Attention, astronomical year style is used: The year -10400 in astronomical counting style is the year 10401 BCE in historical counting style.

evening set	-10400 Mar 10 j 15:52	19°♉00'37		
max. Earth dist.	-10400 Mar 26 j 01:25	19°♉56'36	19.64311 AU	
conjunction	-10400 Mar 27 j 10:46	20°♉01'42	-1°03'57	
minimum elong	-10400 Mar 27 j 10:46	20°♉01'42	1°04'30	
morning rise	-10400 Apr 13 j 03:03	21°♉02'26		
retrograde	-10400 Jul 14 j 06:25	24°♉20'54		
opposition	-10400 Sep 25 j 17:50	22°♉18'46	-1°10'09	
min. Earth dist.	-10400 Sep 26 j 22:17	22°♉15'40	17.61151 AU	
direct	-10400 Dec 10 j 09:26	20°♉13'18		
evening set	-10399 Mar 15 j 18:22	23°♉37'49		
max. Earth dist.	-10399 Mar 31 j 02:56	24°♉33'54	19.57962 AU	
conjunction	-10399 Apr 01 j 12:50	24°♉39'06	-1°01'50	
minimum elong	-10399 Apr 01 j 12:50	24°♉39'06	1°02'23	
morning rise	-10399 Apr 18 j 04:22	25°♉40'00		
retrograde	-10399 Jul 19 j 04:50	28°♉59'04		
opposition	-10399 Sep 30 j 13:12	26°♉56'53	-1°07'36	
min. Earth dist.	-10399 Oct 01 j 17:23	26°♉53'48	17.55010 AU	
direct	-10399 Dec 15 j 08:19	24°♉51'07		
evening set	-10398 Mar 20 j 21:23	28°♉16'54		
max. Earth dist.	-10398 Apr 05 j 04:40	29°♉13'03	19.52036 AU	
conjunction	-10398 Apr 06 j 15:17	29°♉18'23	-0°59'18	
minimum elong	-10398 Apr 06 j 15:18	29°♉18'23	0°59'50	
	-10398 Apr 17 j 21:47	0°♒		
morning rise	-10398 Apr 23 j 05:55	0°♒19'26		
retrograde	-10398 Jul 24 j 02:15	3°♒39'05		
opposition	-10398 Oct 05 j 09:37	1°♒36'53	-1°04'34	
min. Earth dist.	-10398 Oct 06 j 15:23	1°♒33'38	17.49317 AU	
	-10398 Nov 16 j 14:25	30°℞♉		
direct	-10398 Dec 20 j 05:58	29°♉30'52		
	-10397 Jan 22 j 15:19	0°♒		
evening set	-10397 Mar 26 j 01:08	2°♒57'54		
max. Earth dist.	-10397 Apr 10 j 07:05	3°♒54'06	19.46577 AU	
conjunction	-10397 Apr 11 j 18:22	3°♒59'34	-0°56'21	
minimum elong	-10397 Apr 11 j 18:22	3°♒59'34	0°56'52	
morning rise	-10397 Apr 28 j 08:13	5°♒00'44		
retrograde	-10397 Jul 29 j 02:02	8°♒20'57		
opposition	-10397 Oct 10 j 06:40	6°♒18'46	-1°01'05	
min. Earth dist.	-10397 Oct 11 j 12:03	6°♒15'33	17.44079 AU	
direct	-10397 Dec 25 j 06:56	4°♒12'32		
evening set	-10396 Mar 30 j 05:31	7°♒40'46		
max. Earth dist.	-10396 Apr 14 j 10:44	8°♒37'04	19.41557 AU	
conjunction	-10396 Apr 15 j 22:05	8°♒42'34	-0°53'00	
minimum elong	-10396 Apr 15 j 22:05	8°♒42'34	0°53'31	
morning rise	-10396 May 02 j 10:49	9°♒43'52		
retrograde	-10396 Aug 02 j 00:44	13°♒04'36		
opposition	-10396 Oct 14 j 05:02	11°♒02'28	-0°57'10	
min. Earth dist.	-10396 Oct 15 j 11:52	10°♒59'06	17.39283 AU	
direct	-10396 Dec 29 j 06:29	8°♒56'04		
evening set	-10395 Apr 04 j 10:21	12°♒25'23		
max. Earth dist.	-10395 Apr 19 j 13:46	13°♒21'39	19.36983 AU	
conjunction	-10395 Apr 21 j 01:57	13°♒27'18	-0°49'17	
minimum elong	-10395 Apr 21 j 01:57	13°♒27'18	0°49'44	
morning rise	-10395 May 07 j 13:47	14°♒28'41		
	-10395 May 16 j 06:28	15°♒		
retrograde	-10395 Aug 07 j 01:49	17°♒49'56		
opposition	-10395 Oct 19 j 04:11	15°♒47'49	-0°52'49	
min. Earth dist.	-10395 Oct 20 j 10:25	15°♒44'31	17.34926 AU	
	-10395 Nov 06 j 20:42	15°℞♒		
direct	-10394 Jan 03 j 09:45	13°♒41'16		
	-10394 Feb 28 j 03:54	15°♒		
evening set	-10394 Apr 09 j 15:31	17°♒11'33		
max. Earth dist.	-10394 Apr 24 j 18:53	18°♒08'01	19.32837 AU	
conjunction	-10394 Apr 26 j 06:20	18°♒13'34	-0°45'11	
minimum elong	-10394 Apr 26 j 06:20	18°♒13'35	0°45'38	
morning rise	-10394 May 12 j 16:54	19°♒15'01		
retrograde	-10394 Aug 12 j 01:41	22°♒36'43		
opposition	-10394 Oct 24 j 04:19	20°♒34'38	-0°48'05	
min. Earth dist.	-10394 Oct 25 j 11:32	20°♒31'13	17.31000 AU	
direct	-10393 Jan 08 j 11:14	18°♒27'56		
evening set	-10393 Apr 14 j 21:00	21°♒59'05		
max. Earth dist.	-10393 Apr 29 j 22:22	22°♒55'26	19.29138 AU	
conjunction	-10393 May 01 j 10:43	23°♒01'10	-0°40'46	
minimum elong	-10393 May 01 j 10:43	23°♒01'10	0°41'10	
morning rise	-10393 May 17 j 20:21	24°♒02'39		
retrograde	-10393 Aug 17 j 03:30	27°♒24'45		
opposition	-10393 Oct 29 j 05:07	25°♒22'40	-0°42'59	
min. Earth dist.	-10393 Oct 30 j 11:38	25°♒19'20	17.27522 AU	
direct	-10392 Jan 13 j 15:23	23°♒15'49		
evening set	-10392 Apr 19 j 02:35	26°♒47'42		
max. Earth dist.	-10392 May 04 j 04:28	27°♒44'19	19.25887 AU	
conjunction	-10392 May 05 j 15:23	27°♒49'49	-0°36'03	
minimum elong	-10392 May 05 j 15:24	27°♒49'49	0°36'24	
morning rise	-10392 May 21 j 23:39	28°♒51'19		
	-10392 Jun 10 j 09:30	0°♓		
retrograde	-10392 Aug 21 j 04:44	2°♓13'44		
opposition	-10392 Nov 02 j 06:47	0°♓11'39	-0°37'34	
min. Earth dist.	-10392 Nov 03 j 13:36	0°♓08'17	17.24507 AU	
	-10392 Nov 06 j 17:34	30°℞♒		
direct	-10391 Jan 17 j 18:42	28°♒04'42		
	-10391 Mar 27 j 03:20	0°♓		
evening set	-10391 Apr 24 j 08:20	1°♓37'10		
max. Earth dist.	-10391 May 09 j 08:27	2°♓33'41	19.23139 AU	
conjunction	-10391 May 10 j 19:51	2°♓39'17	-0°31'03	
minimum elong	-10391 May 10 j 19:51	2°♓39'17	0°31'23	
morning rise	-10391 May 27 j 03:03	3°♓40'47		
retrograde	-10391 Aug 26 j 06:38	7°♓03'28		
opposition	-10391 Nov 07 j 09:02	5°♓01'21	-0°31'53	
min. Earth dist.	-10391 Nov 08 j 14:53	4°♓58'06	17.22027 AU	
direct	-10390 Jan 22 j 22:50	2°♓54'17		
evening set	-10390 Apr 29 j 13:37	6°♓27'12		
max. Earth dist.	-10390 May 14 j 14:57	7°♓24'02	19.20939 AU	
conjunction	-10390 May 16 j 00:08	7°♓29'18	-0°25'51	
minimum elong	-10390 May 16 j 00:08	7°♓29'18	0°26'07	
morning rise	-10390 Jun 01 j 06:00	8°♓30'45		
retrograde	-10390 Aug 31 j 08:38	11°♓53'39		
opposition	-10390 Nov 12 j 11:51	9°♓51'30	-0°25'57	
min. Earth dist.	-10390 Nov 13 j 17:05	9°♓48'18	17.20107 AU	
direct	-10389 Jan 28 j 03:55	7°♓44'22		
evening set	-10389 May 04 j 18:59	11°♓17'35		
max. Earth dist.	-10389 May 19 j 19:10	12°♓14'22	19.19333 AU	
conjunction	-10389 May 21 j 04:08	12°♓19'37	-0°20'27	
minimum elong	-10389 May 21 j 04:08	12°♓19'37	0°20'42	
morning rise	-10389 Jun 06 j 08:52	13°♓21'00		
retrograde	-10389 Sep 05 j 09:25	16°♓44'03		
opposition	-10389 Nov 17 j 14:59	14°♓41'51	-0°19'51	
min. Earth dist.	-10389 Nov 18 j 19:09	14°♓38'47	17.18821 AU	
direct	-10388 Feb 02 j 08:27	12°♓34'41		
evening set	-10388 May 08 j 23:55	16°♓08'04		

Attention, astronomical year style is used: The year -10388 in astronomical counting style is the year 10389 BCE in historical counting style.

max. Earth dist.	-10388 May 24 j 01:36	17°♓05'11	19.18379 AU
conjunction	-10388 May 25 j 07:56	17°♓10'01	-0°14'56
minimum elong	-10388 May 25 j 07:56	17°♓10'01	0°15'07
behind sun begin	-10388 May 25 j 05:38	17°♓09'39	
behind sun end	-10388 May 25 j 10:13	17°♓10'22	
morning rise	-10388 Jun 10 j 11:19	18°♓11'18	
retrograde	-10388 Sep 09 j 11:30	21°♓34'26	
opposition	-10388 Nov 21 j 18:44	19°♓32'12	-0°13'36
min. Earth dist.	-10388 Nov 22 j 21:14	19°♓29'19	17.18195 AU
direct	-10387 Feb 06 j 15:30	17°♓25'04	
evening set	-10387 May 14 j 04:27	20°♓58'27	
max. Earth dist.	-10387 May 29 j 05:56	21°♓55'38	19.18113 AU
conjunction	-10387 May 30 j 11:01	22°♓00'16	-0°09'18
minimum elong	-10387 May 30 j 11:01	22°♓00'16	0°09'27
behind sun begin	-10387 May 30 j 05:27	21°♓59'24	
behind sun end	-10387 May 30 j 16:35	22°♓01'08	
morning rise	-10387 Jun 15 j 13:11	23°♓01'26	
retrograde	-10387 Sep 14 j 11:22	26°♓24'38	
opposition	-10387 Nov 26 j 22:50	24°♓22'24	-0°07'15
min. Earth dist.	-10387 Nov 28 j 00:01	24°♓19'40	17.18297 AU
direct	-10386 Feb 11 j 20:51	22°♓15'20	
evening set	-10386 May 19 j 08:30	25°♓48'37	
max. Earth dist.	-10386 Jun 03 j 11:30	26°♓46'04	19.18588 AU
conjunction	-10386 Jun 04 j 13:49	26°♓50'16	-0°03'38
minimum elong	-10386 Jun 04 j 13:49	26°♓50'16	0°03'44
behind sun begin	-10386 Jun 04 j 07:13	26°♓49'15	
behind sun end	-10386 Jun 04 j 20:24	26°♓51'18	
morning rise	-10386 Jun 20 j 14:43	27°♓51'17	
	-10386 Jul 29 j 10:02	0°♈	
retrograde	-10386 Sep 19 j 13:10	1°♈14'28	
	-10386 Nov 13 j 05:57	30°♓	
opposition	-10386 Dec 02 j 03:00	29°♓12'16	-0°00'52
min. Earth dist.	-10386 Dec 03 j 01:38	29°♓09'49	17.19129 AU
asc. node	-10385 Jan 19 j 15:17	27°♓26'08	
direct	-10385 Feb 17 j 04:30	27°♓05'21	
	-10385 May 14 j 00:25	0°♈	
evening set	-10385 May 24 j 12:08	0°♈38'23	
conjunction	-10385 Jun 09 j 16:05	1°♈39'52	0°02'13
minimum elong	-10385 Jun 09 j 16:06	1°♈39'52	0°02'11
behind sun begin	-10385 Jun 09 j 09:27	1°♈38'50	
behind sun end	-10385 Jun 09 j 22:45	1°♈40'54	
max. Earth dist.	-10385 Jun 08 j 15:45	1°♈35'59	19.19796 AU
morning rise	-10385 Jun 25 j 15:45	2°♈40'44	
retrograde	-10385 Sep 24 j 12:56	6°♈03'52	
opposition	-10385 Dec 07 j 07:34	4°♈01'43	0°05'32
min. Earth dist.	-10385 Dec 08 j 04:53	3°♈59'25	17.20703 AU
direct	-10384 Feb 22 j 09:20	1°♈55'00	
evening set	-10384 May 28 j 15:08	5°♈27'42	
conjunction	-10384 Jun 13 j 17:44	6°♈28'58	0°07'55
minimum elong	-10384 Jun 13 j 17:44	6°♈28'58	0°07'55
behind sun begin	-10384 Jun 13 j 11:47	6°♈28'02	
behind sun end	-10384 Jun 13 j 23:41	6°♈29'54	
max. Earth dist.	-10384 Jun 12 j 19:58	6°♈25'30	19.21736 AU
morning rise	-10384 Jun 29 j 16:14	7°♈29'39	
retrograde	-10384 Sep 28 j 15:04	10°♈52'41	
opposition	-10384 Dec 11 j 12:13	8°♈50'38	0°11'52
min. Earth dist.	-10384 Dec 12 j 06:24	8°♈48'41	17.22974 AU
direct	-10383 Feb 26 j 16:21	6°♈44'12	
evening set	-10383 Jun 02 j 17:34	10°♈16'24	
conjunction	-10383 Jun 18 j 18:53	11°♈17'27	0°13'32
minimum elong	-10383 Jun 18 j 18:53	11°♈17'27	0°13'36
behind sun begin	-10383 Jun 18 j 15:11	11°♈16'52	
behind sun end	-10383 Jun 18 j 22:35	11°♈18'02	
max. Earth dist.	-10383 Jun 17 j 23:51	11°♈14'25	19.24347 AU
morning rise	-10383 Jul 04 j 16:08	12°♈17'55	
retrograde	-10383 Oct 03 j 15:09	15°♈40'49	
opposition	-10383 Dec 16 j 17:03	13°♈38'54	0°18'07
min. Earth dist.	-10383 Dec 17 j 09:59	13°♈37'05	17.25908 AU
direct	-10382 Mar 03 j 20:33	11°♈32'46	
evening set	-10382 Jun 07 j 19:17	15°♈04'21	
conjunction	-10382 Jun 23 j 19:13	16°♈05'09	0°19'04
minimum elong	-10382 Jun 23 j 19:13	16°♈05'09	0°19'11
max. Earth dist.	-10382 Jun 23 j 02:21	16°♈02'28	19.27588 AU
morning rise	-10382 Jul 09 j 15:28	17°♈05'25	
retrograde	-10382 Oct 08 j 17:05	20°♈28'06	
opposition	-10382 Dec 21 j 21:42	18°♈26'18	0°24'13
min. Earth dist.	-10382 Dec 22 j 11:21	18°♈24'51	17.29419 AU
direct	-10381 Mar 09 j 02:33	16°♈20'31	
evening set	-10381 Jun 12 j 20:20	19°♈51'22	
conjunction	-10381 Jun 28 j 19:03	20°♈51'54	0°24'27
minimum elong	-10381 Jun 28 j 19:03	20°♈51'54	0°24'36
max. Earth dist.	-10381 Jun 28 j 05:18	20°♈49'43	19.31361 AU
morning rise	-10381 Jul 14 j 14:04	21°♈51'55	
retrograde	-10381 Oct 13 j 16:41	25°♈14'21	
opposition	-10381 Dec 27 j 02:23	23°♈12'41	0°30'08
min. Earth dist.	-10381 Dec 27 j 14:50	23°♈11'22	17.33442 AU
direct	-10380 Mar 13 j 06:32	21°♈07'14	
evening set	-10380 Jun 16 j 20:44	24°♈37'15	
conjunction	-10380 Jul 02 j 18:04	25°♈37'30	0°29'38
minimum elong	-10380 Jul 02 j 18:03	25°♈37'30	0°29'51
max. Earth dist.	-10380 Jul 02 j 06:01	25°♈35'35	19.35626 AU
morning rise	-10380 Jul 18 j 12:11	26°♈37'16	
retrograde	-10380 Oct 17 j 17:54	29°♈59'23	
opposition	-10380 Dec 31 j 06:51	27°♈57'49	0°35'49
min. Earth dist.	-10380 Dec 31 j 15:55	27°♈56'51	17.37926 AU
direct	-10379 Mar 18 j 11:45	25°♈52'44	
evening set	-10379 Jun 21 j 20:00	29°♈21'47	
	-10379 Jul 01 j 23:32	0°♉	
conjunction	-10379 Jul 07 j 16:17	0°♉21'43	0°34'36
minimum elong	-10379 Jul 07 j 16:17	0°♉21'43	0°34'50
max. Earth dist.	-10379 Jul 07 j 07:43	0°♉20'22	19.40313 AU
morning rise	-10379 Jul 23 j 09:18	1°♉21'13	
retrograde	-10379 Oct 22 j 16:29	4°♉42'59	
opposition	-10378 Jan 05 j 11:07	2°♉41'30	0°41'12
min. Earth dist.	-10378 Jan 05 j 18:43	2°♉40'42	17.42809 AU
direct	-10378 Mar 23 j 15:37	0°♉36'47	
evening set	-10378 Jun 26 j 18:38	4°♉04'45	
conjunction	-10378 Jul 12 j 13:37	5°♉04'23	0°39'18
minimum elong	-10378 Jul 12 j 13:37	5°♉04'23	0°39'35
max. Earth dist.	-10378 Jul 12 j 06:31	5°♉03'16	19.45389 AU
morning rise	-10378 Jul 28 j 05:56	6°♉03'37	
retrograde	-10378 Oct 27 j 16:12	9°♉24'57	
opposition	-10377 Jan 10 j 14:35	7°♉23'32	0°46'17
min. Earth dist.	-10377 Jan 10 j 18:59	7°♉23'05	17.48064 AU
direct	-10377 Mar 28 j 19:35	5°♉19'10	
evening set	-10377 Jul 01 j 16:06	8°♉46'00	
conjunction	-10377 Jul 17 j 10:11	9°♉45'19	0°43'43
minimum elong	-10377 Jul 17 j 10:11	9°♉45'19	0°44'02
max. Earth dist.	-10377 Jul 17 j 06:42	9°♉44'46	19.50813 AU
morning rise	-10377 Aug 02 j 01:32	10°♉44'15	
retrograde	-10377 Nov 01 j 13:34	14°♉05'06	
opposition	-10376 Jan 15 j 17:50	12°♉03'46	0°51'01

Attention, astronomical year style is used: The year -10376 in astronomical counting style is the year 10377 BCE in historical counting style.

min. Earth dist.	-10376 Jan 15 j 20:25	12°♉03'30	17.53654 AU	
direct	-10376 Apr 01 j 23:03	9°♉59'46		
evening set	-10376 Jul 05 j 12:34	13°♉25'20		
conjunction	-10376 Jul 21 j 05:29	14°♉24'19	0°47'48	
minimum elong	-10376 Jul 21 j 05:28	14°♉24'19	0°48'10	
max. Earth dist.	-10376 Jul 21 j 03:36	14°♉24'01	19.56578 AU	
	-10376 Jul 30 j 16:20	15°♉		
morning rise	-10376 Aug 05 j 20:18	15°♉22'59		
retrograde	-10376 Nov 05 j 11:31	18°♉43'19		
opposition	-10375 Jan 19 j 20:26	16°♉42'01	0°55'23	
min. Earth dist.	-10375 Jan 19 j 19:51	16°♉42'05	17.59594 AU	
	-10375 Mar 08 j 14:58	15°℞♉		
direct	-10375 Apr 07 j 01:44	14°♉38'21		
	-10375 May 05 j 20:52	15°♉		
evening set	-10375 Jul 10 j 07:51	18°♉02'38		
conjunction	-10375 Jul 26 j 00:02	19°♉01'17	0°51'33	
minimum elong	-10375 Jul 26 j 00:01	19°♉01'17	0°51'58	
max. Earth dist.	-10375 Jul 26 j 02:02	19°♉01'36	19.62683 AU	
morning rise	-10375 Aug 10 j 14:05	19°♉59'39		
retrograde	-10375 Nov 10 j 07:09	23°♉19'26		
opposition	-10374 Jan 24 j 22:15	21°♉18'11	0°59'21	
min. Earth dist.	-10374 Jan 24 j 19:23	21°♉18'29	17.65867 AU	
direct	-10374 Apr 12 j 03:59	19°♉14'53		
evening set	-10374 Jul 15 j 02:11	22°♉37'48		
conjunction	-10374 Jul 30 j 17:22	23°♉36'07	0°54'57	
minimum elong	-10374 Jul 30 j 17:22	23°♉36'07	0°55'22	
max. Earth dist.	-10374 Jul 30 j 21:06	23°♉36'42	19.69128 AU	
morning rise	-10374 Aug 15 j 07:05	24°♉34'12		
retrograde	-10374 Nov 15 j 03:19	27°♉53'24		
opposition	-10373 Jan 29 j 23:21	25°♉52'12	1°02'54	
min. Earth dist.	-10373 Jan 29 j 17:33	25°♉52'48	17.72493 AU	
direct	-10373 Apr 17 j 04:06	23°♉49'17		
evening set	-10373 Jul 19 j 19:19	27°♉10'49		
conjunction	-10373 Aug 04 j 09:53	28°♉08'48	0°57'58	
minimum elong	-10373 Aug 04 j 09:52	28°♉08'48	0°58'27	
max. Earth dist.	-10373 Aug 04 j 17:28	28°♉09'59	19.75915 AU	
morning rise	-10373 Aug 19 j 22:58	29°♉06'35		
	-10373 Sep 04 j 01:48	0°♊		
retrograde	-10373 Nov 19 j 21:28	2°♊25'11		
opposition	-10372 Feb 03 j 23:41	0°♊24'05	1°06'03	
min. Earth dist.	-10372 Feb 03 j 15:04	0°♊24'58	17.79443 AU	
	-10372 Feb 13 j 17:26	30°℞♉		
direct	-10372 Apr 21 j 04:12	28°♉21'35		
	-10372 Jun 23 j 00:21	0°♊		
evening set	-10372 Jul 23 j 11:37	1°♊41'42		
conjunction	-10372 Aug 08 j 01:22	2°♊39'21	1°00'37	
minimum elong	-10372 Aug 08 j 01:21	2°♊39'21	1°01'06	
max. Earth dist.	-10372 Aug 08 j 10:49	2°♊40'49	19.83029 AU	
morning rise	-10372 Aug 23 j 14:16	3°♊36'53		
retrograde	-10372 Nov 23 j 16:04	6°♊54'52		
opposition	-10371 Feb 07 j 23:19	4°♊53'52	1°08'46	
min. Earth dist.	-10371 Feb 07 j 12:05	4°♊55'01	17.86724 AU	
direct	-10371 Apr 26 j 01:20	2°♊51'49		
evening set	-10371 Jul 28 j 02:41	6°♊10'31		
conjunction	-10371 Aug 12 j 16:03	7°♊07'51	1°02'53	
minimum elong	-10371 Aug 12 j 16:03	7°♊07'51	1°03'24	
max. Earth dist.	-10371 Aug 13 j 05:07	7°♊09'53	19.90444 AU	
morning rise	-10371 Aug 28 j 04:37	8°♊05'06		
retrograde	-10371 Nov 28 j 09:52	11°♊22'28		
opposition	-10370 Feb 12 j 22:02	9°♊21'38	1°11'02	
min. Earth dist.	-10370 Feb 12 j 07:52	9°♊23'05	17.94252 AU	
direct	-10370 Apr 30 j 23:18	7°♊20'03		
evening set	-10370 Aug 01 j 17:03	10°♊37'20		
conjunction	-10370 Aug 17 j 05:50	11°♊34'21	1°04'45	
minimum elong	-10370 Aug 17 j 05:49	11°♊34'21	1°05'18	
max. Earth dist.	-10370 Aug 17 j 20:39	11°♊36'38	19.98071 AU	
morning rise	-10370 Sep 01 j 18:22	12°♊31'21		
retrograde	-10370 Dec 03 j 02:56	15°♊48'05		
opposition	-10369 Feb 17 j 19:54	13°♊47'24	1°12'52	
min. Earth dist.	-10369 Feb 17 j 03:50	13°♊49'03	18.01974 AU	
direct	-10369 May 05 j 17:37	11°♊46'19		
evening set	-10369 Aug 06 j 06:23	15°♊02'12		
conjunction	-10369 Aug 21 j 18:55	15°♊58'55	1°06'14	
minimum elong	-10369 Aug 21 j 18:55	15°♊58'55	1°06'47	
max. Earth dist.	-10369 Aug 22 j 12:50	16°♊01'40	20.05853 AU	
morning rise	-10369 Sep 06 j 07:18	16°♊55'38		
retrograde	-10369 Dec 07 j 20:30	20°♊11'45		
opposition	-10368 Feb 22 j 17:03	18°♊11'15	1°14'16	
min. Earth dist.	-10368 Feb 21 j 22:08	18°♊13'11	18.09791 AU	
direct	-10368 May 09 j 14:06	16°♊10'39		
evening set	-10368 Aug 09 j 18:54	19°♊25'06		
conjunction	-10368 Aug 25 j 07:02	20°♊21'32	1°07'19	
minimum elong	-10368 Aug 25 j 07:02	20°♊21'32	1°07'53	
max. Earth dist.	-10368 Aug 26 j 02:38	20°♊24'31	20.13683 AU	
morning rise	-10368 Sep 09 j 19:36	21°♊18'01		
retrograde	-10368 Dec 11 j 12:14	24°♊33'31		
opposition	-10367 Feb 26 j 13:30	22°♊33'09	1°15'13	
min. Earth dist.	-10367 Feb 25 j 17:20	22°♊35'13	18.17634 AU	
direct	-10367 May 14 j 06:40	20°♊33'02		
evening set	-10367 Aug 14 j 06:37	23°♊46'05		
conjunction	-10367 Aug 29 j 18:42	24°♊42'14	1°08'00	
minimum elong	-10367 Aug 29 j 18:42	24°♊42'14	1°08'34	
max. Earth dist.	-10367 Aug 30 j 16:45	24°♊45'35	20.21497 AU	
morning rise	-10367 Sep 14 j 07:19	25°♊38'28		
retrograde	-10367 Dec 16 j 04:51	28°♊53'18		
min. Earth dist.	-10366 Mar 02 j 10:02	26°♊55'25	18.25402 AU	
opposition	-10366 Mar 03 j 08:45	26°♊53'06	1°15'43	
direct	-10366 May 19 j 01:37	24°♊53'26		
evening set	-10366 Aug 18 j 17:40	28°♊05'06		
conjunction	-10366 Sep 03 j 05:34	29°♊00'59	1°08'17	
minimum elong	-10366 Sep 03 j 05:35	29°♊00'59	1°08'52	
max. Earth dist.	-10366 Sep 04 j 04:54	29°♊04'31	20.29191 AU	
morning rise	-10366 Sep 18 j 18:30	29°♊57'00		
	-10366 Sep 19 j 14:50	0°♋		
retrograde	-10366 Dec 20 j 19:06	3°♋11'11		
min. Earth dist.	-10365 Mar 07 j 04:02	1°♋13'29	18.33029 AU	
opposition	-10365 Mar 08 j 03:25	1°♋11'07	1°15'47	
	-10365 Apr 08 j 10:40	30°℞♊		
direct	-10365 May 23 j 16:39	29°♊11'51		
	-10365 Jul 06 j 05:23	0°♋		
evening set	-10365 Aug 23 j 03:43	2°♋22'09		
conjunction	-10365 Sep 07 j 15:44	3°♋17'46	1°08'11	
minimum elong	-10365 Sep 07 j 15:44	3°♋17'46	1°08'46	
max. Earth dist.	-10365 Sep 08 j 16:57	3°♋21'34	20.36717 AU	
morning rise	-10365 Sep 23 j 04:54	4°♋13'34		
retrograde	-10365 Dec 25 j 09:57	7°♋27'06		
opposition	-10364 Mar 11 j 21:06	5°♋27'07	1°15'26	
min. Earth dist.	-10364 Mar 10 j 19:15	5°♋29'44	18.40442 AU	
direct	-10364 May 27 j 10:15	3°♋28'14		
evening set	-10364 Aug 26 j 13:11	6°♋37'12		
conjunction	-10364 Sep 11 j 01:15	7°♋32'34	1°07'43	

Attention, astronomical year style is used: The year -10364 in astronomical counting style is the year 10365 BCE in historical counting style.

minimum elong	-10364 Sep 11 j 01:15	7°♋32'35	1°08'18
max. Earth dist.	-10364 Sep 12 j 03:38	7°♋36'32	20.44006 AU
morning rise	-10364 Sep 26 j 14:55	8°♋28'11	
retrograde	-10364 Dec 28 j 22:49	11°♋41'03	
min. Earth dist.	-10363 Mar 15 j 11:49	9°♋43'47	18.47619 AU
opposition	-10363 Mar 16 j 13:56	9°♋41'08	1°14'40
direct	-10363 May 31 j 23:39	7°♋42'35	
evening set	-10363 Aug 30 j 21:44	10°♋50'13	
conjunction	-10363 Sep 15 j 10:08	11°♋45'23	1°06'52
minimum elong	-10363 Sep 15 j 10:08	11°♋45'23	1°07'28
max. Earth dist.	-10363 Sep 16 j 13:58	11°♋49'32	20.51053 AU
morning rise	-10363 Oct 01 j 00:16	12°♋40'48	
retrograde	-10362 Jan 02 j 11:55	15°♋53'00	
min. Earth dist.	-10362 Mar 20 j 01:19	13°♋56'00	18.54527 AU
opposition	-10362 Mar 21 j 05:39	13°♋53'08	1°13'31
direct	-10362 Jun 05 j 15:03	11°♋54'53	
evening set	-10362 Sep 04 j 05:37	15°♋01'15	
conjunction	-10362 Sep 19 j 18:14	15°♋56'12	1°05'41
minimum elong	-10362 Sep 19 j 18:14	15°♋56'12	1°06'15
max. Earth dist.	-10362 Sep 20 j 23:13	16°♋00'30	20.57822 AU
morning rise	-10362 Oct 05 j 08:59	16°♋51'26	
retrograde	-10361 Jan 06 j 22:57	20°♋03'00	
opposition	-10361 Mar 25 j 20:30	18°♋03'09	1°11'59
min. Earth dist.	-10361 Mar 24 j 16:06	18°♋06'01	18.61182 AU
direct	-10361 Jun 10 j 02:54	16°♋05'11	
evening set	-10361 Sep 08 j 12:44	19°♋10'19	
conjunction	-10361 Sep 24 j 01:47	20°♋05'04	1°04'10
minimum elong	-10361 Sep 24 j 01:47	20°♋05'04	1°04'45
max. Earth dist.	-10361 Sep 25 j 08:06	20°♋09'33	20.64363 AU
morning rise	-10361 Oct 09 j 17:08	21°♋00'09	
retrograde	-10360 Jan 11 j 10:49	24°♋11'05	
min. Earth dist.	-10360 Mar 28 j 03:45	22°♋14'21	18.67609 AU
opposition	-10360 Mar 29 j 10:21	22°♋11'16	1°10'06
direct	-10360 Jun 13 j 15:42	20°♋13'34	
evening set	-10360 Sep 11 j 19:12	23°♋17'32	
conjunction	-10360 Sep 27 j 08:39	24°♋12'07	1°02'20
minimum elong	-10360 Sep 27 j 08:39	24°♋12'07	1°02'52
max. Earth dist.	-10360 Sep 28 j 16:12	24°♋16'46	20.70671 AU
morning rise	-10360 Oct 13 j 00:46	25°♋07'04	
retrograde	-10359 Jan 14 j 20:29	28°♋17'24	
opposition	-10359 Apr 02 j 23:28	26°♋17'38	1°07'52
min. Earth dist.	-10359 Apr 01 j 16:54	26°♋20'42	18.73818 AU
direct	-10359 Jun 18 j 01:55	24°♋20'12	
evening set	-10359 Sep 16 j 01:10	27°♋23'05	
conjunction	-10359 Oct 01 j 15:14	28°♋17'30	1°00'11
minimum elong	-10359 Oct 01 j 15:14	28°♋17'30	1°00'44
max. Earth dist.	-10359 Oct 02 j 23:46	28°♋22'17	20.76775 AU
morning rise	-10359 Oct 17 j 08:05	29°♋12'19	
	-10359 Oct 31 j 16:27	0°♌	
retrograde	-10358 Jan 19 j 07:34	2°♌22'06	
min. Earth dist.	-10358 Apr 06 j 02:54	0°♌25'39	18.79808 AU
opposition	-10358 Apr 07 j 11:22	0°♌22'24	1°05'19
	-10358 Apr 16 j 20:14	30℞♋	
direct	-10358 Jun 22 j 12:23	28°♋25'14	
	-10358 Aug 23 j 18:09	0°♌	
evening set	-10358 Sep 20 j 06:41	1°♌27'07	
conjunction	-10358 Oct 05 j 21:17	2°♌21'24	0°57'46
minimum elong	-10358 Oct 05 j 21:17	2°♌21'25	0°58'17
max. Earth dist.	-10358 Oct 07 j 06:49	2°♌26'18	20.82639 AU
morning rise	-10358 Oct 21 j 14:59	3°♌16'07	
retrograde	-10357 Jan 23 j 16:02	6°♌25'24	

opposition	-10357 Apr 11 j 22:48	4°♌25'47	1°02'27
min. Earth dist.	-10357 Apr 10 j 14:38	4°♌29'00	18.85553 AU
direct	-10357 Jun 26 j 20:40	2°♌28'54	
evening set	-10357 Sep 24 j 11:33	5°♌29'51	
conjunction	-10357 Oct 10 j 02:52	6°♌24'01	0°55'04
minimum elong	-10357 Oct 10 j 02:53	6°♌24'01	0°55'34
max. Earth dist.	-10357 Oct 11 j 13:06	6°♌29'00	20.88256 AU
morning rise	-10357 Oct 25 j 21:26	7°♌18'38	
retrograde	-10356 Jan 28 j 02:44	10°♌27'28	
min. Earth dist.	-10356 Apr 13 j 23:41	8°♌31'18	18.91018 AU
opposition	-10356 Apr 15 j 09:24	8°♌27'56	0°59'17
direct	-10356 Jun 30 j 05:37	6°♌31'20	
evening set	-10356 Sep 27 j 16:20	9°♌31'27	
conjunction	-10356 Oct 13 j 08:21	10°♌25'31	0°52'06
minimum elong	-10356 Oct 13 j 08:22	10°♌25'31	0°52'36
max. Earth dist.	-10356 Oct 14 j 19:17	10°♌30'35	20.93554 AU
morning rise	-10356 Oct 29 j 03:53	11°♌20'04	
retrograde	-10355 Jan 31 j 10:09	14°♌28'27	
min. Earth dist.	-10355 Apr 18 j 10:26	12°♌32'20	18.96144 AU
opposition	-10355 Apr 19 j 19:19	12°♌29'03	0°55'51
direct	-10355 Jul 04 j 12:12	10°♌32'43	
evening set	-10355 Oct 01 j 20:47	13°♌32'03	
conjunction	-10355 Oct 17 j 13:39	14°♌26'02	0°48'53
minimum elong	-10355 Oct 17 j 13:40	14°♌26'02	0°49'21
max. Earth dist.	-10355 Oct 19 j 00:41	14°♌31'06	20.98497 AU
	-10355 Oct 27 j 09:29	15°♌	
morning rise	-10355 Nov 02 j 10:09	15°♌20'32	
retrograde	-10354 Feb 04 j 20:24	18°♌28'31	
min. Earth dist.	-10354 Apr 22 j 18:43	16°♌32'36	19.00874 AU
opposition	-10354 Apr 24 j 04:31	16°♌29'13	0°52'09
	-10354 Jun 05 j 13:05	15℞♌	
direct	-10354 Jul 08 j 19:42	14°♌33'08	
	-10354 Aug 10 j 04:09	15°♌	
evening set	-10354 Oct 06 j 01:05	17°♌31'46	
conjunction	-10354 Oct 21 j 18:43	18°♌25'42	0°45'27
minimum elong	-10354 Oct 21 j 18:43	18°♌25'42	0°45'53
max. Earth dist.	-10354 Oct 23 j 05:58	18°♌30'46	21.02993 AU
morning rise	-10354 Nov 06 j 16:12	19°♌20'09	
retrograde	-10353 Feb 09 j 02:56	22°♌27'47	
min. Earth dist.	-10353 Apr 27 j 04:43	20°♌31'50	19.05133 AU
opposition	-10353 Apr 28 j 13:16	20°♌28'35	0°48'13
direct	-10353 Jul 13 j 01:18	18°♌32'42	
evening set	-10353 Oct 10 j 05:15	21°♌30'43	
conjunction	-10353 Oct 25 j 23:49	22°♌24'35	0°41'48
minimum elong	-10353 Oct 25 j 23:49	22°♌24'36	0°42'11
max. Earth dist.	-10353 Oct 27 j 10:36	22°♌29'35	21.07011 AU
morning rise	-10353 Nov 10 j 22:19	23°♌19'01	
retrograde	-10352 Feb 13 j 12:30	26°♌26'20	
opposition	-10352 May 01 j 21:21	24°♌27'11	0°44'03
min. Earth dist.	-10352 Apr 30 j 12:23	24°♌30'28	19.08881 AU
direct	-10352 Jul 16 j 07:36	22°♌31'27	
evening set	-10352 Oct 13 j 09:23	25°♌28'55	
conjunction	-10352 Oct 29 j 04:51	26°♌22'46	0°37'57
minimum elong	-10352 Oct 29 j 04:51	26°♌22'46	0°38'20
max. Earth dist.	-10352 Oct 30 j 15:20	26°♌27'42	21.10468 AU
morning rise	-10352 Nov 14 j 04:27	27°♌17'11	
	-10351 Jan 15 j 23:16	0°♍	
retrograde	-10351 Feb 16 j 18:56	0°♍24'11	
	-10351 Mar 21 j 06:17	30℞♌	
min. Earth dist.	-10351 May 04 j 21:44	28°♌28'12	19.12043 AU
opposition	-10351 May 06 j 05:03	28°♌25'05	0°39'42

Attention, astronomical year style is used: The year -10351 in astronomical counting style is the year 10352 BCE in historical counting style.

direct	-10351 Jul 20 j 12:31	26°♌29'28	
evening set	-10351 Oct 17 j 13:28	29°♌26'25	
	-10351 Oct 27 j 11:53	0°♍	
conjunction	-10351 Nov 02 j 09:57	0°♍20'16	0°33'56
minimum elong	-10351 Nov 02 j 09:57	0°♍20'16	0°34'16
max. Earth dist.	-10351 Nov 03 j 19:23	0°♍25'02	21.13340 AU
morning rise	-10351 Nov 18 j 10:36	1°♍14'41	
retrograde	-10350 Feb 21 j 03:30	4°♍21'24	
min. Earth dist.	-10350 May 09 j 04:39	2°♍25'25	19.14604 AU
opposition	-10350 May 10 j 11:58	2°♍22'17	0°35'10
direct	-10350 Jul 24 j 18:03	0°♍26'43	
evening set	-10350 Oct 21 j 17:28	3°♍23'15	
conjunction	-10350 Nov 06 j 14:55	4°♍17'06	0°29'47
minimum elong	-10350 Nov 06 j 14:55	4°♍17'06	0°30'05
max. Earth dist.	-10350 Nov 07 j 23:44	4°♍21'46	21.15596 AU
morning rise	-10350 Nov 22 j 16:40	5°♍11'32	
retrograde	-10349 Feb 25 j 09:35	8°♍17'59	
opposition	-10349 May 14 j 18:37	6°♍18'50	0°30'29
min. Earth dist.	-10349 May 13 j 13:04	6°♍21'48	19.16560 AU
direct	-10349 Jul 28 j 22:06	4°♍23'17	
evening set	-10349 Oct 25 j 21:14	7°♍19'25	
conjunction	-10349 Nov 10 j 19:46	8°♍13'18	0°25'30
minimum elong	-10349 Nov 10 j 19:47	8°♍13'18	0°25'46
max. Earth dist.	-10349 Nov 12 j 03:30	8°♍17'48	21.17280 AU
morning rise	-10349 Nov 26 j 22:40	9°♍07'46	
retrograde	-10348 Feb 29 j 17:41	12°♍14'00	
min. Earth dist.	-10348 May 16 j 19:17	10°♍17'43	19.17959 AU
opposition	-10348 May 18 j 00:42	10°♍14'46	0°25'41
direct	-10348 Aug 01 j 03:15	8°♍19'11	
evening set	-10348 Oct 29 j 01:15	11°♍15'01	
conjunction	-10348 Nov 14 j 00:49	12°♍08'56	0°21'06
minimum elong	-10348 Nov 14 j 00:49	12°♍08'56	0°21'20
max. Earth dist.	-10348 Nov 15 j 07:54	12°♍13'20	21.18407 AU
morning rise	-10348 Nov 30 j 04:48	13°♍03'28	
retrograde	-10347 Mar 04 j 23:13	16°♍09'28	
min. Earth dist.	-10347 May 21 j 02:42	14°♍12'57	19.18831 AU
opposition	-10347 May 22 j 06:15	14°♍10'10	0°20'47
direct	-10347 Aug 05 j 06:15	12°♍14'32	
evening set	-10347 Nov 02 j 05:16	15°♍10'09	
conjunction	-10347 Nov 18 j 05:57	16°♍04'08	0°16'38
minimum elong	-10347 Nov 18 j 05:56	16°♍04'08	0°16'50
max. Earth dist.	-10347 Nov 19 j 11:47	16°♍08'21	21.19050 AU
morning rise	-10347 Dec 04 j 11:02	16°♍58'43	
retrograde	-10346 Mar 09 j 07:12	20°♍04'35	
min. Earth dist.	-10346 May 25 j 08:08	18°♍07'57	19.19237 AU
opposition	-10346 May 26 j 11:27	18°♍05'12	0°15'47
direct	-10346 Aug 09 j 10:51	16°♍09'28	
evening set	-10346 Nov 06 j 09:21	19°♍04'59	
conjunction	-10346 Nov 22 j 11:02	19°♍59'02	0°12'06
minimum elong	-10346 Nov 22 j 11:02	19°♍59'02	0°12'15
behind sun begin	-10346 Nov 22 j 06:37	19°♍58'26	
behind sun end	-10346 Nov 22 j 15:27	19°♍59'39	
max. Earth dist.	-10346 Nov 23 j 16:13	20°♍03'09	21.19224 AU
morning rise	-10346 Dec 08 j 17:11	20°♍53'42	
retrograde	-10345 Mar 13 j 12:46	23°♍59'29	
opposition	-10345 May 30 j 16:27	22°♍00'02	0°10'44
min. Earth dist.	-10345 May 29 j 14:56	22°♍02'36	19.19195 AU
direct	-10345 Aug 13 j 13:17	20°♍04'14	
evening set	-10345 Nov 10 j 13:41	22°♍59'42	
conjunction	-10345 Nov 26 j 16:29	23°♍53'51	0°07'31
minimum elong	-10345 Nov 26 j 16:29	23°♍53'51	0°07'39
behind sun begin	-10345 Nov 26 j 10:28	23°♍53'02	
behind sun end	-10345 Nov 26 j 22:30	23°♍54'41	
max. Earth dist.	-10345 Nov 27 j 20:18	23°♍57'47	21.18986 AU
morning rise	-10345 Dec 12 j 23:45	24°♍48'37	
retrograde	-10344 Mar 16 j 20:44	27°♍54'22	
opposition	-10344 Jun 02 j 21:03	25°♍54'51	0°05'37
min. Earth dist.	-10344 Jun 01 j 19:59	25°♍57'23	19.18743 AU
direct	-10344 Aug 16 j 17:18	23°♍58'58	
evening set	-10344 Nov 13 j 18:23	26°♍54'31	
conjunction	-10344 Nov 29 j 22:16	27°♍48'47	0°02'53
minimum elong	-10344 Nov 29 j 22:17	27°♍48'47	0°02'58
behind sun begin	-10344 Nov 29 j 15:39	27°♍47'53	
behind sun end	-10344 Nov 30 j 04:55	27°♍49'42	
max. Earth dist.	-10344 Dec 01 j 01:08	27°♍52'34	21.18318 AU
morning rise	-10344 Dec 16 j 06:36	28°♍43'40	
	-10343 Jan 09 j 21:27	0°♎	
retrograde	-10343 Mar 21 j 02:58	1°♎49'25	
	-10343 Jun 02 j 21:33	30°℞♍	
min. Earth dist.	-10343 Jun 06 j 02:38	29°♍52'13	19.17856 AU
opposition	-10343 Jun 07 j 01:39	29°♍49'53	0°00'29
desc. node	-10343 Jul 10 j 01:52	28°♍35'53	
direct	-10343 Aug 20 j 19:48	27°♍53'55	
	-10343 Nov 02 j 09:09	0°♎	
evening set	-10343 Nov 17 j 23:24	0°♎49'38	
conjunction	-10343 Dec 04 j 04:25	1°♎44'02	-0°01'54
minimum elong	-10343 Dec 04 j 04:24	1°♎44'01	0°01'52
behind sun begin	-10343 Dec 03 j 21:44	1°♎43'07	
behind sun end	-10343 Dec 04 j 11:04	1°♎44'56	
max. Earth dist.	-10343 Dec 05 j 05:30	1°♎47'34	21.17228 AU
morning rise	-10343 Dec 20 j 13:45	2°♎39'02	
retrograde	-10342 Mar 25 j 11:04	5°♎44'52	
min. Earth dist.	-10342 Jun 10 j 07:42	3°♎47'34	19.16539 AU
opposition	-10342 Jun 11 j 05:58	3°♎45'18	-0°04'41
direct	-10342 Aug 24 j 23:16	1°♎49'15	
evening set	-10342 Nov 22 j 04:54	4°♎45'14	
conjunction	-10342 Dec 08 j 10:57	5°♎39'46	-0°06'35
minimum elong	-10342 Dec 08 j 10:57	5°♎39'46	0°06'34
behind sun begin	-10342 Dec 08 j 04:41	5°♎38'55	
behind sun end	-10342 Dec 08 j 17:12	5°♎40'38	
max. Earth dist.	-10342 Dec 09 j 10:48	5°♎43'07	21.15681 AU
morning rise	-10342 Dec 24 j 21:17	6°♎34'55	
retrograde	-10341 Mar 29 j 17:48	9°♎40'53	
opposition	-10341 Jun 15 j 10:25	7°♎41'19	-0°09'50
min. Earth dist.	-10341 Jun 14 j 14:28	7°♎43'20	19.14757 AU
direct	-10341 Aug 29 j 02:02	5°♎45'10	
evening set	-10341 Nov 26 j 10:49	8°♎41'28	
conjunction	-10341 Dec 12 j 17:58	9°♎36'11	-0°11'12
minimum elong	-10341 Dec 12 j 17:58	9°♎36'11	0°11'15
behind sun begin	-10341 Dec 12 j 13:05	9°♎35'31	
behind sun end	-10341 Dec 12 j 22:51	9°♎36'51	
max. Earth dist.	-10341 Dec 13 j 15:40	9°♎39'14	21.13671 AU
morning rise	-10341 Dec 29 j 05:21	10°♎31'29	
retrograde	-10340 Apr 02 j 02:45	13°♎37'38	
opposition	-10340 Jun 18 j 14:50	11°♎38'03	-0°14'57
min. Earth dist.	-10340 Jun 17 j 20:03	11°♎39'57	19.12487 AU
direct	-10340 Sep 01 j 05:37	9°♎41'45	
evening set	-10340 Nov 29 j 17:34	12°♎38'31	
conjunction	-10340 Dec 16 j 01:45	13°♎33'24	-0°15'48
minimum elong	-10340 Dec 16 j 01:45	13°♎33'24	0°15'52
max. Earth dist.	-10340 Dec 16 j 21:40	13°♎36'12	21.11131 AU
morning rise	-10339 Jan 01 j 14:01	14°♎28'52	

Attention, astronomical year style is used: The year -10339 in astronomical counting style is the year 10340 BCE in historical counting style.

retrograde	-10339 Apr 06 j 09:48	17°♎35'14		
opposition	-10339 Jun 22 j 19:17	15°♎35'37	-0°20'01	
min. Earth dist.	-10339 Jun 22 j 03:11	15°♎37'16	19.09672 AU	
direct	-10339 Sep 05 j 08:49	13°♎39'10		
evening set	-10339 Dec 04 j 00:54	16°♎36'26		
conjunction	-10339 Dec 20 j 10:07	17°♎31'31	-0°20'21	
minimum elong	-10339 Dec 20 j 10:06	17°♎31'31	0°20'28	
max. Earth dist.	-10339 Dec 21 j 03:17	17°♎33'56	21.08049 AU	
morning rise	-10338 Jan 05 j 23:18	18°♎27'09		
retrograde	-10338 Apr 10 j 19:44	21°♎33'47		
opposition	-10338 Jun 26 j 23:56	19°♎34'06	-0°25'00	
min. Earth dist.	-10338 Jun 26 j 09:20	19°♎35'35	19.06303 AU	
direct	-10338 Sep 09 j 13:18	17°♎37'25		
evening set	-10338 Dec 08 j 08:40	20°♎35'17		
conjunction	-10338 Dec 24 j 18:54	21°♎30'34	-0°24'48	
minimum elong	-10338 Dec 24 j 18:54	21°♎30'34	0°24'57	
max. Earth dist.	-10338 Dec 25 j 10:04	21°♎32'42	21.04386 AU	
morning rise	-10337 Jan 10 j 08:53	22°♎26'24		
retrograde	-10337 Apr 15 j 03:10	25°♎33'17		
opposition	-10337 Jul 01 j 04:50	23°♎33'31	-0°29'53	
min. Earth dist.	-10337 Jun 30 j 16:59	23°♎34'44	19.02352 AU	
direct	-10337 Sep 13 j 16:48	21°♎36'36		
evening set	-10337 Dec 12 j 17:14	24°♎35'05		
conjunction	-10337 Dec 29 j 04:27	25°♎30'35	-0°29'09	
minimum elong	-10337 Dec 29 j 04:27	25°♎30'35	0°29'21	
max. Earth dist.	-10337 Dec 29 j 16:37	25°♎32'18	21.00173 AU	
morning rise	-10336 Jan 14 j 19:20	26°♎26'37		
retrograde	-10336 Apr 18 j 13:39	29°♎33'48		
opposition	-10336 Jul 04 j 09:43	27°♎33'54	-0°34'38	
min. Earth dist.	-10336 Jul 03 j 23:34	27°♎34'57	18.97867 AU	
direct	-10336 Sep 16 j 22:38	25°♎36'39		
evening set	-10336 Dec 16 j 02:28	28°♎35'51		
conjunction	-10335 Jan 01 j 14:41	29°♎31'35	-0°33'22	
minimum elong	-10335 Jan 01 j 14:41	29°♎31'35	0°33'37	
max. Earth dist.	-10335 Jan 02 j 00:47	29°♎33'01	20.95426 AU	
	-10335 Jan 09 j 23:16	0°♏		
morning rise	-10335 Jan 18 j 06:15	0°♏27'50		
retrograde	-10335 Apr 22 j 21:31	3°♏35'19		
opposition	-10335 Jul 08 j 14:56	1°♏35'17	-0°39'14	
min. Earth dist.	-10335 Jul 08 j 07:32	1°♏36'03	18.92877 AU	
	-10335 Aug 22 j 10:21	30°℞♎		
direct	-10335 Sep 21 j 02:37	29°♎37'41		
	-10335 Oct 20 j 14:39	0°♏		
evening set	-10335 Dec 20 j 12:16	2°♏37'39		
conjunction	-10334 Jan 06 j 01:21	3°♏33'37	-0°37'27	
minimum elong	-10334 Jan 06 j 01:20	3°♏33'37	0°37'43	
max. Earth dist.	-10334 Jan 06 j 08:28	3°♏34'38	20.90227 AU	
morning rise	-10334 Jan 22 j 17:41	4°♏30'05		
retrograde	-10334 Apr 27 j 08:13	7°♏37'56		
opposition	-10334 Jul 12 j 20:16	5°♏37'43	-0°43'39	
min. Earth dist.	-10334 Jul 12 j 14:31	5°♏38'19	18.87476 AU	
direct	-10334 Sep 25 j 09:35	3°♏39'45		
evening set	-10334 Dec 24 j 22:46	6°♏40'33		
conjunction	-10333 Jan 10 j 12:46	7°♏36'48	-0°41'21	
minimum elong	-10333 Jan 10 j 12:45	7°♏36'47	0°41'40	
max. Earth dist.	-10333 Jan 10 j 18:06	7°♏37'33	20.84633 AU	
morning rise	-10333 Jan 27 j 05:38	8°♏33'28		
retrograde	-10333 May 01 j 16:47	11°♏41'43		
opposition	-10333 Jul 17 j 01:57	9°♏41'20	-0°47'52	
min. Earth dist.	-10333 Jul 16 j 22:44	9°♏41'40	18.81718 AU	
direct	-10333 Sep 29 j 14:43	7°♏42'58		
evening set	-10333 Dec 29 j 10:01	10°♏44'42		
conjunction	-10332 Jan 15 j 00:49	11°♏41'12	-0°45'03	
minimum elong	-10332 Jan 15 j 00:49	11°♏41'12	0°45'24	
max. Earth dist.	-10332 Jan 15 j 03:08	11°♏41'31	20.78733 AU	
morning rise	-10332 Jan 31 j 18:25	12°♏38'06		
	-10332 Mar 22 j 04:31	15°♏		
retrograde	-10332 May 05 j 03:59	15°♏46'47		
	-10332 Jun 18 j 13:57	15°℞♏		
opposition	-10332 Jul 20 j 08:01	13°♏46'15	-0°51'53	
min. Earth dist.	-10332 Jul 20 j 06:25	13°♏46'25	18.75679 AU	
direct	-10332 Oct 02 j 22:08	11°♏47'29		
evening set	-10331 Jan 01 j 22:08	14°♏50'13		
	-10331 Jan 04 j 19:54	15°♏		
conjunction	-10331 Jan 18 j 13:47	15°♏47'00	-0°48'34	
minimum elong	-10331 Jan 18 j 13:46	15°♏47'00	0°48'57	
max. Earth dist.	-10331 Jan 18 j 14:23	15°♏47'05	20.72554 AU	
morning rise	-10331 Feb 04 j 07:44	16°♏44'08		
retrograde	-10331 May 09 j 14:01	19°♏53'16		
opposition	-10331 Jul 24 j 14:30	17°♏52'37	-0°55'40	
min. Earth dist.	-10331 Jul 24 j 15:16	17°♏52'32	18.69388 AU	
direct	-10331 Oct 07 j 05:03	15°♏53'27		
evening set	-10330 Jan 06 j 11:06	18°♏57'17		
conjunction	-10330 Jan 23 j 03:23	19°♏54'20	-0°51'51	
minimum elong	-10330 Jan 23 j 03:22	19°♏54'19	0°52'14	
max. Earth dist.	-10330 Jan 23 j 00:49	19°♏53'57	20.66168 AU	
morning rise	-10330 Feb 08 j 21:54	20°♏51'43		
retrograde	-10330 May 14 j 01:40	24°♏01'22		
opposition	-10330 Jul 28 j 21:32	22°♏00'35	-0°59'11	
min. Earth dist.	-10330 Jul 28 j 23:55	22°♏00'20	18.62912 AU	
direct	-10330 Oct 11 j 12:55	20°♏01'03		
evening set	-10329 Jan 11 j 00:44	23°♏06'01		
conjunction	-10329 Jan 27 j 17:48	24°♏03'22	-0°54'53	
minimum elong	-10329 Jan 27 j 17:47	24°♏03'22	0°55'19	
max. Earth dist.	-10329 Jan 27 j 13:42	24°♏02'46	20.59592 AU	
morning rise	-10329 Feb 13 j 12:34	25°♏01'00		
retrograde	-10329 May 18 j 13:34	28°♏11'12		
opposition	-10329 Aug 02 j 05:12	26°♏10'20	-1°02'25	
min. Earth dist.	-10329 Aug 02 j 09:51	26°♏09'51	18.56249 AU	
direct	-10329 Oct 15 j 21:33	24°♏10'26		
evening set	-10328 Jan 15 j 15:37	27°♏16'37		
conjunction	-10328 Feb 01 j 09:12	28°♏14'15	-0°57'39	
minimum elong	-10328 Feb 01 j 09:11	28°♏14'15	0°58'07	
max. Earth dist.	-10328 Feb 01 j 01:42	28°♏13'10	20.52854 AU	
morning rise	-10328 Feb 18 j 04:26	29°♏12'09		
	-10328 Mar 03 j 17:56	0°♐		
retrograde	-10328 May 22 j 02:16	2°♐22'57		
opposition	-10328 Aug 05 j 13:20	0°♐22'00	-1°05'21	
min. Earth dist.	-10328 Aug 05 j 19:55	0°♐21'19	18.49431 AU	
	-10328 Aug 14 j 06:41	30°℞♏		
direct	-10328 Oct 19 j 06:51	28°♏21'43		
	-10328 Dec 22 j 00:04	0°♐		
evening set	-10327 Jan 19 j 07:29	1°♐29'13		
conjunction	-10327 Feb 05 j 01:43	2°♐27'09	-1°00'08	
minimum elong	-10327 Feb 05 j 01:43	2°♐27'09	1°00'37	
max. Earth dist.	-10327 Feb 04 j 16:37	2°♐25'50	20.45939 AU	
morning rise	-10327 Feb 21 j 21:00	3°♐25'18		
retrograde	-10327 May 26 j 15:49	6°♐36'43		
opposition	-10327 Aug 09 j 22:21	4°♐35'43	-1°07'58	
min. Earth dist.	-10327 Aug 10 j 07:14	4°♐34'46	18.42429 AU	
direct	-10327 Oct 23 j 16:55	2°♐35'04		
evening set	-10326 Jan 24 j 00:20	5°♐43'53		

Attention, astronomical year style is used: The year -10326 in astronomical counting style is the year 10327 BCE in historical counting style.

conjunction	-10326 Feb 09 j 18:52	6°♐42'08	-1°02'18
minimum elong	-10326 Feb 09 j 18:52	6°♐42'08	1°02'50
max. Earth dist.	-10326 Feb 09 j 06:08	6°♐40'16	20.38850 AU
morning rise	-10326 Feb 26 j 14:26	7°♐40'32	
retrograde	-10326 May 31 j 06:12	10°♐52'37	
opposition	-10326 Aug 14 j 08:05	8°♐51'32	-1°10'13
min. Earth dist.	-10326 Aug 14 j 19:07	8°♐50'22	18.35255 AU
direct	-10326 Oct 28 j 04:06	6°♐50'29	
evening set	-10325 Jan 28 j 18:12	10°♐00'42	
conjunction	-10325 Feb 14 j 13:17	10°♐59'15	-1°04'09
minimum elong	-10325 Feb 14 j 13:17	10°♐59'15	1°04'40
max. Earth dist.	-10325 Feb 13 j 22:55	10°♐57'09	20.31567 AU
morning rise	-10325 Mar 03 j 08:44	11°♐57'55	
retrograde	-10325 Jun 04 j 21:15	15°♐10'38	
opposition	-10325 Aug 18 j 18:32	13°♐09'30	-1°12'06
min. Earth dist.	-10325 Aug 19 j 07:50	13°♐08'05	18.27878 AU
direct	-10325 Nov 01 j 15:54	11°♐08'02	
evening set	-10324 Feb 02 j 13:16	14°♐19'40	
conjunction	-10324 Feb 19 j 08:33	15°♐18'31	-1°05'38
minimum elong	-10324 Feb 19 j 08:32	15°♐18'31	1°06'11
max. Earth dist.	-10324 Feb 18 j 14:14	15°♐15'49	20.24097 AU
morning rise	-10324 Mar 07 j 04:09	16°♐17'26	
retrograde	-10324 Jun 08 j 13:07	19°♐30'49	
opposition	-10324 Aug 22 j 05:56	17°♐29'34	-1°13'35
min. Earth dist.	-10324 Aug 22 j 21:35	17°♐27'54	18.20326 AU
direct	-10324 Nov 05 j 05:09	15°♐27'38	
evening set	-10323 Feb 06 j 09:09	18°♐40'43	
max. Earth dist.	-10323 Feb 22 j 09:00	19°♐36'57	20.16452 AU
conjunction	-10323 Feb 23 j 04:50	19°♐39'53	-1°06'46
minimum elong	-10323 Feb 23 j 04:50	19°♐39'53	1°07'19
morning rise	-10323 Mar 12 j 00:08	20°♐39'03	
retrograde	-10323 Jun 13 j 05:40	23°♐53'04	
opposition	-10323 Aug 26 j 18:04	21°♐51'43	-1°14'39
min. Earth dist.	-10323 Aug 27 j 11:39	21°♐49'50	18.12615 AU
direct	-10323 Nov 09 j 19:14	19°♐49'20	
evening set	-10322 Feb 11 j 06:05	23°♐03'50	
max. Earth dist.	-10322 Feb 27 j 02:16	23°♐59'48	20.08700 AU
conjunction	-10322 Feb 28 j 01:45	24°♐03'17	-1°07'30
minimum elong	-10322 Feb 28 j 01:45	24°♐03'17	1°08'05
morning rise	-10322 Mar 16 j 21:02	25°♐02'43	
retrograde	-10322 Jun 17 j 22:29	28°♐17'23	
opposition	-10322 Aug 31 j 07:03	26°♐15'53	-1°15'17
min. Earth dist.	-10322 Sep 01 j 02:54	26°♐13'45	18.04847 AU
direct	-10322 Nov 14 j 10:04	24°♐13'01	
evening set	-10321 Feb 16 j 03:37	27°♐28'58	
conjunction	-10321 Mar 04 j 23:35	28°♐28'44	-1°07'51
minimum elong	-10321 Mar 04 j 23:35	28°♐28'44	1°08'27
max. Earth dist.	-10321 Mar 03 j 23:01	28°♐25'04	20.00917 AU
morning rise	-10321 Mar 21 j 18:29	29°♐28'24	
	-10321 Mar 30 j 23:27	0°♑	
retrograde	-10321 Jun 22 j 16:54	2°♑43'42	
opposition	-10321 Sep 04 j 20:49	0°♑42'05	-1°15'29
min. Earth dist.	-10321 Sep 05 j 18:07	0°♑39'47	17.97075 AU
	-10321 Sep 21 j 10:30	30°℞♐	
direct	-10321 Nov 19 j 02:22	28°♐38'43	
	-10320 Jan 15 j 05:30	0°♑	
evening set	-10320 Feb 21 j 02:21	1°♑56'08	
conjunction	-10320 Mar 08 j 22:09	2°♑56'10	-1°07'48
minimum elong	-10320 Mar 08 j 22:09	2°♑56'10	1°08'22
max. Earth dist.	-10320 Mar 07 j 18:22	2°♑52'00	19.93180 AU
morning rise	-10320 Mar 25 j 16:49	3°♑56'05	
retrograde	-10320 Jun 26 j 10:37	7°♑12'01	
opposition	-10320 Sep 08 j 11:24	5°♑10'15	-1°15'14
min. Earth dist.	-10320 Sep 09 j 10:54	5°♑07'43	17.89408 AU
direct	-10320 Nov 22 j 18:32	3°♑06'25	
evening set	-10319 Feb 25 j 01:43	6°♑25'17	
conjunction	-10319 Mar 13 j 21:35	7°♑25'36	-1°07'20
minimum elong	-10319 Mar 13 j 21:35	7°♑25'36	1°07'55
max. Earth dist.	-10319 Mar 12 j 17:08	7°♑21'19	19.85585 AU
morning rise	-10319 Mar 30 j 15:41	8°♑25'44	
retrograde	-10319 Jul 01 j 07:10	11°♑42'19	
opposition	-10319 Sep 13 j 02:57	9°♑40'26	-1°14'31
min. Earth dist.	-10319 Sep 14 j 03:15	9°♑37'48	17.81913 AU
direct	-10319 Nov 27 j 12:52	7°♑36'09	
evening set	-10318 Mar 02 j 01:50	10°♑56'27	
conjunction	-10318 Mar 18 j 21:22	11°♑57'02	-1°06'27
minimum elong	-10318 Mar 18 j 21:22	11°♑57'02	1°07'02
max. Earth dist.	-10318 Mar 17 j 14:28	11°♑52'21	19.78207 AU
morning rise	-10318 Apr 04 j 15:03	12°♑57'24	
retrograde	-10318 Jul 06 j 01:50	16°♑14'38	
opposition	-10318 Sep 17 j 19:27	14°♑12'38	-1°13'21
min. Earth dist.	-10318 Sep 18 j 21:40	14°♑09'47	17.74689 AU
direct	-10318 Dec 02 j 06:28	12°♑07'54	
evening set	-10317 Mar 07 j 02:45	15°♑29'39	
conjunction	-10317 Mar 23 j 22:08	16°♑30'29	-1°05'10
minimum elong	-10317 Mar 23 j 22:08	16°♑30'29	1°05'44
max. Earth dist.	-10317 Mar 22 j 14:49	16°♑25'43	19.71134 AU
morning rise	-10317 Apr 09 j 15:09	17°♑31'03	
retrograde	-10317 Jul 10 j 23:51	20°♑48'55	
opposition	-10317 Sep 22 j 12:41	18°♑46'50	-1°11'42
min. Earth dist.	-10317 Sep 23 j 15:12	18°♑43'57	17.67784 AU
direct	-10317 Dec 07 j 02:35	16°♑41'45	
evening set	-10316 Mar 11 j 04:38	20°♑04'53	
conjunction	-10316 Mar 27 j 23:34	21°♑05'59	-1°03'26
minimum elong	-10316 Mar 27 j 23:34	21°♑05'59	1°04'01
max. Earth dist.	-10316 Mar 26 j 14:23	21°♑00'54	19.64408 AU
morning rise	-10316 Apr 13 j 15:55	22°♑06'44	
retrograde	-10316 Jul 14 j 19:45	25°♑25'14	
opposition	-10316 Sep 26 j 07:08	23°♑23'06	-1°09'35
min. Earth dist.	-10316 Sep 27 j 11:25	23°♑20'01	17.61263 AU
direct	-10316 Dec 10 j 22:14	21°♑17'41	
evening set	-10315 Mar 16 j 07:02	24°♑42'13	
max. Earth dist.	-10315 Mar 31 j 16:01	25°♑38'21	19.58090 AU
conjunction	-10315 Apr 02 j 01:32	25°♑43'31	-1°01'18
minimum elong	-10315 Apr 02 j 01:33	25°♑43'31	1°01'51
morning rise	-10315 Apr 18 j 17:08	26°♑44'25	
	-10315 Jul 08 j 11:05	0°♒	
retrograde	-10315 Jul 19 j 18:49	0°♒03'33	
	-10315 Jul 31 j 00:59	30°℞♑	
opposition	-10315 Oct 01 j 02:26	28°♑01'25	-1°07'00
min. Earth dist.	-10315 Oct 02 j 06:32	27°♑58'21	17.55148 AU
direct	-10315 Dec 15 j 20:40	25°♑55'44	
evening set	-10314 Mar 21 j 10:14	29°♑21'34	
	-10314 Mar 31 j 22:30	0°♒	
max. Earth dist.	-10314 Apr 05 j 17:37	0°♒17'45	19.52182 AU
conjunction	-10314 Apr 07 j 04:11	0°♒23'05	-0°58'45
minimum elong	-10314 Apr 07 j 04:11	0°♒23'05	0°59'18
morning rise	-10314 Apr 23 j 18:54	1°♒24'09	
retrograde	-10314 Jul 24 j 15:45	4°♒43'53	
opposition	-10314 Oct 05 j 22:46	2°♒41'46	-1°03'57
min. Earth dist.	-10314 Oct 07 j 04:35	2°♒38'30	17.49461 AU
direct	-10314 Dec 20 j 18:20	0°♒35'50	

Attention, astronomical year style is used: The year -10313 in astronomical counting style is the year 10314 BCE in historical counting style.

evening set	-10313 Mar 26 j 14:02	4°♒02'57	
max. Earth dist.	-10313 Apr 10 j 20:12	4°♒59'10	19.46707 AU
conjunction	-10313 Apr 12 j 07:21	5°♒04'37	-0°55'47
minimum elong	-10313 Apr 12 j 07:21	5°♒04'37	0°56'18
morning rise	-10313 Apr 28 j 21:17	6°♒05'50	
retrograde	-10313 Jul 29 j 16:03	9°♒26'08	
opposition	-10313 Oct 10 j 20:01	7°♒24'02	-1°00'26
min. Earth dist.	-10313 Oct 12 j 01:30	7°♒20'49	17.44181 AU
direct	-10313 Dec 25 j 19:25	5°♒17'54	
evening set	-10312 Mar 30 j 18:31	8°♒46'11	
max. Earth dist.	-10312 Apr 14 j 23:38	9°♒42'29	19.41617 AU
conjunction	-10312 Apr 16 j 11:07	9°♒48'01	-0°52'25
minimum elong	-10312 Apr 16 j 11:08	9°♒48'01	0°52'53
morning rise	-10312 May 02 j 23:56	10°♒49'19	
retrograde	-10312 Aug 02 j 14:18	14°♒10'10	
opposition	-10312 Oct 14 j 18:26	12°♒08'05	-0°56'29
min. Earth dist.	-10312 Oct 16 j 01:28	12°♒04'41	17.39296 AU
direct	-10312 Dec 29 j 19:40	10°♒01'45	
evening set	-10311 Apr 04 j 23:31	13°♒31'07	
max. Earth dist.	-10311 Apr 20 j 02:53	14°♒27'23	19.36937 AU
conjunction	-10311 Apr 21 j 15:12	14°♒33'03	-0°48'40
minimum elong	-10311 Apr 21 j 15:12	14°♒33'03	0°49'08
	-10311 Apr 28 j 19:44	15°♒	
morning rise	-10311 May 08 j 03:06	15°♒34'28	
retrograde	-10311 Aug 07 j 15:31	18°♒55'47	
opposition	-10311 Oct 19 j 17:39	16°♒53'42	-0°52'08
min. Earth dist.	-10311 Oct 21 j 00:03	16°♒50'23	17.34816 AU
	-10311 Dec 12 j 17:58	15°℞♒	
direct	-10310 Jan 03 j 22:44	14°♒47'10	
	-10310 Jan 25 j 21:34	15°♒	
evening set	-10310 Apr 10 j 04:36	18°♒17'29	
max. Earth dist.	-10310 Apr 25 j 07:44	19°♒13'55	19.32653 AU
conjunction	-10310 Apr 26 j 19:31	19°♒19'31	-0°44'34
minimum elong	-10310 Apr 26 j 19:31	19°♒19'31	0°44'59
morning rise	-10310 May 13 j 06:12	20°♒20'59	
retrograde	-10310 Aug 12 j 15:08	23°♒42'45	
opposition	-10310 Oct 24 j 17:51	21°♒40'39	-0°47'23
min. Earth dist.	-10310 Oct 26 j 01:20	21°♒37'12	17.30741 AU
direct	-10309 Jan 09 j 00:36	19°♒33'55	
evening set	-10309 Apr 15 j 10:13	23°♒05'05	
max. Earth dist.	-10309 Apr 30 j 11:24	24°♒01'25	19.28804 AU
conjunction	-10309 May 02 j 00:01	24°♒07'11	-0°40'08
minimum elong	-10309 May 02 j 00:01	24°♒07'11	0°40'32
morning rise	-10309 May 18 j 09:44	25°♒08'42	
retrograde	-10309 Aug 17 j 17:09	28°♒30'49	
opposition	-10309 Oct 29 j 18:33	26°♒28'40	-0°42'17
min. Earth dist.	-10309 Oct 31 j 01:13	26°♒25'19	17.27114 AU
direct	-10308 Jan 14 j 05:01	24°♒21'46	
evening set	-10308 Apr 19 j 15:49	27°♒53'39	
max. Earth dist.	-10308 May 04 j 17:30	28°♒50'14	19.25415 AU
conjunction	-10308 May 06 j 04:44	28°♒55'47	-0°35'25
minimum elong	-10308 May 06 j 04:44	28°♒55'47	0°35'47
morning rise	-10308 May 22 j 13:06	29°♒57'19	
	-10308 May 23 j 06:34	0°♓	
retrograde	-10308 Aug 21 j 17:41	3°♓19'44	
opposition	-10308 Nov 02 j 20:15	1°♓17'34	-0°36'53
min. Earth dist.	-10308 Nov 04 j 03:17	1°♓14'10	17.23973 AU
	-10308 Dec 04 j 16:26	30°℞♒	
direct	-10307 Jan 18 j 07:53	29°♒10'31	
	-10307 Mar 03 j 01:20	0°♓	
evening set	-10307 Apr 24 j 21:25	2°♓42'57	
max. Earth dist.	-10307 May 09 j 21:29	3°♓39'28	19.22552 AU
conjunction	-10307 May 11 j 09:01	3°♓45'06	-0°30'27
minimum elong	-10307 May 11 j 09:02	3°♓45'06	0°30'45
morning rise	-10307 May 27 j 16:21	4°♓46'37	
retrograde	-10307 Aug 26 j 19:59	8°♓09'19	
opposition	-10307 Nov 07 j 22:26	6°♓07'04	-0°31'12
min. Earth dist.	-10307 Nov 09 j 04:19	6°♓03'49	17.21391 AU
direct	-10306 Jan 23 j 13:07	3°♓59'54	
evening set	-10306 Apr 30 j 02:48	7°♓32'48	
max. Earth dist.	-10306 May 15 j 04:07	8°♓29'38	19.20264 AU
conjunction	-10306 May 16 j 13:26	8°♓34'55	-0°25'15
minimum elong	-10306 May 16 j 13:26	8°♓34'55	0°25'32
morning rise	-10306 Jun 01 j 19:24	9°♓36'23	
retrograde	-10306 Aug 31 j 20:57	12°♓59'16	
opposition	-10306 Nov 13 j 01:07	10°♓57'00	-0°25'18
min. Earth dist.	-10306 Nov 14 j 06:31	10°♓53'48	17.19403 AU
direct	-10305 Jan 28 j 17:04	8°♓49'46	
evening set	-10305 May 05 j 08:11	12°♓22'58	
max. Earth dist.	-10305 May 20 j 08:22	13°♓19'46	19.18606 AU
conjunction	-10305 May 21 j 17:26	13°♓25'02	-0°19'53
minimum elong	-10305 May 21 j 17:26	13°♓25'02	0°20'06
morning rise	-10305 Jun 06 j 22:17	14°♓26'26	
retrograde	-10305 Sep 05 j 23:00	17°♓49'30	
opposition	-10305 Nov 18 j 04:23	15°♓47'11	-0°19'12
min. Earth dist.	-10305 Nov 19 j 08:27	15°♓44'08	17.18082 AU
direct	-10304 Feb 02 j 22:54	13°♓39'55	
evening set	-10304 May 09 j 13:05	17°♓13'19	
conjunction	-10304 May 25 j 21:10	18°♓15'17	-0°14'22
minimum elong	-10304 May 25 j 21:11	18°♓15'17	0°14'33
behind sun begin	-10304 May 25 j 18:17	18°♓14'50	
behind sun end	-10304 May 26 j 00:04	18°♓15'44	
max. Earth dist.	-10304 May 24 j 14:55	18°♓10'28	19.17632 AU
morning rise	-10304 Jun 11 j 00:38	19°♓16'36	
retrograde	-10304 Sep 10 j 00:13	22°♓39'47	
opposition	-10304 Nov 22 j 08:12	20°♓37'29	-0°12'59
min. Earth dist.	-10304 Nov 23 j 10:39	20°♓34'36	17.17452 AU
direct	-10303 Feb 07 j 04:20	18°♓30'16	
evening set	-10303 May 14 j 17:50	22°♓03'43	
max. Earth dist.	-10303 May 29 j 19:17	23°♓00'55	19.17378 AU
conjunction	-10303 May 31 j 00:29	23°♓05'34	-0°08'46
minimum elong	-10303 May 31 j 00:29	23°♓05'34	0°08'54
behind sun begin	-10303 May 30 j 18:45	23°♓04'40	
behind sun end	-10303 May 31 j 06:13	23°♓06'28	
morning rise	-10303 Jun 16 j 02:45	24°♓06'46	
retrograde	-10303 Sep 15 j 01:44	27°♓30'03	
opposition	-10303 Nov 27 j 12:18	25°♓27'45	-0°06'39
min. Earth dist.	-10303 Nov 28 j 13:15	25°♓25'03	17.17578 AU
direct	-10302 Feb 12 j 10:09	23°♓20'39	
evening set	-10302 May 19 j 21:56	26°♓54'03	
max. Earth dist.	-10302 Jun 04 j 01:05	27°♓51'33	19.17881 AU
conjunction	-10302 Jun 05 j 03:24	27°♓55'45	-0°03'06
minimum elong	-10302 Jun 05 j 03:23	27°♓55'45	0°03'11
behind sun begin	-10302 Jun 04 j 20:45	27°♓54'43	
behind sun end	-10302 Jun 05 j 10:00	27°♓56'47	
morning rise	-10302 Jun 21 j 04:23	28°♓56'49	
	-10302 Jul 08 j 17:54	0°♈	
retrograde	-10302 Sep 20 j 03:15	2°♈20'07	
opposition	-10302 Dec 02 j 16:42	0°♈17'55	-0°00'17
min. Earth dist.	-10302 Dec 03 j 15:16	0°♈15'28	17.18429 AU
	-10302 Dec 09 j 14:44	30°℞♓	
asc. node	-10302 Dec 18 j 14:01	29°♓37'22	

Attention, astronomical year style is used: The year -10301 in astronomical counting style is the year 10302 BCE in historical counting style.

direct	-10301 Feb 17 j 16:46	28°♓11'01		
	-10301 Apr 24 j 20:31	0°♈		
evening set	-10301 May 25 j 01:48	1°♈44'13		
max. Earth dist.	-10301 Jun 09 j 05:19	2°♈41'51	19.19100 AU	
conjunction	-10301 Jun 10 j 05:51	2°♈45'45	0°02'45	
minimum elong	-10301 Jun 10 j 05:50	2°♈45'45	0°02'42	
behind sun begin	-10301 Jun 09 j 23:12	2°♈44'43		
behind sun end	-10301 Jun 10 j 12:28	2°♈46'47		
morning rise	-10301 Jun 26 j 05:35	3°♈46'40		
retrograde	-10301 Sep 25 j 03:58	7°♈09'58		
opposition	-10301 Dec 07 j 21:22	5°♈07'52	0°06'05	
min. Earth dist.	-10301 Dec 08 j 18:37	5°♈05'34	17.20003 AU	
direct	-10300 Feb 22 j 22:30	3°♈01'12		
evening set	-10300 May 29 j 05:06	6°♈34'06		
max. Earth dist.	-10300 Jun 13 j 09:59	7°♈31'57	19.21025 AU	
conjunction	-10300 Jun 14 j 07:49	7°♈35'26	0°08'25	
minimum elong	-10300 Jun 14 j 07:48	7°♈35'26	0°08'26	
behind sun begin	-10300 Jun 14 j 01:59	7°♈34'32		
behind sun end	-10300 Jun 14 j 13:38	7°♈36'21		
morning rise	-10300 Jun 30 j 06:22	8°♈36'10		
retrograde	-10300 Sep 29 j 05:53	11°♈59'25		
opposition	-10300 Dec 12 j 02:17	9°♈57'26	0°12'25	
min. Earth dist.	-10300 Dec 12 j 20:38	9°♈55'28	17.22238 AU	
direct	-10299 Feb 27 j 05:35	7°♈51'05		
evening set	-10299 Jun 03 j 07:43	11°♈23'31		
conjunction	-10299 Jun 19 j 09:06	12°♈24'38	0°14'01	
minimum elong	-10299 Jun 19 j 09:06	12°♈24'38	0°14'05	
behind sun begin	-10299 Jun 19 j 05:44	12°♈24'06		
behind sun end	-10299 Jun 19 j 12:27	12°♈25'09		
max. Earth dist.	-10299 Jun 18 j 13:44	12°♈21'32	19.23573 AU	
morning rise	-10299 Jul 05 j 06:26	13°♈25'10		
retrograde	-10299 Oct 04 j 06:09	16°♈48'18		
opposition	-10299 Dec 17 j 07:22	14°♈46'27	0°18'38	
min. Earth dist.	-10299 Dec 18 j 00:32	14°♈44'37	17.25086 AU	
direct	-10298 Mar 04 j 10:15	12°♈40'24		
evening set	-10298 Jun 08 j 09:51	16°♈12'15		
conjunction	-10298 Jun 24 j 09:51	17°♈13'07	0°19'31	
minimum elong	-10298 Jun 24 j 09:51	17°♈13'07	0°19'38	
max. Earth dist.	-10298 Jun 23 j 16:39	17°♈10'23	19.26706 AU	
morning rise	-10298 Jul 10 j 06:08	18°♈13'26		
retrograde	-10298 Oct 09 j 08:19	21°♈36'23		
opposition	-10298 Dec 22 j 12:08	19°♈34'39	0°24'43	
min. Earth dist.	-10298 Dec 23 j 02:12	19°♈33'09	17.28472 AU	
direct	-10297 Mar 09 j 16:54	17°♈28'55		
evening set	-10297 Jun 13 j 11:15	21°♈00'04		
conjunction	-10297 Jun 29 j 10:02	22°♈00'40	0°24'52	
minimum elong	-10297 Jun 29 j 10:01	22°♈00'40	0°25'02	
max. Earth dist.	-10297 Jun 28 j 19:41	21°♈58'23	19.30341 AU	
morning rise	-10297 Jul 15 j 05:05	23°♈00'45		
retrograde	-10297 Oct 14 j 07:57	26°♈23'27		
opposition	-10297 Dec 27 j 17:10	24°♈21'50	0°30'35	
min. Earth dist.	-10297 Dec 28 j 06:02	24°♈20'28	17.32348 AU	
direct	-10296 Mar 13 j 20:29	22°♈16'25		
evening set	-10296 Jun 17 j 11:49	25°♈46'43		
conjunction	-10296 Jul 03 j 09:12	26°♈47'02	0°30'02	
minimum elong	-10296 Jul 03 j 09:12	26°♈47'02	0°30'13	
max. Earth dist.	-10296 Jul 02 j 20:43	26°♈45'03	19.34450 AU	
morning rise	-10296 Jul 19 j 03:22	27°♈46'52		
	-10296 Aug 28 j 18:58	0°♉		
retrograde	-10296 Oct 18 j 09:40	1°♉09'15		
	-10296 Dec 10 j 16:29	30°℞♈		
opposition	-10296 Dec 31 j 21:50	29°♈07'42	0°36'13	
min. Earth dist.	-10295 Jan 01 j 07:17	29°♈06'42	17.36670 AU	
direct	-10295 Mar 19 j 02:29	27°♈02'37		
	-10295 Jun 13 j 17:48	0°♉		
evening set	-10295 Jun 22 j 11:26	0°♉31'57		
conjunction	-10295 Jul 08 j 07:46	1°♉31'59	0°34'57	
minimum elong	-10295 Jul 08 j 07:46	1°♉31'59	0°35'12	
max. Earth dist.	-10295 Jul 07 j 22:38	1°♉30'32	19.38980 AU	
morning rise	-10295 Jul 24 j 00:50	2°♉31'32		
retrograde	-10295 Oct 23 j 08:24	5°♉53'32		
opposition	-10294 Jan 06 j 02:09	3°♉52'04	0°41'34	
min. Earth dist.	-10294 Jan 06 j 10:14	3°♉51'13	17.41407 AU	
direct	-10294 Mar 24 j 05:31	1°♉47'19		
evening set	-10294 Jun 27 j 10:12	5°♉15'34		
conjunction	-10294 Jul 13 j 05:16	6°♉15'16	0°39'36	
minimum elong	-10294 Jul 13 j 05:16	6°♉15'16	0°39'54	
max. Earth dist.	-10294 Jul 12 j 21:46	6°♉14'05	19.43922 AU	
morning rise	-10294 Jul 28 j 21:39	7°♉14'34		
retrograde	-10294 Oct 28 j 08:25	10°♉36'07		
opposition	-10293 Jan 11 j 05:55	8°♉34'41	0°46'36	
min. Earth dist.	-10293 Jan 11 j 10:37	8°♉34'11	17.46542 AU	
direct	-10293 Mar 29 j 10:53	6°♉30'15		
evening set	-10293 Jul 02 j 07:44	9°♉57'20		
conjunction	-10293 Jul 18 j 01:52	10°♉56'43	0°43'58	
minimum elong	-10293 Jul 18 j 01:52	10°♉56'43	0°44'18	
max. Earth dist.	-10293 Jul 17 j 22:08	10°♉56'07	19.49247 AU	
morning rise	-10293 Aug 02 j 17:16	11°♉55'43		
	-10293 Oct 08 j 11:46	15°♉		
retrograde	-10293 Nov 02 j 05:31	15°♉16'47		
	-10293 Nov 27 j 11:42	15°℞♉		
opposition	-10292 Jan 16 j 09:19	13°♉15'22	0°51'17	
min. Earth dist.	-10292 Jan 16 j 12:12	13°♉15'04	17.52060 AU	
direct	-10292 Apr 02 j 13:58	11°♉11'17		
evening set	-10292 Jul 06 j 04:24	14°♉37'06		
	-10292 Jul 12 j 07:56	15°♉		
conjunction	-10292 Jul 21 j 21:23	15°♉36'08	0°48'00	
minimum elong	-10292 Jul 21 j 21:22	15°♉36'08	0°48'23	
max. Earth dist.	-10292 Jul 21 j 19:25	15°♉35'50	19.54971 AU	
morning rise	-10292 Aug 06 j 12:15	16°♉34'52		
retrograde	-10292 Nov 06 j 03:28	19°♉55'23		
opposition	-10291 Jan 20 j 12:02	17°♉54'00	0°55'35	
min. Earth dist.	-10291 Jan 20 j 11:30	17°♉54'03	17.57990 AU	
direct	-10291 Apr 07 j 17:28	15°♉50'15		
evening set	-10291 Jul 10 j 23:43	19°♉14'44		
conjunction	-10291 Jul 26 j 15:57	20°♉13'27	0°51'42	
minimum elong	-10291 Jul 26 j 15:57	20°♉13'27	0°52'06	
max. Earth dist.	-10291 Jul 26 j 18:02	20°♉13'46	19.61094 AU	
morning rise	-10291 Aug 11 j 06:04	21°♉11'52		
retrograde	-10291 Nov 10 j 23:19	24°♉31'50		
opposition	-10290 Jan 25 j 14:05	22°♉30'29	0°59'29	
min. Earth dist.	-10290 Jan 25 j 11:13	22°♉30'47	17.64310 AU	
direct	-10290 Apr 12 j 19:23	20°♉27'06		
evening set	-10290 Jul 15 j 18:16	23°♉50'13		
conjunction	-10290 Jul 31 j 09:29	24°♉48'35	0°55'03	
minimum elong	-10290 Jul 31 j 09:28	24°♉48'35	0°55'29	
max. Earth dist.	-10290 Jul 31 j 13:22	24°♉49'11	19.67612 AU	
morning rise	-10290 Aug 15 j 23:12	25°♉46'43		
retrograde	-10290 Nov 15 j 19:06	29°♉06'05		
opposition	-10289 Jan 30 j 15:15	27°♉04'49	1°03'00	
min. Earth dist.	-10289 Jan 30 j 09:13	27°♉05'26	17.71032 AU	
direct	-10289 Apr 17 j 19:53	25°♉01'49		

Attention, astronomical year style is used: The year -10289 in astronomical counting style is the year 10290 BCE in historical counting style.

evening set	-10289 Jul 20 j 11:38	28°♉23'33	
conjunction	-10289 Aug 05 j 02:15	29°♉21'35	0°58'01
minimum elong	-10289 Aug 05 j 02:14	29°♉21'35	0°58'28
max. Earth dist.	-10289 Aug 05 j 10:07	29°♉22'49	19.74519 AU
	-10289 Aug 15 j 08:48	0°♊	
morning rise	-10289 Aug 20 j 15:22	0°♊19'26	
retrograde	-10289 Nov 20 j 14:13	3°♊38'11	
opposition	-10288 Feb 04 j 15:52	1°♊37'02	1°06'05
min. Earth dist.	-10288 Feb 04 j 07:05	1°♊37'56	17.78113 AU
	-10288 Mar 20 j 15:24	30°℞♉	
direct	-10288 Apr 21 j 19:52	29°♉34'29	
	-10288 May 23 j 02:42	0°♊	
evening set	-10288 Jul 24 j 04:01	2°♊54'47	
conjunction	-10288 Aug 08 j 17:49	3°♊52'30	1°00'37
minimum elong	-10288 Aug 08 j 17:49	3°♊52'30	1°01'07
max. Earth dist.	-10288 Aug 09 j 03:34	3°♊54'01	19.81768 AU
morning rise	-10288 Aug 24 j 06:47	4°♊50'04	
retrograde	-10288 Nov 24 j 08:50	8°♊08'14	
opposition	-10287 Feb 08 j 15:43	6°♊07'11	1°08'44
min. Earth dist.	-10287 Feb 08 j 04:14	6°♊08'22	17.85521 AU
direct	-10287 Apr 26 j 17:35	4°♊05'06	
evening set	-10287 Jul 28 j 19:23	7°♊24'00	
conjunction	-10287 Aug 13 j 08:49	8°♊21'23	1°02'50
minimum elong	-10287 Aug 13 j 08:48	8°♊21'23	1°03'20
max. Earth dist.	-10287 Aug 13 j 22:10	8°♊23'27	19.89300 AU
morning rise	-10287 Aug 28 j 21:24	9°♊18'41	
retrograde	-10287 Nov 29 j 03:01	12°♊36'12	
opposition	-10286 Feb 13 j 14:31	10°♊35'20	1°10'57
min. Earth dist.	-10286 Feb 13 j 00:21	10°♊36'48	17.93157 AU
direct	-10286 May 01 j 15:25	8°♊33'45	
evening set	-10286 Aug 02 j 09:59	11°♊51'13	
conjunction	-10286 Aug 17 j 22:47	12°♊48'17	1°04'38
minimum elong	-10286 Aug 17 j 22:47	12°♊48'17	1°05'11
max. Earth dist.	-10286 Aug 18 j 13:45	12°♊50'36	19.97021 AU
morning rise	-10286 Sep 02 j 11:22	13°♊45'19	
retrograde	-10286 Dec 03 j 20:25	17°♊02'13	
opposition	-10285 Feb 18 j 12:44	15°♊01'31	1°12'43
min. Earth dist.	-10285 Feb 17 j 20:35	15°♊03'11	18.00955 AU
direct	-10285 May 06 j 11:00	13°♊00'25	
evening set	-10285 Aug 06 j 23:26	16°♊16'28	
conjunction	-10285 Aug 22 j 12:00	17°♊13'14	1°06'03
minimum elong	-10285 Aug 22 j 12:00	17°♊13'14	1°06'38
max. Earth dist.	-10285 Aug 23 j 06:04	17°♊16'00	20.04855 AU
morning rise	-10285 Sep 07 j 00:23	18°♊10'00	
retrograde	-10285 Dec 08 j 13:41	21°♊26'16	
opposition	-10284 Feb 23 j 10:07	19°♊25'45	1°14'02
min. Earth dist.	-10284 Feb 22 j 15:17	19°♊27'40	18.08808 AU
direct	-10284 May 10 j 06:57	17°♊25'08	
evening set	-10284 Aug 10 j 12:18	20°♊39'45	
conjunction	-10284 Aug 26 j 00:27	21°♊36'13	1°07'05
minimum elong	-10284 Aug 26 j 00:26	21°♊36'13	1°07'38
max. Earth dist.	-10284 Aug 26 j 19:55	21°♊39'11	20.12706 AU
morning rise	-10284 Sep 10 j 13:01	22°♊32'44	
retrograde	-10284 Dec 12 j 05:43	25°♊48'22	
min. Earth dist.	-10283 Feb 26 j 10:30	23°♊50'03	18.16659 AU
opposition	-10283 Feb 27 j 06:40	23°♊48'00	1°14'55
direct	-10283 May 15 j 00:31	21°♊47'50	
evening set	-10283 Aug 15 j 00:07	25°♊01'03	
conjunction	-10283 Aug 30 j 12:15	25°♊57'14	1°07'42
minimum elong	-10283 Aug 30 j 12:15	25°♊57'14	1°08'17
max. Earth dist.	-10283 Aug 31 j 10:11	26°♊00'34	20.20510 AU
morning rise	-10283 Sep 15 j 00:52	26°♊53'30	
	-10283 Nov 28 j 17:57	0°♋	
retrograde	-10283 Dec 16 j 22:01	0°♋08'28	
	-10282 Jan 04 j 08:40	30°℞♊	
min. Earth dist.	-10282 Mar 03 j 03:32	28°♊10'33	18.24401 AU
opposition	-10282 Mar 04 j 02:11	28°♊08'15	1°15'21
direct	-10282 May 19 j 18:44	26°♊08'31	
evening set	-10282 Aug 19 j 11:16	29°♊20'20	
	-10282 Aug 30 j 11:54	0°♋	
conjunction	-10282 Sep 03 j 23:11	0°♋16'15	1°07'55
minimum elong	-10282 Sep 03 j 23:11	0°♋16'15	1°08'30
max. Earth dist.	-10282 Sep 04 j 22:14	0°♋19'44	20.28169 AU
morning rise	-10282 Sep 19 j 12:07	1°♋12'18	
retrograde	-10282 Dec 21 j 12:15	4°♋26'36	
opposition	-10281 Mar 08 j 20:55	2°♋26'29	1°15'22
min. Earth dist.	-10281 Mar 07 j 21:30	2°♋28'51	18.31989 AU
direct	-10281 May 24 j 10:34	0°♋27'09	
evening set	-10281 Aug 23 j 21:28	3°♋37'35	
conjunction	-10281 Sep 08 j 09:31	4°♋33'14	1°07'46
minimum elong	-10281 Sep 08 j 09:31	4°♋33'14	1°08'21
max. Earth dist.	-10281 Sep 09 j 10:36	4°♋37'01	20.35663 AU
morning rise	-10281 Sep 23 j 22:41	5°♋29'04	
retrograde	-10281 Dec 26 j 03:44	8°♋42'42	
opposition	-10280 Mar 12 j 14:37	6°♋42'40	1°14'57
min. Earth dist.	-10280 Mar 11 j 12:49	6°♋45'17	18.39377 AU
direct	-10280 May 28 j 03:11	4°♋43'42	
evening set	-10280 Aug 27 j 06:51	7°♋52'45	
conjunction	-10280 Sep 11 j 18:57	8°♋48'10	1°07'14
minimum elong	-10280 Sep 11 j 18:57	8°♋48'10	1°07'50
max. Earth dist.	-10280 Sep 12 j 21:11	8°♋52'06	20.42942 AU
morning rise	-10280 Sep 27 j 08:39	9°♋43'48	
retrograde	-10280 Dec 29 j 15:51	12°♋56'46	
min. Earth dist.	-10279 Mar 16 j 05:18	10°♋59'25	18.46560 AU
opposition	-10279 Mar 17 j 07:30	10°♋56'46	1°14'08
direct	-10279 Jun 01 j 17:21	8°♋58'08	
evening set	-10279 Aug 31 j 15:25	12°♋05'51	
conjunction	-10279 Sep 16 j 03:50	13°♋01'02	1°06'21
minimum elong	-10279 Sep 16 j 03:50	13°♋01'03	1°06'56
max. Earth dist.	-10279 Sep 17 j 07:48	13°♋05'13	20.50018 AU
morning rise	-10279 Oct 01 j 17:58	13°♋56'29	
retrograde	-10278 Jan 03 j 06:00	17°♋08'45	
opposition	-10278 Mar 21 j 23:00	15°♋08'48	1°12'56
min. Earth dist.	-10278 Mar 20 j 18:34	15°♋11'40	18.53529 AU
direct	-10278 Jun 06 j 08:14	13°♋10'28	
evening set	-10278 Sep 04 j 23:16	16°♋16'54	
conjunction	-10278 Sep 20 j 11:52	17°♋11'53	1°05'08
minimum elong	-10278 Sep 20 j 11:52	17°♋11'53	1°05'43
max. Earth dist.	-10278 Sep 21 j 17:03	17°♋16'13	20.56883 AU
morning rise	-10278 Oct 06 j 02:38	18°♋07'09	
retrograde	-10277 Jan 07 j 16:09	21°♋18'46	
min. Earth dist.	-10277 Mar 25 j 09:12	19°♋21'44	18.60313 AU
opposition	-10277 Mar 26 j 13:53	19°♋18'51	1°11'21
direct	-10277 Jun 10 j 20:02	17°♋20'48	
evening set	-10277 Sep 09 j 06:13	20°♋26'00	
conjunction	-10277 Sep 24 j 19:17	21°♋20'47	1°03'34
minimum elong	-10277 Sep 24 j 19:18	21°♋20'47	1°04'07
max. Earth dist.	-10277 Sep 26 j 02:06	21°♋25'20	20.63578 AU
morning rise	-10277 Oct 10 j 10:38	22°♋15'53	
retrograde	-10276 Jan 12 j 04:43	25°♋26'52	
min. Earth dist.	-10276 Mar 28 j 20:45	23°♋30'07	18.66919 AU

Attention, astronomical year style is used: The year -10276 in astronomical counting style is the year 10277 BCE in historical counting style.

opposition	-10276 Mar 30 j 03:42	23°♋27'00	1°09'25
direct	-10276 Jun 14 j 09:23	21°♋29'15	
evening set	-10276 Sep 12 j 12:46	24°♋33'17	
conjunction	-10276 Sep 28 j 02:13	25°♋27'53	1°01'42
minimum elong	-10276 Sep 28 j 02:14	25°♋27'53	1°02'16
max. Earth dist.	-10276 Sep 29 j 10:09	25°♋32'35	20.70085 AU
morning rise	-10276 Oct 13 j 18:21	26°♋22'51	
retrograde	-10275 Jan 15 j 13:53	29°♋33'14	
min. Earth dist.	-10275 Apr 02 j 09:44	27°♋36'32	18.73344 AU
opposition	-10275 Apr 03 j 16:39	27°♋33'26	1°07'09
direct	-10275 Jun 18 j 18:44	25°♋35'58	
evening set	-10275 Sep 16 j 18:40	28°♋38'55	
conjunction	-10275 Oct 02 j 08:45	29°♋33'21	0°59'32
minimum elong	-10275 Oct 02 j 08:45	29°♋33'21	1°00'04
max. Earth dist.	-10275 Oct 03 j 17:49	29°♋38'13	20.76411 AU
	-10275 Oct 09 j 22:38	0°♌	
morning rise	-10275 Oct 18 j 01:36	0°♌28'11	
retrograde	-10274 Jan 20 j 01:03	3°♌38'00	
min. Earth dist.	-10274 Apr 06 j 19:50	1°♌41'36	18.79552 AU
opposition	-10274 Apr 08 j 04:42	1°♌38'18	1°04'34
	-10274 May 26 j 13:14	30°℞♋	
direct	-10274 Jun 23 j 05:59	29°♋41'09	
	-10274 Jul 20 j 05:50	0°♌	
evening set	-10274 Sep 21 j 00:05	2°♌43'05	
conjunction	-10274 Oct 06 j 14:40	3°♌37'23	0°57'04
minimum elong	-10274 Oct 06 j 14:41	3°♌37'23	0°57'36
max. Earth dist.	-10274 Oct 08 j 00:38	3°♌42'20	20.82488 AU
morning rise	-10274 Oct 22 j 08:23	4°♌32'06	
retrograde	-10273 Jan 24 j 09:34	7°♌41'24	
min. Earth dist.	-10273 Apr 11 j 07:40	5°♌45'03	18.85500 AU
opposition	-10273 Apr 12 j 16:10	5°♌41'48	1°01'40
direct	-10273 Jun 27 j 13:50	3°♌44'56	
evening set	-10273 Sep 25 j 05:05	6°♌45'55	
conjunction	-10273 Oct 10 j 20:26	7°♌40'06	0°54'20
minimum elong	-10273 Oct 10 j 20:26	7°♌40'06	0°54'51
max. Earth dist.	-10273 Oct 12 j 07:06	7°♌45'09	20.88297 AU
morning rise	-10273 Oct 26 j 14:59	8°♌34'43	
retrograde	-10272 Jan 28 j 19:49	11°♌43'32	
min. Earth dist.	-10272 Apr 14 j 16:47	9°♌47'27	18.91140 AU
opposition	-10272 Apr 16 j 02:45	9°♌44'03	0°58'28
direct	-10272 Jun 30 j 23:02	7°♌47'28	
evening set	-10272 Sep 28 j 09:51	10°♌47'35	
conjunction	-10272 Oct 14 j 01:53	11°♌41'40	0°51'21
minimum elong	-10272 Oct 14 j 01:53	11°♌41'40	0°51'49
max. Earth dist.	-10272 Oct 15 j 13:01	11°♌46'45	20.93749 AU
morning rise	-10272 Oct 29 j 21:26	12°♌36'13	
	-10272 Dec 19 j 21:16	15°♌	
retrograde	-10271 Feb 01 j 03:57	15°♌44'35	
	-10271 Mar 17 j 18:52	15°℞♌	
min. Earth dist.	-10271 Apr 19 j 03:44	13°♌48'30	18.96397 AU
opposition	-10271 Apr 20 j 12:48	13°♌45'12	0°55'00
direct	-10271 Jul 05 j 05:35	11°♌48'53	
evening set	-10271 Oct 02 j 14:23	14°♌48'12	
	-10271 Oct 06 j 01:44	15°♌	
conjunction	-10271 Oct 18 j 07:14	15°♌42'11	0°48'07
minimum elong	-10271 Oct 18 j 07:15	15°♌42'11	0°48'34
max. Earth dist.	-10271 Oct 19 j 18:28	15°♌47'16	20.98796 AU
morning rise	-10271 Nov 03 j 03:41	16°♌36'40	
retrograde	-10270 Feb 05 j 13:17	19°♌44'37	
min. Earth dist.	-10270 Apr 23 j 11:59	17°♌48'43	19.01210 AU
opposition	-10270 Apr 24 j 21:55	17°♌45'20	0°51'17
direct	-10270 Jul 09 j 13:20	15°♌49'15	
evening set	-10270 Oct 06 j 18:47	18°♌47'51	
conjunction	-10270 Oct 22 j 12:23	19°♌41'46	0°44'39
minimum elong	-10270 Oct 22 j 12:24	19°♌41'46	0°45'04
max. Earth dist.	-10270 Oct 23 j 23:34	19°♌46'50	21.03357 AU
morning rise	-10270 Nov 07 j 09:52	20°♌36'12	
retrograde	-10269 Feb 09 j 20:47	23°♌43'46	
min. Earth dist.	-10269 Apr 27 j 22:08	21°♌47'49	19.05517 AU
opposition	-10269 Apr 29 j 06:44	21°♌44'34	0°47'20
direct	-10269 Jul 13 j 18:44	19°♌48'40	
evening set	-10269 Oct 10 j 22:51	22°♌46'36	
conjunction	-10269 Oct 26 j 17:25	23°♌40'28	0°40'59
minimum elong	-10269 Oct 26 j 17:25	23°♌40'28	0°41'23
max. Earth dist.	-10269 Oct 28 j 04:12	23°♌45'28	21.07401 AU
morning rise	-10269 Nov 11 j 15:54	24°♌34'53	
retrograde	-10268 Feb 14 j 05:47	27°♌42'05	
min. Earth dist.	-10268 May 01 j 05:48	25°♌46'13	19.09271 AU
opposition	-10268 May 02 j 14:51	25°♌42'55	0°43'09
direct	-10268 Jul 17 j 01:36	23°♌47'10	
evening set	-10268 Oct 14 j 03:01	26°♌44'31	
conjunction	-10268 Oct 29 j 22:28	27°♌38'21	0°37'08
minimum elong	-10268 Oct 29 j 22:28	27°♌38'21	0°37'30
max. Earth dist.	-10268 Oct 31 j 08:46	27°♌43'15	21.10860 AU
morning rise	-10268 Nov 14 j 22:03	28°♌32'45	
	-10268 Dec 13 j 01:31	0°♍	
retrograde	-10267 Feb 17 j 12:16	1°♍39'37	
	-10267 Apr 28 j 17:53	30°℞♌	
opposition	-10267 May 06 j 22:21	29°♌40'28	0°38'48
min. Earth dist.	-10267 May 05 j 15:02	29°♌43'35	19.12436 AU
direct	-10267 Jul 21 j 06:11	27°♌44'48	
	-10267 Oct 05 j 11:03	0°♍	
evening set	-10267 Oct 18 j 06:55	0°♍41'37	
conjunction	-10267 Nov 03 j 03:25	1°♍35'26	0°33'08
minimum elong	-10267 Nov 03 j 03:26	1°♍35'26	0°33'28
max. Earth dist.	-10267 Nov 04 j 12:57	1°♍40'13	21.13744 AU
morning rise	-10267 Nov 19 j 04:04	2°♍29'50	
retrograde	-10266 Feb 21 j 20:49	5°♍36'23	
min. Earth dist.	-10266 May 09 j 21:49	3°♍40'21	19.15023 AU
opposition	-10266 May 11 j 05:17	3°♍37'13	0°34'16
direct	-10266 Jul 25 j 12:05	1°♍41'36	
evening set	-10266 Oct 22 j 10:38	4°♍37'57	
conjunction	-10266 Nov 07 j 08:04	5°♍31'47	0°28'59
minimum elong	-10266 Nov 07 j 08:04	5°♍31'47	0°29'17
max. Earth dist.	-10266 Nov 08 j 17:03	5°♍36'28	21.16048 AU
morning rise	-10266 Nov 23 j 09:49	6°♍26'12	
retrograde	-10265 Feb 26 j 02:15	9°♍32'29	
min. Earth dist.	-10265 May 14 j 06:05	7°♍36'14	19.17057 AU
opposition	-10265 May 15 j 11:48	7°♍33'16	0°29'37
direct	-10265 Jul 29 j 16:04	5°♍37'39	
evening set	-10265 Oct 26 j 14:21	8°♍33'38	
conjunction	-10265 Nov 11 j 12:52	9°♍27'28	0°24'43
minimum elong	-10265 Nov 11 j 12:53	9°♍27'28	0°24'58
max. Earth dist.	-10265 Nov 12 j 21:04	9°♍32'02	21.17838 AU
morning rise	-10265 Nov 27 j 15:43	10°♍21'55	
retrograde	-10264 Mar 01 j 10:20	13°♍27'58	
min. Earth dist.	-10264 May 17 j 11:54	11°♍31'40	19.18595 AU
opposition	-10264 May 18 j 17:37	11°♍28'41	0°24'50
direct	-10264 Aug 01 j 20:49	9°♍33'04	
evening set	-10264 Oct 29 j 18:11	12°♍28'45	
conjunction	-10264 Nov 14 j 17:41	13°♍22'38	0°20'20

Attention, astronomical year style is used: The year -10264 in astronomical counting style is the year 10265 BCE in historical counting style.

minimum elong	-10264 Nov 14 j 17:42	13°♍22'38	0°20'34
max. Earth dist.	-10264 Nov 16 j 01:12	13°♍27'06	21.19132 AU
morning rise	-10264 Nov 30 j 21:40	14°♍17'08	
retrograde	-10263 Mar 05 j 15:31	17°♍22'59	
opposition	-10263 May 22 j 23:09	15°♍23'40	0°19'56
min. Earth dist.	-10263 May 21 j 19:13	15°♍26'28	19.19660 AU
direct	-10263 Aug 06 j 00:04	13°♍28'01	
evening set	-10263 Nov 02 j 21:59	16°♍23'30	
conjunction	-10263 Nov 18 j 22:35	17°♍17'27	0°15'53
minimum elong	-10263 Nov 18 j 22:35	17°♍17'27	0°16'03
max. Earth dist.	-10263 Nov 20 j 05:05	17°♍21'45	21.19983 AU
morning rise	-10263 Dec 05 j 03:36	18°♍12'00	
retrograde	-10262 Mar 09 j 23:17	21°♍17'44	
min. Earth dist.	-10262 May 26 j 00:17	19°♍21'10	19.20288 AU
opposition	-10262 May 27 j 04:08	19°♍18'22	0°14'58
direct	-10262 Aug 10 j 03:53	17°♍22'41	
evening set	-10262 Nov 07 j 02:01	20°♍18'04	
conjunction	-10262 Nov 23 j 03:38	21°♍12'05	0°11'22
minimum elong	-10262 Nov 23 j 03:37	21°♍12'05	0°11'31
behind sun begin	-10262 Nov 22 j 22:52	21°♍11'26	
behind sun end	-10262 Nov 23 j 08:23	21°♍12'44	
max. Earth dist.	-10262 Nov 24 j 09:16	21°♍16'16	21.20393 AU
morning rise	-10262 Dec 09 j 09:43	22°♍06'43	
retrograde	-10261 Mar 14 j 04:44	25°♍12'23	
min. Earth dist.	-10261 May 30 j 07:02	23°♍15'36	19.20484 AU
opposition	-10261 May 31 j 09:00	23°♍12'59	0°09'56
direct	-10261 Aug 14 j 06:22	21°♍17'17	
evening set	-10261 Nov 11 j 06:07	24°♍12'39	
conjunction	-10261 Nov 27 j 08:55	25°♍06'46	0°06'48
minimum elong	-10261 Nov 27 j 08:54	25°♍06'46	0°06'54
behind sun begin	-10261 Nov 27 j 02:44	25°♍05'55	
behind sun end	-10261 Nov 27 j 15:04	25°♍07'36	
max. Earth dist.	-10261 Nov 28 j 13:17	25°♍10'45	21.20387 AU
morning rise	-10261 Dec 13 j 16:06	26°♍01'29	
retrograde	-10260 Mar 17 j 13:01	29°♍07'08	
min. Earth dist.	-10260 Jun 02 j 11:58	27°♍10'19	19.20248 AU
opposition	-10260 Jun 03 j 13:34	27°♍07'44	0°04'51
direct	-10260 Aug 17 j 10:01	25°♍11'58	
evening set	-10260 Nov 14 j 10:49	28°♍07'26	
conjunction	-10260 Nov 30 j 14:38	29°♍01'39	0°02'11
minimum elong	-10260 Nov 30 j 14:38	29°♍01'39	0°02'16
behind sun begin	-10260 Nov 30 j 07:59	29°♍00'45	
behind sun end	-10260 Nov 30 j 21:18	29°♍02'34	
max. Earth dist.	-10260 Dec 01 j 17:47	29°♍05'28	21.19918 AU
morning rise	-10260 Dec 16 j 22:53	29°♍56'29	
	-10260 Dec 18 j 00:29	0°♎	
retrograde	-10259 Mar 21 j 18:45	3°♎02'09	
desc. node	-10259 May 19 j 08:28	1°♎48'32	
opposition	-10259 Jun 07 j 17:58	1°♎02'46	-0°00'17
min. Earth dist.	-10259 Jun 06 j 18:37	1°♎05'08	19.19542 AU
	-10259 Jul 05 j 01:54	30°℞♍	
direct	-10259 Aug 21 j 11:53	29°♍06'58	
	-10259 Oct 06 j 14:36	0°♎	
evening set	-10259 Nov 18 j 15:47	2°♎02'35	
conjunction	-10259 Dec 04 j 20:42	2°♎56'56	-0°02'35
minimum elong	-10259 Dec 04 j 20:43	2°♎56'56	0°02'33
behind sun begin	-10259 Dec 04 j 14:04	2°♎56'02	
behind sun end	-10259 Dec 05 j 03:22	2°♎57'51	
max. Earth dist.	-10259 Dec 05 j 22:11	3°♎00'31	21.18988 AU
morning rise	-10259 Dec 21 j 06:00	3°♎51'54	
retrograde	-10258 Mar 26 j 03:43	6°♎57'39	
opposition	-10258 Jun 11 j 22:18	4°♎58'15	-0°05'25
min. Earth dist.	-10258 Jun 10 j 23:42	5°♎00'33	19.18357 AU
direct	-10258 Aug 25 j 15:45	3°♎02'22	
evening set	-10258 Nov 22 j 21:09	5°♎58'15	
conjunction	-10258 Dec 09 j 03:08	6°♎52'45	-0°07'13
minimum elong	-10258 Dec 09 j 03:07	6°♎52'45	0°07'14
behind sun begin	-10258 Dec 08 j 20:59	6°♎51'55	
behind sun end	-10258 Dec 09 j 09:15	6°♎53'36	
max. Earth dist.	-10258 Dec 10 j 03:05	6°♎56'07	21.17541 AU
morning rise	-10258 Dec 25 j 13:24	7°♎47'51	
retrograde	-10257 Mar 30 j 09:59	10°♎53'44	
min. Earth dist.	-10257 Jun 15 j 06:43	8°♎56'22	19.16639 AU
opposition	-10257 Jun 16 j 02:45	8°♎54'20	-0°10'32
direct	-10257 Aug 29 j 17:34	6°♎58'21	
evening set	-10257 Nov 27 j 03:12	9°♎54'34	
conjunction	-10257 Dec 13 j 10:16	10°♎49'14	-0°11'50
minimum elong	-10257 Dec 13 j 10:16	10°♎49'14	0°11'52
behind sun begin	-10257 Dec 13 j 05:40	10°♎48'36	
behind sun end	-10257 Dec 13 j 14:52	10°♎49'52	
max. Earth dist.	-10257 Dec 14 j 08:03	10°♎52'17	21.15559 AU
morning rise	-10257 Dec 29 j 21:33	11°♎44'29	
retrograde	-10256 Apr 02 j 19:13	14°♎50'31	
opposition	-10256 Jun 19 j 07:01	12°♎51'06	-0°15'37
min. Earth dist.	-10256 Jun 18 j 12:16	12°♎53'00	19.14367 AU
direct	-10256 Sep 01 j 22:04	10°♎54'57	
evening set	-10256 Nov 30 j 09:55	13°♎51'36	
conjunction	-10256 Dec 16 j 18:01	14°♎46'26	-0°16'24
minimum elong	-10256 Dec 16 j 18:01	14°♎46'26	0°16'29
max. Earth dist.	-10256 Dec 17 j 13:43	14°♎49'12	21.12984 AU
morning rise	-10255 Jan 02 j 06:12	15°♎41'51	
retrograde	-10255 Apr 07 j 02:22	18°♎48'04	
opposition	-10255 Jun 23 j 11:35	16°♎48'35	-0°20'39
min. Earth dist.	-10255 Jun 22 j 19:41	16°♎50'12	19.11488 AU
direct	-10255 Sep 06 j 00:44	14°♎52'15	
evening set	-10255 Dec 04 j 17:01	17°♎49'22	
conjunction	-10255 Dec 21 j 02:10	18°♎44'23	-0°20'54
minimum elong	-10255 Dec 21 j 02:09	18°♎44'23	0°21'01
max. Earth dist.	-10255 Dec 21 j 19:15	18°♎46'47	21.09815 AU
morning rise	-10254 Jan 06 j 15:15	19°♎39'58	
retrograde	-10254 Apr 11 j 11:25	22°♎46'25	
opposition	-10254 Jun 27 j 16:07	20°♎46'50	-0°25'35
min. Earth dist.	-10254 Jun 27 j 01:39	20°♎48'19	19.08016 AU
direct	-10254 Sep 10 j 05:41	18°♎50'14	
evening set	-10254 Dec 09 j 00:46	21°♎47'54	
conjunction	-10254 Dec 25 j 10:56	22°♎43'07	-0°25'19
minimum elong	-10254 Dec 25 j 10:55	22°♎43'07	0°25'29
max. Earth dist.	-10254 Dec 26 j 01:50	22°♎45'13	21.06048 AU
morning rise	-10253 Jan 11 j 00:51	23°♎38'54	
retrograde	-10253 Apr 15 j 19:08	26°♎45'35	
opposition	-10253 Jul 01 j 20:50	24°♎45'51	-0°30'25
min. Earth dist.	-10253 Jul 01 j 09:15	24°♎47'03	19.03966 AU
direct	-10253 Sep 14 j 09:33	22°♎48'58	
evening set	-10253 Dec 13 j 09:05	25°♎47'13	
conjunction	-10253 Dec 29 j 20:16	26°♎42'40	-0°29'37
minimum elong	-10253 Dec 29 j 20:16	26°♎42'40	0°29'49
max. Earth dist.	-10253 Dec 30 j 08:24	26°♎44'23	21.01748 AU
morning rise	-10252 Jan 15 j 11:06	27°♎38'38	
	-10252 Mar 06 j 08:44	0°♏	
retrograde	-10252 Apr 19 j 04:24	0°♏45'36	
	-10252 Jun 02 j 12:51	30°℞♎	
opposition	-10252 Jul 05 j 01:37	28°♎45'42	-0°35'07
min. Earth dist.	-10252 Jul 04 j 15:33	28°♎46'44	18.99407 AU

Attention, astronomical year style is used: The year -10252 in astronomical counting style is the year 10253 BCE in historical counting style.

direct	-10252 Sep 17 j 14:47	26°♎48'28	
evening set	-10252 Dec 16 j 18:06	29°♎47'25	
	-10252 Dec 20 j 12:46	0°♏	
conjunction	-10251 Jan 02 j 06:14	0°♏43'05	-0°33'47
minimum elong	-10251 Jan 02 j 06:14	0°♏43'05	0°34'02
max. Earth dist.	-10251 Jan 02 j 16:16	0°♏44'30	20.96945 AU
morning rise	-10251 Jan 18 j 21:45	1°♏39'15	
retrograde	-10251 Apr 23 j 12:25	4°♏46'30	
opposition	-10251 Jul 09 j 06:33	2°♏46'28	-0°39'39
min. Earth dist.	-10251 Jul 08 j 23:14	2°♏47'13	18.94389 AU
direct	-10251 Sep 21 j 19:41	0°♏48'52	
evening set	-10251 Dec 21 j 03:42	3°♏48'34	
conjunction	-10250 Jan 06 j 16:44	4°♏44'29	-0°37'48
minimum elong	-10250 Jan 06 j 16:43	4°♏44'29	0°38'06
max. Earth dist.	-10250 Jan 07 j 00:01	4°♏45'31	20.91743 AU
morning rise	-10250 Jan 23 j 09:00	5°♏40'52	
retrograde	-10250 Apr 27 j 22:20	8°♏48'28	
opposition	-10250 Jul 13 j 11:45	6°♏48'15	-0°44'01
min. Earth dist.	-10250 Jul 13 j 05:48	6°♏48'52	18.89007 AU
direct	-10250 Sep 26 j 01:28	4°♏50'16	
evening set	-10250 Dec 25 j 13:53	7°♏50'50	
conjunction	-10249 Jan 11 j 03:49	8°♏46'59	-0°41'39
minimum elong	-10249 Jan 11 j 03:49	8°♏46'59	0°41'58
max. Earth dist.	-10249 Jan 11 j 09:15	8°♏47'46	20.86185 AU
morning rise	-10249 Jan 27 j 20:40	9°♏43'36	
retrograde	-10249 May 02 j 07:12	12°♏51'36	
opposition	-10249 Jul 17 j 17:22	10°♏51'14	-0°48'11
min. Earth dist.	-10249 Jul 17 j 13:57	10°♏51'35	18.83298 AU
direct	-10249 Sep 30 j 06:51	8°♏52'54	
evening set	-10249 Dec 30 j 01:01	11°♏54'22	
conjunction	-10248 Jan 15 j 15:45	12°♏50'48	-0°45'19
minimum elong	-10248 Jan 15 j 15:45	12°♏50'48	0°45'40
max. Earth dist.	-10248 Jan 15 j 18:19	12°♏51'10	20.80344 AU
morning rise	-10248 Feb 01 j 09:17	13°♏47'38	
	-10248 Feb 24 j 06:41	15°♏	
retrograde	-10248 May 05 j 18:24	16°♏56'05	
	-10248 Jul 19 j 04:53	15°℞♏	
opposition	-10248 Jul 20 j 23:10	14°♏55'35	-0°52'08
min. Earth dist.	-10248 Jul 20 j 21:14	14°♏55'47	18.77327 AU
direct	-10248 Oct 03 j 13:51	12°♏56'52	
	-10248 Dec 15 j 00:11	15°♏	
evening set	-10247 Jan 02 j 12:58	15°♏59'22	
conjunction	-10247 Jan 19 j 04:32	16°♏56'05	-0°48'46
minimum elong	-10247 Jan 19 j 04:32	16°♏56'05	0°49'08
max. Earth dist.	-10247 Jan 19 j 05:16	16°♏56'11	20.74239 AU
morning rise	-10247 Feb 04 j 22:28	17°♏53'10	
retrograde	-10247 May 10 j 04:21	21°♏02'06	
opposition	-10247 Jul 25 j 05:40	19°♏01'30	-0°55'52
min. Earth dist.	-10247 Jul 25 j 06:11	19°♏01'27	18.71110 AU
direct	-10247 Oct 07 j 19:36	17°♏02'26	
evening set	-10246 Jan 07 j 01:37	20°♏06'01	
conjunction	-10246 Jan 23 j 17:50	21°♏03'01	-0°52'00
minimum elong	-10246 Jan 23 j 17:50	21°♏03'01	0°52'25
max. Earth dist.	-10246 Jan 23 j 15:37	21°♏02'41	20.67922 AU
morning rise	-10246 Feb 09 j 12:19	22°♏00'20	
retrograde	-10246 May 14 j 17:04	25°♏09'50	
opposition	-10246 Jul 29 j 12:34	23°♏09'08	-0°59'19
min. Earth dist.	-10246 Jul 29 j 14:38	23°♏08'55	18.64690 AU
direct	-10246 Oct 12 j 04:13	21°♏09'43	
evening set	-10245 Jan 11 j 15:18	24°♏14'29	

conjunction	-10245 Jan 28 j 08:17	25°♏11'47	-0°54'59
minimum elong	-10245 Jan 28 j 08:17	25°♏11'46	0°55'26
max. Earth dist.	-10245 Jan 28 j 04:19	25°♏11'12	20.61389 AU
morning rise	-10245 Feb 14 j 03:01	26°♏09'21	
retrograde	-10245 May 19 j 04:02	29°♏19'25	
opposition	-10245 Aug 02 j 20:03	27°♏18'40	-1°02'31
min. Earth dist.	-10245 Aug 03 j 00:41	27°♏18'11	18.58053 AU
direct	-10245 Oct 16 j 11:12	25°♏18'54	
evening set	-10244 Jan 16 j 06:08	28°♏24'56	
conjunction	-10244 Feb 01 j 23:39	29°♏22'31	-0°57'43
minimum elong	-10244 Feb 01 j 23:39	29°♏22'31	0°58'11
max. Earth dist.	-10244 Feb 01 j 16:20	29°♏21'27	20.54654 AU
	-10244 Feb 12 j 19:39	0°♐	
morning rise	-10244 Feb 18 j 18:50	0°♐20'21	
retrograde	-10244 May 22 j 18:07	3°♐31'02	
opposition	-10244 Aug 06 j 04:12	1°♐30'14	-1°05'23
min. Earth dist.	-10244 Aug 06 j 10:45	1°♐29'32	18.51209 AU
	-10244 Sep 15 j 11:42	30°℞♏	
direct	-10244 Oct 19 j 21:26	29°♏30'05	
	-10244 Nov 22 j 23:26	0°♐	
evening set	-10243 Jan 19 j 21:54	2°♐37'26	
conjunction	-10243 Feb 05 j 16:02	3°♐35'20	-1°00'08
minimum elong	-10243 Feb 05 j 16:02	3°♐35'20	1°00'39
max. Earth dist.	-10243 Feb 05 j 06:52	3°♐34'00	20.47678 AU
morning rise	-10243 Feb 22 j 11:15	4°♐33'25	
retrograde	-10243 May 27 j 06:32	7°♐44'44	
opposition	-10243 Aug 10 j 13:06	5°♐43'52	-1°07'56
min. Earth dist.	-10243 Aug 10 j 22:14	5°♐42'54	18.44118 AU
direct	-10243 Oct 24 j 06:50	3°♐43'22	
evening set	-10242 Jan 24 j 14:47	6°♐52'03	
conjunction	-10242 Feb 10 j 09:16	7°♐50'15	-1°02'15
minimum elong	-10242 Feb 10 j 09:16	7°♐50'15	1°02'46
max. Earth dist.	-10242 Feb 09 j 20:23	7°♐48'22	20.40473 AU
morning rise	-10242 Feb 27 j 04:47	8°♐48'37	
retrograde	-10242 May 31 j 21:19	12°♐00'35	
opposition	-10242 Aug 14 j 22:45	9°♐59'38	-1°10'07
min. Earth dist.	-10242 Aug 15 j 09:59	9°♐58'26	18.36801 AU
direct	-10242 Oct 28 j 18:25	7°♐58'42	
evening set	-10241 Jan 29 j 08:29	11°♐08'46	
conjunction	-10241 Feb 15 j 03:33	12°♐07'17	-1°04'02
minimum elong	-10241 Feb 15 j 03:33	12°♐07'17	1°04'35
max. Earth dist.	-10241 Feb 14 j 12:50	12°♐05'08	20.33023 AU
morning rise	-10241 Mar 03 j 22:59	13°♐05'54	
retrograde	-10241 Jun 05 j 11:41	16°♐18'31	
opposition	-10241 Aug 19 j 09:14	14°♐17'27	-1°11'56
min. Earth dist.	-10241 Aug 19 j 22:54	14°♐16'00	18.29236 AU
direct	-10241 Nov 02 j 06:26	12°♐16'05	
evening set	-10240 Feb 03 j 03:27	15°♐27'33	
conjunction	-10240 Feb 19 j 22:42	16°♐26'22	-1°05'28
minimum elong	-10240 Feb 19 j 22:42	16°♐26'22	1°06'01
max. Earth dist.	-10240 Feb 19 j 04:04	16°♐23'38	20.25358 AU
morning rise	-10240 Mar 07 j 18:17	17°♐25'15	
retrograde	-10240 Jun 09 j 03:13	20°♐38'30	
opposition	-10240 Aug 22 j 20:22	18°♐37'19	-1°13'21
min. Earth dist.	-10240 Aug 23 j 12:15	18°♐35'37	18.21488 AU
direct	-10240 Nov 05 j 19:47	16°♐35'27	
evening set	-10239 Feb 06 j 23:09	19°♐48'21	
conjunction	-10239 Feb 23 j 18:50	20°♐47'29	-1°06'32
minimum elong	-10239 Feb 23 j 18:50	20°♐47'29	1°07'06
max. Earth dist.	-10239 Feb 22 j 22:42	20°♐44'30	20.17529 AU
morning rise	-10239 Mar 12 j 14:08	21°♐46'37	

Attention, astronomical year style is used: The year -10239 in astronomical counting style is the year 10240 BCE in historical counting style.

retrograde	-10239 Jun 13 j 19:15	25°♐00'29	
opposition	-10239 Aug 27 j 08:23	22°♐59'10	-1°14'22
min. Earth dist.	-10239 Aug 28 j 02:16	22°♐57'15	18.13608 AU
direct	-10239 Nov 10 j 09:48	20°♐56'49	
evening set	-10238 Feb 11 j 19:42	24°♐11'08	
conjunction	-10238 Feb 28 j 15:24	25°♐10'33	-1°07'14
minimum elong	-10238 Feb 28 j 15:23	25°♐10'33	1°07'49
max. Earth dist.	-10238 Feb 27 j 15:45	25°♐07'02	20.09624 AU
morning rise	-10238 Mar 17 j 10:42	26°♐09'56	
retrograde	-10238 Jun 18 j 12:05	29°♐24'28	
opposition	-10238 Aug 31 j 21:09	27°♐22'58	-1°14'57
min. Earth dist.	-10238 Sep 01 j 17:07	27°♐20'49	18.05705 AU
direct	-10238 Nov 15 j 00:43	25°♐20'05	
evening set	-10237 Feb 16 j 17:08	28°♐35'51	
conjunction	-10237 Mar 05 j 13:06	29°♐35'34	-1°07'32
minimum elong	-10237 Mar 05 j 13:06	29°♐35'34	1°08'06
max. Earth dist.	-10237 Mar 04 j 12:28	29°♐31'54	20.01724 AU
	-10237 Mar 12 j 08:55	0°♑	
morning rise	-10237 Mar 22 j 08:01	0°♑35'13	
retrograde	-10237 Jun 23 j 05:44	3°♑50'22	
opposition	-10237 Sep 05 j 10:37	1°♑48'43	-1°15'06
min. Earth dist.	-10237 Sep 06 j 08:06	1°♑46'24	17.97840 AU
	-10237 Oct 26 j 22:36	30°℞♐	
direct	-10237 Nov 19 j 16:20	29°♐45'20	
	-10237 Dec 13 j 05:55	0°♑	
evening set	-10236 Feb 21 j 15:39	3°♑02'34	
max. Earth dist.	-10236 Mar 08 j 07:39	3°♑58'24	19.93914 AU
conjunction	-10236 Mar 09 j 11:28	4°♑02'34	-1°07'26
minimum elong	-10236 Mar 09 j 11:28	4°♑02'34	1°08'02
morning rise	-10236 Mar 26 j 06:10	5°♑02'26	
retrograde	-10236 Jun 27 j 00:12	8°♑18'14	
opposition	-10236 Sep 09 j 01:07	6°♑16'26	-1°14'48
min. Earth dist.	-10236 Sep 10 j 00:30	6°♑13'54	17.90119 AU
direct	-10236 Nov 23 j 08:49	4°♑12'34	
evening set	-10235 Feb 25 j 14:42	7°♑31'14	
max. Earth dist.	-10235 Mar 13 j 06:14	8°♑27'15	19.86277 AU
conjunction	-10235 Mar 14 j 10:33	8°♑31'31	-1°06'56
minimum elong	-10235 Mar 14 j 10:33	8°♑31'31	1°07'31
morning rise	-10235 Mar 31 j 04:40	9°♑31'37	
retrograde	-10235 Jul 01 j 19:25	12°♑48'04	
opposition	-10235 Sep 13 j 16:28	10°♑46'09	-1°14'03
min. Earth dist.	-10235 Sep 14 j 16:42	10°♑43'31	17.82598 AU
direct	-10235 Nov 28 j 02:18	8°♑41'50	
evening set	-10234 Mar 02 j 14:47	12°♑01'57	
max. Earth dist.	-10234 Mar 18 j 03:24	12°♑57'49	19.78889 AU
conjunction	-10234 Mar 19 j 10:19	13°♑02'30	-1°06'01
minimum elong	-10234 Mar 19 j 10:19	13°♑02'30	1°06'36
morning rise	-10234 Apr 05 j 04:02	14°♑02'49	
retrograde	-10234 Jul 06 j 15:04	17°♑19'55	
opposition	-10234 Sep 18 j 08:43	15°♑17'53	-1°12'50
min. Earth dist.	-10234 Sep 19 j 10:43	15°♑15'04	17.75373 AU
direct	-10234 Dec 02 j 20:07	13°♑13'09	
evening set	-10233 Mar 07 j 15:31	16°♑34'43	
max. Earth dist.	-10233 Mar 23 j 03:43	17°♑30'47	19.71819 AU
conjunction	-10233 Mar 24 j 10:58	17°♑35'32	-1°04'42
minimum elong	-10233 Mar 24 j 10:58	17°♑35'32	1°05'16
morning rise	-10233 Apr 10 j 04:02	18°♑36'04	
retrograde	-10233 Jul 11 j 12:05	21°♑53'48	
opposition	-10233 Sep 23 j 01:58	19°♑51'43	-1°11'10
min. Earth dist.	-10233 Sep 24 j 04:20	19°♑48'51	17.68467 AU
direct	-10233 Dec 07 j 16:04	17°♑46'38	

evening set	-10232 Mar 11 j 17:17	21°♑09'37	
max. Earth dist.	-10232 Mar 27 j 02:59	22°♑05'35	19.65088 AU
conjunction	-10232 Mar 28 j 12:15	22°♑10'40	-1°02'57
minimum elong	-10232 Mar 28 j 12:15	22°♑10'40	1°03'30
morning rise	-10232 Apr 14 j 04:40	23°♑11'24	
retrograde	-10232 Jul 15 j 08:37	26°♑29'47	
opposition	-10232 Sep 26 j 20:16	24°♑27'41	-1°09'01
min. Earth dist.	-10232 Sep 28 j 00:23	24°♑24'36	17.61930 AU
direct	-10232 Dec 11 j 11:25	22°♑22'17	
evening set	-10231 Mar 16 j 19:40	25°♑46'40	
max. Earth dist.	-10231 Apr 01 j 04:45	26°♑42'48	19.58739 AU
conjunction	-10231 Apr 02 j 14:15	26°♑47'57	-1°00'47
minimum elong	-10231 Apr 02 j 14:16	26°♑47'57	1°01'20
morning rise	-10231 Apr 19 j 05:55	27°♑48'50	
	-10231 May 30 j 17:17	0°♒	
retrograde	-10231 Jul 20 j 07:29	1°♒07'53	
	-10231 Sep 10 j 04:38	30°℞♑	
opposition	-10231 Oct 01 j 15:30	29°♑05'46	-1°06'24
min. Earth dist.	-10231 Oct 02 j 19:39	29°♑02'41	17.55764 AU
direct	-10231 Dec 16 j 09:53	27°♑00'06	
	-10230 Mar 14 j 16:30	0°♒	
evening set	-10230 Mar 21 j 22:45	0°♒25'49	
max. Earth dist.	-10230 Apr 06 j 05:56	1°♒21'56	19.52755 AU
conjunction	-10230 Apr 07 j 16:45	1°♒27'19	-0°58'12
minimum elong	-10230 Apr 07 j 16:45	1°♒27'19	0°58'43
morning rise	-10230 Apr 24 j 07:36	2°♒28'22	
retrograde	-10230 Jul 25 j 05:05	5°♒48'02	
opposition	-10230 Oct 06 j 11:53	3°♒45'56	-1°03'19
min. Earth dist.	-10230 Oct 07 j 17:50	3°♒42'40	17.49971 AU
direct	-10230 Dec 21 j 07:08	1°♒40'01	
evening set	-10229 Mar 27 j 02:37	5°♒07'02	
max. Earth dist.	-10229 Apr 11 j 08:38	6°♒03'13	19.47141 AU
conjunction	-10229 Apr 12 j 20:00	6°♒08'42	-0°55'12
minimum elong	-10229 Apr 12 j 20:00	6°♒08'42	0°55'42
morning rise	-10229 Apr 29 j 09:59	7°♒09'54	
retrograde	-10229 Jul 30 j 05:11	10°♒30'09	
opposition	-10229 Oct 11 j 09:03	8°♒28'03	-0°59'47
min. Earth dist.	-10229 Oct 12 j 14:49	8°♒24'48	17.44530 AU
direct	-10229 Dec 26 j 08:17	6°♒21'55	
evening set	-10228 Mar 31 j 07:08	9°♒50'07	
max. Earth dist.	-10228 Apr 15 j 11:47	10°♒46'21	19.41875 AU
conjunction	-10228 Apr 16 j 23:48	10°♒51'57	-0°51'49
minimum elong	-10228 Apr 16 j 23:49	10°♒51'57	0°52'18
morning rise	-10228 May 03 j 12:43	11°♒53'15	
	-10228 Jul 11 j 20:16	15°♒	
retrograde	-10228 Aug 03 j 03:42	15°♒14'04	
	-10228 Aug 25 j 17:53	15°℞♒	
opposition	-10228 Oct 15 j 07:31	13°♒11'58	-0°55'49
min. Earth dist.	-10228 Oct 16 j 14:51	13°♒08'32	17.39456 AU
direct	-10228 Dec 30 j 07:47	11°♒05'36	
evening set	-10227 Apr 05 j 11:58	14°♒34'54	
	-10227 Apr 12 j 07:26	15°♒	
max. Earth dist.	-10227 Apr 20 j 15:06	15°♒31'07	19.36994 AU
conjunction	-10227 Apr 22 j 03:44	15°♒36'51	-0°48'03
minimum elong	-10227 Apr 22 j 03:45	15°♒36'51	0°48'30
morning rise	-10227 May 08 j 15:44	16°♒38'15	
retrograde	-10227 Aug 08 j 04:46	19°♒59'34	
opposition	-10227 Oct 20 j 06:40	17°♒57'26	-0°51'26
min. Earth dist.	-10227 Oct 21 j 13:22	17°♒54'05	17.34768 AU
direct	-10226 Jan 04 j 11:34	15°♒50'52	
evening set	-10226 Apr 10 j 17:11	19°♒21'08	

Attention, astronomical year style is used: The year -10226 in astronomical counting style is the year 10227 BCE in historical counting style.

max. Earth dist.	-10226 Apr 25 j 19:53	20°♒17'30	19.32510 AU
conjunction	-10226 Apr 27 j 08:11	20°♒23'11	-0°43'57
minimum elong	-10226 Apr 27 j 08:11	20°♒23'11	0°44'23
morning rise	-10226 May 13 j 18:58	21°♒24'40	
retrograde	-10226 Aug 13 j 03:54	24°♒46'24	
opposition	-10226 Oct 25 j 06:40	22°♒44'15	-0°46'41
min. Earth dist.	-10226 Oct 26 j 14:32	22°♒40'46	17.30507 AU
direct	-10225 Jan 09 j 12:58	20°♒37'29	
evening set	-10225 Apr 15 j 22:47	24°♒08'37	
max. Earth dist.	-10225 Apr 30 j 23:49	25°♒04'56	19.28493 AU
conjunction	-10225 May 02 j 12:41	25°♒10'44	-0°39'31
minimum elong	-10225 May 02 j 12:41	25°♒10'44	0°39'55
morning rise	-10225 May 18 j 22:31	26°♒12'16	
retrograde	-10225 Aug 18 j 05:40	29°♒34'24	
opposition	-10225 Oct 30 j 07:24	27°♒32'12	-0°41'36
min. Earth dist.	-10225 Oct 31 j 14:17	27°♒28'49	17.26732 AU
direct	-10224 Jan 14 j 17:55	25°♒25'14	
evening set	-10224 Apr 20 j 04:17	28°♒57'07	
max. Earth dist.	-10224 May 05 j 05:51	29°♒53'41	19.24978 AU
conjunction	-10224 May 06 j 17:16	29°♒59'16	-0°34'49
minimum elong	-10224 May 06 j 17:16	29°♒59'16	0°35'09
	-10224 May 06 j 21:53	0°♓	
morning rise	-10224 May 23 j 01:44	1°♓00'49	
retrograde	-10224 Aug 22 j 06:14	4°♓23'16	
opposition	-10224 Nov 03 j 09:01	2°♓21'02	-0°36'12
min. Earth dist.	-10224 Nov 04 j 16:17	2°♓17'37	17.23495 AU
direct	-10223 Jan 18 j 21:02	0°♓13'56	
evening set	-10223 Apr 25 j 09:55	3°♓46'24	
max. Earth dist.	-10223 May 10 j 10:06	4°♓42'56	19.22050 AU
conjunction	-10223 May 11 j 21:38	4°♓48'33	-0°29'51
minimum elong	-10223 May 11 j 21:38	4°♓48'34	0°30'09
morning rise	-10223 May 28 j 05:05	5°♓50'06	
retrograde	-10223 Aug 27 j 08:13	9°♓12'50	
opposition	-10223 Nov 08 j 11:03	7°♓10'33	-0°30'32
min. Earth dist.	-10223 Nov 09 j 16:56	7°♓07'17	17.20880 AU
direct	-10222 Jan 24 j 01:39	5°♓03'19	
evening set	-10222 Apr 30 j 15:12	8°♓36'15	
max. Earth dist.	-10222 May 15 j 16:45	9°♓33'08	19.19756 AU
conjunction	-10222 May 17 j 01:56	9°♓38'24	-0°24'40
minimum elong	-10222 May 17 j 01:57	9°♓38'24	0°24'55
morning rise	-10222 Jun 02 j 08:01	10°♓39'54	
retrograde	-10222 Sep 01 j 10:00	14°♓02'51	
opposition	-10222 Nov 13 j 13:50	12°♓00'32	-0°24'39
min. Earth dist.	-10222 Nov 14 j 19:13	11°♓57'20	17.18915 AU
direct	-10221 Jan 29 j 05:59	9°♓53'16	
evening set	-10221 May 05 j 20:36	13°♓26'32	
max. Earth dist.	-10221 May 20 j 21:04	14°♓23'23	19.18148 AU
conjunction	-10221 May 22 j 05:55	14°♓28'37	-0°19'19
minimum elong	-10221 May 22 j 05:55	14°♓28'37	0°19'32
morning rise	-10221 Jun 07 j 10:51	15°♓30'03	
retrograde	-10221 Sep 06 j 11:31	18°♓53'11	
opposition	-10221 Nov 18 j 17:02	16°♓50'51	-0°18'34
min. Earth dist.	-10221 Nov 19 j 20:46	16°♓47'49	17.17668 AU
direct	-10220 Feb 03 j 10:37	14°♓43'34	
evening set	-10220 May 10 j 01:36	18°♓17'03	
max. Earth dist.	-10220 May 25 j 03:51	19°♓14'17	19.17273 AU
conjunction	-10220 May 26 j 09:47	19°♓19'03	-0°13'49
minimum elong	-10220 May 26 j 09:47	19°♓19'03	0°13'59
behind sun begin	-10220 May 26 j 06:24	19°♓18'31	
behind sun end	-10220 May 26 j 13:09	19°♓19'34	
morning rise	-10220 Jun 11 j 13:19	20°♓20'23	
retrograde	-10220 Sep 10 j 13:52	23°♓43'39	
opposition	-10220 Nov 22 j 20:52	21°♓41'21	-0°12'22
min. Earth dist.	-10220 Nov 23 j 23:08	21°♓38'29	17.17155 AU
direct	-10219 Feb 07 j 16:41	19°♓34'09	
evening set	-10219 May 15 j 06:17	23°♓07'41	
max. Earth dist.	-10219 May 30 j 08:07	24°♓04'57	19.17143 AU
conjunction	-10219 May 31 j 13:02	24°♓09'34	-0°08'13
minimum elong	-10219 May 31 j 13:02	24°♓09'34	0°08'21
behind sun begin	-10219 May 31 j 07:09	24°♓08'39	
behind sun end	-10219 May 31 j 18:55	24°♓10'29	
morning rise	-10219 Jun 16 j 15:25	25°♓10'48	
retrograde	-10219 Sep 15 j 14:32	28°♓34'10	
opposition	-10219 Nov 28 j 00:59	26°♓31'54	-0°06'03
min. Earth dist.	-10219 Nov 29 j 01:39	26°♓29'14	17.17396 AU
direct	-10218 Feb 12 j 21:58	24°♓24'51	
evening set	-10218 May 20 j 10:36	27°♓58'21	
conjunction	-10218 Jun 05 j 16:09	29°♓00'05	-0°02'34
minimum elong	-10218 Jun 05 j 16:09	29°♓00'05	0°02'39
behind sun begin	-10218 Jun 05 j 09:30	28°♓59'02	
behind sun end	-10218 Jun 05 j 22:48	29°♓01'07	
max. Earth dist.	-10218 Jun 04 j 14:11	28°♓55'56	19.17753 AU
morning rise	-10218 Jun 21 j 17:12	0°♈01'10	
	-10218 Jun 21 j 09:46	0°♈	
retrograde	-10218 Sep 20 j 16:39	3°♈24'33	
asc. node	-10218 Nov 16 j 10:01	2°♈05'08	
opposition	-10218 Dec 03 j 05:19	1°♈22'24	0°00'18
min. Earth dist.	-10218 Dec 04 j 03:56	1°♈19'57	17.18339 AU
	-10217 Jan 06 j 18:55	30°℞♓	
direct	-10217 Feb 18 j 05:20	29°♓15'33	
	-10217 Mar 31 j 13:21	0°♈	
evening set	-10217 May 25 j 14:40	2°♈48'52	
conjunction	-10217 Jun 10 j 18:46	3°♈50'25	0°03'15
minimum elong	-10217 Jun 10 j 18:46	3°♈50'25	0°03'14
behind sun begin	-10217 Jun 10 j 12:09	3°♈49'23	
behind sun end	-10217 Jun 11 j 01:23	3°♈51'27	
max. Earth dist.	-10217 Jun 09 j 18:18	3°♈46'31	19.19043 AU
morning rise	-10217 Jun 26 j 18:37	4°♈51'20	
retrograde	-10217 Sep 25 j 17:02	8°♈14'43	
opposition	-10217 Dec 08 j 10:10	6°♈12'40	0°06'39
min. Earth dist.	-10217 Dec 09 j 07:26	6°♈10'23	17.19958 AU
direct	-10216 Feb 23 j 10:42	4°♈06'04	
evening set	-10216 May 29 j 18:00	7°♈39'03	
conjunction	-10216 Jun 14 j 20:47	8°♈40'24	0°08'54
minimum elong	-10216 Jun 14 j 20:47	8°♈40'24	0°08'55
behind sun begin	-10216 Jun 14 j 15:05	8°♈39'31	
behind sun end	-10216 Jun 15 j 02:29	8°♈41'17	
max. Earth dist.	-10216 Jun 13 j 23:03	8°♈36'56	19.20976 AU
morning rise	-10216 Jun 30 j 19:24	9°♈41'09	
retrograde	-10216 Sep 29 j 19:19	13°♈04'27	
opposition	-10216 Dec 12 j 15:10	11°♈02'31	0°12'57
min. Earth dist.	-10216 Dec 13 j 09:47	11°♈00'31	17.22173 AU
direct	-10215 Feb 27 j 18:17	8°♈56'11	
evening set	-10215 Jun 03 j 20:56	12°♈28'42	
conjunction	-10215 Jun 19 j 22:21	13°♈29'50	0°14'29
minimum elong	-10215 Jun 19 j 22:21	13°♈29'50	0°14'33
behind sun begin	-10215 Jun 19 j 19:23	13°♈29'22	
behind sun end	-10215 Jun 20 j 01:19	13°♈30'18	
max. Earth dist.	-10215 Jun 19 j 02:41	13°♈26'42	19.23474 AU
morning rise	-10215 Jul 05 j 19:45	14°♈30'23	
retrograde	-10215 Oct 04 j 19:29	17°♈53'33	
opposition	-10215 Dec 17 j 20:12	15°♈51'43	0°19'08

Attention, astronomical year style is used: The year -10215 in astronomical counting style is the year 10216 BCE in historical counting style.

min. Earth dist.	-10215 Dec 18 j 13:41	15°♈49'51	17.24946 AU	
direct	-10214 Mar 04 j 23:01	13°♈45'39		
evening set	-10214 Jun 08 j 23:08	17°♈17'35		
conjunction	-10214 Jun 24 j 23:14	18°♈18'28	0°19'57	
minimum elong	-10214 Jun 24 j 23:13	18°♈18'28	0°20'04	
max. Earth dist.	-10214 Jun 24 j 05:45	18°♈15'41	19.26505 AU	
morning rise	-10214 Jul 10 j 19:33	19°♈18'48		
retrograde	-10214 Oct 09 j 21:35	22°♈41'46		
opposition	-10214 Dec 23 j 01:11	20°♈40'02	0°25'10	
min. Earth dist.	-10214 Dec 23 j 15:38	20°♈38'29	17.28206 AU	
direct	-10213 Mar 10 j 05:51	18°♈34'15		
evening set	-10213 Jun 14 j 00:35	22°♈05'28		
conjunction	-10213 Jun 29 j 23:24	23°♈06'04	0°25'16	
minimum elong	-10213 Jun 29 j 23:24	23°♈06'04	0°25'25	
max. Earth dist.	-10213 Jun 29 j 08:35	23°♈03'43	19.29995 AU	
morning rise	-10213 Jul 15 j 18:32	24°♈06'10		
retrograde	-10213 Oct 14 j 21:13	27°♈28'53		
opposition	-10213 Dec 28 j 06:17	25°♈27'13	0°31'00	
min. Earth dist.	-10213 Dec 28 j 19:31	25°♈25'49	17.31927 AU	
direct	-10212 Mar 14 j 10:08	23°♈21'45		
evening set	-10212 Jun 18 j 01:16	26°♈52'06		
conjunction	-10212 Jul 03 j 22:46	27°♈52'26	0°30'22	
minimum elong	-10212 Jul 03 j 22:46	27°♈52'26	0°30'36	
max. Earth dist.	-10212 Jul 03 j 09:54	27°♈50'23	19.33947 AU	
morning rise	-10212 Jul 19 j 16:59	28°♈52'16		
	-10212 Aug 07 j 16:00	0°♉		
retrograde	-10212 Oct 18 j 22:42	2°♉14'40		
opposition	-10211 Jan 01 j 10:56	0°♉13'04	0°36'35	
min. Earth dist.	-10211 Jan 01 j 20:46	0°♉12'01	17.36091 AU	
	-10211 Jan 06 j 14:12	30°℞♈		
direct	-10211 Mar 19 j 16:04	28°♈07'54		
	-10211 May 25 j 20:49	0°♉		
evening set	-10211 Jun 23 j 00:51	1°♉37'17		
conjunction	-10211 Jul 08 j 21:16	2°♉37'19	0°35'15	
minimum elong	-10211 Jul 08 j 21:16	2°♉37'19	0°35'30	
max. Earth dist.	-10211 Jul 08 j 11:41	2°♉35'48	19.38326 AU	
morning rise	-10211 Jul 24 j 14:26	3°♉36'54		
retrograde	-10211 Oct 23 j 21:06	6°♉58'55		
opposition	-10210 Jan 06 j 15:22	4°♉57'22	0°41'53	
min. Earth dist.	-10210 Jan 06 j 23:48	4°♉56'28	17.40684 AU	
direct	-10210 Mar 24 j 19:36	2°♉52'31		
evening set	-10210 Jun 27 j 23:39	6°♉20'49		
conjunction	-10210 Jul 13 j 18:48	7°♉20'33	0°39'52	
minimum elong	-10210 Jul 13 j 18:48	7°♉20'33	0°40'10	
max. Earth dist.	-10210 Jul 13 j 11:01	7°♉19'19	19.43140 AU	
morning rise	-10210 Jul 29 j 11:13	8°♉19'52		
retrograde	-10210 Oct 28 j 21:24	11°♉41'27		
opposition	-10209 Jan 11 j 19:05	9°♉39'56	0°46'52	
min. Earth dist.	-10209 Jan 11 j 23:59	9°♉39'25	17.45710 AU	
direct	-10209 Mar 30 j 00:14	7°♉35'24		
evening set	-10209 Jul 02 j 21:18	11°♉02'33		
conjunction	-10209 Jul 18 j 15:30	12°♉01'58	0°44'11	
minimum elong	-10209 Jul 18 j 15:30	12°♉01'57	0°44'31	
max. Earth dist.	-10209 Jul 18 j 11:31	12°♉01'20	19.48383 AU	
morning rise	-10209 Aug 03 j 06:58	13°♉01'00		
	-10209 Sep 08 j 01:26	15°♉		
retrograde	-10209 Nov 02 j 18:34	16°♉22'06		
	-10208 Jan 01 j 01:15	15°℞♉		
opposition	-10208 Jan 16 j 22:37	14°♉20'38	0°51'29	
min. Earth dist.	-10208 Jan 17 j 01:38	14°♉20'19	17.51177 AU	
direct	-10208 Apr 03 j 03:09	12°♉16'27		
	-10208 Jun 24 j 23:51	15°♉		
evening set	-10208 Jul 06 j 17:55	15°♉42'21		
conjunction	-10208 Jul 22 j 10:57	16°♉41'26	0°48'10	
minimum elong	-10208 Jul 22 j 10:57	16°♉41'26	0°48'33	
max. Earth dist.	-10208 Jul 22 j 08:56	16°♉41'07	19.54080 AU	
morning rise	-10208 Aug 07 j 01:53	17°♉40'11		
retrograde	-10208 Nov 06 j 17:25	21°♉00'48		
opposition	-10207 Jan 21 j 01:23	18°♉59'22	0°55'45	
min. Earth dist.	-10207 Jan 21 j 00:45	18°♉59'26	17.57104 AU	
direct	-10207 Apr 08 j 06:22	16°♉55'33		
evening set	-10207 Jul 11 j 13:29	20°♉20'11		
conjunction	-10207 Jul 27 j 05:45	21°♉18'55	0°51'50	
minimum elong	-10207 Jul 27 j 05:45	21°♉18'55	0°52'15	
max. Earth dist.	-10207 Jul 27 j 07:46	21°♉19'14	19.60223 AU	
morning rise	-10207 Aug 11 j 19:53	22°♉17'23		
retrograde	-10207 Nov 11 j 13:04	25°♉37'27		
opposition	-10206 Jan 26 j 03:24	23°♉36'06	0°59'37	
min. Earth dist.	-10206 Jan 26 j 00:33	23°♉36'24	17.63466 AU	
direct	-10206 Apr 13 j 08:08	21°♉32'42		
evening set	-10206 Jul 16 j 08:11	24°♉56'01		
conjunction	-10206 Jul 31 j 23:26	25°♉54'25	0°55'08	
minimum elong	-10206 Jul 31 j 23:26	25°♉54'25	0°55'34	
max. Earth dist.	-10206 Aug 01 j 03:16	25°♉55'02	19.66800 AU	
morning rise	-10206 Aug 16 j 13:12	26°♉52'36		
	-10206 Oct 26 j 04:44	0°♊		
retrograde	-10206 Nov 16 j 10:20	0°♊12'07		
	-10206 Dec 07 j 23:08	30°℞♉		
opposition	-10205 Jan 31 j 04:49	28°♉10'53	1°03'04	
min. Earth dist.	-10205 Jan 30 j 22:36	28°♉11'31	17.70251 AU	
direct	-10205 Apr 18 j 09:01	26°♉07'55		
evening set	-10205 Jul 21 j 01:35	29°♉29'52		
	-10205 Jul 29 j 05:09	0°♊		
conjunction	-10205 Aug 05 j 16:16	0°♊27'58	0°58'04	
minimum elong	-10205 Aug 05 j 16:15	0°♊27'58	0°58'33	
max. Earth dist.	-10205 Aug 06 j 00:07	0°♊29'11	19.73769 AU	
morning rise	-10205 Aug 21 j 05:25	1°♊25'51		
retrograde	-10205 Nov 21 j 04:38	4°♊44'48		
opposition	-10204 Feb 05 j 05:38	2°♊43'43	1°06'06	
min. Earth dist.	-10204 Feb 04 j 20:55	2°♊44'37	17.77386 AU	
direct	-10204 Apr 22 j 09:12	0°♊41'14		
evening set	-10204 Jul 24 j 18:17	4°♊01'48		
conjunction	-10204 Aug 09 j 08:08	4°♊59'33	1°00'37	
minimum elong	-10204 Aug 09 j 08:08	4°♊59'33	1°01'07	
max. Earth dist.	-10204 Aug 09 j 17:44	5°♊01'02	19.81061 AU	
morning rise	-10204 Aug 24 j 21:08	5°♊57'10		
retrograde	-10204 Nov 25 j 00:16	9°♊15'32		
opposition	-10203 Feb 09 j 05:35	7°♊14'36	1°08'43	
min. Earth dist.	-10203 Feb 08 j 18:07	7°♊15'47	17.84823 AU	
direct	-10203 Apr 27 j 07:07	5°♊12'36		
evening set	-10203 Jul 29 j 09:50	8°♊31'46		
conjunction	-10203 Aug 13 j 23:18	9°♊29'12	1°02'47	
minimum elong	-10203 Aug 13 j 23:18	9°♊29'12	1°03'19	
max. Earth dist.	-10203 Aug 14 j 12:29	9°♊31'15	19.88599 AU	
morning rise	-10203 Aug 29 j 11:54	10°♊26'33		
retrograde	-10203 Nov 29 j 17:57	13°♊44'18		
opposition	-10202 Feb 14 j 04:46	11°♊43'32	1°10'52	
min. Earth dist.	-10202 Feb 13 j 14:52	11°♊44'58	17.92441 AU	
direct	-10202 May 02 j 05:24	9°♊42'02		
evening set	-10202 Aug 03 j 00:39	12°♊59'46		
conjunction	-10202 Aug 18 j 13:27	13°♊56'53	1°04'33	

Attention, astronomical year style is used: The year -10202 in astronomical counting style is the year 10203 BCE in historical counting style.

minimum elong	-10202 Aug 18 j 13:27	13°♊56'53	1°05'06
max. Earth dist.	-10202 Aug 19 j 04:07	13°♊59'09	19.96278 AU
morning rise	-10202 Sep 03 j 02:02	14°♊53'58	
retrograde	-10202 Dec 04 j 11:44	18°♊11'06	
min. Earth dist.	-10201 Feb 18 j 11:15	16°♊12'07	18.00177 AU
opposition	-10201 Feb 19 j 03:12	16°♊10'29	1°12'35
direct	-10201 May 07 j 00:35	14°♊09'27	
evening set	-10201 Aug 07 j 14:27	17°♊25'46	
conjunction	-10201 Aug 23 j 03:02	18°♊22'34	1°05'55
minimum elong	-10201 Aug 23 j 03:02	18°♊22'34	1°06'28
max. Earth dist.	-10201 Aug 23 j 20:49	18°♊25'18	20.04032 AU
morning rise	-10201 Sep 07 j 15:25	19°♊19'23	
retrograde	-10201 Dec 09 j 04:59	22°♊35'52	
min. Earth dist.	-10200 Feb 23 j 06:25	20°♊37'17	18.07934 AU
opposition	-10200 Feb 24 j 00:48	20°♊35'24	1°13'51
direct	-10200 May 10 j 21:32	18°♊34'50	
evening set	-10200 Aug 11 j 03:28	21°♊49'41	
conjunction	-10200 Aug 26 j 15:38	22°♊46'12	1°06'53
minimum elong	-10200 Aug 26 j 15:38	22°♊46'12	1°07'27
max. Earth dist.	-10200 Aug 27 j 10:39	22°♊49'06	20.11769 AU
morning rise	-10200 Sep 11 j 04:13	23°♊42'46	
retrograde	-10200 Dec 12 j 21:16	26°♊58'35	
opposition	-10199 Feb 27 j 21:34	24°♊58'14	1°14'40
min. Earth dist.	-10199 Feb 27 j 01:47	25°♊00'15	18.15653 AU
direct	-10199 May 15 j 14:40	22°♊58'04	
evening set	-10199 Aug 15 j 15:33	26°♊11'29	
conjunction	-10199 Aug 31 j 03:41	27°♊07'43	1°07'27
minimum elong	-10199 Aug 31 j 03:41	27°♊07'43	1°08'00
max. Earth dist.	-10199 Sep 01 j 01:15	27°♊11'00	20.19431 AU
morning rise	-10199 Sep 15 j 16:16	28°♊04'02	
	-10199 Oct 22 j 01:23	0°♋	
retrograde	-10199 Dec 17 j 13:18	1°♋19'09	
	-10198 Feb 15 j 12:44	30°℞♊	
opposition	-10198 Mar 04 j 17:07	29°♊18'55	1°15'03
min. Earth dist.	-10198 Mar 03 j 19:01	29°♊21'10	18.23250 AU
direct	-10198 May 20 j 10:00	27°♊19'09	
	-10198 Aug 11 j 04:22	0°♋	
evening set	-10198 Aug 20 j 02:52	0°♋31'08	
conjunction	-10198 Sep 04 j 14:48	1°♋27'05	1°07'37
minimum elong	-10198 Sep 04 j 14:48	1°♋27'05	1°08'12
max. Earth dist.	-10198 Sep 05 j 13:24	1°♋30'31	20.26955 AU
morning rise	-10198 Sep 20 j 03:45	2°♋23'10	
retrograde	-10198 Dec 22 j 03:57	5°♋37'36	
opposition	-10197 Mar 09 j 12:02	3°♋37'25	1°15'00
min. Earth dist.	-10197 Mar 08 j 13:01	3°♋39'45	18.30710 AU
direct	-10197 May 25 j 01:36	1°♋38'00	
evening set	-10197 Aug 24 j 12:59	4°♋48'33	
conjunction	-10197 Sep 09 j 01:05	5°♋44'15	1°07'25
minimum elong	-10197 Sep 09 j 01:05	5°♋44'15	1°08'00
max. Earth dist.	-10197 Sep 10 j 02:00	5°♋48'00	20.34334 AU
morning rise	-10197 Sep 24 j 14:17	6°♋40'07	
retrograde	-10197 Dec 26 j 18:22	9°♋53'50	
min. Earth dist.	-10196 Mar 12 j 04:24	7°♋56'16	18.38004 AU
opposition	-10196 Mar 13 j 05:50	7°♋53'42	1°14'32
direct	-10196 May 28 j 19:14	5°♋54'37	
evening set	-10196 Aug 27 j 22:30	9°♋03'46	
conjunction	-10196 Sep 12 j 10:37	9°♋59'13	1°06'50
minimum elong	-10196 Sep 12 j 10:37	9°♋59'13	1°07'25
max. Earth dist.	-10196 Sep 13 j 12:39	10°♋03'08	20.41545 AU
morning rise	-10196 Sep 28 j 00:21	10°♋54'53	
retrograde	-10196 Dec 30 j 07:23	14°♋07'54	

opposition	-10195 Mar 17 j 22:37	12°♋07'47	1°13'40
min. Earth dist.	-10195 Mar 16 j 20:35	12°♋10'25	18.45152 AU
direct	-10195 Jun 02 j 08:51	10°♋09'00	
evening set	-10195 Sep 01 j 07:02	13°♋16'49	
conjunction	-10195 Sep 16 j 19:30	14°♋12'02	1°05'55
minimum elong	-10195 Sep 16 j 19:30	14°♋12'02	1°06'30
max. Earth dist.	-10195 Sep 17 j 23:33	14°♋16'13	20.48617 AU
morning rise	-10195 Oct 02 j 09:38	15°♋07'30	
retrograde	-10194 Jan 03 j 20:09	18°♋19'49	
min. Earth dist.	-10194 Mar 21 j 09:53	16°♋22'37	18.52152 AU
opposition	-10194 Mar 22 j 14:19	16°♋19'45	1°12'25
direct	-10194 Jun 07 j 00:04	14°♋21'16	
evening set	-10194 Sep 05 j 14:52	17°♋27'47	
conjunction	-10194 Sep 21 j 03:28	18°♋22'47	1°04'39
minimum elong	-10194 Sep 21 j 03:28	18°♋22'47	1°05'12
max. Earth dist.	-10194 Sep 22 j 08:42	18°♋27'08	20.55541 AU
morning rise	-10194 Oct 06 j 18:14	19°♋18'05	
retrograde	-10193 Jan 08 j 07:31	22°♋29'45	
min. Earth dist.	-10193 Mar 26 j 00:23	20°♋32'38	18.59025 AU
opposition	-10193 Mar 27 j 05:19	20°♋29'43	1°10'48
direct	-10193 Jun 11 j 11:52	18°♋31'33	
evening set	-10193 Sep 09 j 21:59	21°♋36'51	
conjunction	-10193 Sep 25 j 11:04	22°♋31'39	1°03'03
minimum elong	-10193 Sep 25 j 11:05	22°♋31'39	1°03'37
max. Earth dist.	-10193 Sep 26 j 18:06	22°♋36'15	20.62348 AU
morning rise	-10193 Oct 11 j 02:24	23°♋26'47	
retrograde	-10192 Jan 12 j 19:35	26°♋37'50	
min. Earth dist.	-10192 Mar 29 j 11:57	24°♋41'01	18.65757 AU
opposition	-10192 Mar 30 j 19:11	24°♋37'53	1°08'50
direct	-10192 Jun 15 j 00:24	22°♋40'02	
evening set	-10192 Sep 13 j 04:33	25°♋44'11	
conjunction	-10192 Sep 28 j 18:02	26°♋38'48	1°01'09
minimum elong	-10192 Sep 28 j 18:02	26°♋38'48	1°01'41
max. Earth dist.	-10192 Sep 30 j 02:02	26°♋43'31	20.68993 AU
morning rise	-10192 Oct 14 j 10:10	27°♋33'48	
	-10192 Dec 04 j 12:17	0°♌	
retrograde	-10191 Jan 16 j 05:35	0°♌44'16	
	-10191 Mar 01 j 09:23	30°℞♋	
min. Earth dist.	-10191 Apr 03 j 01:06	28°♋47'33	18.72316 AU
opposition	-10191 Apr 04 j 08:22	28°♋44'25	1°06'31
direct	-10191 Jun 19 j 10:30	26°♋46'54	
evening set	-10191 Sep 17 j 10:32	29°♋49'58	
	-10191 Sep 20 j 08:17	0°♌	
conjunction	-10191 Oct 03 j 00:38	0°♌44'26	0°58'56
minimum elong	-10191 Oct 03 j 00:38	0°♌44'26	0°59'28
max. Earth dist.	-10191 Oct 04 j 09:57	0°♌49'20	20.75448 AU
morning rise	-10191 Oct 18 j 17:27	1°♌39'18	
retrograde	-10190 Jan 20 j 17:11	4°♌49'13	
min. Earth dist.	-10190 Apr 07 j 11:18	2°♌52'49	18.78646 AU
opposition	-10190 Apr 08 j 20:27	2°♌49'30	1°03'53
direct	-10190 Jun 23 j 21:01	0°♌52'19	
evening set	-10190 Sep 21 j 16:09	3°♌54'23	
conjunction	-10190 Oct 07 j 06:44	4°♌48'43	0°56'27
minimum elong	-10190 Oct 07 j 06:44	4°♌48'43	0°56'57
max. Earth dist.	-10190 Oct 08 j 16:45	4°♌53'41	20.81640 AU
morning rise	-10190 Oct 23 j 00:27	5°♌43'28	
retrograde	-10189 Jan 25 j 01:54	8°♌52'53	
min. Earth dist.	-10189 Apr 11 j 23:24	6°♌56'34	18.84696 AU
opposition	-10189 Apr 13 j 08:05	6°♌53'17	1°00'57
direct	-10189 Jun 28 j 05:22	4°♌56'26	
evening set	-10189 Sep 25 j 21:12	7°♌57'34	

Attention, astronomical year style is used: The year -10189 in astronomical counting style is the year 10190 BCE in historical counting style.

conjunction	-10189 Oct 11 j 12:34	8°♌51'46	0°53'41	
minimum elong	-10189 Oct 11 j 12:34	8°♌51'46	0°54'10	
max. Earth dist.	-10189 Oct 12 j 23:26	8°♌56'51	20.87530 AU	
morning rise	-10189 Oct 27 j 07:07	9°♌46'25		
retrograde	-10188 Jan 29 j 13:04	12°♌55'23		
min. Earth dist.	-10188 Apr 15 j 08:48	10°♌59'18	18.90396 AU	
opposition	-10188 Apr 16 j 18:49	10°♌55'54	0°57'44	
direct	-10188 Jul 01 j 14:42	8°♌59'21		
evening set	-10188 Sep 29 j 02:13	11°♌59'36		
conjunction	-10188 Oct 14 j 18:13	12°♌53'43	0°50'39	
minimum elong	-10188 Oct 14 j 18:13	12°♌53'43	0°51'08	
max. Earth dist.	-10188 Oct 16 j 05:17	12°♌58'48	20.93021 AU	
morning rise	-10188 Oct 30 j 13:45	13°♌48'18		
	-10188 Nov 21 j 22:29	15°♌		
retrograde	-10187 Feb 01 j 20:33	16°♌56'48		
min. Earth dist.	-10187 Apr 19 j 19:55	15°♌00'44	18.95676 AU	
	-10187 Apr 20 j 03:14	15°℞♌		
opposition	-10187 Apr 21 j 04:51	14°♌57'26	0°54'14	
direct	-10187 Jul 05 j 21:19	13°♌01'09		
	-10187 Sep 14 j 12:35	15°♌		
evening set	-10187 Oct 03 j 06:52	16°♌00'37		
conjunction	-10187 Oct 18 j 23:43	16°♌54'38	0°47'24	
minimum elong	-10187 Oct 18 j 23:44	16°♌54'38	0°47'50	
max. Earth dist.	-10187 Oct 20 j 10:57	16°♌59'43	20.98072 AU	
morning rise	-10187 Nov 03 j 20:08	17°♌49'09		
retrograde	-10186 Feb 06 j 06:46	20°♌57'13		
min. Earth dist.	-10186 Apr 24 j 04:25	19°♌01'20	19.00473 AU	
opposition	-10186 Apr 25 j 14:13	18°♌57'57	0°50'29	
direct	-10186 Jul 10 j 05:31	17°♌01'53		
evening set	-10186 Oct 07 j 11:15	20°♌00'37		
conjunction	-10186 Oct 23 j 04:50	20°♌54'34	0°43'55	
minimum elong	-10186 Oct 23 j 04:50	20°♌54'34	0°44'20	
max. Earth dist.	-10186 Oct 24 j 15:51	20°♌59'36	21.02602 AU	
morning rise	-10186 Nov 08 j 02:18	21°♌49'02		
retrograde	-10185 Feb 10 j 13:24	24°♌56'44		
opposition	-10185 Apr 29 j 23:11	22°♌57'31	0°46'30	
min. Earth dist.	-10185 Apr 28 j 14:45	23°♌00'45	19.04737 AU	
direct	-10185 Jul 14 j 11:13	21°♌01'37		
evening set	-10185 Oct 11 j 15:27	23°♌59'40		
conjunction	-10185 Oct 27 j 10:02	24°♌53'33	0°40'14	
minimum elong	-10185 Oct 27 j 10:02	24°♌53'33	0°40'37	
max. Earth dist.	-10185 Oct 28 j 20:45	24°♌58'32	21.06597 AU	
morning rise	-10185 Nov 12 j 08:30	25°♌47'59		
retrograde	-10184 Feb 14 j 22:34	28°♌55'18		
min. Earth dist.	-10184 May 01 j 22:19	26°♌59'23	19.08444 AU	
opposition	-10184 May 03 j 07:13	26°♌56'06	0°42'19	
direct	-10184 Jul 17 j 18:12	25°♌00'19		
evening set	-10184 Oct 14 j 19:33	27°♌57'45		
conjunction	-10184 Oct 30 j 15:00	28°♌51'37	0°36'23	
minimum elong	-10184 Oct 30 j 15:00	28°♌51'37	0°36'45	
max. Earth dist.	-10184 Nov 01 j 01:08	28°♌56'29	21.10019 AU	
morning rise	-10184 Nov 15 j 14:35	29°♌46'02		
	-10184 Nov 19 j 19:37	0°♍		
retrograde	-10183 Feb 18 j 04:43	2°♍52'58		
min. Earth dist.	-10183 May 06 j 07:35	0°♍56'53	19.11588 AU	
opposition	-10183 May 07 j 14:50	0°♍53'46	0°37'57	
	-10183 May 30 j 21:38	30°℞♌		
direct	-10183 Jul 21 j 23:00	28°♌58'03		
	-10183 Sep 09 j 20:00	0°♍		
evening set	-10183 Oct 18 j 23:20	1°♍54'55		
conjunction	-10183 Nov 03 j 19:48	2°♍48'46	0°32'22	
minimum elong	-10183 Nov 03 j 19:48	2°♍48'46	0°32'41	
max. Earth dist.	-10183 Nov 05 j 05:28	2°♍53'34	21.12904 AU	
morning rise	-10183 Nov 19 j 20:23	3°♍43'10		
retrograde	-10182 Feb 22 j 12:37	6°♍49'47		
opposition	-10182 May 11 j 21:38	4°♍50'32	0°33'26	
min. Earth dist.	-10182 May 10 j 14:02	4°♍53'42	19.14208 AU	
direct	-10182 Jul 26 j 04:58	2°♍54'51		
evening set	-10182 Oct 23 j 03:05	5°♍51'15		
conjunction	-10182 Nov 08 j 00:27	6°♍45'05	0°28'14	
minimum elong	-10182 Nov 08 j 00:28	6°♍45'05	0°28'31	
max. Earth dist.	-10182 Nov 09 j 09:34	6°♍49'47	21.15276 AU	
morning rise	-10182 Nov 24 j 02:11	7°♍39'30		
retrograde	-10181 Feb 26 j 18:26	10°♍45'49		
min. Earth dist.	-10181 May 14 j 22:05	8°♍49'31	19.16347 AU	
opposition	-10181 May 16 j 04:03	8°♍46'31	0°28'47	
direct	-10181 Jul 30 j 08:29	6°♍50'51		
evening set	-10181 Oct 27 j 06:41	9°♍46'50		
conjunction	-10181 Nov 12 j 05:11	10°♍40'42	0°23'58	
minimum elong	-10181 Nov 12 j 05:11	10°♍40'42	0°24'13	
max. Earth dist.	-10181 Nov 13 j 13:46	10°♍45'19	21.17201 AU	
morning rise	-10181 Nov 28 j 07:59	11°♍35'08		
retrograde	-10180 Mar 02 j 02:03	14°♍41'12		
min. Earth dist.	-10180 May 18 j 03:39	12°♍44'53	19.18047 AU	
opposition	-10180 May 19 j 09:52	12°♍41'51	0°24'01	
direct	-10180 Aug 02 j 13:37	10°♍46'10		
evening set	-10180 Oct 30 j 10:31	13°♍41'52		
conjunction	-10180 Nov 15 j 09:58	14°♍35'45	0°19'36	
minimum elong	-10180 Nov 15 j 09:58	14°♍35'45	0°19'49	
max. Earth dist.	-10180 Nov 16 j 17:48	14°♍40'16	21.18681 AU	
morning rise	-10180 Dec 01 j 13:52	15°♍30'15		
retrograde	-10179 Mar 06 j 07:30	18°♍36'06		
min. Earth dist.	-10179 May 22 j 10:50	16°♍39'35	19.19320 AU	
opposition	-10179 May 23 j 15:15	16°♍36'44	0°19'08	
direct	-10179 Aug 06 j 16:02	14°♍41'02		
evening set	-10179 Nov 03 j 14:17	17°♍36'32		
conjunction	-10179 Nov 19 j 14:52	18°♍30'28	0°15'10	
minimum elong	-10179 Nov 19 j 14:52	18°♍30'28	0°15'21	
behind sun begin	-10179 Nov 19 j 12:55	18°♍30'12		
behind sun end	-10179 Nov 19 j 16:49	18°♍30'44		
max. Earth dist.	-10179 Nov 20 j 21:56	18°♍34'52	21.19759 AU	
morning rise	-10179 Dec 05 j 19:50	19°♍25'01		
retrograde	-10178 Mar 10 j 15:23	22°♍30'44		
opposition	-10178 May 27 j 20:19	20°♍31'20	0°14'11	
min. Earth dist.	-10178 May 26 j 15:50	20°♍34'12	19.20185 AU	
direct	-10178 Aug 10 j 20:23	18°♍35'39		
evening set	-10178 Nov 07 j 18:11	21°♍31'00		
conjunction	-10178 Nov 23 j 19:45	22°♍25'01	0°10'39	
minimum elong	-10178 Nov 23 j 19:46	22°♍25'01	0°10'48	
behind sun begin	-10178 Nov 23 j 14:42	22°♍24'20		
behind sun end	-10178 Nov 24 j 00:50	22°♍25'43		
max. Earth dist.	-10178 Nov 25 j 01:55	22°♍29'16	21.20412 AU	
morning rise	-10178 Dec 10 j 01:51	23°♍19'39		
retrograde	-10177 Mar 14 j 21:03	26°♍25'17		
min. Earth dist.	-10177 May 30 j 22:48	24°♍28'34	19.20621 AU	
opposition	-10177 Jun 01 j 01:17	24°♍25'54	0°09'09	
direct	-10177 Aug 14 j 22:31	22°♍30'11		
evening set	-10177 Nov 11 j 22:25	25°♍25'31		
conjunction	-10177 Nov 28 j 01:11	26°♍19'38	0°06'06	
minimum elong	-10177 Nov 28 j 01:11	26°♍19'37	0°06'13	
behind sun begin	-10177 Nov 27 j 18:53	26°♍18'46		
behind sun end	-10177 Nov 28 j 07:28	26°♍20'29		

Attention, astronomical year style is used: The year -10177 in astronomical counting style is the year 10178 BCE in historical counting style.

max. Earth dist.	-10177 Nov 29 j 06:13	26°♍23'43	21.20642 AU
morning rise	-10177 Dec 14 j 08:20	27°♍14'20	
	-10176 Feb 18 j 06:27	0°♎	
retrograde	-10176 Mar 18 j 05:12	0°♎19'56	
	-10176 Apr 16 j 11:30	30°℞♍	
min. Earth dist.	-10176 Jun 03 j 03:42	28°♍23'11	19.20615 AU
opposition	-10176 Jun 04 j 05:46	28°♍20'34	0°04'05
direct	-10176 Aug 18 j 02:19	26°♍24'50	
evening set	-10176 Nov 15 j 03:07	29°♍20'14	
	-10176 Nov 27 j 00:18	0°♎	
conjunction	-10176 Dec 01 j 06:54	0°♎14'27	0°01'29
minimum elong	-10176 Dec 01 j 06:54	0°♎14'27	0°01'33
behind sun begin	-10176 Dec 01 j 00:14	0°♎13'33	
behind sun end	-10176 Dec 01 j 13:33	0°♎15'22	
max. Earth dist.	-10176 Dec 02 j 10:32	0°♎18'21	21.20394 AU
morning rise	-10176 Dec 17 j 15:08	1°♎09'17	
retrograde	-10175 Mar 22 j 11:19	4°♎14'53	
desc. node	-10175 Mar 28 j 07:15	4°♎14'05	
min. Earth dist.	-10175 Jun 07 j 10:40	2°♎17'55	19.20117 AU
opposition	-10175 Jun 08 j 10:20	2°♎15'32	-0°01'01
direct	-10175 Aug 22 j 04:35	0°♎19'46	
evening set	-10175 Nov 19 j 08:01	3°♎15'20	
conjunction	-10175 Dec 05 j 12:55	4°♎09'40	-0°03'16
minimum elong	-10175 Dec 05 j 12:54	4°♎09'40	0°03'14
behind sun begin	-10175 Dec 05 j 06:17	4°♎08'46	
behind sun end	-10175 Dec 05 j 19:32	4°♎10'34	
max. Earth dist.	-10175 Dec 06 j 14:58	4°♎13'20	21.19649 AU
morning rise	-10175 Dec 21 j 22:08	5°♎04'36	
retrograde	-10174 Mar 26 j 19:39	8°♎10'18	
opposition	-10174 Jun 12 j 14:41	6°♎10'57	-0°06'08
min. Earth dist.	-10174 Jun 11 j 15:48	6°♎13'16	19.19099 AU
direct	-10174 Aug 26 j 08:14	4°♎15'07	
evening set	-10174 Nov 23 j 13:36	7°♎10'56	
conjunction	-10174 Dec 09 j 19:28	8°♎05'24	-0°07'52
minimum elong	-10174 Dec 09 j 19:29	8°♎05'24	0°07'53
behind sun begin	-10174 Dec 09 j 13:30	8°♎04'35	
behind sun end	-10174 Dec 10 j 01:28	8°♎06'13	
max. Earth dist.	-10174 Dec 10 j 19:41	8°♎08'48	21.18348 AU
morning rise	-10174 Dec 26 j 05:43	9°♎00'29	
retrograde	-10173 Mar 31 j 02:06	12°♎06'17	
opposition	-10173 Jun 16 j 19:06	10°♎06'55	-0°11'14
min. Earth dist.	-10173 Jun 15 j 22:58	10°♎08'58	19.17508 AU
direct	-10173 Aug 30 j 10:48	8°♎10'59	
evening set	-10173 Nov 27 j 19:36	11°♎07'07	
conjunction	-10173 Dec 14 j 02:39	12°♎01'44	-0°12'26
minimum elong	-10173 Dec 14 j 02:39	12°♎01'44	0°12'30
behind sun begin	-10173 Dec 13 j 22:23	12°♎01'09	
behind sun end	-10173 Dec 14 j 06:55	12°♎02'19	
max. Earth dist.	-10173 Dec 15 j 00:39	12°♎04'50	21.16470 AU
morning rise	-10173 Dec 30 j 13:52	12°♎56'58	
retrograde	-10172 Apr 03 j 11:07	16°♎02'54	
opposition	-10172 Jun 19 j 23:28	14°♎03'31	-0°16'17
min. Earth dist.	-10172 Jun 19 j 04:30	14°♎05'26	19.15315 AU
direct	-10172 Sep 02 j 14:57	12°♎07'24	
evening set	-10172 Dec 01 j 02:15	15°♎03'56	
conjunction	-10172 Dec 17 j 10:17	15°♎58'44	-0°16'58
minimum elong	-10172 Dec 17 j 10:16	15°♎58'44	0°17'04
max. Earth dist.	-10172 Dec 18 j 05:59	16°♎01'30	21.13958 AU
morning rise	-10171 Jan 02 j 22:24	16°♎54'07	
retrograde	-10171 Apr 07 j 17:34	20°♎00'13	
min. Earth dist.	-10171 Jun 23 j 11:51	18°♎02'24	19.12493 AU
opposition	-10171 Jun 24 j 03:53	18°♎00'45	-0°21'16
direct	-10171 Sep 06 j 17:47	16°♎04'27	
evening set	-10171 Dec 05 j 09:16	19°♎01'26	
conjunction	-10171 Dec 21 j 18:23	19°♎56'25	-0°21'26
minimum elong	-10171 Dec 21 j 18:22	19°♎56'25	0°21'35
max. Earth dist.	-10171 Dec 22 j 11:39	19°♎58'50	21.10851 AU
morning rise	-10170 Jan 07 j 07:25	20°♎51'57	
retrograde	-10170 Apr 12 j 03:14	23°♎58'16	
opposition	-10170 Jun 28 j 08:19	21°♎58'42	-0°26'09
min. Earth dist.	-10170 Jun 27 j 17:33	22°♎00'12	19.09087 AU
direct	-10170 Sep 10 j 22:40	20°♎02'08	
evening set	-10170 Dec 09 j 16:46	22°♎59'37	
conjunction	-10170 Dec 26 j 02:52	23°♎54'48	-0°25'48
minimum elong	-10170 Dec 26 j 02:52	23°♎54'48	0°25'58
max. Earth dist.	-10170 Dec 26 j 17:56	23°♎56'55	21.07164 AU
morning rise	-10169 Jan 11 j 16:47	24°♎50'32	
retrograde	-10169 Apr 16 j 09:55	27°♎57'04	
opposition	-10169 Jul 02 j 12:56	25°♎57'22	-0°30'56
min. Earth dist.	-10169 Jul 02 j 01:04	25°♎58'35	19.05132 AU
direct	-10169 Sep 15 j 01:38	24°♎00'30	
evening set	-10169 Dec 14 j 00:56	26°♎58'36	
conjunction	-10169 Dec 30 j 12:05	27°♎53'59	-0°30'04
minimum elong	-10169 Dec 30 j 12:04	27°♎53'59	0°30'17
max. Earth dist.	-10169 Dec 31 j 00:38	27°♎55'46	21.02974 AU
morning rise	-10168 Jan 16 j 02:50	28°♎49'54	
	-10168 Feb 07 j 11:19	0°♏	
retrograde	-10168 Apr 19 j 20:02	1°♏56'42	
	-10168 Jul 04 j 10:48	30°℞♎	
opposition	-10168 Jul 05 j 17:26	29°♎56'51	-0°35'34
min. Earth dist.	-10168 Jul 05 j 06:55	29°♎57'56	19.00706 AU
direct	-10168 Sep 18 j 07:22	27°♎59'40	
	-10168 Nov 28 j 23:19	0°♏	
evening set	-10168 Dec 17 j 09:46	0°♏58'26	
conjunction	-10167 Jan 02 j 21:49	1°♏54'03	-0°34'11
minimum elong	-10167 Jan 02 j 21:48	1°♏54'03	0°34'26
max. Earth dist.	-10167 Jan 03 j 08:15	1°♏55'32	20.98326 AU
morning rise	-10167 Jan 19 j 13:16	2°♏50'11	
retrograde	-10167 Apr 24 j 03:28	5°♏57'16	
opposition	-10167 Jul 09 j 22:19	3°♏57'17	-0°40'04
min. Earth dist.	-10167 Jul 09 j 14:33	3°♏58'05	18.95863 AU
direct	-10167 Sep 22 j 10:46	1°♏59'45	
evening set	-10167 Dec 21 j 18:59	4°♏59'17	
conjunction	-10166 Jan 07 j 07:57	5°♏55'08	-0°38'09
minimum elong	-10166 Jan 07 j 07:56	5°♏55'08	0°38'26
max. Earth dist.	-10166 Jan 07 j 15:58	5°♏56'16	20.93309 AU
morning rise	-10166 Jan 24 j 00:09	6°♏51'28	
retrograde	-10166 Apr 28 j 13:53	9°♏58'56	
opposition	-10166 Jul 14 j 03:22	7°♏58'47	-0°44'22
min. Earth dist.	-10166 Jul 13 j 20:51	7°♏59'28	18.90676 AU
direct	-10166 Sep 26 j 17:12	6°♏00'55	
evening set	-10166 Dec 26 j 05:08	9°♏01'18	
conjunction	-10165 Jan 11 j 18:58	9°♏57'24	-0°41'58
minimum elong	-10165 Jan 11 j 18:58	9°♏57'24	0°42'17
max. Earth dist.	-10165 Jan 12 j 00:58	9°♏58'15	20.87954 AU
morning rise	-10165 Jan 28 j 11:46	10°♏53'57	
retrograde	-10165 May 02 j 22:33	14°♏01'48	
opposition	-10165 Jul 18 j 08:46	12°♏01'33	-0°48'30
min. Earth dist.	-10165 Jul 18 j 04:56	12°♏01'57	18.85175 AU
direct	-10165 Sep 30 j 21:47	10°♏03'20	
evening set	-10165 Dec 30 j 16:04	13°♏04'38	
conjunction	-10164 Jan 16 j 06:45	14°♏01'00	-0°45'35

Attention, astronomical year style is used: The year -10164 in astronomical counting style is the year 10165 BCE in historical counting style.

minimum elong	-10164 Jan 16 j 06:45	14°♏01'00	0°45'55	
max. Earth dist.	-10164 Jan 16 j 10:02	14°♏01'28	20.82322 AU	
morning rise	-10164 Feb 02 j 00:13	14°♏57'47		
	-10164 Feb 02 j 16:07	15°♏		
retrograde	-10164 May 06 j 09:41	18°♏06'05		
opposition	-10164 Jul 21 j 14:32	16°♏05'43	-0°52'24	
min. Earth dist.	-10164 Jul 21 j 12:05	16°♏05'58	18.79406 AU	
	-10164 Aug 18 j 11:00	15°℞♏		
direct	-10164 Oct 04 j 04:37	14°♏07'09		
	-10164 Nov 19 j 02:36	15°♏		
evening set	-10163 Jan 03 j 03:50	17°♏09'28		
conjunction	-10163 Jan 19 j 19:18	18°♏06'07	-0°48'59	
minimum elong	-10163 Jan 19 j 19:17	18°♏06'07	0°49'23	
max. Earth dist.	-10163 Jan 19 j 20:34	18°♏06'18	20.76409 AU	
morning rise	-10163 Feb 05 j 13:09	19°♏03'08		
retrograde	-10163 May 10 j 19:46	22°♏11'54		
opposition	-10163 Jul 25 j 20:51	20°♏11'28	-0°56'04	
min. Earth dist.	-10163 Jul 25 j 21:03	20°♏11'27	18.73368 AU	
direct	-10163 Oct 08 j 10:59	18°♏12'34		
evening set	-10162 Jan 07 j 16:29	21°♏15'58		
conjunction	-10162 Jan 24 j 08:38	22°♏12'54	-0°52'11	
minimum elong	-10162 Jan 24 j 08:38	22°♏12'54	0°52'36	
max. Earth dist.	-10162 Jan 24 j 06:58	22°♏12'39	20.70258 AU	
morning rise	-10162 Feb 10 j 03:02	23°♏10'10		
retrograde	-10162 May 15 j 07:35	26°♏19'28		
opposition	-10162 Jul 30 j 03:35	24°♏18'57	-0°59'29	
min. Earth dist.	-10162 Jul 30 j 05:20	24°♏18'46	18.67091 AU	
direct	-10162 Oct 12 j 18:34	22°♏19'42		
evening set	-10161 Jan 12 j 06:04	25°♏24'16		
conjunction	-10161 Jan 28 j 22:59	26°♏21'29	-0°55'07	
minimum elong	-10161 Jan 28 j 22:58	26°♏21'29	0°55'34	
max. Earth dist.	-10161 Jan 28 j 19:14	26°♏20'57	20.63840 AU	
morning rise	-10161 Feb 14 j 17:40	27°♏19'00		
	-10161 Apr 15 j 19:23	0°♐		
retrograde	-10161 May 19 j 19:20	0°♐28'52		
	-10161 Jun 23 j 00:15	30°℞♏		
opposition	-10161 Aug 03 j 11:04	28°♏28'17	-1°02'36	
min. Earth dist.	-10161 Aug 03 j 15:37	28°♏27'48	18.60536 AU	
direct	-10161 Oct 17 j 02:45	26°♏28'41		
evening set	-10160 Jan 16 j 20:50	29°♏34'28		
	-10160 Jan 24 j 08:27	0°♐		
conjunction	-10160 Feb 02 j 14:16	0°♐31'59	-0°57'47	
minimum elong	-10160 Feb 02 j 14:16	0°♐31'59	0°58'16	
max. Earth dist.	-10160 Feb 02 j 07:06	0°♐30'57	20.57150 AU	
morning rise	-10160 Feb 19 j 09:23	1°♐29'45		
retrograde	-10160 May 23 j 08:09	4°♐40'12		
opposition	-10160 Aug 06 j 19:02	2°♐39'33	-1°05'26	
min. Earth dist.	-10160 Aug 07 j 01:28	2°♐38'52	18.53706 AU	
direct	-10160 Oct 20 j 12:14	0°♐39'33		
evening set	-10159 Jan 20 j 12:32	3°♐46'38		
conjunction	-10159 Feb 06 j 06:35	4°♐44'26	-1°00'09	
minimum elong	-10159 Feb 06 j 06:35	4°♐44'26	1°00'39	
max. Earth dist.	-10159 Feb 05 j 21:15	4°♐43'05	20.50159 AU	
morning rise	-10159 Feb 23 j 01:45	5°♐42'28		
retrograde	-10159 May 27 j 21:09	8°♐53'31		
opposition	-10159 Aug 11 j 03:55	6°♐52'46	-1°07'55	
min. Earth dist.	-10159 Aug 11 j 13:06	6°♐51'48	18.46571 AU	
direct	-10159 Oct 24 j 21:49	4°♐52'22		
evening set	-10158 Jan 25 j 05:04	8°♐00'45		
conjunction	-10158 Feb 10 j 23:31	8°♐58'51	-1°02'13	
minimum elong	-10158 Feb 10 j 23:31	8°♐58'51	1°02'44	
max. Earth dist.	-10158 Feb 10 j 10:31	8°♐56'58	20.42886 AU	
morning rise	-10158 Feb 27 j 19:00	9°♐57'08		
retrograde	-10158 Jun 01 j 11:27	13°♐08'48		
opposition	-10158 Aug 15 j 13:25	11°♐07'56	-1°10'02	
min. Earth dist.	-10158 Aug 16 j 00:36	11°♐06'44	18.39164 AU	
direct	-10158 Oct 29 j 09:31	9°♐07'04		
evening set	-10157 Jan 29 j 22:40	12°♐16'48		
conjunction	-10157 Feb 15 j 17:40	13°♐15'13	-1°03'57	
minimum elong	-10157 Feb 15 j 17:40	13°♐15'13	1°04'28	
max. Earth dist.	-10157 Feb 15 j 02:41	13°♐13'02	20.35338 AU	
morning rise	-10157 Mar 04 j 13:05	14°♐13'45		
retrograde	-10157 Jun 06 j 01:26	17°♐26'01		
opposition	-10157 Aug 19 j 23:34	15°♐25'01	-1°11'48	
min. Earth dist.	-10157 Aug 20 j 13:22	15°♐23'33	18.31502 AU	
direct	-10157 Nov 02 j 20:45	13°♐23'41		
evening set	-10156 Feb 03 j 17:19	16°♐34'47		
conjunction	-10156 Feb 20 j 12:33	17°♐33'30	-1°05'19	
minimum elong	-10156 Feb 20 j 12:33	17°♐33'30	1°05'53	
max. Earth dist.	-10156 Feb 19 j 17:51	17°♐30'46	20.27586 AU	
morning rise	-10156 Mar 08 j 08:07	18°♐32'18		
retrograde	-10156 Jun 09 j 17:02	21°♐45'12		
opposition	-10156 Aug 23 j 10:30	19°♐44'01	-1°13'09	
min. Earth dist.	-10156 Aug 24 j 02:19	19°♐42'20	18.23679 AU	
direct	-10156 Nov 06 j 10:22	17°♐42'11		
evening set	-10155 Feb 07 j 12:35	20°♐54'41		
conjunction	-10155 Feb 24 j 08:13	21°♐53'43	-1°06'20	
minimum elong	-10155 Feb 24 j 08:12	21°♐53'43	1°06'55	
max. Earth dist.	-10155 Feb 23 j 12:06	21°♐50'45	20.19693 AU	
morning rise	-10155 Mar 13 j 03:30	22°♐52'45		
retrograde	-10155 Jun 14 j 08:18	26°♐06'16		
opposition	-10155 Aug 27 j 22:12	24°♐04'57	-1°14'07	
min. Earth dist.	-10155 Aug 28 j 16:06	24°♐03'02	18.15754 AU	
direct	-10155 Nov 10 j 23:37	22°♐02'37		
evening set	-10154 Feb 12 j 08:55	25°♐16'32		
max. Earth dist.	-10154 Feb 28 j 05:06	26°♐12'22	20.11762 AU	
conjunction	-10154 Mar 01 j 04:34	26°♐15'51	-1°06'59	
minimum elong	-10154 Mar 01 j 04:34	26°♐15'51	1°07'34	
morning rise	-10154 Mar 17 j 23:53	27°♐15'09		
	-10154 May 16 j 14:34	0°♑		
retrograde	-10154 Jun 19 j 00:50	0°♑29'19		
	-10154 Jul 22 j 19:06	30°℞♐		
opposition	-10154 Sep 01 j 10:33	28°♐27'49	-1°14'39	
min. Earth dist.	-10154 Sep 02 j 06:20	28°♐25'42	18.07842 AU	
direct	-10154 Nov 15 j 14:35	26°♐24'58		
evening set	-10153 Feb 17 j 06:00	29°♐40'21		
	-10153 Feb 22 j 20:31	0°♑		
max. Earth dist.	-10153 Mar 05 j 01:31	0°♑36'20	20.03866 AU	
conjunction	-10153 Mar 06 j 01:57	0°♑39'58	-1°07'15	
minimum elong	-10153 Mar 06 j 01:57	0°♑39'58	1°07'50	
morning rise	-10153 Mar 22 j 20:52	1°♑39'31		
retrograde	-10153 Jun 23 j 18:06	4°♑54'20		
opposition	-10153 Sep 05 j 23:52	2°♑52'42	-1°14'45	
min. Earth dist.	-10153 Sep 06 j 21:14	2°♑50'23	17.99995 AU	
direct	-10153 Nov 20 j 05:57	0°♑49'22		
evening set	-10152 Feb 22 j 04:08	4°♑06'12		
conjunction	-10152 Mar 09 j 23:54	5°♑06'07	-1°07'07	
minimum elong	-10152 Mar 09 j 23:54	5°♑06'07	1°07'41	
max. Earth dist.	-10152 Mar 08 j 20:23	5°♑02'00	19.96085 AU	
morning rise	-10152 Mar 26 j 18:36	6°♑05'54		
retrograde	-10152 Jun 27 j 11:49	9°♑21'23		
opposition	-10152 Sep 09 j 14:01	7°♑19'38	-1°14'25	

Attention, astronomical year style is used: The year -10152 in astronomical counting style is the year 10153 BCE in historical counting style.

min. Earth dist.	-10152 Sep 10 j 13:06	7°♉17'08	17.92313 AU
direct	-10152 Nov 23 j 22:12	5°♉15'50	
evening set	-10151 Feb 26 j 02:55	8°♉34'09	
conjunction	-10151 Mar 14 j 22:46	9°♉34'21	-1°06'35
minimum elong	-10151 Mar 14 j 22:47	9°♉34'21	1°07'10
max. Earth dist.	-10151 Mar 13 j 18:47	9°♉30'09	19.88496 AU
morning rise	-10151 Mar 31 j 16:54	10°♉34'22	
retrograde	-10151 Jul 02 j 07:25	13°♉50'31	
opposition	-10151 Sep 14 j 05:09	11°♉48'40	-1°13'38
min. Earth dist.	-10151 Sep 15 j 05:13	11°♉46'04	17.84843 AU
direct	-10151 Nov 28 j 15:23	9°♉44'29	
evening set	-10150 Mar 03 j 02:35	13°♉04'15	
conjunction	-10150 Mar 19 j 22:09	14°♉04'44	-1°05'38
minimum elong	-10150 Mar 19 j 22:09	14°♉04'44	1°06'12
max. Earth dist.	-10150 Mar 18 j 15:31	14°♉00'06	19.81157 AU
morning rise	-10150 Apr 05 j 15:56	15°♉04'59	
retrograde	-10150 Jul 07 j 02:33	18°♉21'49	
opposition	-10150 Sep 18 j 21:12	16°♉19'54	-1°12'23
min. Earth dist.	-10150 Sep 19 j 22:57	16°♉17'06	17.77652 AU
direct	-10150 Dec 03 j 08:56	14°♉15'19	
evening set	-10149 Mar 08 j 03:09	17°♉36'34	
conjunction	-10149 Mar 24 j 22:37	18°♉37'19	-1°04'17
minimum elong	-10149 Mar 24 j 22:37	18°♉37'19	1°04'51
max. Earth dist.	-10149 Mar 23 j 15:40	18°♉32'37	19.74106 AU
morning rise	-10149 Apr 10 j 15:42	19°♉37'46	
retrograde	-10149 Jul 12 j 00:07	22°♉55'17	
opposition	-10149 Sep 23 j 14:08	20°♉53'21	-1°10'40
min. Earth dist.	-10149 Sep 24 j 16:33	20°♉50'28	17.70746 AU
direct	-10149 Dec 08 j 03:59	18°♉48'26	
evening set	-10148 Mar 12 j 04:45	22°♉11'09	
conjunction	-10148 Mar 28 j 23:43	23°♉12'08	-1°02'30
minimum elong	-10148 Mar 28 j 23:44	23°♉12'08	1°03'04
max. Earth dist.	-10148 Mar 27 j 14:32	23°♉07'04	19.67354 AU
morning rise	-10148 Apr 14 j 16:13	24°♉12'48	
retrograde	-10148 Jul 15 j 20:41	27°♉31'00	
opposition	-10148 Sep 27 j 08:17	25°♉29'02	-1°08'30
min. Earth dist.	-10148 Sep 28 j 12:27	25°♉25'58	17.64160 AU
direct	-10148 Dec 11 j 23:34	23°♉23'49	
evening set	-10147 Mar 17 j 06:50	26°♉47'56	
max. Earth dist.	-10147 Apr 01 j 16:01	27°♉44'01	19.60917 AU
conjunction	-10147 Apr 03 j 01:27	27°♉49'09	-1°00'18
minimum elong	-10147 Apr 03 j 01:27	27°♉49'09	1°00'50
morning rise	-10147 Apr 19 j 17:09	28°♉50'00	
	-10147 May 10 j 03:27	0°♒	
retrograde	-10147 Jul 20 j 19:26	2°♒08'51	
opposition	-10147 Oct 02 j 03:21	0°♒06'53	-1°05'51
min. Earth dist.	-10147 Oct 03 j 07:48	0°♒03'47	17.57869 AU
	-10147 Oct 04 j 18:24	30°℞♉	
direct	-10147 Dec 16 j 20:52	28°♉01'23	
	-10146 Feb 24 j 17:12	0°♒	
evening set	-10146 Mar 22 j 09:56	1°♒26'51	
max. Earth dist.	-10146 Apr 06 j 16:44	2°♒22'52	19.54772 AU
conjunction	-10146 Apr 08 j 03:56	2°♒28'17	-0°57'42
minimum elong	-10146 Apr 08 j 03:57	2°♒28'17	0°58'14
morning rise	-10146 Apr 24 j 18:50	3°♒29'17	
retrograde	-10146 Jul 25 j 16:49	6°♒48'46	
opposition	-10146 Oct 06 j 23:25	4°♒46'47	-1°02'45
min. Earth dist.	-10146 Oct 08 j 05:43	4°♒43'28	17.51885 AU
direct	-10146 Dec 21 j 18:47	2°♒41'00	
evening set	-10145 Mar 27 j 13:40	6°♒07'46	
max. Earth dist.	-10145 Apr 11 j 19:22	7°♒03'50	19.48937 AU
conjunction	-10145 Apr 13 j 07:06	7°♒09'22	-0°54'41
minimum elong	-10145 Apr 13 j 07:06	7°♒09'22	0°55'11
morning rise	-10145 Apr 29 j 21:07	8°♒10'31	
retrograde	-10145 Jul 30 j 16:33	11°♒30'34	
opposition	-10145 Oct 11 j 20:31	9°♒28'33	-0°59'12
min. Earth dist.	-10145 Oct 13 j 02:43	9°♒25'15	17.46199 AU
direct	-10145 Dec 26 j 19:14	7°♒22'30	
evening set	-10144 Mar 31 j 17:56	10°♒50'27	
max. Earth dist.	-10144 Apr 15 j 21:57	11°♒46'31	19.43407 AU
conjunction	-10144 Apr 17 j 10:37	11°♒52'13	-0°51'18
minimum elong	-10144 Apr 17 j 10:37	11°♒52'13	0°51'46
morning rise	-10144 May 03 j 23:36	12°♒53'28	
	-10144 Jun 12 j 02:14	15°♒	
retrograde	-10144 Aug 03 j 14:33	16°♒14'05	
	-10144 Sep 26 j 23:27	15°℞♒	
opposition	-10144 Oct 15 j 18:42	14°♒12'00	-0°55'14
min. Earth dist.	-10144 Oct 17 j 02:27	14°♒08'32	17.40852 AU
direct	-10144 Dec 30 j 19:35	12°♒05'41	
	-10143 Mar 27 j 06:04	15°♒	
evening set	-10143 Apr 05 j 22:37	15°♒34'42	
max. Earth dist.	-10143 Apr 21 j 01:22	16°♒30'48	19.38253 AU
conjunction	-10143 Apr 22 j 14:28	16°♒36'36	-0°47'32
minimum elong	-10143 Apr 22 j 14:29	16°♒36'36	0°48'00
morning rise	-10143 May 09 j 02:32	17°♒37'57	
retrograde	-10143 Aug 08 j 15:03	20°♒59'03	
opposition	-10143 Oct 20 j 17:29	18°♒56'54	-0°50'52
min. Earth dist.	-10143 Oct 22 j 00:37	18°♒53'30	17.35894 AU
direct	-10142 Jan 04 j 22:19	16°♒50'19	
evening set	-10142 Apr 11 j 03:33	20°♒20'19	
max. Earth dist.	-10142 Apr 26 j 05:41	21°♒16'32	19.33508 AU
conjunction	-10142 Apr 27 j 18:38	21°♒22'19	-0°43'26
minimum elong	-10142 Apr 27 j 18:38	21°♒22'19	0°43'51
morning rise	-10142 May 14 j 05:32	22°♒23'45	
retrograde	-10142 Aug 13 j 14:05	25°♒45'17	
opposition	-10142 Oct 25 j 17:18	23°♒43'04	-0°46'07
min. Earth dist.	-10142 Oct 27 j 01:34	23°♒39'32	17.31382 AU
direct	-10141 Jan 10 j 00:16	21°♒36'15	
evening set	-10141 Apr 16 j 08:50	25°♒07'07	
max. Earth dist.	-10141 May 01 j 09:36	26°♒03'19	19.29253 AU
conjunction	-10141 May 02 j 22:50	26°♒09'11	-0°39'01
minimum elong	-10141 May 02 j 22:51	26°♒09'11	0°39'24
morning rise	-10141 May 19 j 08:45	27°♒10'40	
	-10141 Jul 15 j 14:18	0°♓	
retrograde	-10141 Aug 18 j 15:34	0°♓32'35	
	-10141 Sep 22 j 09:16	30°℞♒	
opposition	-10141 Oct 30 j 17:42	28°♒30'17	-0°41'03
min. Earth dist.	-10141 Nov 01 j 00:51	28°♒26'53	17.27387 AU
direct	-10140 Jan 15 j 04:38	26°♒23'15	
evening set	-10140 Apr 20 j 14:09	29°♒54'52	
	-10140 Apr 21 j 23:30	0°♓	
max. Earth dist.	-10140 May 05 j 15:21	0°♓51'20	19.25541 AU
conjunction	-10140 May 07 j 03:14	0°♓56'59	-0°34'20
minimum elong	-10140 May 07 j 03:14	0°♓56'59	0°34'40
morning rise	-10140 May 23 j 11:49	1°♓58'29	
retrograde	-10140 Aug 22 j 15:28	5°♓20'44	
opposition	-10140 Nov 03 j 19:05	3°♓18'24	-0°35'41
min. Earth dist.	-10140 Nov 05 j 02:35	3°♓14'57	17.23978 AU
direct	-10139 Jan 19 j 07:14	1°♓11'12	
evening set	-10139 Apr 25 j 19:25	4°♓43'25	
max. Earth dist.	-10139 May 10 j 19:28	5°♓39'53	19.22459 AU
conjunction	-10139 May 12 j 07:15	5°♓45'33	-0°29'23

Attention, astronomical year style is used: The year -10139 in astronomical counting style is the year 10140 BCE in historical counting style.

minimum elong	-10139 May 12 j 07:15	5°♓45'33	0°29'41
morning rise	-10139 May 28 j 14:49	6°♓47'03	
retrograde	-10139 Aug 27 j 17:47	10°♓09'37	
opposition	-10139 Nov 08 j 20:56	8°♓07'13	-0°30'02
min. Earth dist.	-10139 Nov 10 j 02:50	8°♓03'57	17.21225 AU
direct	-10138 Jan 24 j 12:19	5°♓59'54	
evening set	-10138 May 01 j 00:39	9°♓32'38	
max. Earth dist.	-10138 May 16 j 02:01	10°♓29'27	19.20046 AU
conjunction	-10138 May 17 j 11:29	10°♓34'45	-0°24'14
minimum elong	-10138 May 17 j 11:29	10°♓34'45	0°24'30
morning rise	-10138 Jun 02 j 17:39	11°♓36'14	
retrograde	-10138 Sep 01 j 18:24	14°♓59'02	
opposition	-10138 Nov 13 j 23:26	12°♓56'38	-0°24'11
min. Earth dist.	-10138 Nov 15 j 04:58	12°♓53'24	17.19162 AU
direct	-10137 Jan 29 j 15:43	10°♓49'16	
evening set	-10137 May 06 j 06:00	14°♓22'24	
max. Earth dist.	-10137 May 21 j 06:21	15°♓19'13	19.18359 AU
conjunction	-10137 May 22 j 15:25	15°♓24'28	-0°18'54
minimum elong	-10137 May 22 j 15:25	15°♓24'28	0°19'06
morning rise	-10137 Jun 07 j 20:29	16°♓25'54	
retrograde	-10137 Sep 06 j 21:03	19°♓48'55	
opposition	-10137 Nov 19 j 02:34	17°♓46'32	-0°18'08
min. Earth dist.	-10137 Nov 20 j 06:16	17°♓43'31	17.17844 AU
direct	-10136 Feb 03 j 21:11	15°♓39'13	
evening set	-10136 May 10 j 10:51	19°♓12'36	
conjunction	-10136 May 26 j 19:10	20°♓14'36	-0°13'25
minimum elong	-10136 May 26 j 19:10	20°♓14'36	0°13'36
behind sun begin	-10136 May 26 j 15:31	20°♓14'02	
behind sun end	-10136 May 26 j 22:49	20°♓15'10	
max. Earth dist.	-10136 May 25 j 13:03	20°♓09'48	19.17416 AU
morning rise	-10136 Jun 11 j 22:48	21°♓15'56	
retrograde	-10136 Sep 10 j 22:27	24°♓39'09	
opposition	-10136 Nov 23 j 06:19	22°♓36'50	-0°11'56
min. Earth dist.	-10136 Nov 24 j 08:48	22°♓33'57	17.17260 AU
direct	-10135 Feb 08 j 01:40	20°♓29'38	
evening set	-10135 May 15 j 15:41	24°♓03'09	
conjunction	-10135 May 31 j 22:33	25°♓05'03	-0°07'51
minimum elong	-10135 May 31 j 22:33	25°♓05'03	0°07'59
behind sun begin	-10135 May 31 j 16:35	25°♓04'07	
behind sun end	-10135 Jun 01 j 04:32	25°♓05'58	
max. Earth dist.	-10135 May 30 j 17:16	25°♓00'22	19.17210 AU
morning rise	-10135 Jun 17 j 01:05	26°♓06'17	
retrograde	-10135 Sep 16 j 00:53	29°♓29'38	
opposition	-10135 Nov 28 j 10:15	27°♓27'24	-0°05'39
min. Earth dist.	-10135 Nov 29 j 11:05	27°♓24'43	17.17413 AU
direct	-10134 Feb 13 j 07:16	25°♓20'22	
evening set	-10134 May 20 j 20:04	28°♓53'54	
max. Earth dist.	-10134 Jun 04 j 23:27	29°♓51'28	19.17710 AU
conjunction	-10134 Jun 06 j 01:48	29°♓55'40	-0°02'13
minimum elong	-10134 Jun 06 j 01:46	29°♓55'40	0°02'16
behind sun begin	-10134 Jun 05 j 19:07	29°♓54'38	
behind sun end	-10134 Jun 06 j 08:25	29°♓56'42	
	-10134 Jun 07 j 04:55	0°♈	
morning rise	-10134 Jun 22 j 02:57	0°♈56'46	
retrograde	-10134 Sep 21 j 02:37	4°♈20'12	
asc. node	-10134 Oct 25 j 19:15	3°♈47'54	
opposition	-10134 Dec 03 j 14:49	2°♈18'06	0°00'41
min. Earth dist.	-10134 Dec 04 j 13:52	2°♈15'36	17.18228 AU
direct	-10133 Feb 18 j 13:26	0°♈11'17	
evening set	-10133 May 26 j 00:13	3°♈44'41	
max. Earth dist.	-10133 Jun 10 j 03:23	4°♈42'16	19.18850 AU
conjunction	-10133 Jun 11 j 04:26	4°♈46'16	0°03'36
minimum elong	-10133 Jun 11 j 04:25	4°♈46'16	0°03'35
behind sun begin	-10133 Jun 10 j 21:49	4°♈45'14	
behind sun end	-10133 Jun 11 j 11:01	4°♈47'17	
morning rise	-10133 Jun 27 j 04:24	5°♈47'13	
retrograde	-10133 Sep 26 j 04:03	9°♈10'42	
opposition	-10133 Dec 08 j 19:44	7°♈08'41	0°07'01
min. Earth dist.	-10133 Dec 09 j 17:20	7°♈06'21	17.19681 AU
direct	-10132 Feb 23 j 19:39	5°♈02'07	
evening set	-10132 May 30 j 03:48	8°♈35'14	
max. Earth dist.	-10132 Jun 14 j 08:30	9°♈33'04	19.20601 AU
conjunction	-10132 Jun 15 j 06:44	9°♈36'37	0°09'13
minimum elong	-10132 Jun 15 j 06:43	9°♈36'37	0°09'16
behind sun begin	-10132 Jun 15 j 01:07	9°♈35'45	
behind sun end	-10132 Jun 15 j 12:20	9°♈37'30	
morning rise	-10132 Jul 01 j 05:26	10°♈37'24	
retrograde	-10132 Sep 30 j 05:48	14°♈00'50	
opposition	-10132 Dec 13 j 00:50	11°♈58'55	0°13'17
min. Earth dist.	-10132 Dec 13 j 20:01	11°♈56'52	17.21703 AU
direct	-10131 Feb 28 j 02:57	9°♈52'37	
evening set	-10131 Jun 04 j 06:48	13°♈25'17	
max. Earth dist.	-10131 Jun 19 j 11:56	14°♈23'12	19.22898 AU
conjunction	-10131 Jun 20 j 08:21	14°♈26'28	0°14'46
minimum elong	-10131 Jun 20 j 08:21	14°♈26'28	0°14'51
behind sun begin	-10131 Jun 20 j 05:40	14°♈26'02	
behind sun end	-10131 Jun 20 j 11:02	14°♈26'53	
morning rise	-10131 Jul 06 j 05:54	15°♈27'03	
retrograde	-10131 Oct 05 j 06:13	18°♈50'22	
opposition	-10131 Dec 18 j 06:03	16°♈48'33	0°19'27
min. Earth dist.	-10131 Dec 18 j 23:59	16°♈46'38	17.24266 AU
direct	-10130 Mar 05 j 08:37	14°♈42'29	
evening set	-10130 Jun 09 j 09:12	18°♈14'36	
conjunction	-10130 Jun 25 j 09:26	19°♈15'31	0°20'12
minimum elong	-10130 Jun 25 j 09:25	19°♈15'31	0°20'20
max. Earth dist.	-10130 Jun 24 j 15:26	19°♈12'39	19.25716 AU
morning rise	-10130 Jul 11 j 05:49	20°♈15'54	
retrograde	-10130 Oct 10 j 07:52	23°♈39'01	
opposition	-10130 Dec 23 j 11:06	21°♈37'16	0°25'27
min. Earth dist.	-10130 Dec 24 j 02:06	21°♈35'40	17.27318 AU
direct	-10129 Mar 10 j 15:50	19°♈31'29	
evening set	-10129 Jun 14 j 10:53	23°♈02'53	
conjunction	-10129 Jun 30 j 09:49	24°♈03'33	0°25'29
minimum elong	-10129 Jun 30 j 09:48	24°♈03'32	0°25'40
max. Earth dist.	-10129 Jun 29 j 18:17	24°♈01'04	19.29016 AU
morning rise	-10129 Jul 16 j 05:03	25°♈03'41	
retrograde	-10129 Oct 15 j 07:31	28°♈26'32	
opposition	-10129 Dec 28 j 16:16	26°♈24'52	0°31'15
min. Earth dist.	-10129 Dec 29 j 05:57	26°♈23'24	17.30863 AU
direct	-10128 Mar 14 j 20:07	24°♈19'21	
evening set	-10128 Jun 18 j 11:32	27°♈49'53	
conjunction	-10128 Jul 04 j 09:10	28°♈50'16	0°30'34
minimum elong	-10128 Jul 04 j 09:10	28°♈50'16	0°30'47
max. Earth dist.	-10128 Jul 03 j 19:56	28°♈48'09	19.32809 AU
morning rise	-10128 Jul 20 j 03:29	29°♈50'09	
	-10128 Jul 22 j 19:00	0°♉	
retrograde	-10128 Oct 19 j 08:53	3°♉12'41	
opposition	-10127 Jan 01 j 20:58	1°♉11'03	0°36'47
min. Earth dist.	-10127 Jan 02 j 07:14	1°♉09'57	17.34885 AU
	-10127 Jan 31 j 12:18	30°♓℞	
direct	-10127 Mar 20 j 02:08	29°♈05'48	
	-10127 May 04 j 22:02	0°♉	
evening set	-10127 Jun 23 j 11:19	2°♉35'22	

Attention, astronomical year style is used: The year -10127 in astronomical counting style is the year 10128 BCE in historical counting style.

conjunction	-10127 Jul 09 j 07:50	3°♉35'28	0°35'24
minimum elong	-10127 Jul 09 j 07:50	3°♉35'28	0°35'41
max. Earth dist.	-10127 Jul 08 j 21:47	3°♉33'52	19.37069 AU
morning rise	-10127 Jul 25 j 01:06	4°♉35'06	
retrograde	-10127 Oct 24 j 07:41	7°♉57'14	
opposition	-10126 Jan 07 j 01:18	5°♉55'37	0°42'03
min. Earth dist.	-10126 Jan 07 j 10:08	5°♉54'41	17.39388 AU
direct	-10126 Mar 25 j 05:21	3°♉50'40	
evening set	-10126 Jun 28 j 10:11	7°♉19'10	
conjunction	-10126 Jul 14 j 05:27	8°♉18'56	0°39'59
minimum elong	-10126 Jul 14 j 05:26	8°♉18'56	0°40'17
max. Earth dist.	-10126 Jul 13 j 21:32	8°♉17'41	19.41820 AU
morning rise	-10126 Jul 29 j 21:57	9°♉18'18	
retrograde	-10126 Oct 29 j 07:41	12°♉40'00	
opposition	-10125 Jan 12 j 05:11	10°♉38'25	0°46'59
min. Earth dist.	-10125 Jan 12 j 10:17	10°♉37'52	17.44378 AU
direct	-10125 Mar 30 j 10:23	8°♉33'47	
evening set	-10125 Jul 03 j 07:49	12°♉01'07	
conjunction	-10125 Jul 19 j 02:06	13°♉00'34	0°44'16
minimum elong	-10125 Jul 19 j 02:06	13°♉00'34	0°44'37
max. Earth dist.	-10125 Jul 18 j 22:02	12°♉59'56	19.47050 AU
morning rise	-10125 Aug 03 j 17:38	13°♉59'39	
	-10125 Aug 20 j 15:16	15°♉	
retrograde	-10125 Nov 03 j 05:22	17°♉20'53	
opposition	-10124 Jan 17 j 08:48	15°♉19'20	0°51'34
min. Earth dist.	-10124 Jan 17 j 12:00	15°♉19'00	17.49858 AU
	-10124 Jan 25 j 01:09	15°℞♉	
direct	-10124 Apr 03 j 13:07	13°♉15'03	
	-10124 Jun 07 j 12:10	15°♉	
evening set	-10124 Jul 07 j 04:40	16°♉41'10	
conjunction	-10124 Jul 22 j 21:47	17°♉40'17	0°48'13
minimum elong	-10124 Jul 22 j 21:47	17°♉40'17	0°48'36
max. Earth dist.	-10124 Jul 22 j 19:47	17°♉39'58	19.52780 AU
morning rise	-10124 Aug 07 j 12:45	18°♉39'05	
retrograde	-10124 Nov 07 j 03:47	21°♉59'49	
opposition	-10123 Jan 21 j 11:31	19°♉58'20	0°55'47
min. Earth dist.	-10123 Jan 21 j 10:55	19°♉58'23	17.55833 AU
direct	-10123 Apr 08 j 16:29	17°♉54'26	
evening set	-10123 Jul 12 j 00:19	21°♉19'16	
conjunction	-10123 Jul 27 j 16:41	22°♉18'04	0°51'51
minimum elong	-10123 Jul 27 j 16:41	22°♉18'04	0°52'15
max. Earth dist.	-10123 Jul 27 j 18:40	22°♉18'23	19.58979 AU
morning rise	-10123 Aug 12 j 06:52	23°♉16'35	
retrograde	-10123 Nov 12 j 00:12	26°♉36'47	
opposition	-10122 Jan 26 j 13:49	24°♉35'24	0°59'37
min. Earth dist.	-10122 Jan 26 j 11:07	24°♉35'41	17.62249 AU
direct	-10122 Apr 13 j 18:13	22°♉31'57	
evening set	-10122 Jul 16 j 19:09	25°♉55'29	
conjunction	-10122 Aug 01 j 10:28	26°♉53'57	0°55'07
minimum elong	-10122 Aug 01 j 10:28	26°♉53'56	0°55'35
max. Earth dist.	-10122 Aug 01 j 14:18	26°♉54'33	19.65606 AU
morning rise	-10122 Aug 17 j 00:16	27°♉52'10	
	-10122 Sep 25 j 10:57	0°♊	
retrograde	-10122 Nov 16 j 20:55	1°♊11'51	
	-10121 Jan 11 j 06:56	30°℞♉	
opposition	-10121 Jan 31 j 15:23	29°♉10'36	1°03'03
min. Earth dist.	-10121 Jan 31 j 09:12	29°♉11'15	17.69070 AU
direct	-10121 Apr 18 j 19:18	27°♉07'36	
	-10121 Jul 13 j 06:26	0°♊	
evening set	-10121 Jul 21 j 12:53	0°♊29'47	
conjunction	-10121 Aug 06 j 03:38	1°♊27'56	0°58'02
minimum elong	-10121 Aug 06 j 03:37	1°♊27'56	0°58'30
max. Earth dist.	-10121 Aug 06 j 11:24	1°♊29'09	19.72596 AU
morning rise	-10121 Aug 21 j 16:49	2°♊25'53	
retrograde	-10121 Nov 21 j 16:33	5°♊44'59	
opposition	-10120 Feb 05 j 16:25	3°♊43'54	1°06'03
min. Earth dist.	-10120 Feb 05 j 08:01	3°♊44'47	17.76210 AU
direct	-10120 Apr 22 j 19:22	1°♊41'25	
evening set	-10120 Jul 25 j 05:45	5°♊02'13	
conjunction	-10120 Aug 09 j 19:40	6°♊00'01	1°00'33
minimum elong	-10120 Aug 09 j 19:39	6°♊00'01	1°01'04
max. Earth dist.	-10120 Aug 10 j 05:02	6°♊01'29	19.79868 AU
morning rise	-10120 Aug 25 j 08:42	6°♊57'42	
retrograde	-10120 Nov 25 j 11:57	10°♊16'15	
opposition	-10119 Feb 09 j 16:39	8°♊15'19	1°08'37
min. Earth dist.	-10119 Feb 09 j 05:25	8°♊16'28	17.83599 AU
direct	-10119 Apr 27 j 17:59	6°♊13'18	
evening set	-10119 Jul 29 j 21:40	9°♊32'43	
conjunction	-10119 Aug 14 j 11:10	10°♊30'13	1°02'41
minimum elong	-10119 Aug 14 j 11:10	10°♊30'12	1°03'12
max. Earth dist.	-10119 Aug 15 j 00:03	10°♊32'12	19.87332 AU
morning rise	-10119 Aug 29 j 23:47	11°♊27'36	
retrograde	-10119 Nov 30 j 06:17	14°♊45'32	
opposition	-10118 Feb 14 j 16:00	12°♊44'47	1°10'45
min. Earth dist.	-10118 Feb 14 j 02:38	12°♊46'10	17.91125 AU
direct	-10118 May 02 j 16:19	10°♊43'16	
evening set	-10118 Aug 03 j 12:50	14°♊01'15	
conjunction	-10118 Aug 19 j 01:40	14°♊58'26	1°04'25
minimum elong	-10118 Aug 19 j 01:40	14°♊58'26	1°04'57
max. Earth dist.	-10118 Aug 19 j 15:50	15°♊00'37	19.94904 AU
morning rise	-10118 Sep 03 j 14:17	15°♊55'34	
retrograde	-10118 Dec 05 j 00:23	19°♊12'54	
opposition	-10117 Feb 19 j 14:46	17°♊12'17	1°12'25
min. Earth dist.	-10117 Feb 18 j 23:11	17°♊13'52	17.98737 AU
direct	-10117 May 07 j 12:49	15°♊11'12	
evening set	-10117 Aug 08 j 02:49	18°♊27'47	
conjunction	-10117 Aug 23 j 15:27	19°♊24'39	1°05'44
minimum elong	-10117 Aug 23 j 15:27	19°♊24'39	1°06'18
max. Earth dist.	-10117 Aug 24 j 08:45	19°♊27'19	20.02515 AU
morning rise	-10117 Sep 08 j 03:51	20°♊21'31	
retrograde	-10117 Dec 09 j 17:34	23°♊38'13	
opposition	-10116 Feb 24 j 12:40	21°♊37'44	1°13'38
min. Earth dist.	-10116 Feb 23 j 18:52	21°♊39'33	18.06337 AU
direct	-10116 May 11 j 09:18	19°♊37'06	
evening set	-10116 Aug 11 j 16:11	22°♊52'14	
conjunction	-10116 Aug 27 j 04:24	23°♊48'48	1°06'40
minimum elong	-10116 Aug 27 j 04:24	23°♊48'48	1°07'13
max. Earth dist.	-10116 Aug 27 j 22:43	23°♊51'37	20.10088 AU
morning rise	-10116 Sep 11 j 17:00	24°♊45'26	
retrograde	-10116 Dec 13 j 09:58	28°♊01'27	
opposition	-10115 Feb 28 j 09:32	26°♊01'04	1°14'25
min. Earth dist.	-10115 Feb 27 j 14:11	26°♊03'03	18.13889 AU
direct	-10115 May 16 j 03:36	24°♊00'50	
evening set	-10115 Aug 16 j 04:26	27°♊14'32	
conjunction	-10115 Aug 31 j 16:39	28°♊10'50	1°07'11
minimum elong	-10115 Aug 31 j 16:39	28°♊10'50	1°07'47
max. Earth dist.	-10115 Sep 01 j 13:39	28°♊14'03	20.17588 AU
morning rise	-10115 Sep 16 j 05:16	29°♊07'13	
	-10115 Oct 01 j 12:40	0°♋	
retrograde	-10115 Dec 18 j 01:57	2°♋22'33	
min. Earth dist.	-10114 Mar 04 j 07:52	0°♋24'28	18.21330 AU
opposition	-10114 Mar 05 j 05:30	0°♋22'16	1°14'45

Attention, astronomical year style is used: The year -10114 in astronomical counting style is the year 10115 BCE in historical counting style.

	-10114 Mar 14 j 09:29	30°℞♊		
direct	-10114 May 20 j 22:18	28°♊22'24		
	-10114 Jul 22 j 18:05	0°♋		
evening set	-10114 Aug 20 j 15:48	1°♋34'40		
conjunction	-10114 Sep 05 j 03:47	2°♋30'41	1°07'20	
minimum elong	-10114 Sep 05 j 03:47	2°♋30'41	1°07'55	
max. Earth dist.	-10114 Sep 06 j 01:51	2°♋34'02	20.24971 AU	
morning rise	-10114 Sep 20 j 16:46	3°♋26'51		
retrograde	-10114 Dec 22 j 16:31	6°♋41'30		
min. Earth dist.	-10113 Mar 09 j 01:50	4°♋43'34	18.28671 AU	
opposition	-10113 Mar 10 j 00:39	4°♋41'15	1°14'40	
direct	-10113 May 25 j 14:26	2°♋41'44		
evening set	-10113 Aug 25 j 02:11	5°♋52'35		
conjunction	-10113 Sep 09 j 14:20	6°♋48'21	1°07'05	
minimum elong	-10113 Sep 09 j 14:20	6°♋48'21	1°07'41	
max. Earth dist.	-10113 Sep 10 j 15:00	6°♋52'04	20.32257 AU	
morning rise	-10113 Sep 25 j 03:32	7°♋44'17		
retrograde	-10113 Dec 27 j 07:37	10°♋58'14		
opposition	-10112 Mar 13 j 18:35	8°♋58'02	1°14'10	
min. Earth dist.	-10112 Mar 12 j 17:23	9°♋00'35	18.35904 AU	
direct	-10112 May 29 j 07:31	6°♋58'50		
evening set	-10112 Aug 28 j 11:48	10°♋08'18		
conjunction	-10112 Sep 12 j 23:57	11°♋03'49	1°06'29	
minimum elong	-10112 Sep 12 j 23:57	11°♋03'49	1°07'04	
max. Earth dist.	-10112 Sep 14 j 01:45	11°♋07'41	20.39437 AU	
morning rise	-10112 Sep 28 j 13:43	11°♋59'33		
retrograde	-10112 Dec 30 j 20:14	15°♋12'49		
min. Earth dist.	-10111 Mar 17 j 09:36	13°♋15'17	18.43051 AU	
opposition	-10111 Mar 18 j 11:39	13°♋12'39	1°13'16	
direct	-10111 Jun 02 j 21:23	11°♋13'47		
evening set	-10111 Sep 01 j 20:30	14°♋21'54		
conjunction	-10111 Sep 17 j 08:58	15°♋17'11	1°05'31	
minimum elong	-10111 Sep 17 j 08:58	15°♋17'11	1°06'05	
max. Earth dist.	-10111 Sep 18 j 13:07	15°♋21'24	20.46534 AU	
morning rise	-10111 Oct 02 j 23:04	16°♋12'43		
retrograde	-10110 Jan 04 j 10:19	19°♋25'19		
min. Earth dist.	-10110 Mar 21 j 23:02	17°♋28'05	18.50102 AU	
opposition	-10110 Mar 23 j 03:31	17°♋25'12	1°11'58	
direct	-10110 Jun 07 j 12:38	15°♋26'40		
evening set	-10110 Sep 06 j 04:37	18°♋33'30		
conjunction	-10110 Sep 21 j 17:13	19°♋28'35	1°04'13	
minimum elong	-10110 Sep 21 j 17:14	19°♋28'35	1°04'48	
max. Earth dist.	-10110 Sep 22 j 22:29	19°♋32'56	20.53536 AU	
morning rise	-10110 Oct 07 j 08:00	20°♋23'57		
retrograde	-10109 Jan 08 j 21:26	23°♋35'54		
opposition	-10109 Mar 27 j 18:44	21°♋35'52	1°10'19	
min. Earth dist.	-10109 Mar 26 j 13:40	21°♋38'47	18.57067 AU	
direct	-10109 Jun 12 j 00:09	19°♋37'40		
evening set	-10109 Sep 10 j 11:50	22°♋43'17		
conjunction	-10109 Sep 26 j 00:58	23°♋38'09	1°02'36	
minimum elong	-10109 Sep 26 j 00:58	23°♋38'09	1°03'08	
max. Earth dist.	-10109 Sep 27 j 08:14	23°♋42'48	20.60440 AU	
morning rise	-10109 Oct 11 j 16:18	24°♋33'22		
retrograde	-10108 Jan 13 j 10:14	27°♋44'42		
min. Earth dist.	-10108 Mar 30 j 01:36	25°♋47'55	18.63892 AU	
opposition	-10108 Mar 31 j 08:53	25°♋44'46	1°08'19	
direct	-10108 Jun 15 j 13:53	23°♋46'55		
evening set	-10108 Sep 13 j 18:43	26°♋51'23		
conjunction	-10108 Sep 29 j 08:11	27°♋46'05	1°00'39	
minimum elong	-10108 Sep 29 j 08:11	27°♋46'05	1°01'12	
max. Earth dist.	-10108 Sep 30 j 16:15	27°♋50'48	20.67174 AU	
morning rise	-10108 Oct 15 j 00:20	28°♋41'08		
	-10108 Nov 08 j 08:15	0°♌		
retrograde	-10107 Jan 16 j 20:31	1°♌51'54		
	-10107 Apr 01 j 15:09	30°℞♋		
opposition	-10107 Apr 04 j 22:10	29°♋52'04	1°05'58	
min. Earth dist.	-10107 Apr 03 j 14:54	29°♋55'12	18.70534 AU	
direct	-10107 Jun 19 j 23:14	27°♋54'33		
	-10107 Aug 31 j 11:23	0°♌		
evening set	-10107 Sep 18 j 00:55	0°♌57'56		
conjunction	-10107 Oct 03 j 15:02	1°♌52'28	0°58'25	
minimum elong	-10107 Oct 03 j 15:02	1°♌52'28	0°58'56	
max. Earth dist.	-10107 Oct 05 j 00:32	1°♌57'24	20.73701 AU	
morning rise	-10107 Oct 19 j 07:51	2°♌47'24		
retrograde	-10106 Jan 21 j 07:49	5°♌57'37		
min. Earth dist.	-10106 Apr 08 j 01:34	4°♌01'13	18.76921 AU	
opposition	-10106 Apr 09 j 10:38	3°♌57'54	1°03'18	
direct	-10106 Jun 24 j 11:11	2°♌00'44		
evening set	-10106 Sep 22 j 06:41	5°♌03'05		
conjunction	-10106 Oct 07 j 21:16	5°♌57'28	0°55'53	
minimum elong	-10106 Oct 07 j 21:16	5°♌57'28	0°56'24	
max. Earth dist.	-10106 Oct 09 j 07:15	6°♌02'27	20.79932 AU	
morning rise	-10106 Oct 23 j 14:59	6°♌52'17		
retrograde	-10105 Jan 25 j 17:24	10°♌01'59		
opposition	-10105 Apr 13 j 22:34	8°♌02'23	1°00'19	
min. Earth dist.	-10105 Apr 12 j 13:59	8°♌05'39	18.82993 AU	
direct	-10105 Jun 28 j 19:18	6°♌05'31		
evening set	-10105 Sep 26 j 12:07	9°♌06'54		
conjunction	-10105 Oct 12 j 03:28	10°♌01'10	0°53'05	
minimum elong	-10105 Oct 12 j 03:29	10°♌01'11	0°53'34	
max. Earth dist.	-10105 Oct 13 j 14:18	10°♌06'15	20.85821 AU	
morning rise	-10105 Oct 27 j 21:59	10°♌55'53		
retrograde	-10104 Jan 30 j 03:39	14°♌05'05		
min. Earth dist.	-10104 Apr 15 j 23:37	12°♌08'59	18.88675 AU	
opposition	-10104 Apr 17 j 09:27	12°♌05'35	0°57'03	
direct	-10104 Jul 02 j 05:13	10°♌08'59		
evening set	-10104 Sep 29 j 17:22	13°♌09'30		
conjunction	-10104 Oct 15 j 09:20	14°♌03'39	0°50'02	
minimum elong	-10104 Oct 15 j 09:21	14°♌03'39	0°50'29	
max. Earth dist.	-10104 Oct 16 j 20:04	14°♌08'42	20.91276 AU	
morning rise	-10104 Oct 31 j 04:52	14°♌58'17		
	-10104 Oct 31 j 16:58	15°♌		
retrograde	-10103 Feb 02 j 12:12	18°♌07'01		
min. Earth dist.	-10103 Apr 20 j 11:04	16°♌10'52	18.93902 AU	
opposition	-10103 Apr 21 j 19:50	16°♌07'35	0°53'31	
	-10103 May 21 j 20:07	15°℞♌		
direct	-10103 Jul 06 j 12:12	14°♌11'13		
	-10103 Aug 19 j 10:52	15°♌		
evening set	-10103 Oct 03 j 22:07	17°♌10'54		
conjunction	-10103 Oct 19 j 14:57	18°♌04'58	0°46'44	
minimum elong	-10103 Oct 19 j 14:58	18°♌04'58	0°47'11	
max. Earth dist.	-10103 Oct 21 j 01:58	18°♌10'02	20.96256 AU	
morning rise	-10103 Nov 04 j 11:19	18°♌59'31		
retrograde	-10102 Feb 06 j 21:34	22°♌07'48		
min. Earth dist.	-10102 Apr 24 j 19:42	20°♌11'48	18.98617 AU	
opposition	-10102 Apr 26 j 05:22	20°♌08'26	0°49'45	
direct	-10102 Jul 10 j 20:38	18°♌12'15		
evening set	-10102 Oct 08 j 02:47	21°♌11'09		
conjunction	-10102 Oct 23 j 20:21	22°♌05'08	0°43'14	
minimum elong	-10102 Oct 23 j 20:21	22°♌05'08	0°43'39	
max. Earth dist.	-10102 Oct 25 j 06:56	22°♌10'07	21.00705 AU	

Attention, astronomical year style is used: The year -10102 in astronomical counting style is the year 10103 BCE in historical counting style.

morning rise	-10102 Nov 08 j 17:48	22°♌59'39	
retrograde	-10101 Feb 11 j 05:01	26°♌07'30	
min. Earth dist.	-10101 Apr 29 j 06:09	24°♌11'22	19.02802 AU
opposition	-10101 Apr 30 j 14:25	24°♌08'09	0°45'45
direct	-10101 Jul 15 j 02:33	22°♌12'06	
evening set	-10101 Oct 12 j 06:59	25°♌10'17	
conjunction	-10101 Oct 28 j 01:35	26°♌04'14	0°39'33
minimum elong	-10101 Oct 28 j 01:36	26°♌04'14	0°39'56
max. Earth dist.	-10101 Oct 29 j 12:10	26°♌09'12	21.04634 AU
morning rise	-10101 Nov 13 j 00:02	26°♌58'42	
	-10100 Jan 30 j 14:29	0°♍	
retrograde	-10100 Feb 15 j 13:54	0°♍06'08	
	-10100 Mar 02 j 14:59	30°℞♌	
opposition	-10100 May 03 j 22:37	28°♌06'46	0°41'34
min. Earth dist.	-10100 May 02 j 13:46	28°♌10'03	19.06456 AU
direct	-10100 Jul 18 j 09:52	26°♌10'49	
evening set	-10100 Oct 15 j 11:10	29°♌08'22	
	-10100 Oct 30 j 14:43	0°♍	
conjunction	-10100 Oct 31 j 06:35	0°♍02'16	0°35'41
minimum elong	-10100 Oct 31 j 06:35	0°♍02'16	0°36'01
max. Earth dist.	-10100 Nov 01 j 16:35	0°♍07'08	21.08026 AU
morning rise	-10100 Nov 16 j 06:09	0°♍56'44	
retrograde	-10099 Feb 18 j 20:01	4°♍03'46	
min. Earth dist.	-10099 May 06 j 22:54	2°♍07'31	19.09602 AU
opposition	-10099 May 08 j 06:09	2°♍04'23	0°37'12
direct	-10099 Jul 22 j 14:36	0°♍08'29	
evening set	-10099 Oct 19 j 14:59	3°♍05'29	
conjunction	-10099 Nov 04 j 11:28	3°♍59'21	0°31'41
minimum elong	-10099 Nov 04 j 11:28	3°♍59'21	0°31'59
max. Earth dist.	-10099 Nov 05 j 21:22	4°♍04'12	21.10947 AU
morning rise	-10099 Nov 20 j 12:02	4°♍53'48	
retrograde	-10098 Feb 23 j 04:29	8°♍00'31	
min. Earth dist.	-10098 May 11 j 05:17	6°♍04'16	19.12292 AU
opposition	-10098 May 12 j 13:05	6°♍01'05	0°32'40
direct	-10098 Jul 26 j 20:41	4°♍05'14	
evening set	-10098 Oct 23 j 18:42	7°♍01'45	
conjunction	-10098 Nov 08 j 16:03	7°♍55'38	0°27'32
minimum elong	-10098 Nov 08 j 16:04	7°♍55'38	0°27'48
max. Earth dist.	-10098 Nov 10 j 01:25	8°♍00'22	21.13416 AU
morning rise	-10098 Nov 24 j 17:47	8°♍50'06	
retrograde	-10097 Feb 27 j 09:50	11°♍56'31	
opposition	-10097 May 16 j 19:38	9°♍57'04	0°28'01
min. Earth dist.	-10097 May 15 j 13:26	10°♍00'06	19.14554 AU
direct	-10097 Jul 31 j 00:25	8°♍01'16	
evening set	-10097 Oct 27 j 22:25	10°♍57'23	
conjunction	-10097 Nov 12 j 20:54	11°♍51'17	0°23'17
minimum elong	-10097 Nov 12 j 20:55	11°♍51'17	0°23'31
max. Earth dist.	-10097 Nov 14 j 05:56	11°♍55'58	21.15481 AU
morning rise	-10097 Nov 28 j 23:40	12°♍45'46	
retrograde	-10096 Mar 02 j 18:02	15°♍51'57	
min. Earth dist.	-10096 May 18 j 18:54	13°♍55'34	19.16411 AU
opposition	-10096 May 20 j 01:25	13°♍52'30	0°23'15
direct	-10096 Aug 03 j 05:17	11°♍56'43	
evening set	-10096 Oct 31 j 02:17	14°♍52'34	
conjunction	-10096 Nov 16 j 01:43	15°♍46'30	0°18'55
minimum elong	-10096 Nov 16 j 01:43	15°♍46'30	0°19'08
max. Earth dist.	-10096 Nov 17 j 09:52	15°♍51'03	21.17130 AU
morning rise	-10096 Dec 02 j 05:37	16°♍41'02	
retrograde	-10095 Mar 06 j 23:21	19°♍47'03	
min. Earth dist.	-10095 May 23 j 02:20	17°♍50'29	19.17857 AU
opposition	-10095 May 24 j 07:03	17°♍47'36	0°18'23
direct	-10095 Aug 07 j 08:09	15°♍51'51	
evening set	-10095 Nov 04 j 05:59	18°♍47'30	
conjunction	-10095 Nov 20 j 06:33	19°♍41'29	0°14'29
minimum elong	-10095 Nov 20 j 06:33	19°♍41'29	0°14'39
behind sun begin	-10095 Nov 20 j 03:46	19°♍41'06	
behind sun end	-10095 Nov 20 j 09:20	19°♍41'52	
max. Earth dist.	-10095 Nov 21 j 14:07	19°♍45'57	21.18379 AU
morning rise	-10095 Dec 06 j 11:29	20°♍36'04	
retrograde	-10094 Mar 11 j 07:24	23°♍41'58	
min. Earth dist.	-10094 May 27 j 07:25	21°♍45'26	19.18885 AU
opposition	-10094 May 28 j 12:15	21°♍42'33	0°13'25
direct	-10094 Aug 11 j 12:21	19°♍46'50	
evening set	-10094 Nov 08 j 10:07	22°♍42'22	
conjunction	-10094 Nov 24 j 11:40	23°♍36'25	0°09'59
minimum elong	-10094 Nov 24 j 11:40	23°♍36'25	0°10'07
behind sun begin	-10094 Nov 24 j 06:21	23°♍35'42	
behind sun end	-10094 Nov 24 j 16:59	23°♍37'09	
max. Earth dist.	-10094 Nov 25 j 18:04	23°♍40'43	21.19188 AU
morning rise	-10094 Dec 10 j 17:45	24°♍31'06	
retrograde	-10093 Mar 15 j 13:13	27°♍36'55	
opposition	-10093 Jun 01 j 17:15	25°♍37'31	0°08'24
min. Earth dist.	-10093 May 31 j 14:33	25°♍40'13	19.19467 AU
direct	-10093 Aug 15 j 14:30	23°♍41'50	
evening set	-10093 Nov 12 j 14:27	26°♍37'21	
conjunction	-10093 Nov 28 j 17:11	27°♍31'30	0°05'26
minimum elong	-10093 Nov 28 j 17:11	27°♍31'30	0°05'31
behind sun begin	-10093 Nov 28 j 10:47	27°♍30'37	
behind sun end	-10093 Nov 28 j 23:35	27°♍32'22	
max. Earth dist.	-10093 Nov 29 j 22:32	27°♍35'38	21.19546 AU
morning rise	-10093 Dec 15 j 00:19	28°♍26'15	
	-10092 Jan 14 j 22:13	0°♎	
retrograde	-10092 Mar 18 j 21:33	1°♎32'03	
	-10092 May 24 j 12:47	30°℞♍	
opposition	-10092 Jun 04 j 21:58	29°♍32'42	0°03'20
min. Earth dist.	-10092 Jun 03 j 19:39	29°♍35'21	19.19566 AU
direct	-10092 Aug 18 j 18:39	27°♍36'59	
	-10092 Nov 05 j 17:13	0°♎	
evening set	-10092 Nov 15 j 19:18	0°♎32'35	
conjunction	-10092 Dec 01 j 22:58	1°♎26'50	0°00'48
minimum elong	-10092 Dec 01 j 22:59	1°♎26'50	0°00'51
behind sun begin	-10092 Dec 01 j 16:20	1°♎25'55	
behind sun end	-10092 Dec 02 j 05:38	1°♎27'45	
max. Earth dist.	-10092 Dec 03 j 02:41	1°♎30'44	21.19379 AU
morning rise	-10092 Dec 18 j 07:10	2°♎21'42	
desc. node	-10091 Feb 03 j 12:45	4°♎34'42	
retrograde	-10091 Mar 23 j 03:32	5°♎27'31	
min. Earth dist.	-10091 Jun 08 j 02:48	3°♎30'35	19.19130 AU
opposition	-10091 Jun 09 j 02:35	3°♎28'11	-0°01'45
direct	-10091 Aug 22 j 20:22	1°♎32'26	
evening set	-10091 Nov 20 j 00:25	4°♎28'11	
conjunction	-10091 Dec 06 j 05:16	5°♎22'33	-0°03'55
minimum elong	-10091 Dec 06 j 05:15	5°♎22'33	0°03'55
behind sun begin	-10091 Dec 05 j 22:40	5°♎21'39	
behind sun end	-10091 Dec 06 j 11:50	5°♎23'27	
max. Earth dist.	-10091 Dec 07 j 07:24	5°♎26'14	21.18676 AU
morning rise	-10091 Dec 22 j 14:25	6°♎17'32	
retrograde	-10090 Mar 27 j 12:22	9°♎23'25	
min. Earth dist.	-10090 Jun 12 j 08:04	7°♎26'23	19.18130 AU
opposition	-10090 Jun 13 j 07:03	7°♎24'04	-0°06'51
direct	-10090 Aug 27 j 00:43	5°♎28'14	
evening set	-10090 Nov 24 j 06:01	8°♎24'12	

Attention, astronomical year style is used: The year -10090 in astronomical counting style is the year 10091 BCE in historical counting style.

conjunction	-10090 Dec 10 j 11:53	9°♎18'43	-0°08'30	
minimum elong	-10090 Dec 10 j 11:53	9°♎18'43	0°08'32	
behind sun begin	-10090 Dec 10 j 06:04	9°♎17'55		
behind sun end	-10090 Dec 10 j 17:42	9°♎19'31		
max. Earth dist.	-10090 Dec 11 j 11:57	9°♎22'06	21.17372 AU	
morning rise	-10090 Dec 26 j 22:06	10°♎13'49		
retrograde	-10089 Mar 31 j 18:41	13°♎19'47		
opposition	-10089 Jun 17 j 11:40	11°♎20'25	-0°11'55	
min. Earth dist.	-10089 Jun 16 j 15:32	11°♎22'27	19.16517 AU	
direct	-10089 Aug 31 j 02:48	9°♎24'27		
evening set	-10089 Nov 28 j 12:08	12°♎20'42		
conjunction	-10089 Dec 14 j 19:09	13°♎15'22	-0°13'03	
minimum elong	-10089 Dec 14 j 19:09	13°♎15'22	0°13'06	
behind sun begin	-10089 Dec 14 j 15:15	13°♎14'49		
behind sun end	-10089 Dec 14 j 23:04	13°♎15'54		
max. Earth dist.	-10089 Dec 15 j 17:10	13°♎18'27	21.15461 AU	
morning rise	-10089 Dec 31 j 06:19	14°♎10'36		
retrograde	-10088 Apr 04 j 03:32	17°♎16'40		
opposition	-10088 Jun 20 j 15:57	15°♎17'13	-0°16'56	
min. Earth dist.	-10088 Jun 19 j 20:58	15°♎19'09	19.14290 AU	
direct	-10088 Sep 03 j 07:31	13°♎21'04		
evening set	-10088 Dec 01 j 18:46	16°♎17'41		
conjunction	-10088 Dec 18 j 02:45	17°♎12'30	-0°17'33	
minimum elong	-10088 Dec 18 j 02:45	17°♎12'30	0°17'40	
max. Earth dist.	-10088 Dec 18 j 22:26	17°♎15'16	21.12929 AU	
morning rise	-10087 Jan 03 j 14:53	18°♎07'54		
retrograde	-10087 Apr 08 j 10:20	21°♎14'06		
opposition	-10087 Jun 24 j 20:29	19°♎14'33	-0°21'53	
min. Earth dist.	-10087 Jun 24 j 04:26	19°♎16'11	19.11464 AU	
direct	-10087 Sep 07 j 10:24	17°♎18'10		
evening set	-10087 Dec 06 j 01:35	20°♎15'10		
conjunction	-10087 Dec 22 j 10:41	21°♎10'10	-0°21'58	
minimum elong	-10087 Dec 22 j 10:41	21°♎10'10	0°22'07	
max. Earth dist.	-10087 Dec 23 j 04:17	21°♎12'39	21.09839 AU	
morning rise	-10086 Jan 07 j 23:42	22°♎05'44		
retrograde	-10086 Apr 12 j 19:01	25°♎12'06		
min. Earth dist.	-10086 Jun 28 j 09:57	23°♎13'56	19.08104 AU	
opposition	-10086 Jun 29 j 00:54	23°♎12'25	-0°26'44	
direct	-10086 Sep 11 j 15:15	21°♎15'45		
evening set	-10086 Dec 10 j 09:10	24°♎13'15		
conjunction	-10086 Dec 26 j 19:13	25°♎08'27	-0°26'18	
minimum elong	-10086 Dec 26 j 19:13	25°♎08'27	0°26'30	
max. Earth dist.	-10086 Dec 27 j 10:35	25°♎10'37	21.06228 AU	
morning rise	-10085 Jan 12 j 09:07	26°♎04'11		
retrograde	-10085 Apr 17 j 02:21	29°♎10'44		
opposition	-10085 Jul 03 j 05:22	27°♎10'55	-0°31'28	
min. Earth dist.	-10085 Jul 02 j 17:19	27°♎12'09	19.04262 AU	
direct	-10085 Sep 15 j 18:52	25°♎13'57		
evening set	-10085 Dec 14 j 17:17	28°♎12'02		
conjunction	-10085 Dec 31 j 04:24	29°♎07'26	-0°30'31	
minimum elong	-10085 Dec 31 j 04:23	29°♎07'26	0°30'44	
max. Earth dist.	-10085 Dec 31 j 17:31	29°♎09'17	21.02180 AU	
	-10084 Jan 15 j 18:44	0°♏		
morning rise	-10084 Jan 16 j 19:06	0°♏03'22		
retrograde	-10084 Apr 20 j 11:34	3°♏10'09		
opposition	-10084 Jul 06 j 09:56	1°♏10'12	-0°36'04	
min. Earth dist.	-10084 Jul 05 j 22:59	1°♏11'19	19.00007 AU	
	-10084 Aug 05 j 20:58	30°℞♎		
direct	-10084 Sep 18 j 23:59	29°♎12'55		
	-10084 Nov 01 j 06:41	0°♏		
evening set	-10084 Dec 18 j 02:00	2°♏11'40		

conjunction	-10083 Jan 03 j 13:58	3°♏07'17	-0°34'36	
minimum elong	-10083 Jan 03 j 13:58	3°♏07'17	0°34'52	
max. Earth dist.	-10083 Jan 04 j 00:56	3°♏08'50	20.97723 AU	
morning rise	-10083 Jan 20 j 05:23	4°♏03'24		
retrograde	-10083 Apr 24 j 19:14	7°♏10'30		
opposition	-10083 Jul 10 j 14:48	5°♏10'25	-0°40'30	
min. Earth dist.	-10083 Jul 10 j 06:33	5°♏11'16	18.95376 AU	
direct	-10083 Sep 23 j 04:11	3°♏12'49		
evening set	-10083 Dec 22 j 11:20	6°♏12'19		
conjunction	-10082 Jan 08 j 00:15	7°♏08'10	-0°38'32	
minimum elong	-10082 Jan 08 j 00:15	7°♏08'10	0°38'50	
max. Earth dist.	-10082 Jan 08 j 08:55	7°♏09'24	20.92937 AU	
morning rise	-10082 Jan 24 j 16:24	8°♏04'30		
retrograde	-10082 Apr 29 j 05:37	11°♏11'57		
opposition	-10082 Jul 14 j 19:48	9°♏11'45	-0°44'46	
min. Earth dist.	-10082 Jul 14 j 12:40	9°♏12'29	18.90429 AU	
direct	-10082 Sep 27 j 10:00	7°♏13'50		
evening set	-10082 Dec 26 j 21:27	10°♏14'11		
conjunction	-10081 Jan 12 j 11:16	11°♏10'17	-0°42'18	
minimum elong	-10081 Jan 12 j 11:15	11°♏10'17	0°42'38	
max. Earth dist.	-10081 Jan 12 j 17:44	11°♏11'12	20.87826 AU	
morning rise	-10081 Jan 29 j 04:02	12°♏06'50		
	-10081 Apr 09 j 05:53	15°♏		
retrograde	-10081 May 03 j 14:15	15°♏14'40		
	-10081 May 28 j 01:37	15°℞♏		
opposition	-10081 Jul 19 j 01:20	13°♏14'24	-0°48'51	
min. Earth dist.	-10081 Jul 18 j 20:57	13°♏14'51	18.85166 AU	
direct	-10081 Oct 01 j 14:34	11°♏16'11		
evening set	-10081 Dec 31 j 08:27	14°♏17'28		
	-10080 Jan 12 j 22:07	15°♏		
conjunction	-10080 Jan 16 j 23:05	15°♏13'50	-0°45'53	
minimum elong	-10080 Jan 16 j 23:05	15°♏13'50	0°46'15	
max. Earth dist.	-10080 Jan 17 j 02:57	15°♏14'23	20.82423 AU	
morning rise	-10080 Feb 02 j 16:29	16°♏10'36		
retrograde	-10080 May 07 j 02:04	19°♏18'53		
opposition	-10080 Jul 22 j 07:04	17°♏18'33	-0°52'43	
min. Earth dist.	-10080 Jul 22 j 04:01	17°♏18'52	18.79612 AU	
direct	-10080 Oct 04 j 21:38	15°♏20'01		
evening set	-10079 Jan 03 j 20:18	18°♏22'20		
conjunction	-10079 Jan 20 j 11:43	19°♏18'58	-0°49'15	
minimum elong	-10079 Jan 20 j 11:43	19°♏18'58	0°49'39	
max. Earth dist.	-10079 Jan 20 j 13:22	19°♏19'12	20.76713 AU	
morning rise	-10079 Feb 06 j 05:33	20°♏15'59		
retrograde	-10079 May 11 j 11:53	23°♏24'46		
opposition	-10079 Jul 26 j 13:30	21°♏24'23	-0°56'20	
min. Earth dist.	-10079 Jul 26 j 13:19	21°♏24'24	18.73753 AU	
direct	-10079 Oct 09 j 02:47	19°♏25'33		
evening set	-10078 Jan 08 j 08:54	22°♏28'57		
conjunction	-10078 Jan 25 j 01:03	23°♏25'51	-0°52'24	
minimum elong	-10078 Jan 25 j 01:02	23°♏25'51	0°52'50	
max. Earth dist.	-10078 Jan 24 j 23:49	23°♏25'41	20.70710 AU	
morning rise	-10078 Feb 10 j 19:26	24°♏23'07		
retrograde	-10078 May 16 j 01:06	27°♏32'27		
opposition	-10078 Jul 30 j 20:20	25°♏32'00	-0°59'42	
min. Earth dist.	-10078 Jul 30 j 21:48	25°♏31'51	18.67590 AU	
direct	-10078 Oct 13 j 11:32	23°♏32'51		
evening set	-10077 Jan 12 j 22:42	26°♏37'25		
conjunction	-10077 Jan 29 j 15:34	27°♏34'38	-0°55'17	
minimum elong	-10077 Jan 29 j 15:33	27°♏34'38	0°55'44	
max. Earth dist.	-10077 Jan 29 j 11:57	27°♏34'06	20.64370 AU	
morning rise	-10077 Feb 15 j 10:14	28°♏32'08		

Attention, astronomical year style is used: The year -10077 in astronomical counting style is the year 10078 BCE in historical counting style.

	-10077 Mar 15 j 10:53	0°♐	
retrograde	-10077 May 20 j 12:00	1°♐42'01	
	-10077 Jul 27 j 19:23	30°℞♏	
opposition	-10077 Aug 04 j 03:49	29°♏41'32	-1°02'46
min. Earth dist.	-10077 Aug 04 j 08:22	29°♏41'03	18.61083 AU
direct	-10077 Oct 17 j 18:21	27°♏42'01	
	-10076 Jan 02 j 22:45	0°♐	
evening set	-10076 Jan 17 j 13:32	0°♐47'49	
conjunction	-10076 Feb 03 j 06:58	1°♐45'19	-0°57'54
minimum elong	-10076 Feb 03 j 06:57	1°♐45'19	0°58'22
max. Earth dist.	-10076 Feb 02 j 23:55	1°♐44'18	20.57697 AU
morning rise	-10076 Feb 20 j 02:02	2°♐43'05	
retrograde	-10076 May 24 j 02:11	5°♐53'33	
opposition	-10076 Aug 07 j 11:58	3°♐52'58	-1°05'32
min. Earth dist.	-10076 Aug 07 j 18:23	3°♐52'18	18.54241 AU
direct	-10076 Oct 21 j 04:44	1°♐53'04	
evening set	-10075 Jan 21 j 05:07	5°♐00'07	
conjunction	-10075 Feb 06 j 23:08	5°♐57'56	-1°00'13
minimum elong	-10075 Feb 06 j 23:08	5°♐57'56	1°00'44
max. Earth dist.	-10075 Feb 06 j 13:47	5°♐56'34	20.50669 AU
morning rise	-10075 Feb 23 j 18:18	6°♐55'56	
retrograde	-10075 May 28 j 14:12	10°♐07'00	
opposition	-10075 Aug 11 j 20:51	8°♐06'19	-1°07'57
min. Earth dist.	-10075 Aug 12 j 06:11	8°♐05'20	18.47055 AU
direct	-10075 Oct 25 j 14:06	6°♐05'59	
evening set	-10074 Jan 25 j 21:45	9°♐14'20	
conjunction	-10074 Feb 11 j 16:12	10°♐12'26	-1°02'13
minimum elong	-10074 Feb 11 j 16:12	10°♐12'26	1°02'44
max. Earth dist.	-10074 Feb 11 j 03:15	10°♐10'33	20.43343 AU
morning rise	-10074 Feb 28 j 11:40	11°♐10'43	
retrograde	-10074 Jun 02 j 04:41	14°♐22'22	
opposition	-10074 Aug 16 j 06:12	12°♐21'33	-1°10'01
min. Earth dist.	-10074 Aug 16 j 17:26	12°♐20'21	18.39596 AU
direct	-10074 Oct 30 j 01:45	10°♐20'44	
evening set	-10073 Jan 30 j 15:16	13°♐30'25	
conjunction	-10073 Feb 16 j 10:16	14°♐28'50	-1°03'54
minimum elong	-10073 Feb 16 j 10:16	14°♐28'50	1°04'27
max. Earth dist.	-10073 Feb 15 j 19:16	14°♐26'38	20.35753 AU
morning rise	-10073 Mar 05 j 05:41	15°♐27'21	
retrograde	-10073 Jun 06 j 18:22	18°♐39'36	
opposition	-10073 Aug 20 j 16:24	16°♐38'37	-1°11'43
min. Earth dist.	-10073 Aug 21 j 06:16	16°♐37'09	18.31907 AU
direct	-10073 Nov 03 j 13:38	14°♐37'20	
evening set	-10072 Feb 04 j 09:45	17°♐48'22	
max. Earth dist.	-10072 Feb 20 j 10:29	18°♐44'22	20.27991 AU
conjunction	-10072 Feb 21 j 04:58	18°♐47'04	-1°05'13
minimum elong	-10072 Feb 21 j 04:57	18°♐47'04	1°05'47
morning rise	-10072 Mar 09 j 00:31	19°♐45'51	
retrograde	-10072 Jun 10 j 09:20	22°♐58'43	
opposition	-10072 Aug 24 j 03:10	20°♐57'33	-1°13'01
min. Earth dist.	-10072 Aug 24 j 18:48	20°♐55'53	18.24095 AU
direct	-10072 Nov 07 j 02:50	18°♐55'45	
evening set	-10071 Feb 08 j 04:58	22°♐08'11	
max. Earth dist.	-10071 Feb 24 j 04:40	23°♐04'15	20.20134 AU
conjunction	-10071 Feb 25 j 00:34	23°♐07'11	-1°06'11
minimum elong	-10071 Feb 25 j 00:34	23°♐07'11	1°06'46
morning rise	-10071 Mar 13 j 19:52	24°♐06'13	
retrograde	-10071 Jun 15 j 00:35	27°♐19'41	
opposition	-10071 Aug 28 j 14:45	25°♐18'22	-1°13'55
min. Earth dist.	-10071 Aug 29 j 08:30	25°♐16'28	18.16232 AU
direct	-10071 Nov 11 j 16:23	23°♐16'04	
evening set	-10070 Feb 13 j 01:04	26°♐29'54	
conjunction	-10070 Mar 01 j 20:44	27°♐29'12	-1°06'47
minimum elong	-10070 Mar 01 j 20:44	27°♐29'12	1°07'22
max. Earth dist.	-10070 Feb 28 j 21:36	27°♐25'46	20.12283 AU
morning rise	-10070 Mar 18 j 16:05	28°♐28'29	
	-10070 Apr 16 j 01:13	0°♑	
retrograde	-10070 Jun 19 j 17:02	1°♑42'36	
	-10070 Aug 25 j 18:46	30°℞♐	
opposition	-10070 Sep 02 j 03:06	29°♐41'07	-1°14'24
min. Earth dist.	-10070 Sep 02 j 22:29	29°♐39'02	18.08415 AU
direct	-10070 Nov 16 j 07:11	27°♐38'18	
	-10069 Feb 01 j 23:36	0°♑	
evening set	-10069 Feb 17 j 22:06	0°♑53'34	
conjunction	-10069 Mar 06 j 18:02	1°♑53'11	-1°07'00
minimum elong	-10069 Mar 06 j 18:02	1°♑53'11	1°07'33
max. Earth dist.	-10069 Mar 05 j 17:56	1°♑49'35	20.04495 AU
morning rise	-10069 Mar 23 j 12:56	2°♑52'42	
retrograde	-10069 Jun 24 j 10:01	6°♑07'26	
opposition	-10069 Sep 06 j 16:17	4°♑05'50	-1°14'27
min. Earth dist.	-10069 Sep 07 j 13:20	4°♑03'34	18.00692 AU
direct	-10069 Nov 20 j 22:19	2°♑02'33	
evening set	-10068 Feb 22 j 20:10	5°♑19'17	
conjunction	-10068 Mar 10 j 15:56	6°♑19'10	-1°06'49
minimum elong	-10068 Mar 10 j 15:56	6°♑19'10	1°07'24
max. Earth dist.	-10068 Mar 09 j 12:49	6°♑15'07	19.96853 AU
morning rise	-10068 Mar 27 j 10:39	7°♑18'56	
retrograde	-10068 Jun 28 j 04:18	10°♑34'21	
opposition	-10068 Sep 10 j 06:27	8°♑32'37	-1°14'03
min. Earth dist.	-10068 Sep 11 j 05:00	8°♑30'11	17.93153 AU
direct	-10068 Nov 24 j 14:30	6°♑28'54	
evening set	-10067 Feb 26 j 18:45	9°♑47'06	
max. Earth dist.	-10067 Mar 14 j 11:04	10°♑43'07	19.89409 AU
conjunction	-10067 Mar 15 j 14:38	10°♑47'16	-1°06'14
minimum elong	-10067 Mar 15 j 14:38	10°♑47'16	1°06'48
morning rise	-10067 Apr 01 j 08:47	11°♑47'16	
retrograde	-10067 Jul 02 j 23:16	15°♑03'20	
opposition	-10067 Sep 14 j 21:32	13°♑01'33	-1°13'13
min. Earth dist.	-10067 Sep 15 j 21:14	12°♑58'59	17.85821 AU
direct	-10067 Nov 29 j 07:24	10°♑57'26	
evening set	-10066 Mar 03 j 18:34	14°♑17'05	
max. Earth dist.	-10066 Mar 19 j 07:48	15°♑12'57	19.82201 AU
conjunction	-10066 Mar 20 j 14:08	15°♑17'32	-1°05'14
minimum elong	-10066 Mar 20 j 14:08	15°♑17'32	1°05'49
morning rise	-10066 Apr 06 j 07:56	16°♑17'45	
retrograde	-10066 Jul 07 j 19:00	19°♑34'30	
opposition	-10066 Sep 19 j 13:25	17°♑32'40	-1°11'55
min. Earth dist.	-10066 Sep 20 j 14:49	17°♑29'54	17.78747 AU
direct	-10066 Dec 04 j 01:00	15°♑28'10	
evening set	-10065 Mar 08 j 19:11	18°♑49'18	
max. Earth dist.	-10065 Mar 24 j 07:57	19°♑45'21	19.75245 AU
conjunction	-10065 Mar 25 j 14:40	19°♑50'01	-1°03'50
minimum elong	-10065 Mar 25 j 14:40	19°♑50'01	1°04'25
morning rise	-10065 Apr 11 j 07:46	20°♑50'27	
retrograde	-10065 Jul 12 j 16:02	24°♑07'51	
opposition	-10065 Sep 24 j 06:28	22°♑06'00	-1°10'09
min. Earth dist.	-10065 Sep 25 j 08:45	22°♑03'09	17.71911 AU
direct	-10065 Dec 08 j 20:23	20°♑01'11	
evening set	-10064 Mar 12 j 20:44	23°♑23'46	
max. Earth dist.	-10064 Mar 28 j 06:32	24°♑19'39	19.68531 AU
conjunction	-10064 Mar 29 j 15:40	24°♑24'43	-1°02'01

Attention, astronomical year style is used: The year -10064 in astronomical counting style is the year 10065 BCE in historical counting style.

minimum elong	-10064 Mar 29 j 15:41	24°♉24'43	1°02'34
morning rise	-10064 Apr 15 j 08:11	25°♉25'20	
retrograde	-10064 Jul 16 j 12:41	28°♉43'26	
opposition	-10064 Sep 28 j 00:33	26°♉41'33	-1°07'55
min. Earth dist.	-10064 Sep 29 j 04:38	26°♉38'29	17.65333 AU
direct	-10064 Dec 12 j 15:37	24°♉36'24	
evening set	-10063 Mar 17 j 22:56	28°♉00'23	
max. Earth dist.	-10063 Apr 02 j 08:05	28°♉56'26	19.62070 AU
conjunction	-10063 Apr 03 j 17:34	29°♉01'34	-0°59'46
minimum elong	-10063 Apr 03 j 17:35	29°♉01'34	1°00'19
	-10063 Apr 19 j 17:27	0°♒	
morning rise	-10063 Apr 20 j 09:16	0°♒02'22	
retrograde	-10063 Jul 21 j 11:29	3°♒21'06	
opposition	-10063 Oct 02 j 19:32	1°♒19'11	-1°05'14
min. Earth dist.	-10063 Oct 04 j 00:08	1°♒16'04	17.58992 AU
	-10063 Nov 04 j 14:14	30°℞♉	
direct	-10063 Dec 17 j 13:46	29°♉13'45	
	-10062 Jan 28 j 22:12	0°♒	
evening set	-10062 Mar 23 j 01:59	2°♒39'03	
max. Earth dist.	-10062 Apr 07 j 08:29	3°♒34'58	19.55849 AU
conjunction	-10062 Apr 08 j 20:01	3°♒40'26	-0°57'08
minimum elong	-10062 Apr 08 j 20:01	3°♒40'27	0°57'38
morning rise	-10062 Apr 25 j 10:58	4°♒41'25	
retrograde	-10062 Jul 26 j 08:46	8°♒00'45	
opposition	-10062 Oct 07 j 15:40	5°♒58'48	-1°02'05
min. Earth dist.	-10062 Oct 08 j 22:06	5°♒55'28	17.52909 AU
direct	-10062 Dec 22 j 10:56	3°♒53'02	
evening set	-10061 Mar 28 j 05:37	7°♒19'37	
max. Earth dist.	-10061 Apr 12 j 11:10	8°♒15'38	19.49900 AU
conjunction	-10061 Apr 13 j 23:05	8°♒21'11	-0°54'05
minimum elong	-10061 Apr 13 j 23:05	8°♒21'11	0°54'34
morning rise	-10061 Apr 30 j 13:07	9°♒22'17	
retrograde	-10061 Jul 31 j 08:41	12°♒42'12	
opposition	-10061 Oct 12 j 12:36	10°♒40'11	-0°58'30
min. Earth dist.	-10061 Oct 13 j 19:02	10°♒36'51	17.47101 AU
direct	-10061 Dec 27 j 11:51	8°♒34'08	
evening set	-10060 Apr 01 j 09:49	12°♒01'53	
max. Earth dist.	-10060 Apr 16 j 13:31	12°♒57'52	19.44255 AU
conjunction	-10060 Apr 18 j 02:32	13°♒03'37	-0°50'40
minimum elong	-10060 Apr 18 j 02:32	13°♒03'37	0°51'08
morning rise	-10060 May 04 j 15:34	14°♒04'50	
	-10060 May 20 j 07:54	15°♒	
retrograde	-10060 Aug 04 j 06:28	17°♒25'17	
opposition	-10060 Oct 16 j 10:37	15°♒23'12	-0°54'30
min. Earth dist.	-10060 Oct 17 j 18:33	15°♒19'42	17.41646 AU
	-10060 Oct 25 j 07:49	15°℞♒	
direct	-10060 Dec 31 j 11:02	13°♒16'51	
	-10059 Mar 06 j 01:35	15°♒	
evening set	-10059 Apr 06 j 14:11	16°♒45'41	
max. Earth dist.	-10059 Apr 21 j 16:56	17°♒41'44	19.39001 AU
conjunction	-10059 Apr 23 j 06:07	17°♒47'32	-0°46'53
minimum elong	-10059 Apr 23 j 06:07	17°♒47'32	0°47'19
morning rise	-10059 May 09 j 18:14	18°♒48'52	
retrograde	-10059 Aug 09 j 07:05	22°♒09'47	
opposition	-10059 Oct 21 j 09:16	20°♒07'37	-0°50'07
min. Earth dist.	-10059 Oct 22 j 16:33	20°♒04'12	17.36596 AU
direct	-10058 Jan 05 j 14:24	18°♒01'01	
evening set	-10058 Apr 11 j 19:00	21°♒30'49	
max. Earth dist.	-10058 Apr 26 j 20:59	22°♒26'59	19.34178 AU
conjunction	-10058 Apr 28 j 10:07	22°♒32'47	-0°42'46
minimum elong	-10058 Apr 28 j 10:07	22°♒32'47	0°43'11
morning rise	-10058 May 14 j 21:04	23°♒34'11	
retrograde	-10058 Aug 14 j 05:14	26°♒55'33	
opposition	-10058 Oct 26 j 08:46	24°♒53'18	-0°45'23
min. Earth dist.	-10058 Oct 27 j 17:11	24°♒49'46	17.32026 AU
direct	-10057 Jan 10 j 15:22	22°♒46'27	
evening set	-10057 Apr 17 j 00:05	26°♒17'08	
max. Earth dist.	-10057 May 02 j 01:01	27°♒13'21	19.29884 AU
conjunction	-10057 May 03 j 14:09	27°♒19'11	-0°38'22
minimum elong	-10057 May 03 j 14:09	27°♒19'11	0°38'43
morning rise	-10057 May 20 j 00:07	28°♒20'38	
	-10057 Jun 18 j 04:01	0°♓	
retrograde	-10057 Aug 19 j 06:38	1°♓42'24	
	-10057 Oct 23 j 18:21	30°℞♒	
opposition	-10057 Oct 31 j 09:03	29°♒40'05	-0°40'18
min. Earth dist.	-10057 Nov 01 j 16:12	29°♒36'40	17.28012 AU
direct	-10056 Jan 15 j 20:16	27°♒33'01	
	-10056 Apr 03 j 00:05	0°♓	
evening set	-10056 Apr 21 j 05:02	1°♓04'27	
max. Earth dist.	-10056 May 06 j 06:24	2°♓00'55	19.26167 AU
conjunction	-10056 May 07 j 18:09	2°♓06'33	-0°33'40
minimum elong	-10056 May 07 j 18:10	2°♓06'33	0°34'00
morning rise	-10056 May 24 j 02:48	3°♓08'01	
retrograde	-10056 Aug 23 j 06:08	6°♓30'09	
opposition	-10056 Nov 04 j 10:13	4°♓27'47	-0°34'56
min. Earth dist.	-10056 Nov 05 j 17:43	4°♓24'20	17.24616 AU
direct	-10055 Jan 19 j 22:42	2°♓20'35	
evening set	-10055 Apr 26 j 10:13	5°♓52'40	
max. Earth dist.	-10055 May 11 j 10:35	6°♓49'09	19.23113 AU
conjunction	-10055 May 12 j 22:06	6°♓54'46	-0°28'44
minimum elong	-10055 May 12 j 22:06	6°♓54'46	0°29'02
morning rise	-10055 May 29 j 05:44	7°♓56'15	
retrograde	-10055 Aug 28 j 08:01	11°♓18'41	
opposition	-10055 Nov 09 j 11:45	9°♓16'17	-0°29'18
min. Earth dist.	-10055 Nov 10 j 17:33	9°♓13'02	17.21904 AU
direct	-10054 Jan 25 j 03:28	7°♓08'59	
evening set	-10054 May 01 j 15:19	10°♓41'36	
max. Earth dist.	-10054 May 16 j 16:54	11°♓38'26	19.20752 AU
conjunction	-10054 May 18 j 02:12	11°♓43'43	-0°23'35
minimum elong	-10054 May 18 j 02:13	11°♓43'43	0°23'50
morning rise	-10054 Jun 03 j 08:25	12°♓45'09	
retrograde	-10054 Sep 02 j 09:08	16°♓07'52	
opposition	-10054 Nov 14 j 14:14	14°♓05'30	-0°23'27
min. Earth dist.	-10054 Nov 15 j 19:42	14°♓02'17	17.19895 AU
direct	-10053 Jan 30 j 06:43	11°♓58'11	
evening set	-10053 May 06 j 20:27	15°♓31'13	
max. Earth dist.	-10053 May 21 j 21:04	16°♓28'02	19.19117 AU
conjunction	-10053 May 23 j 05:56	16°♓33'16	-0°18'16
minimum elong	-10053 May 23 j 05:56	16°♓33'16	0°18'28
morning rise	-10053 Jun 08 j 11:03	17°♓34'40	
retrograde	-10053 Sep 07 j 11:28	20°♓57'38	
opposition	-10053 Nov 19 j 17:12	18°♓55'18	-0°17'25
min. Earth dist.	-10053 Nov 20 j 20:45	18°♓52'18	17.18619 AU
direct	-10052 Feb 04 j 11:27	16°♓48'02	
evening set	-10052 May 11 j 01:19	20°♓21'21	
max. Earth dist.	-10052 May 26 j 03:41	21°♓18'33	19.18203 AU
conjunction	-10052 May 27 j 09:42	21°♓23'20	-0°12'48
minimum elong	-10052 May 27 j 09:42	21°♓23'20	0°12'57
behind sun begin	-10052 May 27 j 05:38	21°♓22'42	
behind sun end	-10052 May 27 j 13:46	21°♓23'58	
morning rise	-10052 Jun 12 j 13:24	22°♓24'40	
retrograde	-10052 Sep 11 j 13:34	25°♓47'48	

Attention, astronomical year style is used: The year -10052 in astronomical counting style is the year 10053 BCE in historical counting style.

opposition	-10052 Nov 23 j 20:47	23°♓45'34	-0°11'15	
min. Earth dist.	-10052 Nov 24 j 23:24	23°♓42'40	17.18047 AU	
direct	-10051 Feb 08 j 16:02	21°♓38'26		
evening set	-10051 May 16 j 06:02	25°♓11'53		
max. Earth dist.	-10051 May 31 j 07:38	26°♓09'05	19.17982 AU	
conjunction	-10051 Jun 01 j 12:59	26°♓13'46	-0°07'15	
minimum elong	-10051 Jun 01 j 12:59	26°♓13'46	0°07'21	
behind sun begin	-10051 Jun 01 j 06:52	26°♓12'49		
behind sun end	-10051 Jun 01 j 19:05	26°♓14'43		
morning rise	-10051 Jun 17 j 15:35	27°♓14'59		
	-10051 Aug 10 j 17:50	0°♈		
retrograde	-10051 Sep 16 j 15:17	0°♈38'17		
	-10051 Oct 24 j 12:50	30°℞♓		
opposition	-10051 Nov 29 j 00:46	28°♓36'07	-0°04'59	
min. Earth dist.	-10051 Nov 30 j 01:41	28°♓33'25	17.18153 AU	
direct	-10050 Feb 13 j 21:25	26°♓29'08		
	-10050 May 20 j 17:38	0°♈		
evening set	-10050 May 21 j 10:27	0°♈02'37		
conjunction	-10050 Jun 06 j 16:11	1°♈04'21	-0°01'37	
minimum elong	-10050 Jun 06 j 16:11	1°♈04'21	0°01'40	
behind sun begin	-10050 Jun 06 j 09:31	1°♈03'19		
behind sun end	-10050 Jun 06 j 22:51	1°♈05'23		
max. Earth dist.	-10050 Jun 05 j 13:46	1°♈00'08	19.18404 AU	
morning rise	-10050 Jun 22 j 17:23	2°♈05'27		
asc. node	-10050 Sep 19 j 02:32	5°♈28'37		
retrograde	-10050 Sep 21 j 17:19	5°♈28'48		
opposition	-10050 Dec 04 j 05:13	3°♈26'45	0°01'20	
min. Earth dist.	-10050 Dec 05 j 04:39	3°♈24'13	17.18867 AU	
direct	-10049 Feb 19 j 04:03	1°♈19'59		
evening set	-10049 May 26 j 14:40	4°♈53'18		
conjunction	-10049 Jun 11 j 18:53	5°♈54'52	0°04'09	
minimum elong	-10049 Jun 11 j 18:54	5°♈54'52	0°04'10	
behind sun begin	-10049 Jun 11 j 12:20	5°♈53'50		
behind sun end	-10049 Jun 12 j 01:27	5°♈55'53		
max. Earth dist.	-10049 Jun 10 j 17:30	5°♈50'49	19.19420 AU	
morning rise	-10049 Jun 27 j 18:55	6°♈55'48		
retrograde	-10049 Sep 26 j 18:15	10°♈19'12		
opposition	-10049 Dec 09 j 10:06	8°♈17'12	0°07'37	
min. Earth dist.	-10049 Dec 10 j 07:58	8°♈14'50	17.20176 AU	
direct	-10048 Feb 24 j 10:03	6°♈10'38		
evening set	-10048 May 30 j 18:06	9°♈43'39		
conjunction	-10048 Jun 15 j 21:05	10°♈45'02	0°09'44	
minimum elong	-10048 Jun 15 j 21:05	10°♈45'02	0°09'46	
behind sun begin	-10048 Jun 15 j 15:38	10°♈44'11		
behind sun end	-10048 Jun 16 j 02:32	10°♈45'53		
max. Earth dist.	-10048 Jun 14 j 22:32	10°♈41'26	19.21008 AU	
morning rise	-10048 Jul 01 j 19:49	11°♈45'48		
retrograde	-10048 Sep 30 j 20:02	15°♈09'07		
opposition	-10048 Dec 13 j 15:07	13°♈07'12	0°13'51	
min. Earth dist.	-10048 Dec 14 j 10:46	13°♈05'05	17.22018 AU	
direct	-10047 Feb 28 j 17:40	11°♈00'52		
evening set	-10047 Jun 04 j 21:11	14°♈33'26		
conjunction	-10047 Jun 20 j 22:46	15°♈34'35	0°15'15	
minimum elong	-10047 Jun 20 j 22:46	15°♈34'35	0°15'21	
behind sun begin	-10047 Jun 20 j 20:39	15°♈34'16		
behind sun end	-10047 Jun 21 j 00:53	15°♈34'55		
max. Earth dist.	-10047 Jun 20 j 01:45	15°♈31'14	19.23115 AU	
morning rise	-10047 Jul 06 j 20:21	16°♈35'10		
retrograde	-10047 Oct 05 j 20:09	19°♈58'22		
opposition	-10047 Dec 18 j 20:05	17°♈56'30	0°19'58	
min. Earth dist.	-10047 Dec 19 j 14:24	17°♈54'32	17.24389 AU	
direct	-10046 Mar 05 j 23:00	15°♈50'22		
evening set	-10046 Jun 09 j 23:32	19°♈22'23		
conjunction	-10046 Jun 25 j 23:50	20°♈23'18	0°20'39	
minimum elong	-10046 Jun 25 j 23:49	20°♈23'18	0°20'47	
max. Earth dist.	-10046 Jun 25 j 05:25	20°♈20'21	19.25748 AU	
morning rise	-10046 Jul 11 j 20:15	21°♈23'39		
retrograde	-10046 Oct 10 j 21:47	24°♈46'39		
opposition	-10046 Dec 24 j 01:07	22°♈44'50	0°25'55	
min. Earth dist.	-10046 Dec 24 j 16:32	22°♈43'11	17.27263 AU	
direct	-10045 Mar 11 j 06:14	20°♈38'57		
evening set	-10045 Jun 15 j 01:00	24°♈10'14		
conjunction	-10045 Jun 30 j 23:59	25°♈10'53	0°25'53	
minimum elong	-10045 Jun 30 j 23:59	25°♈10'53	0°26'04	
max. Earth dist.	-10045 Jun 30 j 07:59	25°♈08'20	19.28881 AU	
morning rise	-10045 Jul 16 j 19:17	26°♈11'01		
retrograde	-10045 Oct 15 j 21:11	29°♈33'46		
opposition	-10045 Dec 29 j 06:08	27°♈31'58	0°31'39	
min. Earth dist.	-10045 Dec 29 j 20:06	27°♈30'29	17.30660 AU	
direct	-10044 Mar 15 j 10:38	25°♈26'20		
evening set	-10044 Jun 19 j 01:39	28°♈56'47		
conjunction	-10044 Jul 04 j 23:21	29°♈57'09	0°30'55	
minimum elong	-10044 Jul 04 j 23:21	29°♈57'09	0°31'09	
max. Earth dist.	-10044 Jul 04 j 09:54	29°♈55'01	19.32547 AU	
	-10044 Jul 05 j 17:12	0°♉		
morning rise	-10044 Jul 20 j 17:42	0°♉57'03		
retrograde	-10044 Oct 19 j 22:17	4°♉19'28		
opposition	-10043 Jan 02 j 10:36	2°♉17'42	0°37'09	
min. Earth dist.	-10043 Jan 02 j 21:07	2°♉16'35	17.34580 AU	
direct	-10043 Mar 20 j 16:51	0°♉12'20		
evening set	-10043 Jun 24 j 01:16	3°♉41'50		
conjunction	-10043 Jul 09 j 21:51	4°♉41'55	0°35'42	
minimum elong	-10043 Jul 09 j 21:51	4°♉41'55	0°35'59	
max. Earth dist.	-10043 Jul 09 j 11:32	4°♉40'17	19.36732 AU	
morning rise	-10043 Jul 25 j 15:10	5°♉41'33		
retrograde	-10043 Oct 24 j 20:30	9°♉03'36		
opposition	-10042 Jan 07 j 14:57	7°♉01'53	0°42'21	
min. Earth dist.	-10042 Jan 07 j 23:52	7°♉00'56	17.39038 AU	
direct	-10042 Mar 25 j 19:49	4°♉56'49		
evening set	-10042 Jun 29 j 00:00	8°♉25'16		
conjunction	-10042 Jul 14 j 19:19	9°♉25'03	0°40'14	
minimum elong	-10042 Jul 14 j 19:19	9°♉25'03	0°40'34	
max. Earth dist.	-10042 Jul 14 j 11:26	9°♉23'48	19.41465 AU	
morning rise	-10042 Jul 30 j 11:50	10°♉24'25		
retrograde	-10042 Oct 29 j 21:05	13°♉46'04		
opposition	-10041 Jan 12 j 18:46	11°♉44'23	0°47'14	
min. Earth dist.	-10041 Jan 12 j 23:45	11°♉43'52	17.44039 AU	
direct	-10041 Mar 31 j 00:42	9°♉39'40		
evening set	-10041 Jul 03 j 21:44	13°♉07'00		
conjunction	-10041 Jul 19 j 16:02	14°♉06'28	0°44'28	
minimum elong	-10041 Jul 19 j 16:02	14°♉06'28	0°44'49	
max. Earth dist.	-10041 Jul 19 j 11:53	14°♉05'49	19.46738 AU	
	-10041 Aug 02 j 19:45	15°♉		
morning rise	-10041 Aug 04 j 07:36	15°♉05'34		
retrograde	-10041 Nov 03 j 18:14	18°♉26'46		
opposition	-10040 Jan 17 j 22:17	16°♉25'11	0°51'47	
min. Earth dist.	-10040 Jan 18 j 01:20	16°♉24'52	17.49588 AU	
	-10040 Feb 24 j 01:53	15°℞♉		
direct	-10040 Apr 04 j 02:25	14°♉20'52		
	-10040 May 13 j 00:02	15°♉		
evening set	-10040 Jul 07 j 18:29	17°♉47'00		
conjunction	-10040 Jul 23 j 11:40	18°♉46'09	0°48'23	

Attention, astronomical year style is used: The year -10040 in astronomical counting style is the year 10041 BCE in historical counting style.

minimum elong	-10040 Jul 23 j 11:40	18°♉46'09	0°48'46	
max. Earth dist.	-10040 Jul 23 j 09:43	18°♉45'51	19.52553 AU	
morning rise	-10040 Aug 08 j 02:41	19°♉44'58		
retrograde	-10040 Nov 07 j 17:58	23°♉05'43		
opposition	-10039 Jan 22 j 01:03	21°♉04'14	0°55'57	
min. Earth dist.	-10039 Jan 22 j 00:13	21°♉04'19	17.55649 AU	
direct	-10039 Apr 09 j 05:49	19°♉00'21		
evening set	-10039 Jul 12 j 14:14	22°♉25'16		
conjunction	-10039 Jul 28 j 06:38	23°♉24'05	0°51'58	
minimum elong	-10039 Jul 28 j 06:37	23°♉24'05	0°52'24	
max. Earth dist.	-10039 Jul 28 j 08:34	23°♉24'24	19.58842 AU	
morning rise	-10039 Aug 12 j 20:50	24°♉22'37		
retrograde	-10039 Nov 12 j 13:55	27°♉42'52		
opposition	-10038 Jan 27 j 03:18	25°♉41'33	0°59'44	
min. Earth dist.	-10038 Jan 27 j 00:33	25°♉41'50	17.62153 AU	
direct	-10038 Apr 14 j 06:36	23°♉38'09		
evening set	-10038 Jul 17 j 09:10	27°♉01'47		
conjunction	-10038 Aug 02 j 00:33	28°♉00'16	0°55'12	
minimum elong	-10038 Aug 02 j 00:33	28°♉00'16	0°55'39	
max. Earth dist.	-10038 Aug 02 j 04:22	28°♉00'52	19.65552 AU	
morning rise	-10038 Aug 17 j 14:23	28°♉58'31		
	-10038 Sep 04 j 00:07	0°♊		
retrograde	-10038 Nov 17 j 12:13	2°♊18'15		
opposition	-10037 Feb 01 j 05:01	0°♊17'06	1°03'07	
min. Earth dist.	-10037 Jan 31 j 22:45	0°♊17'45	17.69042 AU	
	-10037 Feb 08 j 01:58	30°℞♉		
direct	-10037 Apr 19 j 08:32	28°♉14'11		
	-10037 Jun 23 j 15:17	0°♊		
evening set	-10037 Jul 22 j 02:55	1°♊36'29		
conjunction	-10037 Aug 06 j 17:42	2°♊34'39	0°58'04	
minimum elong	-10037 Aug 06 j 17:41	2°♊34'39	0°58'33	
max. Earth dist.	-10037 Aug 07 j 01:24	2°♊35'51	19.72588 AU	
morning rise	-10037 Aug 22 j 06:55	3°♊32'37		
retrograde	-10037 Nov 22 j 06:48	6°♊51'49		
opposition	-10036 Feb 06 j 06:11	4°♊50'50	1°06'04	
min. Earth dist.	-10036 Feb 05 j 21:59	4°♊51'41	17.76208 AU	
direct	-10036 Apr 23 j 08:31	2°♊48'25		
evening set	-10036 Jul 25 j 20:01	6°♊09'21		
conjunction	-10036 Aug 10 j 09:58	7°♊07'11	1°00'32	
minimum elong	-10036 Aug 10 j 09:57	7°♊07'10	1°01'02	
max. Earth dist.	-10036 Aug 10 j 19:08	7°♊08'36	19.79864 AU	
morning rise	-10036 Aug 25 j 23:00	8°♊04'52		
retrograde	-10036 Nov 26 j 03:09	11°♊23'29		
opposition	-10035 Feb 10 j 06:21	9°♊22'39	1°08'35	
min. Earth dist.	-10035 Feb 09 j 19:19	9°♊23'47	17.83582 AU	
direct	-10035 Apr 28 j 07:45	7°♊20'42		
evening set	-10035 Jul 30 j 12:02	10°♊40'15		
conjunction	-10035 Aug 15 j 01:34	11°♊37'46	1°02'37	
minimum elong	-10035 Aug 15 j 01:34	11°♊37'46	1°03'09	
max. Earth dist.	-10035 Aug 15 j 14:11	11°♊39'43	19.87291 AU	
morning rise	-10035 Aug 30 j 14:11	12°♊35'10		
retrograde	-10035 Nov 30 j 20:39	15°♊53'11		
opposition	-10034 Feb 15 j 05:58	13°♊52'30	1°10'39	
min. Earth dist.	-10034 Feb 14 j 17:00	13°♊53'50	17.91051 AU	
direct	-10034 May 03 j 06:16	11°♊51'01		
evening set	-10034 Aug 04 j 03:12	15°♊09'08		
conjunction	-10034 Aug 19 j 16:04	16°♊06'19	1°04'18	
minimum elong	-10034 Aug 19 j 16:03	16°♊06'19	1°04'51	
max. Earth dist.	-10034 Aug 20 j 05:52	16°♊08'27	19.94785 AU	
morning rise	-10034 Sep 04 j 04:40	17°♊03'28		
retrograde	-10034 Dec 05 j 14:56	20°♊20'51		

opposition	-10033 Feb 20 j 04:49	18°♊20'17	1°12'16	
min. Earth dist.	-10033 Feb 19 j 13:31	18°♊21'51	17.98568 AU	
direct	-10033 May 08 j 02:40	16°♊19'14		
evening set	-10033 Aug 08 j 17:22	19°♊35'53		
conjunction	-10033 Aug 24 j 06:01	20°♊32'47	1°05'34	
minimum elong	-10033 Aug 24 j 06:01	20°♊32'47	1°06'08	
max. Earth dist.	-10033 Aug 24 j 22:58	20°♊35'23	20.02289 AU	
morning rise	-10033 Sep 08 j 18:25	21°♊29'39		
retrograde	-10033 Dec 10 j 07:41	24°♊46'23		
min. Earth dist.	-10032 Feb 24 j 09:22	22°♊47'41	18.06054 AU	
opposition	-10032 Feb 25 j 02:40	22°♊45'55	1°13'26	
direct	-10032 May 11 j 23:41	20°♊45'16		
evening set	-10032 Aug 12 j 06:40	24°♊00'27		
conjunction	-10032 Aug 27 j 18:54	24°♊57'03	1°06'27	
minimum elong	-10032 Aug 27 j 18:54	24°♊57'03	1°07'02	
max. Earth dist.	-10032 Aug 28 j 12:49	24°♊59'47	20.09747 AU	
morning rise	-10032 Sep 12 j 07:33	25°♊53'41		
retrograde	-10032 Dec 14 j 00:15	29°♊09'43		
opposition	-10031 Feb 28 j 23:38	27°♊09'19	1°14'09	
min. Earth dist.	-10031 Feb 28 j 04:36	27°♊11'15	18.13488 AU	
direct	-10031 May 16 j 17:33	25°♊09'01		
evening set	-10031 Aug 16 j 18:50	28°♊22'46		
conjunction	-10031 Sep 01 j 07:04	29°♊19'04	1°06'56	
minimum elong	-10031 Sep 01 j 07:04	29°♊19'04	1°07'30	
max. Earth dist.	-10031 Sep 02 j 03:53	29°♊22'14	20.17135 AU	
	-10031 Sep 12 j 12:23	0°♋		
morning rise	-10031 Sep 16 j 19:40	0°♋15'27		
retrograde	-10031 Dec 18 j 15:43	3°♋30'47		
opposition	-10030 Mar 05 j 19:32	1°♋30'26	1°14'27	
min. Earth dist.	-10030 Mar 04 j 22:19	1°♋32'36	18.20834 AU	
	-10030 Apr 16 j 16:50	30°℞♊		
direct	-10030 May 21 j 12:52	29°♊30'30		
	-10030 Jun 24 j 07:48	0°♋		
evening set	-10030 Aug 21 j 06:15	2°♋42'47		
conjunction	-10030 Sep 05 j 18:14	3°♋38'49	1°07'02	
minimum elong	-10030 Sep 05 j 18:14	3°♋38'49	1°07'37	
max. Earth dist.	-10030 Sep 06 j 16:08	3°♋42'08	20.24448 AU	
morning rise	-10030 Sep 21 j 07:14	4°♋34'59		
retrograde	-10030 Dec 23 j 06:45	7°♋49'37		
opposition	-10029 Mar 10 j 14:38	5°♋49'17	1°14'19	
min. Earth dist.	-10029 Mar 09 j 15:59	5°♋51'35	18.28131 AU	
direct	-10029 May 26 j 04:57	3°♋49'41		
evening set	-10029 Aug 25 j 16:31	7°♋00'32		
conjunction	-10029 Sep 10 j 04:41	7°♋56'19	1°06'45	
minimum elong	-10029 Sep 10 j 04:41	7°♋56'19	1°07'20	
max. Earth dist.	-10029 Sep 11 j 05:24	8°♋00'03	20.31710 AU	
morning rise	-10029 Sep 25 j 17:53	8°♋52'15		
retrograde	-10029 Dec 27 j 20:59	12°♋06'11		
min. Earth dist.	-10028 Mar 13 j 07:33	10°♋08'27	18.35363 AU	
opposition	-10028 Mar 14 j 08:36	10°♋05'54	1°13'47	
direct	-10028 May 29 j 22:06	8°♋06'38		
evening set	-10028 Aug 29 j 02:14	11°♋16'07		
conjunction	-10028 Sep 13 j 14:21	12°♋11'39	1°06'07	
minimum elong	-10028 Sep 13 j 14:22	12°♋11'39	1°06'41	
max. Earth dist.	-10028 Sep 14 j 16:05	12°♋15'31	20.38911 AU	
morning rise	-10028 Sep 29 j 04:06	13°♋07'23		
retrograde	-10028 Dec 31 j 10:27	16°♋20'39		
min. Earth dist.	-10027 Mar 17 j 23:25	14°♋23'03	18.42552 AU	
opposition	-10027 Mar 19 j 01:32	14°♋20'25	1°12'50	
direct	-10027 Jun 03 j 12:00	12°♋21'29		
evening set	-10027 Sep 02 j 10:59	15°♋29'39		

Attention, astronomical year style is used: The year -10027 in astronomical counting style is the year 10028 BCE in historical counting style.

conjunction	-10027 Sep 17 j 23:27	16°♋24'57	1°05'08
minimum elong	-10027 Sep 17 j 23:27	16°♋24'57	1°05'42
max. Earth dist.	-10027 Sep 19 j 03:39	16°♋29'10	20.46066 AU
morning rise	-10027 Oct 03 j 13:31	17°♋20'30	
retrograde	-10026 Jan 04 j 23:34	20°♋33'06	
opposition	-10026 Mar 23 j 17:34	18°♋32'58	1°11'31
min. Earth dist.	-10026 Mar 22 j 13:04	18°♋35'51	18.49665 AU
direct	-10026 Jun 08 j 02:49	16°♋34'24	
evening set	-10026 Sep 06 j 19:03	19°♋41'19	
conjunction	-10026 Sep 22 j 07:39	20°♋36'23	1°03'48
minimum elong	-10026 Sep 22 j 07:40	20°♋36'23	1°04'21
max. Earth dist.	-10026 Sep 23 j 12:49	20°♋40'44	20.53131 AU
morning rise	-10026 Oct 07 j 22:26	21°♋31'46	
retrograde	-10025 Jan 09 j 11:46	24°♋43'46	
min. Earth dist.	-10025 Mar 27 j 03:45	22°♋46'41	18.56684 AU
opposition	-10025 Mar 28 j 08:56	22°♋43'44	1°09'50
direct	-10025 Jun 12 j 14:47	20°♋45'32	
evening set	-10025 Sep 11 j 02:29	23°♋51'15	
conjunction	-10025 Sep 26 j 15:37	24°♋46'08	1°02'08
minimum elong	-10025 Sep 26 j 15:38	24°♋46'09	1°02'42
max. Earth dist.	-10025 Sep 27 j 22:51	24°♋50'46	20.60077 AU
morning rise	-10025 Oct 12 j 06:56	25°♋41'21	
retrograde	-10024 Jan 14 j 00:24	28°♋52'46	
opposition	-10024 Mar 31 j 23:05	26°♋52'52	1°07'47
min. Earth dist.	-10024 Mar 30 j 15:53	26°♋56'00	18.63536 AU
direct	-10024 Jun 16 j 03:23	24°♋55'02	
evening set	-10024 Sep 14 j 09:28	27°♋59'37	
conjunction	-10024 Sep 29 j 22:55	28°♋54'20	1°00'10
minimum elong	-10024 Sep 29 j 22:56	28°♋54'20	1°00'42
max. Earth dist.	-10024 Oct 01 j 06:44	28°♋59'01	20.66819 AU
morning rise	-10024 Oct 15 j 15:04	29°♋49'25	
	-10024 Oct 18 j 17:01	0°♌	
retrograde	-10023 Jan 17 j 11:03	3°♌00'16	
min. Earth dist.	-10023 Apr 04 j 05:29	1°♌03'37	18.70164 AU
opposition	-10023 Apr 05 j 12:40	1°♌00'29	1°05'24
	-10023 May 01 j 20:52	30°℞♋	
direct	-10023 Jun 20 j 13:44	29°♋03'01	
	-10023 Aug 07 j 03:07	0°♌	
evening set	-10023 Sep 18 j 15:46	2°♌06'32	
conjunction	-10023 Oct 04 j 05:52	3°♌01'06	0°57'53
minimum elong	-10023 Oct 04 j 05:52	3°♌01'06	0°58'25
max. Earth dist.	-10023 Oct 05 j 15:13	3°♌06'00	20.73305 AU
morning rise	-10023 Oct 19 j 22:37	3°♌56'02	
retrograde	-10022 Jan 21 j 23:22	7°♌06'22	
min. Earth dist.	-10022 Apr 08 j 16:31	5°♌10'01	18.76487 AU
opposition	-10022 Apr 10 j 01:20	5°♌06'43	1°02'42
direct	-10022 Jun 25 j 00:52	3°♌09'35	
evening set	-10022 Sep 22 j 21:53	6°♌12'06	
conjunction	-10022 Oct 08 j 12:25	7°♌06'31	0°55'19
minimum elong	-10022 Oct 08 j 12:25	7°♌06'31	0°55'49
max. Earth dist.	-10022 Oct 09 j 21:59	7°♌11'26	20.79451 AU
morning rise	-10022 Oct 24 j 06:07	8°♌01'22	
retrograde	-10021 Jan 26 j 08:33	11°♌11'11	
min. Earth dist.	-10021 Apr 13 j 05:11	9°♌14'53	18.82453 AU
opposition	-10021 Apr 14 j 13:24	9°♌11'39	0°59'41
direct	-10021 Jun 29 j 09:36	7°♌14'49	
evening set	-10021 Sep 27 j 03:27	10°♌16'22	
conjunction	-10021 Oct 12 j 18:48	11°♌10'40	0°52'29
minimum elong	-10021 Oct 12 j 18:48	11°♌10'40	0°52'58
max. Earth dist.	-10021 Oct 14 j 05:17	11°♌15'42	20.85209 AU
morning rise	-10021 Oct 28 j 13:17	12°♌05'25	
	-10020 Jan 06 j 03:16	15°♌	
retrograde	-10020 Jan 30 j 20:05	15°♌14'45	
	-10020 Feb 24 j 18:24	15°℞♌	
min. Earth dist.	-10020 Apr 16 j 15:11	13°♌18'39	18.87980 AU
opposition	-10020 Apr 18 j 00:33	13°♌15'18	0°56'23
direct	-10020 Jul 02 j 19:47	11°♌18'44	
evening set	-10020 Sep 30 j 08:53	14°♌19'24	
	-10020 Oct 12 j 03:16	15°♌	
conjunction	-10020 Oct 16 j 00:49	15°♌13'36	0°49'24
minimum elong	-10020 Oct 16 j 00:49	15°♌13'36	0°49'52
max. Earth dist.	-10020 Oct 17 j 10:59	15°♌18'33	20.90492 AU
morning rise	-10020 Oct 31 j 20:18	16°♌08'16	
retrograde	-10019 Feb 03 j 03:53	19°♌17'08	
min. Earth dist.	-10019 Apr 21 j 02:44	17°♌20'58	18.93023 AU
opposition	-10019 Apr 22 j 11:00	17°♌17'44	0°52'49
direct	-10019 Jul 07 j 02:47	15°♌21'22	
evening set	-10019 Oct 04 j 13:47	18°♌21'12	
conjunction	-10019 Oct 20 j 06:38	19°♌15'18	0°46'06
minimum elong	-10019 Oct 20 j 06:38	19°♌15'18	0°46'31
max. Earth dist.	-10019 Oct 21 j 17:14	19°♌20'19	20.95289 AU
morning rise	-10019 Nov 05 j 02:59	20°♌09'54	
retrograde	-10018 Feb 07 j 13:55	23°♌18'19	
min. Earth dist.	-10018 Apr 25 j 11:32	21°♌22'16	18.97558 AU
opposition	-10018 Apr 26 j 20:43	21°♌18'57	0°49'02
direct	-10018 Jul 11 j 12:02	19°♌22'44	
evening set	-10018 Oct 08 j 18:22	22°♌21'47	
conjunction	-10018 Oct 24 j 11:57	23°♌15'49	0°42'35
minimum elong	-10018 Oct 24 j 11:58	23°♌15'49	0°42'59
max. Earth dist.	-10018 Oct 25 j 22:06	23°♌20'45	20.99570 AU
morning rise	-10018 Nov 09 j 09:26	24°♌10'23	
retrograde	-10017 Feb 11 j 20:56	27°♌18'21	
min. Earth dist.	-10017 Apr 29 j 22:01	25°♌22'09	19.01591 AU
opposition	-10017 May 01 j 05:53	25°♌18'58	0°45'01
direct	-10017 Jul 15 j 17:54	23°♌22'52	
evening set	-10017 Oct 12 j 22:40	26°♌21'12	
conjunction	-10017 Oct 28 j 17:17	27°♌15'11	0°38'53
minimum elong	-10017 Oct 28 j 17:17	27°♌15'11	0°39'14
max. Earth dist.	-10017 Oct 30 j 03:40	27°♌20'07	21.03368 AU
morning rise	-10017 Nov 13 j 15:43	28°♌09'42	
	-10017 Dec 20 j 07:33	0°♍	
retrograde	-10016 Feb 16 j 05:34	1°♍17'15	
	-10016 Apr 16 j 15:15	30°℞♌	
min. Earth dist.	-10016 May 03 j 05:25	29°♌21'06	19.05147 AU
opposition	-10016 May 04 j 13:59	29°♌17'50	0°40'49
direct	-10016 Jul 19 j 01:36	27°♌21'49	
	-10016 Oct 10 j 05:33	0°♍	
evening set	-10016 Oct 16 j 02:50	0°♍19'31	
conjunction	-10016 Oct 31 j 22:14	1°♍13'27	0°35'00
minimum elong	-10016 Oct 31 j 22:15	1°♍13'27	0°35'21
max. Earth dist.	-10016 Nov 02 j 08:03	1°♍18'17	21.06695 AU
morning rise	-10016 Nov 16 j 21:49	2°♍07'57	
retrograde	-10015 Feb 19 j 12:00	5°♍15'07	
opposition	-10015 May 08 j 21:43	3°♍15'40	0°36'27
min. Earth dist.	-10015 May 07 j 14:31	3°♍18'47	19.08264 AU
direct	-10015 Jul 23 j 06:17	1°♍19'42	
evening set	-10015 Oct 20 j 06:33	4°♍16'50	
conjunction	-10015 Nov 05 j 03:01	5°♍10'45	0°31'00
minimum elong	-10015 Nov 05 j 03:01	5°♍10'45	0°31'17
max. Earth dist.	-10015 Nov 06 j 13:02	5°♍15'36	21.09613 AU
morning rise	-10015 Nov 21 j 03:33	6°♍05'14	
retrograde	-10014 Feb 23 j 19:45	9°♍12'05	

Attention, astronomical year style is used: The year -10014 in astronomical counting style is the year 10015 BCE in historical counting style.

min. Earth dist.	-10014 May 11 j 20:49	7°♍15'48	19.10978 AU
opposition	-10014 May 13 j 04:44	7°♍12'36	0°31'55
direct	-10014 Jul 27 j 12:34	5°♍16'41	
evening set	-10014 Oct 24 j 10:27	8°♍13'20	
conjunction	-10014 Nov 09 j 07:46	9°♍07'15	0°26'51
minimum elong	-10014 Nov 09 j 07:46	9°♍07'15	0°27'07
max. Earth dist.	-10014 Nov 10 j 17:07	9°♍12'00	21.12129 AU
morning rise	-10014 Nov 25 j 09:29	10°♍01'45	
retrograde	-10013 Feb 28 j 01:57	13°♍08'19	
min. Earth dist.	-10013 May 16 j 04:54	11°♍11'52	19.13306 AU
opposition	-10013 May 17 j 11:18	11°♍08'49	0°27'16
direct	-10013 Jul 31 j 15:56	9°♍12'57	
evening set	-10013 Oct 28 j 14:11	12°♍09'13	
conjunction	-10013 Nov 13 j 12:40	13°♍03'09	0°22'35
minimum elong	-10013 Nov 13 j 12:41	13°♍03'09	0°22'50
max. Earth dist.	-10013 Nov 14 j 21:54	13°♍07'53	21.14271 AU
morning rise	-10013 Nov 29 j 15:24	13°♍57'41	
retrograde	-10012 Mar 03 j 09:40	17°♍04'01	
min. Earth dist.	-10012 May 19 j 10:30	15°♍07'36	19.15242 AU
opposition	-10012 May 20 j 17:18	15°♍04'31	0°22'30
direct	-10012 Aug 03 j 21:11	13°♍08'42	
evening set	-10012 Oct 31 j 18:06	16°♍04'41	
conjunction	-10012 Nov 16 j 17:28	16°♍58'39	0°18'14
minimum elong	-10012 Nov 16 j 17:28	16°♍58'39	0°18'25
max. Earth dist.	-10012 Nov 18 j 01:44	17°♍03'13	21.16000 AU
morning rise	-10012 Dec 02 j 21:21	17°♍53'13	
retrograde	-10011 Mar 07 j 15:36	20°♍59'23	
opposition	-10011 May 24 j 23:00	18°♍59'54	0°17'37
min. Earth dist.	-10011 May 23 j 18:02	19°♍02'48	19.16764 AU
direct	-10011 Aug 07 j 23:39	17°♍04'08	
evening set	-10011 Nov 04 j 22:00	19°♍59'54	
conjunction	-10011 Nov 20 j 22:33	20°♍53'55	0°13'48
minimum elong	-10011 Nov 20 j 22:33	20°♍53'55	0°13'58
behind sun begin	-10011 Nov 20 j 19:12	20°♍53'28	
behind sun end	-10011 Nov 21 j 01:55	20°♍54'23	
max. Earth dist.	-10011 Nov 22 j 06:22	20°♍58'25	21.17321 AU
morning rise	-10011 Dec 07 j 03:27	21°♍48'33	
retrograde	-10010 Mar 11 j 23:46	24°♍54'35	
min. Earth dist.	-10010 May 27 j 23:19	22°♍58'03	19.17854 AU
opposition	-10010 May 29 j 04:19	22°♍55'08	0°12'40
direct	-10010 Aug 12 j 04:12	20°♍59'24	
evening set	-10010 Nov 09 j 02:14	23°♍55'04	
conjunction	-10010 Nov 25 j 03:46	24°♍49'09	0°09'18
minimum elong	-10010 Nov 25 j 03:45	24°♍49'09	0°09'24
behind sun begin	-10010 Nov 24 j 22:12	24°♍48'23	
behind sun end	-10010 Nov 25 j 09:18	24°♍49'55	
max. Earth dist.	-10010 Nov 26 j 10:13	24°♍53'27	21.18176 AU
morning rise	-10010 Dec 11 j 09:50	25°♍43'51	
retrograde	-10009 Mar 16 j 05:45	28°♍49'49	
min. Earth dist.	-10009 Jun 01 j 06:49	26°♍53'05	19.18461 AU
opposition	-10009 Jun 02 j 09:31	26°♍50'24	0°07'39
direct	-10009 Aug 16 j 06:33	24°♍54'40	
evening set	-10009 Nov 13 j 06:48	27°♍50'19	
conjunction	-10009 Nov 29 j 09:30	28°♍44'29	0°04'45
minimum elong	-10009 Nov 29 j 09:30	28°♍44'29	0°04'50
behind sun begin	-10009 Nov 29 j 03:01	28°♍43'36	
behind sun end	-10009 Nov 29 j 15:59	28°♍45'23	
max. Earth dist.	-10009 Nov 30 j 14:55	28°♍48'39	21.18536 AU
morning rise	-10009 Dec 15 j 16:33	29°♍39'17	
	-10009 Dec 22 j 00:58	0°♎	
retrograde	-10008 Mar 19 j 14:11	2°♎45'12	
opposition	-10008 Jun 05 j 14:13	0°♎45'48	0°02'35
min. Earth dist.	-10008 Jun 04 j 12:03	0°♎48'27	19.18543 AU
	-10008 Jun 25 j 00:48	30°℞♍	
direct	-10008 Aug 19 j 10:42	28°♍50'04	
	-10008 Oct 11 j 16:49	0°♎	
evening set	-10008 Nov 16 j 11:50	1°♎45'47	
conjunction	-10008 Dec 02 j 15:29	2°♎40'04	0°00'06
minimum elong	-10008 Dec 02 j 15:29	2°♎40'04	0°00'08
behind sun begin	-10008 Dec 02 j 08:57	2°♎39'10	
behind sun end	-10008 Dec 02 j 22:01	2°♎40'57	
max. Earth dist.	-10008 Dec 03 j 18:59	2°♎43'56	21.18333 AU
desc. node	-10008 Dec 10 j 21:19	3°♎07'56	
morning rise	-10008 Dec 18 j 23:38	3°♎34'57	
retrograde	-10007 Mar 23 j 20:19	6°♎40'53	
opposition	-10007 Jun 09 j 19:06	4°♎41'30	-0°02'29
min. Earth dist.	-10007 Jun 08 j 19:33	4°♎43'52	19.18052 AU
direct	-10007 Aug 23 j 13:13	2°♎45'42	
evening set	-10007 Nov 20 j 16:57	5°♎41'32	
conjunction	-10007 Dec 06 j 21:46	6°♎35'56	-0°04'34
minimum elong	-10007 Dec 06 j 21:47	6°♎35'56	0°04'34
behind sun begin	-10007 Dec 06 j 15:15	6°♎35'03	
behind sun end	-10007 Dec 07 j 04:18	6°♎36'50	
max. Earth dist.	-10007 Dec 07 j 23:48	6°♎39'36	21.17553 AU
morning rise	-10007 Dec 23 j 06:54	7°♎30'57	
retrograde	-10006 Mar 28 j 04:54	10°♎36'56	
opposition	-10006 Jun 13 j 23:45	8°♎37'30	-0°07'33
min. Earth dist.	-10006 Jun 13 j 00:59	8°♎39'49	19.16957 AU
direct	-10006 Aug 27 j 17:32	6°♎41'36	
evening set	-10006 Nov 24 j 22:47	9°♎37'39	
conjunction	-10006 Dec 11 j 04:37	10°♎32'11	-0°09'07
minimum elong	-10006 Dec 11 j 04:36	10°♎32'11	0°09'09
behind sun begin	-10006 Dec 10 j 22:57	10°♎31'25	
behind sun end	-10006 Dec 11 j 10:15	10°♎32'58	
max. Earth dist.	-10006 Dec 12 j 04:18	10°♎35'31	21.16147 AU
morning rise	-10006 Dec 27 j 14:49	11°♎27'19	
retrograde	-10005 Apr 01 j 11:08	14°♎33'22	
min. Earth dist.	-10005 Jun 17 j 08:28	12°♎35'55	19.15243 AU
opposition	-10005 Jun 18 j 04:21	12°♎33'54	-0°12'36
direct	-10005 Aug 31 j 20:17	10°♎37'50	
evening set	-10005 Nov 29 j 04:54	13°♎34'09	
conjunction	-10005 Dec 15 j 11:54	14°♎28'50	-0°13'38
minimum elong	-10005 Dec 15 j 11:54	14°♎28'50	0°13'43
behind sun begin	-10005 Dec 15 j 08:25	14°♎28'22	
behind sun end	-10005 Dec 15 j 15:24	14°♎29'19	
max. Earth dist.	-10005 Dec 16 j 09:45	14°♎31'55	21.14145 AU
morning rise	-10005 Dec 31 j 23:03	15°♎24'07	
retrograde	-10004 Apr 04 j 19:56	18°♎30'15	
opposition	-10004 Jun 21 j 08:47	16°♎30'41	-0°17'34
min. Earth dist.	-10004 Jun 20 j 13:52	16°♎32'37	19.12938 AU
direct	-10004 Sep 04 j 01:04	14°♎34'25	
evening set	-10004 Dec 02 j 11:25	17°♎31'05	
conjunction	-10004 Dec 18 j 19:22	18°♎25'56	-0°18'06
minimum elong	-10004 Dec 18 j 19:22	18°♎25'56	0°18'13
max. Earth dist.	-10004 Dec 19 j 14:55	18°♎28'41	21.11557 AU
morning rise	-10003 Jan 04 j 07:28	19°♎21'22	
retrograde	-10003 Apr 09 j 02:07	22°♎27'38	
opposition	-10003 Jun 25 j 13:18	20°♎27'57	-0°22'29
min. Earth dist.	-10003 Jun 24 j 21:12	20°♎29'36	19.10087 AU
direct	-10003 Sep 08 j 03:43	18°♎31'27	
evening set	-10003 Dec 06 j 18:20	21°♎28'32	
conjunction	-10003 Dec 23 j 03:25	22°♎23'34	-0°22'29

Attention, astronomical year style is used: The year -10003 in astronomical counting style is the year 10004 BCE in historical counting style.

minimum elong	-10003 Dec 23 j 03:24	22°♎23'34	0°22'40	
max. Earth dist.	-10003 Dec 23 j 21:11	22°♎26'04	21.08475 AU	
morning rise	-10002 Jan 08 j 16:23	23°♎19'09		
retrograde	-10002 Apr 13 j 11:31	26°♎25'35		
opposition	-10002 Jun 29 j 17:37	24°♎25'47	-0°27'17	
min. Earth dist.	-10002 Jun 29 j 02:27	24°♎27'20	19.06770 AU	
direct	-10002 Sep 12 j 08:52	22°♎29'01		
evening set	-10002 Dec 11 j 01:54	25°♎26'36		
conjunction	-10002 Dec 27 j 11:55	26°♎21'49	-0°26'47	
minimum elong	-10002 Dec 27 j 11:55	26°♎21'49	0°26'59	
max. Earth dist.	-10002 Dec 28 j 03:26	26°♎24'01	21.04936 AU	
morning rise	-10001 Jan 13 j 01:48	27°♎17'36		
	-10001 Mar 17 j 02:17	0°♏		
retrograde	-10001 Apr 17 j 18:10	0°♏24'14		
	-10001 May 19 j 18:10	30°℞♎		
opposition	-10001 Jul 03 j 22:12	28°♎24'19	-0°31'59	
min. Earth dist.	-10001 Jul 03 j 09:49	28°♎25'36	19.03028 AU	
direct	-10001 Sep 16 j 11:32	26°♎27'16		
evening set	-10001 Dec 15 j 09:59	29°♎25'27		
	-10001 Dec 25 j 17:23	0°♏		
conjunction	-10001 Dec 31 j 21:03	0°♏20'53	-0°30'58	
minimum elong	-10001 Dec 31 j 21:02	0°♏20'53	0°31'12	
max. Earth dist.	-10000 Jan 01 j 10:39	0°♏22'48	21.01010 AU	
morning rise	-10000 Jan 17 j 11:41	1°♏16'50		
retrograde	-10000 Apr 21 j 04:14	4°♏23'44		
opposition	-10000 Jul 07 j 02:41	2°♏23'43	-0°36'32	
min. Earth dist.	-10000 Jul 06 j 15:16	2°♏24'53	18.98919 AU	
direct	-10000 Sep 19 j 17:08	0°♏26'23		
evening set	-10000 Dec 18 j 18:44	3°♏25'15		
conjunction	-9999 Jan 04 j 06:40	4°♏20'54	-0°35'00	
minimum elong	-9999 Jan 04 j 06:40	4°♏20'53	0°35'17	
max. Earth dist.	-9999 Jan 04 j 18:02	4°♏22'30	20.96723 AU	
morning rise	-9999 Jan 20 j 22:04	5°♏17'02		
retrograde	-9999 Apr 25 j 11:58	8°♏24'15		
opposition	-9999 Jul 11 j 07:39	6°♏24'09	-0°40'56	
min. Earth dist.	-9999 Jul 10 j 22:57	6°♏25'02	18.94473 AU	
direct	-9999 Sep 23 j 20:24	4°♏26'32		
evening set	-9999 Dec 23 j 03:57	7°♏26'09		
conjunction	-9998 Jan 08 j 16:53	8°♏22'02	-0°38'54	
minimum elong	-9998 Jan 08 j 16:53	8°♏22'02	0°39'12	
max. Earth dist.	-9998 Jan 09 j 02:12	8°♏23'21	20.92131 AU	
morning rise	-9998 Jan 25 j 09:01	9°♏18'24		
retrograde	-9998 Apr 29 j 22:37	12°♏25'58		
opposition	-9998 Jul 15 j 12:47	10°♏25'47	-0°45'10	
min. Earth dist.	-9998 Jul 15 j 05:08	10°♏26'34	18.89720 AU	
direct	-9998 Sep 28 j 02:29	8°♏27'53		
evening set	-9998 Dec 27 j 14:13	11°♏28'22		
conjunction	-9997 Jan 13 j 04:00	12°♏24'29	-0°42'38	
minimum elong	-9997 Jan 13 j 04:00	12°♏24'29	0°42'58	
max. Earth dist.	-9997 Jan 13 j 10:58	12°♏25'29	20.87216 AU	
morning rise	-9997 Jan 29 j 20:47	13°♏21'04		
	-9997 Mar 03 j 08:10	15°♏		
retrograde	-9997 May 04 j 07:53	16°♏29'03		
	-9997 Jul 07 j 02:09	15°℞♏		
opposition	-9997 Jul 19 j 18:17	14°♏28'48	-0°49'12	
min. Earth dist.	-9997 Jul 19 j 13:35	14°♏29'17	18.84651 AU	
direct	-9997 Oct 02 j 07:03	12°♏30'37		
	-9997 Dec 22 j 06:08	15°♏		
evening set	-9996 Jan 01 j 01:16	15°♏32'02		
conjunction	-9996 Jan 17 j 15:55	16°♏28'25	-0°46'10	
minimum elong	-9996 Jan 17 j 15:55	16°♏28'25	0°46'32	
max. Earth dist.	-9996 Jan 17 j 20:24	16°♏29'03	20.82001 AU	
morning rise	-9996 Feb 03 j 09:18	17°♏25'13		
retrograde	-9996 May 07 j 19:20	20°♏33'39		
opposition	-9996 Jul 23 j 00:11	18°♏33'21	-0°53'00	
min. Earth dist.	-9996 Jul 22 j 20:48	18°♏33'42	18.79273 AU	
direct	-9996 Oct 05 j 13:45	16°♏34'53		
evening set	-9995 Jan 04 j 13:07	19°♏37'18		
conjunction	-9995 Jan 21 j 04:29	20°♏33'57	-0°49'30	
minimum elong	-9995 Jan 21 j 04:29	20°♏33'57	0°49'55	
max. Earth dist.	-9995 Jan 21 j 06:34	20°♏34'15	20.76447 AU	
morning rise	-9995 Feb 06 j 22:20	21°♏30'59		
retrograde	-9995 May 12 j 05:50	24°♏39'54		
opposition	-9995 Jul 27 j 06:43	22°♏39'34	-0°56'35	
min. Earth dist.	-9995 Jul 27 j 06:22	22°♏39'36	18.73553 AU	
direct	-9995 Oct 09 j 20:03	20°♏40'47		
evening set	-9994 Jan 09 j 01:58	23°♏44'16		
conjunction	-9994 Jan 25 j 18:05	24°♏41'12	-0°52'35	
minimum elong	-9994 Jan 25 j 18:05	24°♏41'12	0°53'01	
max. Earth dist.	-9994 Jan 25 j 17:14	24°♏41'05	20.70560 AU	
morning rise	-9994 Feb 11 j 12:27	25°♏38'29		
retrograde	-9994 May 16 j 18:05	28°♏47'54		
opposition	-9994 Jul 31 j 13:33	26°♏47'30	-0°59'53	
min. Earth dist.	-9994 Jul 31 j 14:51	26°♏47'21	18.67483 AU	
direct	-9994 Oct 14 j 04:04	24°♏48'22		
evening set	-9993 Jan 13 j 15:53	27°♏53'00		
conjunction	-9993 Jan 30 j 08:42	28°♏50'13	-0°55'26	
minimum elong	-9993 Jan 30 j 08:42	28°♏50'12	0°55'54	
max. Earth dist.	-9993 Jan 30 j 05:08	28°♏49'42	20.64289 AU	
morning rise	-9993 Feb 16 j 03:22	29°♏47'44		
	-9993 Feb 19 j 19:23	0°♐		
retrograde	-9993 May 21 j 05:43	2°♐57'40		
opposition	-9993 Aug 04 j 21:15	0°♐57'11	-1°02'54	
min. Earth dist.	-9993 Aug 05 j 01:42	0°♐56'43	18.61025 AU	
	-9993 Aug 28 j 12:46	30°℞♏		
direct	-9993 Oct 18 j 12:12	28°♏57'41		
	-9993 Dec 07 j 12:44	0°♐		
evening set	-9992 Jan 18 j 06:40	2°♐03'29		
conjunction	-9992 Feb 04 j 00:03	3°♐00'59	-0°57'59	
minimum elong	-9992 Feb 04 j 00:03	3°♐00'59	0°58'29	
max. Earth dist.	-9992 Feb 03 j 17:09	2°♐59'59	20.57647 AU	
morning rise	-9992 Feb 20 j 19:05	3°♐58'44		
retrograde	-9992 May 24 j 18:45	7°♐09'13		
opposition	-9992 Aug 08 j 05:20	5°♐08'37	-1°05'36	
min. Earth dist.	-9992 Aug 08 j 11:31	5°♐07'58	18.54203 AU	
direct	-9992 Oct 21 j 22:16	3°♐08'41		
evening set	-9991 Jan 21 j 22:19	6°♐15'42		
conjunction	-9991 Feb 07 j 16:19	7°♐13'29	-1°00'15	
minimum elong	-9991 Feb 07 j 16:18	7°♐13'29	1°00'45	
max. Earth dist.	-9991 Feb 07 j 06:54	7°♐12'08	20.50645 AU	
morning rise	-9991 Feb 24 j 11:28	8°♐11'30		
retrograde	-9991 May 29 j 07:12	11°♐22'31		
opposition	-9991 Aug 12 j 14:09	9°♐21'47	-1°07'57	
min. Earth dist.	-9991 Aug 12 j 23:20	9°♐20'49	18.47047 AU	
direct	-9991 Oct 26 j 07:36	7°♐21'24		
evening set	-9990 Jan 26 j 14:49	10°♐29'40		
conjunction	-9990 Feb 12 j 09:16	11°♐27'45	-1°02'12	
minimum elong	-9990 Feb 12 j 09:16	11°♐27'45	1°02'44	
max. Earth dist.	-9990 Feb 11 j 20:29	11°♐25'53	20.43359 AU	
morning rise	-9990 Mar 01 j 04:45	12°♐26'00		
retrograde	-9990 Jun 02 j 21:34	15°♐37'35		
opposition	-9990 Aug 16 j 23:30	13°♐36'41	-1°09'58	

Attention, astronomical year style is used: The year -9990 in astronomical counting style is the year 9991 BCE in historical counting style.

min. Earth dist.	-9990 Aug 17 j 10:26	13°♐35'31	18.39639 AU
direct	-9990 Oct 30 j 19:45	11°♐35'48	
evening set	-9989 Jan 31 j 08:18	14°♐45'23	
conjunction	-9989 Feb 17 j 03:16	15°♐43'46	-1°03'49
minimum elong	-9989 Feb 17 j 03:15	15°♐43'46	1°04'21
max. Earth dist.	-9989 Feb 16 j 12:26	15°♐41'36	20.35835 AU
morning rise	-9989 Mar 05 j 22:40	16°♐42'16	
retrograde	-9989 Jun 07 j 10:51	19°♐54'25	
opposition	-9989 Aug 21 j 09:31	17°♐53'22	-1°11'36
min. Earth dist.	-9989 Aug 21 j 23:10	17°♐51'54	18.32036 AU
direct	-9989 Nov 04 j 06:29	15°♐52'00	
evening set	-9988 Feb 05 j 02:41	19°♐02'54	
conjunction	-9988 Feb 21 j 21:53	20°♐01'35	-1°05'06
minimum elong	-9988 Feb 21 j 21:53	20°♐01'35	1°05'39
max. Earth dist.	-9988 Feb 21 j 03:49	19°♐58'56	20.28179 AU
morning rise	-9988 Mar 09 j 17:26	21°♐00'21	
retrograde	-9988 Jun 11 j 02:36	24°♐13'06	
opposition	-9988 Aug 24 j 20:15	22°♐11'52	-1°12'50
min. Earth dist.	-9988 Aug 25 j 11:28	22°♐10'15	18.24349 AU
direct	-9988 Nov 07 j 20:18	20°♐10'00	
evening set	-9987 Feb 08 j 21:39	23°♐22'18	
conjunction	-9987 Feb 25 j 17:15	24°♐21'17	-1°06'01
minimum elong	-9987 Feb 25 j 17:14	24°♐21'17	1°06'34
max. Earth dist.	-9987 Feb 24 j 21:48	24°♐18'25	20.20459 AU
morning rise	-9987 Mar 14 j 12:34	25°♐20'17	
retrograde	-9987 Jun 15 j 17:13	28°♐33'39	
opposition	-9987 Aug 29 j 07:49	26°♐32'17	-1°13'41
min. Earth dist.	-9987 Aug 30 j 01:14	26°♐30'25	18.16634 AU
direct	-9987 Nov 12 j 08:55	24°♐29'57	
evening set	-9986 Feb 13 j 17:47	27°♐43'39	
conjunction	-9986 Mar 02 j 13:27	28°♐42'56	-1°06'33
minimum elong	-9986 Mar 02 j 13:27	28°♐42'56	1°07'07
max. Earth dist.	-9986 Mar 01 j 14:53	28°♐39'36	20.12766 AU
morning rise	-9986 Mar 19 j 08:47	29°♐42'12	
	-9986 Mar 24 j 13:09	0°♑	
retrograde	-9986 Jun 20 j 10:03	2°♑56'12	
opposition	-9986 Sep 02 j 20:00	0°♑54'43	-1°14'07
min. Earth dist.	-9986 Sep 03 j 14:55	0°♑52'41	18.08984 AU
	-9986 Sep 24 j 19:18	30°℞♐	
direct	-9986 Nov 17 j 00:04	28°♐51'54	
	-9985 Jan 08 j 02:03	0°♑	
evening set	-9985 Feb 18 j 14:46	2°♑07'04	
max. Earth dist.	-9985 Mar 06 j 11:07	3°♑03'09	20.05152 AU
conjunction	-9985 Mar 07 j 10:42	3°♑06'39	-1°06'43
minimum elong	-9985 Mar 07 j 10:42	3°♑06'39	1°07'19
morning rise	-9985 Mar 24 j 05:36	4°♑06'09	
retrograde	-9985 Jun 25 j 02:46	7°♑20'49	
opposition	-9985 Sep 07 j 09:16	5°♑19'14	-1°14'07
min. Earth dist.	-9985 Sep 08 j 05:58	5°♑17'00	18.01437 AU
direct	-9985 Nov 21 j 14:51	3°♑16'01	
evening set	-9984 Feb 23 j 12:41	6°♑32'39	
max. Earth dist.	-9984 Mar 10 j 05:54	7°♑28'33	19.97683 AU
conjunction	-9984 Mar 11 j 08:26	7°♑32'31	-1°06'30
minimum elong	-9984 Mar 11 j 08:26	7°♑32'31	1°07'04
morning rise	-9984 Mar 28 j 03:10	8°♑32'15	
retrograde	-9984 Jun 28 j 20:54	11°♑47'37	
opposition	-9984 Sep 10 j 23:21	9°♑45'58	-1°13'41
min. Earth dist.	-9984 Sep 11 j 21:27	9°♑43'34	17.94062 AU
direct	-9984 Nov 25 j 07:20	7°♑42'20	
evening set	-9983 Feb 27 j 11:24	11°♑00'28	
max. Earth dist.	-9983 Mar 15 j 04:10	11°♑56'33	19.90392 AU

conjunction	-9983 Mar 16 j 07:16	12°♑00'37	-1°05'52
minimum elong	-9983 Mar 16 j 07:16	12°♑00'37	1°06'28
morning rise	-9983 Apr 02 j 01:25	13°♑00'35	
retrograde	-9983 Jul 03 j 15:58	16°♑16'37	
opposition	-9983 Sep 15 j 14:19	14°♑14'57	-1°12'47
min. Earth dist.	-9983 Sep 16 j 13:53	14°♑12'24	17.86867 AU
direct	-9983 Nov 30 j 00:00	12°♑10'58	
evening set	-9982 Mar 04 j 11:14	15°♑30'35	
max. Earth dist.	-9982 Mar 20 j 00:47	16°♑26'29	19.83298 AU
conjunction	-9982 Mar 21 j 06:48	16°♑31'01	-1°04'50
minimum elong	-9982 Mar 21 j 06:48	16°♑31'01	1°05'25
morning rise	-9982 Apr 07 j 00:39	17°♑31'13	
retrograde	-9982 Jul 08 j 11:48	20°♑47'56	
opposition	-9982 Sep 20 j 06:19	18°♑46'15	-1°11'26
min. Earth dist.	-9982 Sep 21 j 07:34	18°♑43'30	17.79875 AU
direct	-9982 Dec 04 j 17:59	16°♑41'54	
evening set	-9981 Mar 09 j 11:52	20°♑03'01	
max. Earth dist.	-9981 Mar 25 j 00:49	20°♑59'04	19.76389 AU
conjunction	-9981 Mar 26 j 07:20	21°♑03'42	-1°03'23
minimum elong	-9981 Mar 26 j 07:20	21°♑03'42	1°03'57
morning rise	-9981 Apr 12 j 00:25	22°♑04'06	
retrograde	-9981 Jul 13 j 09:01	25°♑21'30	
opposition	-9981 Sep 24 j 23:20	23°♑19'48	-1°09'37
min. Earth dist.	-9981 Sep 26 j 01:43	23°♑16'56	17.73058 AU
direct	-9981 Dec 09 j 12:46	21°♑15'08	
evening set	-9980 Mar 13 j 13:30	24°♑37'40	
max. Earth dist.	-9980 Mar 28 j 23:15	25°♑33'32	19.69665 AU
conjunction	-9980 Mar 30 j 08:27	25°♑38'36	-1°01'31
minimum elong	-9980 Mar 30 j 08:27	25°♑38'36	1°02'04
morning rise	-9980 Apr 16 j 01:00	26°♑39'13	
retrograde	-9980 Jul 17 j 06:07	29°♑57'16	
opposition	-9980 Sep 28 j 17:26	27°♑55'31	-1°07'20
min. Earth dist.	-9980 Sep 29 j 21:34	27°♑52'27	17.66443 AU
direct	-9980 Dec 13 j 08:44	25°♑50'30	
evening set	-9979 Mar 18 j 15:33	29°♑14'25	
	-9979 Mar 31 j 04:32	0°♒	
max. Earth dist.	-9979 Apr 03 j 00:39	0°♒10'26	19.63141 AU
conjunction	-9979 Apr 04 j 10:14	0°♒15'35	-0°59'14
minimum elong	-9979 Apr 04 j 10:14	0°♒15'35	0°59'45
morning rise	-9979 Apr 21 j 01:58	1°♒16'22	
retrograde	-9979 Jul 22 j 04:25	4°♒35'03	
opposition	-9979 Oct 03 j 12:27	2°♒33'15	-1°04'36
min. Earth dist.	-9979 Oct 04 j 17:15	2°♒30'06	17.60016 AU
direct	-9979 Dec 18 j 05:44	0°♒27'54	
evening set	-9978 Mar 23 j 18:37	3°♒53'08	
max. Earth dist.	-9978 Apr 08 j 00:51	4°♒48'59	19.56824 AU
conjunction	-9978 Apr 09 j 12:40	4°♒54'30	-0°56'33
minimum elong	-9978 Apr 09 j 12:41	4°♒54'30	0°57'04
morning rise	-9978 Apr 26 j 03:39	5°♒55'26	
retrograde	-9978 Jul 27 j 02:04	9°♒14'42	
opposition	-9978 Oct 08 j 08:24	7°♒12'49	-1°01'25
min. Earth dist.	-9978 Oct 09 j 14:56	7°♒09'29	17.53833 AU
direct	-9978 Dec 23 j 04:01	5°♒07'07	
evening set	-9977 Mar 28 j 22:09	8°♒33'36	
max. Earth dist.	-9977 Apr 13 j 03:37	9°♒29'34	19.50781 AU
conjunction	-9977 Apr 14 j 15:40	9°♒35'09	-0°53'29
minimum elong	-9977 Apr 14 j 15:40	9°♒35'09	0°53'58
morning rise	-9977 May 01 j 05:44	10°♒36'13	
retrograde	-9977 Aug 01 j 01:03	13°♒56'01	
opposition	-9977 Oct 13 j 05:17	11°♒54'03	-0°57'49
min. Earth dist.	-9977 Oct 14 j 11:48	11°♒50'43	17.47939 AU

Attention, astronomical year style is used: The year -9976 in astronomical counting style is the year 9977 BCE in historical counting style.

direct	-9977 Dec 28 j 03:57	9°♒48'02	
evening set	-9976 Apr 02 j 02:02	13°♒15'39	
max. Earth dist.	-9976 Apr 17 j 05:37	14°♒11'34	19.45060 AU
conjunction	-9976 Apr 18 j 18:47	14°♒17'21	-0°50'02
minimum elong	-9976 Apr 18 j 18:48	14°♒17'21	0°50'30
	-9976 Apr 30 j 06:24	15°♒	
morning rise	-9976 May 05 j 07:54	15°♒18'32	
retrograde	-9976 Aug 04 j 22:54	18°♒38'52	
opposition	-9976 Oct 17 j 03:07	16°♒36'47	-0°53'48
min. Earth dist.	-9976 Oct 18 j 11:02	16°♒33'17	17.42421 AU
	-9976 Nov 28 j 05:37	15°℞♒	
direct	-9975 Jan 01 j 04:11	14°♒30'27	
	-9975 Feb 03 j 19:27	15°♒	
evening set	-9975 Apr 07 j 06:21	17°♒59'06	
max. Earth dist.	-9975 Apr 22 j 09:13	18°♒55'09	19.39760 AU
conjunction	-9975 Apr 23 j 22:20	19°♒00'56	-0°46'14
minimum elong	-9975 Apr 23 j 22:20	19°♒00'56	0°46'41
morning rise	-9975 May 10 j 10:30	20°♒02'14	
retrograde	-9975 Aug 09 j 22:39	23°♒23'00	
opposition	-9975 Oct 22 j 01:29	21°♒20'49	-0°49'24
min. Earth dist.	-9975 Oct 23 j 08:46	21°♒17'24	17.37344 AU
direct	-9974 Jan 06 j 06:31	19°♒14'12	
evening set	-9974 Apr 12 j 11:01	22°♒43'49	
max. Earth dist.	-9974 Apr 27 j 13:01	23°♒39'57	19.34928 AU
conjunction	-9974 Apr 29 j 02:10	23°♒45'45	-0°42'07
minimum elong	-9974 Apr 29 j 02:10	23°♒45'45	0°42'31
morning rise	-9974 May 15 j 13:11	24°♒47'07	
retrograde	-9974 Aug 14 j 21:17	28°♒08'19	
opposition	-9974 Oct 27 j 00:58	26°♒06'03	-0°44'39
min. Earth dist.	-9974 Oct 28 j 09:14	26°♒02'31	17.32786 AU
direct	-9973 Jan 11 j 08:16	23°♒59'10	
evening set	-9973 Apr 17 j 15:51	27°♒29'39	
max. Earth dist.	-9973 May 02 j 17:03	28°♒25'52	19.30659 AU
conjunction	-9973 May 04 j 05:57	28°♒31'39	-0°37'42
minimum elong	-9973 May 04 j 05:57	28°♒31'39	0°38'04
morning rise	-9973 May 20 j 15:57	29°♒33'04	
	-9973 May 28 j 02:01	0°♓	
retrograde	-9973 Aug 19 j 22:12	2°♓54'40	
opposition	-9973 Nov 01 j 01:05	0°♓52'19	-0°39'34
min. Earth dist.	-9973 Nov 02 j 07:58	0°♓48'56	17.28812 AU
	-9973 Nov 21 j 13:51	30°℞♒	
direct	-9972 Jan 16 j 12:16	28°♒45'14	
	-9972 Mar 10 j 17:32	0°♓	
evening set	-9972 Apr 21 j 20:48	2°♓16'29	
max. Earth dist.	-9972 May 06 j 22:16	3°♓12'55	19.27000 AU
conjunction	-9972 May 08 j 09:56	3°♓18'32	-0°33'01
minimum elong	-9972 May 08 j 09:57	3°♓18'32	0°33'20
morning rise	-9972 May 24 j 18:38	4°♓19'58	
retrograde	-9972 Aug 23 j 21:41	7°♓41'55	
opposition	-9972 Nov 05 j 02:04	5°♓39'32	-0°34'12
min. Earth dist.	-9972 Nov 06 j 09:18	5°♓36'07	17.25490 AU
direct	-9971 Jan 20 j 14:30	3°♓32'20	
evening set	-9971 Apr 27 j 01:49	7°♓04'13	
max. Earth dist.	-9971 May 12 j 02:24	8°♓00'42	19.24025 AU
conjunction	-9971 May 13 j 13:46	8°♓06'17	-0°28'05
minimum elong	-9971 May 13 j 13:46	8°♓06'17	0°28'21
morning rise	-9971 May 29 j 21:26	9°♓07'44	
retrograde	-9971 Aug 28 j 23:49	12°♓30'01	
opposition	-9971 Nov 10 j 03:35	10°♓27'37	-0°28'34
min. Earth dist.	-9971 Nov 11 j 09:03	10°♓24'24	17.22851 AU
direct	-9970 Jan 25 j 19:20	8°♓20'21	
evening set	-9970 May 02 j 06:52	11°♓52'47	
max. Earth dist.	-9970 May 17 j 08:31	12°♓49'35	19.21733 AU
conjunction	-9970 May 18 j 17:47	12°♓54'51	-0°22'56
minimum elong	-9970 May 18 j 17:47	12°♓54'51	0°23'10
morning rise	-9970 Jun 04 j 00:02	13°♓56'16	
retrograde	-9970 Sep 03 j 00:15	17°♓18'50	
opposition	-9970 Nov 15 j 05:54	15°♓16'30	-0°22'43
min. Earth dist.	-9970 Nov 16 j 11:16	15°♓13'18	17.20901 AU
direct	-9969 Jan 30 j 22:23	13°♓09'15	
evening set	-9969 May 07 j 12:02	16°♓42'07	
conjunction	-9969 May 23 j 21:33	17°♓44'08	-0°17'37
minimum elong	-9969 May 23 j 21:33	17°♓44'08	0°17'47
max. Earth dist.	-9969 May 22 j 12:42	17°♓38'55	19.20142 AU
morning rise	-9969 Jun 09 j 02:43	18°♓45'30	
retrograde	-9969 Sep 08 j 03:05	22°♓08'20	
opposition	-9969 Nov 20 j 08:49	20°♓06'04	-0°16'42
min. Earth dist.	-9969 Nov 21 j 12:17	20°♓03'04	17.19645 AU
direct	-9968 Feb 05 j 03:33	17°♓58'53	
evening set	-9968 May 11 j 16:44	21°♓32'03	
max. Earth dist.	-9968 May 26 j 19:03	22°♓29'13	19.19217 AU
conjunction	-9968 May 28 j 01:10	22°♓34'00	-0°12'10
minimum elong	-9968 May 28 j 01:10	22°♓34'00	0°12'18
behind sun begin	-9968 May 27 j 20:45	22°♓33'19	
behind sun end	-9968 May 28 j 05:36	22°♓34'42	
morning rise	-9968 Jun 13 j 04:56	23°♓35'18	
retrograde	-9968 Sep 12 j 04:29	26°♓58'20	
opposition	-9968 Nov 24 j 12:23	24°♓56'09	-0°10'32
min. Earth dist.	-9968 Nov 25 j 15:14	24°♓53'14	17.19030 AU
direct	-9967 Feb 09 j 07:38	22°♓49'06	
evening set	-9967 May 16 j 21:35	26°♓22'26	
max. Earth dist.	-9967 May 31 j 22:53	27°♓19'33	19.18919 AU
conjunction	-9967 Jun 02 j 04:33	27°♓24'17	-0°06'37
minimum elong	-9967 Jun 02 j 04:33	27°♓24'17	0°06'43
behind sun begin	-9967 Jun 01 j 22:18	27°♓23'19	
behind sun end	-9967 Jun 02 j 10:47	27°♓25'15	
morning rise	-9967 Jun 18 j 07:11	28°♓25'29	
	-9967 Jul 15 j 11:10	0°♈	
retrograde	-9967 Sep 17 j 07:06	1°♈48'40	
	-9967 Nov 24 j 12:01	30°℞♓	
opposition	-9967 Nov 29 j 16:12	29°♓46'34	-0°04'17
min. Earth dist.	-9967 Nov 30 j 17:23	29°♓43'50	17.19032 AU
direct	-9966 Feb 14 j 13:12	27°♓39'39	
	-9966 May 01 j 13:49	0°♈	
evening set	-9966 May 22 j 02:01	1°♈13'01	
max. Earth dist.	-9966 Jun 06 j 04:57	2°♈10'27	19.19210 AU
conjunction	-9966 Jun 07 j 07:48	2°♈14'44	-0°00'59
minimum elong	-9966 Jun 07 j 07:48	2°♈14'44	0°01'02
behind sun begin	-9966 Jun 07 j 01:08	2°♈13'42	
behind sun end	-9966 Jun 07 j 14:27	2°♈15'46	
morning rise	-9966 Jun 23 j 09:00	3°♈15'48	
asc. node	-9966 Aug 10 j 21:36	5°♈48'51	
retrograde	-9966 Sep 22 j 08:45	6°♈39'04	
opposition	-9966 Dec 04 j 20:43	4°♈37'03	0°02'00
min. Earth dist.	-9966 Dec 05 j 20:37	4°♈34'28	17.19593 AU
direct	-9965 Feb 19 j 19:04	2°♈30'19	
evening set	-9965 May 27 j 06:06	6°♈03'33	
max. Earth dist.	-9965 Jun 11 j 08:23	7°♈00'57	19.20052 AU
conjunction	-9965 Jun 12 j 10:22	7°♈05'05	0°04'44
minimum elong	-9965 Jun 12 j 10:21	7°♈05'05	0°04'44
behind sun begin	-9965 Jun 12 j 03:51	7°♈04'05	
behind sun end	-9965 Jun 12 j 16:52	7°♈06'06	

Attention, astronomical year style is used: The year -9965 in astronomical counting style is the year 9966 BCE in historical counting style.

morning rise	-9965 Jun 28 j 10:25	8°♈06'01	
retrograde	-9965 Sep 27 j 10:14	11°♈29'19	
opposition	-9965 Dec 10 j 01:28	9°♈27'21	0°08'15
min. Earth dist.	-9965 Dec 10 j 23:43	9°♈24'57	17.20712 AU
direct	-9964 Feb 25 j 01:15	7°♈20'47	
evening set	-9964 May 31 j 09:35	10°♈53'44	
conjunction	-9964 Jun 16 j 12:37	11°♈55'06	0°10'17
minimum elong	-9964 Jun 16 j 12:37	11°♈55'06	0°10'20
behind sun begin	-9964 Jun 16 j 07:21	11°♈54'16	
behind sun end	-9964 Jun 16 j 17:52	11°♈55'55	
max. Earth dist.	-9964 Jun 15 j 13:32	11°♈51'25	19.21441 AU
morning rise	-9964 Jul 02 j 11:22	12°♈55'50	
retrograde	-9964 Oct 01 j 11:31	16°♈19'05	
opposition	-9964 Dec 14 j 06:14	14°♈17'10	0°14'26
min. Earth dist.	-9964 Dec 15 j 02:28	14°♈14'59	17.22353 AU
direct	-9963 Mar 01 j 08:24	12°♈10'48	
evening set	-9963 Jun 05 j 12:33	15°♈43'19	
conjunction	-9963 Jun 21 j 14:10	16°♈44'28	0°15'45
minimum elong	-9963 Jun 21 j 14:10	16°♈44'28	0°15'51
behind sun begin	-9963 Jun 21 j 12:52	16°♈44'16	
behind sun end	-9963 Jun 21 j 15:28	16°♈44'40	
max. Earth dist.	-9963 Jun 20 j 16:31	16°♈41'01	19.23352 AU
morning rise	-9963 Jul 07 j 11:48	17°♈45'02	
retrograde	-9963 Oct 06 j 11:34	21°♈08'09	
opposition	-9963 Dec 19 j 11:09	19°♈06'15	0°20'30
min. Earth dist.	-9963 Dec 20 j 05:53	19°♈04'15	17.24533 AU
direct	-9962 Mar 06 j 14:21	17°♈00'05	
evening set	-9962 Jun 10 j 14:39	20°♈32'02	
conjunction	-9962 Jun 26 j 15:00	21°♈32'57	0°21'06
minimum elong	-9962 Jun 26 j 15:00	21°♈32'57	0°21'15
max. Earth dist.	-9962 Jun 25 j 20:15	21°♈29'57	19.25804 AU
morning rise	-9962 Jul 12 j 11:27	22°♈33'18	
retrograde	-9962 Oct 11 j 12:29	25°♈56'14	
opposition	-9962 Dec 24 j 16:00	23°♈54'22	0°26'24
min. Earth dist.	-9962 Dec 25 j 07:54	23°♈52'40	17.27241 AU
direct	-9961 Mar 11 j 21:33	21°♈48'25	
evening set	-9961 Jun 15 j 16:02	25°♈19'39	
conjunction	-9961 Jul 01 j 15:04	26°♈20'19	0°26'17
minimum elong	-9961 Jul 01 j 15:04	26°♈20'19	0°26'29
max. Earth dist.	-9961 Jun 30 j 22:39	26°♈17'42	19.28795 AU
morning rise	-9961 Jul 17 j 10:26	27°♈20'26	
	-9961 Sep 07 j 01:52	0°♉	
retrograde	-9961 Oct 16 j 11:42	0°♉43'07	
	-9961 Nov 26 j 11:11	30°℞♈	
opposition	-9961 Dec 29 j 20:48	28°♈41'16	0°32'04
min. Earth dist.	-9961 Dec 30 j 11:05	28°♈39'45	17.30523 AU
direct	-9960 Mar 16 j 01:53	26°♈35'33	
	-9960 Jun 18 j 01:53	0°♉	
evening set	-9960 Jun 19 j 16:23	0°♉05'58	
conjunction	-9960 Jul 05 j 14:10	1°♉06'20	0°31'15
minimum elong	-9960 Jul 05 j 14:10	1°♉06'20	0°31'30
max. Earth dist.	-9960 Jul 05 j 00:36	1°♉04'11	19.32366 AU
morning rise	-9960 Jul 21 j 08:34	2°♉06'14	
retrograde	-9960 Oct 20 j 12:25	5°♉28'36	
opposition	-9959 Jan 03 j 01:11	3°♉26'46	0°37'30
min. Earth dist.	-9959 Jan 03 j 11:57	3°♉25'38	17.34369 AU
direct	-9959 Mar 21 j 07:34	1°♉21'20	
evening set	-9959 Jun 24 j 15:57	4°♉50'48	
conjunction	-9959 Jul 10 j 12:32	5°♉50'54	0°36'00
minimum elong	-9959 Jul 10 j 12:32	5°♉50'54	0°36'18
max. Earth dist.	-9959 Jul 10 j 02:02	5°♉49'14	19.36500 AU

morning rise	-9959 Jul 26 j 05:53	6°♉50'32	
retrograde	-9959 Oct 25 j 11:03	10°♉12'33	
opposition	-9958 Jan 08 j 05:21	8°♉10'46	0°42'39
min. Earth dist.	-9958 Jan 08 j 14:21	8°♉09'49	17.38802 AU
direct	-9958 Mar 26 j 10:36	6°♉05'38	
evening set	-9958 Jun 29 j 14:39	9°♉34'06	
conjunction	-9958 Jul 15 j 10:01	10°♉33'53	0°40'29
minimum elong	-9958 Jul 15 j 10:00	10°♉33'52	0°40'48
max. Earth dist.	-9958 Jul 15 j 02:09	10°♉32'38	19.41233 AU
morning rise	-9958 Jul 31 j 02:33	11°♉33'15	
retrograde	-9958 Oct 30 j 11:04	14°♉54'52	
opposition	-9957 Jan 13 j 09:08	12°♉53'10	0°47'29
min. Earth dist.	-9957 Jan 13 j 14:09	12°♉52'38	17.43819 AU
direct	-9957 Mar 31 j 14:53	10°♉48'24	
evening set	-9957 Jul 04 j 12:14	14°♉15'45	
	-9957 Jul 16 j 06:27	15°♉	
conjunction	-9957 Jul 20 j 06:36	15°♉15'14	0°44'40
minimum elong	-9957 Jul 20 j 06:36	15°♉15'14	0°45'02
max. Earth dist.	-9957 Jul 20 j 02:25	15°♉14'35	19.46530 AU
morning rise	-9957 Aug 04 j 22:13	16°♉14'20	
retrograde	-9957 Nov 04 j 09:10	19°♉35'33	
opposition	-9956 Jan 18 j 12:38	17°♉33'57	0°51'59
min. Earth dist.	-9956 Jan 18 j 15:46	17°♉33'37	17.49389 AU
direct	-9956 Apr 04 j 16:58	15°♉29'36	
evening set	-9956 Jul 08 j 09:06	18°♉55'48	
conjunction	-9956 Jul 24 j 02:21	19°♉54'57	0°48'33
minimum elong	-9956 Jul 24 j 02:20	19°♉54'57	0°48'56
max. Earth dist.	-9956 Jul 24 j 00:26	19°♉54'39	19.52363 AU
morning rise	-9956 Aug 08 j 17:23	20°♉53'47	
retrograde	-9956 Nov 08 j 08:01	24°♉14'32	
opposition	-9955 Jan 22 j 15:16	22°♉13'04	0°56'06
min. Earth dist.	-9955 Jan 22 j 14:35	22°♉13'08	17.55457 AU
direct	-9955 Apr 09 j 19:54	20°♉09'10	
evening set	-9955 Jul 13 j 04:55	23°♉34'09	
conjunction	-9955 Jul 28 j 21:22	24°♉33'00	0°52'05
minimum elong	-9955 Jul 28 j 21:21	24°♉33'00	0°52'31
max. Earth dist.	-9955 Jul 28 j 23:12	24°♉33'17	19.58644 AU
morning rise	-9955 Aug 13 j 11:37	25°♉31'32	
retrograde	-9955 Nov 13 j 04:49	28°♉51'48	
opposition	-9954 Jan 27 j 17:44	26°♉50'30	0°59'50
min. Earth dist.	-9954 Jan 27 j 15:16	26°♉50'46	17.61936 AU
direct	-9954 Apr 14 j 21:24	24°♉47'06	
evening set	-9954 Jul 17 j 23:52	28°♉10'48	
conjunction	-9954 Aug 02 j 15:17	29°♉09'18	0°55'16
minimum elong	-9954 Aug 02 j 15:17	29°♉09'18	0°55'45
max. Earth dist.	-9954 Aug 02 j 19:00	29°♉09'53	19.65305 AU
	-9954 Aug 16 j 03:57	0°♊	
morning rise	-9954 Aug 18 j 05:08	0°♊07'34	
retrograde	-9954 Nov 18 j 02:18	3°♊27'20	
opposition	-9953 Feb 01 j 19:32	1°♊26'11	1°03'10
min. Earth dist.	-9953 Feb 01 j 13:32	1°♊26'49	17.68754 AU
	-9953 Mar 12 j 01:20	30°℞♉	
direct	-9953 Apr 19 j 22:47	29°♉23'15	
	-9953 May 27 j 14:32	0°♊	
evening set	-9953 Jul 22 j 17:51	2°♊45'38	
conjunction	-9953 Aug 07 j 08:39	3°♊43'49	0°58'05
minimum elong	-9953 Aug 07 j 08:39	3°♊43'49	0°58'34
max. Earth dist.	-9953 Aug 07 j 16:03	3°♊44'58	19.72249 AU
morning rise	-9953 Aug 22 j 21:53	4°♊41'47	
retrograde	-9953 Nov 22 j 21:54	8°♊01'01	
opposition	-9952 Feb 06 j 20:42	6°♊00'02	1°06'04

Attention, astronomical year style is used: The year -9952 in astronomical counting style is the year 9953 BCE in historical counting style.

min. Earth dist.	-9952 Feb 06 j 12:58	6°♊00'50	17.75816 AU
direct	-9952 Apr 23 j 23:02	3°♊57'35	
evening set	-9952 Jul 26 j 11:02	7°♊18'35	
conjunction	-9952 Aug 11 j 01:00	8°♊16'26	1°00'30
minimum elong	-9952 Aug 11 j 01:00	8°♊16'26	1°01'02
max. Earth dist.	-9952 Aug 11 j 09:47	8°♊17'48	19.79403 AU
morning rise	-9952 Aug 26 j 14:04	9°♊14'09	
retrograde	-9952 Nov 26 j 17:49	12°♊32'48	
opposition	-9951 Feb 10 j 21:05	10°♊31'56	1°08'31
min. Earth dist.	-9951 Feb 10 j 10:21	10°♊33'03	17.83049 AU
direct	-9951 Apr 28 j 22:22	8°♊29'57	
evening set	-9951 Jul 31 j 03:08	11°♊49'33	
conjunction	-9951 Aug 15 j 16:40	12°♊47'06	1°02'32
minimum elong	-9951 Aug 15 j 16:40	12°♊47'05	1°03'04
max. Earth dist.	-9951 Aug 16 j 04:51	12°♊48'59	19.86677 AU
morning rise	-9951 Aug 31 j 05:16	13°♊44'31	
retrograde	-9951 Dec 01 j 11:54	17°♊02'34	
opposition	-9950 Feb 15 j 20:47	15°♊01'50	1°10'32
min. Earth dist.	-9950 Feb 15 j 08:15	15°♊03'08	17.90362 AU
direct	-9950 May 03 j 21:07	13°♊00'18	
evening set	-9950 Aug 04 j 18:29	16°♊18'28	
conjunction	-9950 Aug 20 j 07:22	17°♊15'41	1°04'10
minimum elong	-9950 Aug 20 j 07:22	17°♊15'41	1°04'43
max. Earth dist.	-9950 Aug 20 j 20:40	17°♊17'45	19.94021 AU
morning rise	-9950 Sep 04 j 19:59	18°♊12'51	
retrograde	-9950 Dec 06 j 06:21	21°♊30'17	
opposition	-9949 Feb 20 j 19:39	19°♊29'38	1°12'06
min. Earth dist.	-9949 Feb 20 j 04:37	19°♊31'11	17.97733 AU
direct	-9949 May 08 j 18:13	17°♊28'30	
evening set	-9949 Aug 09 j 08:35	20°♊45'14	
conjunction	-9949 Aug 24 j 21:17	21°♊42'09	1°05'24
minimum elong	-9949 Aug 24 j 21:17	21°♊42'09	1°05'58
max. Earth dist.	-9949 Aug 25 j 13:50	21°♊44'41	20.01390 AU
morning rise	-9949 Sep 09 j 09:43	22°♊39'03	
retrograde	-9949 Dec 10 j 22:51	25°♊55'48	
opposition	-9948 Feb 25 j 17:36	23°♊55'16	1°13'13
min. Earth dist.	-9948 Feb 25 j 00:38	23°♊57'00	18.05097 AU
direct	-9948 May 12 j 14:57	21°♊54'30	
evening set	-9948 Aug 12 j 21:58	25°♊09'47	
conjunction	-9948 Aug 28 j 10:14	26°♊06'24	1°06'13
minimum elong	-9948 Aug 28 j 10:13	26°♊06'24	1°06'47
max. Earth dist.	-9948 Aug 29 j 03:46	26°♊09'05	20.08750 AU
morning rise	-9948 Sep 12 j 22:52	27°♊03'03	
	-9948 Nov 17 j 11:21	0°♋	
retrograde	-9948 Dec 14 j 15:22	0°♋19'08	
	-9947 Jan 11 j 11:49	30°℞♊	
opposition	-9947 Mar 01 j 14:25	28°♊18'38	1°13'53
min. Earth dist.	-9947 Feb 28 j 19:28	28°♊20'34	18.12463 AU
direct	-9947 May 17 j 09:33	26°♊18'14	
evening set	-9947 Aug 17 j 10:08	29°♊32'04	
	-9947 Aug 25 j 03:54	0°♋	
conjunction	-9947 Sep 01 j 22:23	0°♋28'24	1°06'40
minimum elong	-9947 Sep 01 j 22:23	0°♋28'24	1°07'15
max. Earth dist.	-9947 Sep 02 j 19:06	0°♋31'34	20.16106 AU
morning rise	-9947 Sep 17 j 11:00	1°♋24'49	
retrograde	-9947 Dec 19 j 06:33	4°♋40'11	
opposition	-9946 Mar 06 j 10:25	2°♋39'46	1°14'08
min. Earth dist.	-9946 Mar 05 j 13:16	2°♋41'55	18.19814 AU
direct	-9946 May 22 j 04:14	0°♋39'44	
evening set	-9946 Aug 21 j 21:27	3°♋52'07	

conjunction	-9946 Sep 06 j 09:27	4°♋48'10	1°06'43
minimum elong	-9946 Sep 06 j 09:27	4°♋48'10	1°07'17
max. Earth dist.	-9946 Sep 07 j 07:20	4°♋51'29	20.23457 AU
morning rise	-9946 Sep 21 j 22:28	5°♋44'21	
retrograde	-9946 Dec 23 j 21:24	8°♋59'03	
min. Earth dist.	-9945 Mar 10 j 06:38	7°♋01'00	18.27182 AU
opposition	-9945 Mar 11 j 05:31	6°♋58'40	1°13'57
direct	-9945 May 26 j 20:07	4°♋58'59	
evening set	-9945 Aug 26 j 07:50	8°♋09'58	
conjunction	-9945 Sep 10 j 20:01	9°♋05'46	1°06'24
minimum elong	-9945 Sep 10 j 20:01	9°♋05'46	1°06'59
max. Earth dist.	-9945 Sep 11 j 20:54	9°♋09'32	20.30817 AU
morning rise	-9945 Sep 26 j 09:11	10°♋01'44	
retrograde	-9945 Dec 28 j 11:52	13°♋15'45	
opposition	-9944 Mar 14 j 23:22	11°♋15'27	1°13'22
min. Earth dist.	-9944 Mar 13 j 22:12	11°♋18'01	18.34539 AU
direct	-9944 May 30 j 12:57	9°♋16'09	
evening set	-9944 Aug 29 j 17:34	12°♋25'47	
conjunction	-9944 Sep 14 j 05:42	13°♋21'20	1°05'44
minimum elong	-9944 Sep 14 j 05:42	13°♋21'20	1°06'19
max. Earth dist.	-9944 Sep 15 j 07:35	13°♋25'13	20.38162 AU
morning rise	-9944 Sep 29 j 19:26	14°♋17'06	
retrograde	-9943 Jan 01 j 01:18	17°♋30'28	
opposition	-9943 Mar 19 j 16:31	15°♋30'16	1°12'24
min. Earth dist.	-9943 Mar 18 j 14:05	15°♋32'56	18.41879 AU
direct	-9943 Jun 04 j 02:13	13°♋31'20	
evening set	-9943 Sep 03 j 02:16	16°♋39'40	
conjunction	-9943 Sep 18 j 14:45	17°♋34'59	1°04'42
minimum elong	-9943 Sep 18 j 14:45	17°♋34'59	1°05'16
max. Earth dist.	-9943 Sep 19 j 19:18	17°♋39'16	20.45468 AU
morning rise	-9943 Oct 04 j 04:48	18°♋30'34	
retrograde	-9942 Jan 05 j 15:12	21°♋43'18	
min. Earth dist.	-9942 Mar 23 j 04:02	19°♋46'07	18.49137 AU
opposition	-9942 Mar 24 j 08:42	19°♋43'13	1°11'02
direct	-9942 Jun 08 j 17:30	17°♋44'42	
evening set	-9942 Sep 07 j 10:33	20°♋51'46	
conjunction	-9942 Sep 22 j 23:10	21°♋46'53	1°03'20
minimum elong	-9942 Sep 22 j 23:10	21°♋46'53	1°03'55
max. Earth dist.	-9942 Sep 24 j 04:31	21°♋51'16	20.52669 AU
morning rise	-9942 Oct 08 j 13:57	22°♋42'17	
retrograde	-9941 Jan 10 j 03:30	25°♋54'26	
min. Earth dist.	-9941 Mar 27 j 18:49	23°♋57'26	18.56276 AU
opposition	-9941 Mar 29 j 00:07	23°♋54'28	1°09'19
direct	-9941 Jun 13 j 04:50	21°♋56'20	
evening set	-9941 Sep 11 j 18:02	25°♋02'13	
conjunction	-9941 Sep 27 j 07:12	25°♋57'08	1°01'39
minimum elong	-9941 Sep 27 j 07:12	25°♋57'08	1°02'11
max. Earth dist.	-9941 Sep 28 j 14:40	26°♋01'48	20.59712 AU
morning rise	-9941 Oct 12 j 22:30	26°♋52'23	
	-9940 Jan 02 j 01:15	0°♌	
retrograde	-9940 Jan 14 j 16:21	0°♌03'56	
	-9940 Jan 27 j 08:39	30°℞♋	
min. Earth dist.	-9940 Mar 31 j 07:24	28°♋07'15	18.63199 AU
opposition	-9940 Apr 01 j 14:32	28°♋04'07	1°07'13
direct	-9940 Jun 16 j 18:41	26°♋06'22	
evening set	-9940 Sep 15 j 01:13	29°♋11'06	
	-9940 Sep 28 j 23:03	0°♌	
conjunction	-9940 Sep 30 j 14:39	0°♌05'51	0°59'38
minimum elong	-9940 Sep 30 j 14:39	0°♌05'51	1°00'10
max. Earth dist.	-9940 Oct 01 j 22:26	0°♌10'33	20.66498 AU
morning rise	-9940 Oct 16 j 06:46	1°♌00'57	

Attention, astronomical year style is used: The year -9939 in astronomical counting style is the year 9940 BCE in historical counting style.

retrograde	-9939 Jan 18 j 03:42	4°♌11'57	
min. Earth dist.	-9939 Apr 04 j 21:07	2°♌15'22	18.69847 AU
opposition	-9939 Apr 06 j 04:12	2°♌12'15	1°04'48
direct	-9939 Jun 21 j 04:26	0°♌14'51	
evening set	-9939 Sep 19 j 07:45	3°♌18'31	
conjunction	-9939 Oct 04 j 21:51	4°♌13'06	0°57'19
minimum elong	-9939 Oct 04 j 21:51	4°♌13'06	0°57'50
max. Earth dist.	-9939 Oct 06 j 07:08	4°♌18'00	20.72980 AU
morning rise	-9939 Oct 20 j 14:35	5°♌08'04	
retrograde	-9938 Jan 22 j 15:02	8°♌18'31	
min. Earth dist.	-9938 Apr 09 j 08:29	6°♌22'12	18.76142 AU
opposition	-9938 Apr 10 j 17:03	6°♌18'56	1°02'03
direct	-9938 Jun 25 j 16:45	4°♌21'51	
evening set	-9938 Sep 23 j 13:57	7°♌24'29	
conjunction	-9938 Oct 09 j 04:29	8°♌18'55	0°54'44
minimum elong	-9938 Oct 09 j 04:30	8°♌18'55	0°55'13
max. Earth dist.	-9938 Oct 10 j 13:43	8°♌23'47	20.79071 AU
morning rise	-9938 Oct 24 j 22:12	9°♌13'47	
retrograde	-9937 Jan 27 j 01:28	12°♌23'43	
min. Earth dist.	-9937 Apr 13 j 21:20	10°♌27'25	18.82028 AU
opposition	-9937 Apr 15 j 05:19	10°♌24'13	0°59'00
direct	-9937 Jun 30 j 01:21	8°♌27'24	
evening set	-9937 Sep 27 j 19:43	11°♌29'03	
conjunction	-9937 Oct 13 j 11:05	12°♌23'22	0°51'52
minimum elong	-9937 Oct 13 j 11:05	12°♌23'22	0°52'20
max. Earth dist.	-9937 Oct 14 j 21:12	12°♌28'21	20.84729 AU
morning rise	-9937 Oct 29 j 05:32	13°♌18'08	
	-9937 Dec 01 j 01:36	15°♌	
retrograde	-9936 Jan 31 j 11:32	16°♌27'33	
	-9936 Apr 05 j 05:46	15°℞♌	
min. Earth dist.	-9936 Apr 17 j 07:25	14°♌31'24	18.87440 AU
opposition	-9936 Apr 18 j 16:27	14°♌28'06	0°55'41
direct	-9936 Jul 03 j 11:44	12°♌31'30	
	-9936 Sep 21 j 08:55	15°♌	
evening set	-9936 Oct 01 j 01:13	15°♌32'15	
conjunction	-9936 Oct 16 j 17:09	16°♌26'27	0°48'46
minimum elong	-9936 Oct 16 j 17:10	16°♌26'27	0°49'12
max. Earth dist.	-9936 Oct 18 j 02:48	16°♌31'20	20.89894 AU
morning rise	-9936 Nov 01 j 12:39	17°♌21'08	
retrograde	-9935 Feb 03 j 20:19	20°♌30'03	
min. Earth dist.	-9935 Apr 21 j 19:05	18°♌33'50	18.92363 AU
opposition	-9935 Apr 23 j 03:09	18°♌30'37	0°52'06
direct	-9935 Jul 07 j 19:19	16°♌34'12	
evening set	-9935 Oct 05 j 06:00	19°♌34'04	
conjunction	-9935 Oct 20 j 22:52	20°♌28'11	0°45'26
minimum elong	-9935 Oct 20 j 22:52	20°♌28'11	0°45'52
max. Earth dist.	-9935 Oct 22 j 09:14	20°♌33'10	20.94577 AU
morning rise	-9935 Nov 05 j 19:13	21°♌22'48	
retrograde	-9934 Feb 08 j 05:40	24°♌31'15	
min. Earth dist.	-9934 Apr 26 j 03:55	22°♌35'06	18.96797 AU
opposition	-9934 Apr 27 j 12:56	22°♌31'48	0°48'17
direct	-9934 Jul 12 j 04:07	20°♌35'30	
evening set	-9934 Oct 09 j 10:43	23°♌34'35	
conjunction	-9934 Oct 25 j 04:18	24°♌28'37	0°41'54
minimum elong	-9934 Oct 25 j 04:18	24°♌28'37	0°42'17
max. Earth dist.	-9934 Oct 26 j 14:12	24°♌33'31	20.98778 AU
morning rise	-9934 Nov 10 j 01:47	25°♌23'11	
retrograde	-9933 Feb 12 j 12:58	28°♌31'11	
opposition	-9933 May 01 j 22:02	26°♌31'42	0°44'16
min. Earth dist.	-9933 Apr 30 j 14:14	26°♌34'53	19.00779 AU
direct	-9933 Jul 16 j 10:21	24°♌35'31	
evening set	-9933 Oct 13 j 14:59	27°♌33'52	
conjunction	-9933 Oct 29 j 09:35	28°♌27'51	0°38'11
minimum elong	-9933 Oct 29 j 09:36	28°♌27'51	0°38'33
max. Earth dist.	-9933 Oct 30 j 20:03	28°♌32'48	21.02549 AU
morning rise	-9933 Nov 14 j 08:00	29°♌22'22	
	-9933 Nov 25 j 19:13	0°♍	
retrograde	-9932 Feb 16 j 21:55	2°♍29'57	
min. Earth dist.	-9932 May 03 j 21:39	0°♍33'42	19.04336 AU
opposition	-9932 May 05 j 06:17	0°♍30'26	0°40'03
	-9932 May 18 j 01:49	30°℞♌	
direct	-9932 Jul 19 j 17:45	28°♌34'20	
	-9932 Sep 16 j 20:59	0°♍	
evening set	-9932 Oct 16 j 19:08	1°♍32'03	
conjunction	-9932 Nov 01 j 14:29	2°♍26'00	0°34'19
minimum elong	-9932 Nov 01 j 14:29	2°♍26'00	0°34'38
max. Earth dist.	-9932 Nov 03 j 00:23	2°♍30'51	21.05901 AU
morning rise	-9932 Nov 17 j 14:01	3°♍20'30	
retrograde	-9931 Feb 20 j 04:04	6°♍27'43	
min. Earth dist.	-9931 May 08 j 06:39	4°♍31'20	19.07502 AU
opposition	-9931 May 09 j 14:01	4°♍28'11	0°35'40
direct	-9931 Jul 23 j 22:28	2°♍32'10	
evening set	-9931 Oct 20 j 23:00	5°♍29'20	
conjunction	-9931 Nov 05 j 19:26	6°♍23'16	0°30'18
minimum elong	-9931 Nov 05 j 19:26	6°♍23'16	0°30'35
max. Earth dist.	-9931 Nov 07 j 05:44	6°♍28'10	21.08887 AU
morning rise	-9931 Nov 21 j 19:55	7°♍17'46	
retrograde	-9930 Feb 24 j 12:45	10°♍24'40	
opposition	-9930 May 13 j 21:03	8°♍25'08	0°31'09
min. Earth dist.	-9930 May 12 j 12:58	8°♍28'21	19.10296 AU
direct	-9930 Jul 28 j 04:41	6°♍29'12	
evening set	-9930 Oct 25 j 02:53	9°♍25'55	
conjunction	-9930 Nov 10 j 00:11	10°♍19'51	0°26'09
minimum elong	-9930 Nov 10 j 00:11	10°♍19'51	0°26'24
max. Earth dist.	-9930 Nov 11 j 09:41	10°♍24'37	21.11491 AU
morning rise	-9930 Nov 26 j 01:53	11°♍14'22	
retrograde	-9929 Feb 28 j 18:33	14°♍21'01	
min. Earth dist.	-9929 May 16 j 21:14	12°♍24'34	19.12709 AU
opposition	-9929 May 18 j 03:46	12°♍21'30	0°26'29
direct	-9929 Aug 01 j 08:10	10°♍25'39	
evening set	-9929 Oct 29 j 06:45	13°♍22'00	
conjunction	-9929 Nov 14 j 05:13	14°♍15'58	0°21'53
minimum elong	-9929 Nov 14 j 05:13	14°♍15'58	0°22'06
max. Earth dist.	-9929 Nov 15 j 14:39	14°♍20'43	21.13712 AU
morning rise	-9929 Nov 30 j 07:53	15°♍10'30	
retrograde	-9928 Mar 04 j 02:55	18°♍16'57	
min. Earth dist.	-9928 May 20 j 02:52	16°♍20'34	19.14715 AU
opposition	-9928 May 21 j 09:44	16°♍17'28	0°21'42
direct	-9928 Aug 04 j 13:27	14°♍21'42	
evening set	-9928 Nov 01 j 10:47	17°♍17'47	
conjunction	-9928 Nov 17 j 10:08	18°♍11'47	0°17'31
minimum elong	-9928 Nov 17 j 10:08	18°♍11'47	0°17'43
max. Earth dist.	-9928 Nov 18 j 18:24	18°♍16'21	21.15505 AU
morning rise	-9928 Dec 03 j 14:00	19°♍06'22	
retrograde	-9927 Mar 08 j 08:48	22°♍12'40	
min. Earth dist.	-9927 May 24 j 10:40	20°♍16'08	19.16287 AU
opposition	-9927 May 25 j 15:39	20°♍13'14	0°16'50
direct	-9927 Aug 08 j 16:13	18°♍17'31	
evening set	-9927 Nov 05 j 14:43	21°♍13'25	
conjunction	-9927 Nov 21 j 15:15	22°♍07'28	0°13'05
minimum elong	-9927 Nov 21 j 15:15	22°♍07'28	0°13'13

Attention, astronomical year style is used: The year -9927 in astronomical counting style is the year 9928 BCE in historical counting style.

behind sun begin	-9927 Nov 21 j 11:23	22°♍06'56	
behind sun end	-9927 Nov 21 j 19:08	22°♍08'00	
max. Earth dist.	-9927 Nov 22 j 23:08	22°♍11'59	21.16854 AU
morning rise	-9927 Dec 07 j 20:07	23°♍02'07	
retrograde	-9926 Mar 12 j 17:04	26°♍08'19	
opposition	-9926 May 29 j 21:08	24°♍08'55	0°11'52
min. Earth dist.	-9926 May 28 j 16:13	24°♍11'50	19.17381 AU
direct	-9926 Aug 12 j 21:00	22°♍13'15	
evening set	-9926 Nov 09 j 19:14	25°♍09'04	
conjunction	-9926 Nov 25 j 20:42	26°♍03'11	0°08'35
minimum elong	-9926 Nov 25 j 20:43	26°♍03'11	0°08'42
behind sun begin	-9926 Nov 25 j 14:58	26°♍02'23	
behind sun end	-9926 Nov 26 j 02:28	26°♍03'58	
max. Earth dist.	-9926 Nov 27 j 02:56	26°♍07'27	21.17688 AU
morning rise	-9926 Dec 12 j 02:46	26°♍57'55	
	-9925 Mar 04 j 01:41	0°♎	
retrograde	-9925 Mar 16 j 23:19	0°♎04'02	
	-9925 Mar 30 j 00:42	30°℞♍	
min. Earth dist.	-9925 Jun 01 j 23:53	28°♍07'20	19.17946 AU
opposition	-9925 Jun 03 j 02:22	28°♍04'40	0°06'51
direct	-9925 Aug 16 j 23:19	26°♍09'01	
evening set	-9925 Nov 13 j 23:57	29°♍04'48	
conjunction	-9925 Nov 30 j 02:39	29°♍59'01	0°04'03
minimum elong	-9925 Nov 30 j 02:37	29°♍59'01	0°04'06
behind sun begin	-9925 Nov 29 j 20:04	29°♍58'07	
behind sun end	-9925 Nov 30 j 09:11	29°♍59'55	
	-9925 Nov 30 j 09:46	0°♎	
max. Earth dist.	-9925 Dec 01 j 07:49	0°♎03'08	21.17978 AU
morning rise	-9925 Dec 16 j 09:38	0°♎53'50	
retrograde	-9924 Mar 20 j 07:31	3°♎59'55	
min. Earth dist.	-9924 Jun 05 j 05:23	2°♎03'11	19.17933 AU
opposition	-9924 Jun 06 j 07:21	2°♎00'34	0°01'49
direct	-9924 Aug 20 j 04:01	0°♎04'52	
desc. node	-9924 Oct 14 j 12:46	1°♎20'10	
evening set	-9924 Nov 17 j 04:59	3°♎00'43	
conjunction	-9924 Dec 03 j 08:36	3°♎55'01	-0°00'37
minimum elong	-9924 Dec 03 j 08:35	3°♎55'01	0°00'35
behind sun begin	-9924 Dec 03 j 01:57	3°♎54'06	
behind sun end	-9924 Dec 03 j 15:14	3°♎55'56	
max. Earth dist.	-9924 Dec 04 j 11:41	3°♎58'50	21.17658 AU
morning rise	-9924 Dec 19 j 16:43	4°♎49'56	
retrograde	-9923 Mar 24 j 13:45	7°♎56'02	
opposition	-9923 Jun 10 j 12:22	5°♎56'39	-0°03'15
min. Earth dist.	-9923 Jun 09 j 13:03	5°♎59'00	19.17305 AU
direct	-9923 Aug 24 j 06:11	4°♎00'51	
evening set	-9923 Nov 21 j 10:18	6°♎56'49	
conjunction	-9923 Dec 07 j 15:07	7°♎51'15	-0°05'14
minimum elong	-9923 Dec 07 j 15:07	7°♎51'15	0°05'15
behind sun begin	-9923 Dec 07 j 08:40	7°♎50'22	
behind sun end	-9923 Dec 07 j 21:34	7°♎52'08	
max. Earth dist.	-9923 Dec 08 j 16:50	7°♎54'52	21.16733 AU
morning rise	-9923 Dec 24 j 00:12	8°♎46'16	
retrograde	-9922 Mar 28 j 22:10	11°♎52'23	
opposition	-9922 Jun 14 j 17:00	9°♎52'56	-0°08'17
min. Earth dist.	-9922 Jun 13 j 18:28	9°♎55'13	19.16063 AU
direct	-9922 Aug 28 j 11:04	7°♎57'00	
evening set	-9922 Nov 25 j 16:06	10°♎53'08	
conjunction	-9922 Dec 11 j 21:54	11°♎47'42	-0°09'46
minimum elong	-9922 Dec 11 j 21:54	11°♎47'42	0°09'49
behind sun begin	-9922 Dec 11 j 16:29	11°♎46'57	
behind sun end	-9922 Dec 12 j 03:20	11°♎48'27	
max. Earth dist.	-9922 Dec 12 j 21:15	11°♎50'59	21.15187 AU

morning rise	-9922 Dec 28 j 08:07	12°♎42'52	
retrograde	-9921 Apr 02 j 04:21	15°♎49'00	
opposition	-9921 Jun 18 j 21:42	13°♎49'28	-0°13'17
min. Earth dist.	-9921 Jun 18 j 02:01	13°♎51'28	19.14219 AU
direct	-9921 Sep 01 j 13:34	11°♎53'20	
evening set	-9921 Nov 29 j 22:09	14°♎49'43	
conjunction	-9921 Dec 16 j 05:09	15°♎44'26	-0°14'15
minimum elong	-9921 Dec 16 j 05:08	15°♎44'26	0°14'21
behind sun begin	-9921 Dec 16 j 02:10	15°♎44'01	
behind sun end	-9921 Dec 16 j 08:07	15°♎44'50	
max. Earth dist.	-9921 Dec 17 j 02:56	15°♎47'30	21.13072 AU
morning rise	-9920 Jan 01 j 16:14	16°♎39'43	
retrograde	-9920 Apr 05 j 12:47	19°♎45'56	
min. Earth dist.	-9920 Jun 21 j 07:12	17°♎48'11	19.11830 AU
opposition	-9920 Jun 22 j 02:00	17°♎46'16	-0°18'14
direct	-9920 Sep 04 j 18:21	15°♎49'55	
evening set	-9920 Dec 03 j 04:42	18°♎46'38	
conjunction	-9920 Dec 19 j 12:37	19°♎41'30	-0°18'41
minimum elong	-9920 Dec 19 j 12:36	19°♎41'30	0°18'50
max. Earth dist.	-9920 Dec 20 j 08:06	19°♎44'15	21.10432 AU
morning rise	-9919 Jan 05 j 00:42	20°♎36'57	
retrograde	-9919 Apr 09 j 19:23	23°♎43'17	
opposition	-9919 Jun 26 j 06:30	21°♎43'29	-0°23'06
min. Earth dist.	-9919 Jun 25 j 14:27	21°♎45'07	19.08959 AU
direct	-9919 Sep 08 j 21:17	19°♎46'52	
evening set	-9919 Dec 07 j 11:28	22°♎44'00	
conjunction	-9919 Dec 23 j 20:32	23°♎39'02	-0°23'02
minimum elong	-9919 Dec 23 j 20:32	23°♎39'02	0°23'12
max. Earth dist.	-9919 Dec 24 j 14:31	23°♎41'34	21.07351 AU
morning rise	-9918 Jan 09 j 09:30	24°♎34'39	
retrograde	-9918 Apr 14 j 04:07	27°♎41'08	
opposition	-9918 Jun 30 j 10:54	25°♎41'13	-0°27'52
min. Earth dist.	-9918 Jun 29 j 19:38	25°♎42'46	19.05663 AU
direct	-9918 Sep 13 j 01:59	23°♎44'20	
evening set	-9918 Dec 11 j 19:04	26°♎41'58	
conjunction	-9918 Dec 28 j 05:03	27°♎37'12	-0°27'17
minimum elong	-9918 Dec 28 j 05:03	27°♎37'12	0°27'30
max. Earth dist.	-9918 Dec 28 j 20:39	27°♎39'24	21.03852 AU
morning rise	-9917 Jan 13 j 18:56	28°♎32'59	
	-9917 Feb 11 j 02:55	0°♏	
retrograde	-9917 Apr 18 j 11:25	1°♏39'41	
	-9917 Jun 26 j 08:09	30°℞♎	
opposition	-9917 Jul 04 j 15:24	29°♎39'39	-0°32'30
min. Earth dist.	-9917 Jul 04 j 02:55	29°♎40'56	19.01980 AU
direct	-9917 Sep 17 j 05:21	27°♎42'30	
	-9917 Dec 03 j 11:45	0°♏	
evening set	-9917 Dec 16 j 03:07	0°♏40'43	
conjunction	-9916 Jan 01 j 14:11	1°♏36'10	-0°31'25
minimum elong	-9916 Jan 01 j 14:10	1°♏36'10	0°31'39
max. Earth dist.	-9916 Jan 02 j 04:02	1°♏38'07	20.99999 AU
morning rise	-9916 Jan 18 j 04:48	2°♏32'08	
retrograde	-9916 Apr 21 j 20:59	5°♏39'06	
opposition	-9916 Jul 07 j 20:03	3°♏38'58	-0°37'01
min. Earth dist.	-9916 Jul 07 j 08:24	3°♏40'10	18.97949 AU
direct	-9916 Sep 20 j 10:30	1°♏41'33	
evening set	-9916 Dec 19 j 11:44	4°♏40'27	
conjunction	-9915 Jan 04 j 23:39	5°♏36'07	-0°35'26
minimum elong	-9915 Jan 04 j 23:38	5°♏36'07	0°35'42
max. Earth dist.	-9915 Jan 05 j 11:11	5°♏37'45	20.95794 AU
morning rise	-9915 Jan 21 j 15:03	6°♏32'17	
retrograde	-9915 Apr 26 j 04:50	9°♏39'35	

Attention, astronomical year style is used: The year -9915 in astronomical counting style is the year 9916 BCE in historical counting style.

opposition	-9915 Jul	12 j 01:05	7°♏39'23	-0°41'23
min. Earth dist.	-9915 Jul	11 j 16:11	7°♏40'18	18.93582 AU
direct	-9915 Sep	24 j 14:14	5°♏41'43	
evening set	-9915 Dec	23 j 21:08	8°♏41'23	
conjunction	-9914 Jan	09 j 10:03	9°♏37'17	-0°39'17
minimum elong	-9914 Jan	09 j 10:03	9°♏37'17	0°39'36
max. Earth dist.	-9914 Jan	09 j 19:37	9°♏38'38	20.91274 AU
morning rise	-9914 Jan	26 j 02:10	10°♏33'39	
retrograde	-9914 Apr	30 j 15:50	13°♏41'19	
opposition	-9914 Jul	16 j 06:11	11°♏41'04	-0°45'34
min. Earth dist.	-9914 Jul	15 j 22:21	11°♏41'53	18.88892 AU
direct	-9914 Sep	28 j 20:21	9°♏43'08	
evening set	-9914 Dec	28 j 07:31	12°♏43'40	
conjunction	-9913 Jan	13 j 21:16	13°♏39'49	-0°42'58
minimum elong	-9913 Jan	13 j 21:15	13°♏39'49	0°43'19
max. Earth dist.	-9913 Jan	14 j 04:15	13°♏40'49	20.86409 AU
morning rise	-9913 Jan	30 j 14:02	14°♏36'25	
	-9913 Feb	06 j 18:12	15°♏	
retrograde	-9913 May	05 j 00:38	17°♏44'30	
opposition	-9913 Jul	20 j 11:52	15°♏44'13	-0°49'33
min. Earth dist.	-9913 Jul	20 j 07:04	15°♏44'43	18.83856 AU
	-9913 Aug	07 j 15:53	15°℞♏	
direct	-9913 Oct	03 j 00:34	13°♏46'01	
	-9913 Nov	26 j 21:52	15°♏	
evening set	-9912 Jan	01 j 18:37	16°♏47'30	
conjunction	-9912 Jan	18 j 09:13	17°♏43'54	-0°46'27
minimum elong	-9912 Jan	18 j 09:13	17°♏43'54	0°46'51
max. Earth dist.	-9912 Jan	18 j 13:49	17°♏44'34	20.81202 AU
morning rise	-9912 Feb	04 j 02:33	18°♏40'44	
retrograde	-9912 May	08 j 13:01	21°♏49'16	
opposition	-9912 Jul	23 j 17:48	19°♏48'57	-0°53'18
min. Earth dist.	-9912 Jul	23 j 14:22	19°♏49'18	18.78461 AU
direct	-9912 Oct	06 j 08:00	17°♏50'27	
evening set	-9911 Jan	05 j 06:45	20°♏52'58	
conjunction	-9911 Jan	21 j 22:04	21°♏49'39	-0°49'44
minimum elong	-9911 Jan	21 j 22:04	21°♏49'39	0°50'09
max. Earth dist.	-9911 Jan	21 j 23:57	21°♏49'55	20.75610 AU
morning rise	-9911 Feb	07 j 15:53	22°♏46'43	
retrograde	-9911 May	12 j 22:56	25°♏55'44	
opposition	-9911 Jul	28 j 00:24	23°♏55'22	-0°56'49
min. Earth dist.	-9911 Jul	28 j 00:12	23°♏55'23	18.72682 AU
direct	-9911 Oct	10 j 13:17	21°♏56'33	
evening set	-9910 Jan	09 j 19:41	25°♏00'09	
conjunction	-9910 Jan	26 j 11:48	25°♏57'06	-0°52'47
minimum elong	-9910 Jan	26 j 11:48	25°♏57'06	0°53'13
max. Earth dist.	-9910 Jan	26 j 10:47	25°♏56'58	20.69639 AU
morning rise	-9910 Feb	12 j 06:08	26°♏54'25	
	-9910 May	04 j 23:36	0°♐	
retrograde	-9910 May	17 j 12:26	0°♐03'57	
	-9910 May	29 j 22:45	30°℞♏	
opposition	-9910 Aug	01 j 07:27	28°♏03'30	-1°00'04
min. Earth dist.	-9910 Aug	01 j 08:53	28°♏03'21	18.66505 AU
direct	-9910 Oct	14 j 22:22	26°♏04'20	
evening set	-9909 Jan	14 j 09:44	29°♏09'04	
	-9909 Jan	29 j 06:42	0°♐	
conjunction	-9909 Jan	31 j 02:31	0°♐06'19	-0°55'34
minimum elong	-9909 Jan	31 j 02:31	0°♐06'19	0°56'01
max. Earth dist.	-9909 Jan	30 j 22:36	0°♐05'45	20.63250 AU
morning rise	-9909 Feb	16 j 21:10	1°♐03'51	
retrograde	-9909 May	21 j 23:21	4°♐13'55	
opposition	-9909 Aug	05 j 15:08	2°♐13'22	-1°03'01
min. Earth dist.	-9909 Aug	05 j 19:50	2°♐12'53	18.59927 AU
direct	-9909 Oct	19 j 05:34	0°♐13'48	
evening set	-9908 Jan	19 j 00:33	3°♐19'42	
conjunction	-9908 Feb	04 j 17:58	4°♐17'14	-0°58'04
minimum elong	-9908 Feb	04 j 17:57	4°♐17'14	0°58'33
max. Earth dist.	-9908 Feb	04 j 10:56	4°♐16'13	20.56501 AU
morning rise	-9908 Feb	21 j 12:59	5°♐15'02	
retrograde	-9908 May	25 j 13:22	8°♐25'37	
opposition	-9908 Aug	08 j 23:18	6°♐24'57	-1°05'39
min. Earth dist.	-9908 Aug	09 j 05:36	6°♐24'17	18.53012 AU
direct	-9908 Oct	22 j 16:01	4°♐24'57	
evening set	-9907 Jan	22 j 16:04	7°♐32'03	
conjunction	-9907 Feb	08 j 10:05	8°♐29'53	-1°00'16
minimum elong	-9907 Feb	08 j 10:05	8°♐29'53	1°00'47
max. Earth dist.	-9907 Feb	08 j 00:37	8°♐28'31	20.49427 AU
morning rise	-9907 Feb	25 j 05:17	9°♐27'56	
retrograde	-9907 May	30 j 01:18	12°♐39'04	
opposition	-9907 Aug	13 j 08:10	10°♐38'15	-1°07'56
min. Earth dist.	-9907 Aug	13 j 17:29	10°♐37'16	18.45810 AU
direct	-9907 Oct	27 j 01:24	8°♐37'47	
evening set	-9906 Jan	27 j 08:39	11°♐46'09	
conjunction	-9906 Feb	13 j 03:08	12°♐44'16	-1°02'09
minimum elong	-9906 Feb	13 j 03:07	12°♐44'16	1°02'41
max. Earth dist.	-9906 Feb	12 j 14:34	12°♐42'27	20.42123 AU
morning rise	-9906 Mar	01 j 22:37	13°♐42'34	
retrograde	-9906 Jun	03 j 15:41	16°♐54'16	
opposition	-9906 Aug	17 j 17:23	14°♐53'17	-1°09'53
min. Earth dist.	-9906 Aug	18 j 04:15	14°♐52'08	18.38417 AU
direct	-9906 Oct	31 j 13:00	12°♐52'20	
evening set	-9905 Feb	01 j 02:07	16°♐02'01	
conjunction	-9905 Feb	17 j 21:06	17°♐00'26	-1°03'43
minimum elong	-9905 Feb	17 j 21:05	17°♐00'26	1°04'16
max. Earth dist.	-9905 Feb	17 j 06:30	16°♐58'18	20.34646 AU
morning rise	-9905 Mar	06 j 16:32	17°♐58'59	
retrograde	-9905 Jun	08 j 05:14	21°♐11'15	
opposition	-9905 Aug	22 j 03:32	19°♐10'07	-1°11'27
min. Earth dist.	-9905 Aug	22 j 17:02	19°♐08'41	18.30894 AU
direct	-9905 Nov	05 j 00:40	17°♐08'41	
evening set	-9904 Feb	05 j 20:21	20°♐19'42	
conjunction	-9904 Feb	22 j 15:34	21°♐18'26	-1°04'56
minimum elong	-9904 Feb	22 j 15:34	21°♐18'26	1°05'30
max. Earth dist.	-9904 Feb	21 j 22:00	21°♐15'51	20.27094 AU
morning rise	-9904 Mar	10 j 11:08	22°♐17'13	
retrograde	-9904 Jun	11 j 20:13	25°♐30'06	
opposition	-9904 Aug	25 j 14:16	23°♐28'49	-1°12'39
min. Earth dist.	-9904 Aug	26 j 05:04	23°♐27'14	18.23337 AU
direct	-9904 Nov	08 j 13:44	21°♐26'54	
evening set	-9903 Feb	09 j 15:29	24°♐39'19	
conjunction	-9903 Feb	26 j 11:05	25°♐38'20	-1°05'48
minimum elong	-9903 Feb	26 j 11:05	25°♐38'20	1°06'22
max. Earth dist.	-9903 Feb	25 j 16:02	25°♐35'31	20.19526 AU
morning rise	-9903 Mar	15 j 06:25	26°♐37'22	
retrograde	-9903 Jun	16 j 11:24	29°♐50'51	
opposition	-9903 Aug	30 j 01:48	27°♐49'27	-1°13'26
min. Earth dist.	-9903 Aug	30 j 18:51	27°♐47'38	18.15794 AU
direct	-9903 Nov	13 j 03:00	25°♐47'06	
evening set	-9902 Feb	14 j 11:40	29°♐00'55	
max. Earth dist.	-9902 Mar	02 j 09:15	29°♐56'57	20.12019 AU
conjunction	-9902 Mar	03 j 07:21	0°♑00'14	-1°06'18
minimum elong	-9902 Mar	03 j 07:21	0°♑00'14	1°06'53

Attention, astronomical year style is used: The year -9902 in astronomical counting style is the year 9903 BCE in historical counting style.

	-9902 Mar 03 j 05:49	0°♉	
morning rise	-9902 Mar 20 j 02:43	0°♉59'31	
retrograde	-9902 Jun 21 j 04:04	4°♉13'39	
opposition	-9902 Sep 03 j 14:10	2°♓12'09	-1°13'48
min. Earth dist.	-9902 Sep 04 j 08:31	2°♓10'10	18.08333 AU
direct	-9902 Nov 17 j 17:54	0°♓09'20	
evening set	-9901 Feb 19 j 08:42	3°♓24'37	
max. Earth dist.	-9901 Mar 07 j 05:28	4°♓20'47	20.04595 AU
conjunction	-9901 Mar 08 j 04:38	4°♓24'14	-1°06'25
minimum elong	-9901 Mar 08 j 04:38	4°♓24'14	1°06'59
morning rise	-9901 Mar 24 j 23:33	5°♓23'45	
retrograde	-9901 Jun 25 j 21:01	8°♓38'32	
opposition	-9901 Sep 08 j 03:27	6°♓36'58	-1°13'45
min. Earth dist.	-9901 Sep 08 j 23:45	6°♓34'47	18.00970 AU
direct	-9901 Nov 22 j 08:43	4°♓33'46	
evening set	-9900 Feb 24 j 06:47	7°♓50'31	
max. Earth dist.	-9900 Mar 11 j 00:25	8°♓46'30	19.97304 AU
conjunction	-9900 Mar 12 j 02:35	8°♓50'24	-1°06'08
minimum elong	-9900 Mar 12 j 02:35	8°♓50'24	1°06'44
morning rise	-9900 Mar 28 j 21:20	9°♓50'10	
retrograde	-9900 Jun 29 j 15:38	13°♓05'38	
opposition	-9900 Sep 11 j 17:37	11°♓04'01	-1°13'15
min. Earth dist.	-9900 Sep 12 j 15:19	11°♓01'40	17.93756 AU
direct	-9900 Nov 26 j 01:07	9°♓00'26	
evening set	-9899 Feb 28 j 05:32	12°♓18'39	
max. Earth dist.	-9899 Mar 15 j 22:36	13°♓14'48	19.90147 AU
conjunction	-9899 Mar 17 j 01:28	13°♓18'50	-1°05'27
minimum elong	-9899 Mar 17 j 01:28	13°♓18'50	1°06'01
morning rise	-9899 Apr 02 j 19:41	14°♓18'50	
retrograde	-9899 Jul 04 j 10:44	17°♓34'57	
opposition	-9899 Sep 16 j 08:48	15°♓33'19	-1°12'17
min. Earth dist.	-9899 Sep 17 j 08:13	15°♓30'47	17.86662 AU
direct	-9899 Nov 30 j 17:56	13°♓29'23	