	-8900 Feb 28 j 15:28	18°↗56'13	
retrograde	-8900 Jun 01 j 16:07	22°↗06'29	
opposition	-8900 Aug 16 j 07:10	20°↗05'59	-1°05'13
min. Earth dist.	-8900 Aug 16 j 11:20	20°↗05'33	18.57913 AU
direct	-8900 Oct 30 j 00:30	18°↗06'19	
evening set	-8899 Jan 29 j 19:06	21°↗12'39	
conjunction	-8899 Feb 15 j 12:31	22°↗10'16	-0°59'36
minimum elong	-8899 Feb 15 j 12:31	22°↗10'16	1°00'10
max. Earth dist.	-8899 Feb 15 j 04:53	22°↗09'09	20.54589 AU
morning rise	-8899 Mar 04 j 07:36	23°↗08'07	
retrograde	-8899 Jun 06 j 04:43	26°↗18'51	
opposition	-8899 Aug 20 j 15:34	24°↗18'13	-1°06'53
min. Earth dist.	-8899 Aug 20 j 22:34	24°↗17'28	18.51223 AU
direct	-8899 Nov 03 j 09:35	22°↗18'05	