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 Feb 17 j 09:31	27°♐44'27	
	-10400 Mar 05 j 21:56	0°♑	
conjunction	-10400 Mar 06 j 11:23	0°♑04'22	-2°25'32
minimum elong	-10400 Mar 06 j 11:22	0°♑04'22	2°26'06
max. Earth dist.	-10400 Mar 07 j 16:38	0°♑13'52	10.04312 AU
morning rise	-10400 Mar 24 j 11:32	2°♑23'39	
retrograde	-10400 Jul 06 j 06:26	10°♑31'24	
opposition	-10400 Sep 10 j 18:49	7°♑03'03	-3°01'56
min. Earth dist.	-10400 Sep 09 j 21:33	7°♑07'27	8.11650 AU
direct	-10400 Nov 17 j 05:31	3°♑33'02	
evening set	-10399 Mar 03 j 09:40	11°♑44'03	
conjunction	-10399 Mar 21 j 09:18	14°♑00'49	-2°24'03
minimum elong	-10399 Mar 21 j 09:19	14°♑00'49	2°24'37
max. Earth dist.	-10399 Mar 22 j 12:26	14°♑09'28	10.19219 AU
morning rise	-10399 Apr 08 j 06:01	16°♑16'34	
retrograde	-10399 Jul 19 j 18:13	24°♑09'03	
opposition	-10399 Sep 24 j 10:07	20°♑42'50	-2°54'21
min. Earth dist.	-10399 Sep 23 j 15:19	20°♑46'40	8.27414 AU
direct	-10399 Dec 01 j 14:21	17°♑13'31	
evening set	-10398 Mar 17 j 20:00	25°♑14'04	
conjunction	-10398 Apr 04 j 16:57	27°♑27'27	-2°14'36
minimum elong	-10398 Apr 04 j 17:00	27°♑27'28	2°15'09
max. Earth dist.	-10398 Apr 05 j 16:03	27°♑34'42	10.35699 AU
morning rise	-10398 Apr 22 j 10:07	29°♑39'35	
	-10398 Apr 25 j 05:03	0°♒	
retrograde	-10398 Aug 01 j 16:57	7°♒16'52	
opposition	-10398 Oct 07 j 15:19	3°♒52'52	-2°37'45
min. Earth dist.	-10398 Oct 06 j 23:34	3°♒56'01	8.44282 AU
direct	-10398 Dec 15 j 14:22	0°♒24'34	
evening set	-10397 Mar 31 j 16:08	8°♒13'51	
conjunction	-10397 Apr 18 j 10:07	10°♒23'53	-1°58'31
minimum elong	-10397 Apr 18 j 10:11	10°♒23'54	1°59'00
max. Earth dist.	-10397 Apr 19 j 04:07	10°♒29'24	10.52834 AU
morning rise	-10397 May 05 j 23:44	12°♒32'28	
	-10397 May 27 j 07:04	15°♒	
retrograde	-10397 Aug 14 j 02:53	19°♒55'27	
opposition	-10397 Oct 20 j 10:40	16°♒33'37	-2°13'59
min. Earth dist.	-10397 Oct 19 j 22:12	16°♒36'05	8.61362 AU
	-10397 Nov 10 j 00:08	15°℞♒	
direct	-10397 Dec 29 j 04:40	13°♒06'35	
	-10396 Feb 15 j 18:01	15°♒	
evening set	-10396 Apr 12 j 22:17	20°♒44'35	
conjunction	-10396 Apr 30 j 13:09	22°♒51'22	-1°37'15
minimum elong	-10396 Apr 30 j 13:13	22°♒51'23	1°37'39
max. Earth dist.	-10396 May 01 j 01:55	22°♒55'13	10.69754 AU
morning rise	-10396 May 17 j 23:05	24°♒56'36	
	-10396 Jul 06 j 04:21	0°♓	
retrograde	-10396 Aug 25 j 05:02	2°♓06'51	
	-10396 Oct 15 j 20:18	30°℞♒	
opposition	-10396 Oct 31 j 21:27	28°♒47'02	-1°44'58
min. Earth dist.	-10396 Oct 31 j 12:21	28°♒48'48	8.77836 AU
direct	-10395 Jan 10 j 07:18	25°♒21'25	
	-10395 Mar 31 j 05:07	0°♓	
evening set	-10395 Apr 25 j 15:19	2°♓48'39	
conjunction	-10395 May 13 j 02:50	4°♓52'24	-1°12'17
minimum elong	-10395 May 13 j 02:53	4°♓52'25	1°12'35
max. Earth dist.	-10395 May 13 j 11:05	4°♓54'51	10.85684 AU
morning rise	-10395 May 30 j 08:58	6°♓54'34	
retrograde	-10395 Sep 05 j 22:32	13°♓54'02	
opposition	-10395 Nov 13 j 00:46	10°♓36'00	-1°12'29
min. Earth dist.	-10395 Nov 12 j 20:04	10°♓36'54	8.92998 AU
direct	-10394 Jan 22 j 23:41	7°♓11'48	
evening set	-10394 May 07 j 20:53	14°♓29'19	
conjunction	-10394 May 25 j 04:48	16°♓30'20	-0°45'00
minimum elong	-10394 May 25 j 04:49	16°♓30'20	0°45'12
max. Earth dist.	-10394 May 25 j 07:43	16°♓31'11	10.99967 AU
morning rise	-10394 Jun 11 j 07:13	18°♓29'47	
retrograde	-10394 Sep 17 j 09:20	25°♓20'32	
opposition	-10394 Nov 24 j 21:42	22°♓04'01	-0°38'07
min. Earth dist.	-10394 Nov 24 j 22:07	22°♓03'56	9.06255 AU
direct	-10393 Feb 04 j 08:13	18°♓41'09	
evening set	-10393 May 19 j 16:37	25°♓50'18	
conjunction	-10393 Jun 05 j 20:39	27°♓48'54	-0°16'36
minimum elong	-10393 Jun 05 j 20:40	27°♓48'54	0°16'41
max. Earth dist.	-10393 Jun 05 j 17:19	27°♓47'56	11.12059 AU
morning rise	-10393 Jun 22 j 19:36	29°♓46'02	
	-10393 Jun 24 j 21:00	0°♈	
retrograde	-10393 Sep 28 j 14:00	6°♈30'17	
opposition	-10393 Dec 06 j 13:51	3°♈14'54	-0°03'12
min. Earth dist.	-10393 Dec 06 j 18:51	3°♈13'58	9.17100 AU
asc. node	-10392 Jan 09 j 22:27	0°♈56'29	
	-10392 Feb 04 j 11:06	30°℞♓	
direct	-10392 Feb 16 j 09:00	29°♓53'17	
	-10392 Feb 28 j 07:17	0°♈	
evening set	-10392 May 30 j 04:10	6°♈55'35	
conjunction	-10392 Jun 16 j 04:20	8°♈52'07	0°11'56
minimum elong	-10392 Jun 16 j 04:19	8°♈52'07	0°11'58
behind sun begin	-10392 Jun 15 j 23:27	8°♈50'44	
behind sun end	-10392 Jun 16 j 09:11	8°♈53'30	
max. Earth dist.	-10392 Jun 15 j 19:28	8°♈49'35	11.21507 AU
morning rise	-10392 Jul 02 j 23:50	10°♈47'22	
retrograde	-10392 Oct 08 j 16:42	17°♈27'27	
opposition	-10392 Dec 17 j 02:36	14°♈12'48	0°31'06
min. Earth dist.	-10392 Dec 17 j 11:17	14°♈11'12	9.25114 AU
direct	-10391 Feb 27 j 04:55	10°♈52'15	
evening set	-10391 Jun 10 j 09:23	17°♈49'22	
conjunction	-10391 Jun 27 j 05:55	19°♈44'18	0°39'31
minimum elong	-10391 Jun 27 j 05:53	19°♈44'17	0°39'40
max. Earth dist.	-10391 Jun 26 j 17:01	19°♈40'36	11.27949 AU
morning rise	-10391 Jul 13 j 22:03	21°♈38'04	
retrograde	-10391 Oct 19 j 19:23	28°♈16'15	
opposition	-10391 Dec 28 j 13:32	25°♈02'00	1°03'50
min. Earth dist.	-10391 Dec 29 j 02:09	24°♈59'42	9.30006 AU
direct	-10390 Mar 10 j 17:35	21°♈42'22	
evening set	-10390 Jun 21 j 10:12	28°♈36'02	
	-10390 Jul 03 j 18:52	0°♉	
max. Earth dist.	-10390 Jul 07 j 10:02	0°♉24'55	11.31178 AU
conjunction	-10390 Jul 08 j 03:11	0°♉29'49	1°05'29
minimum elong	-10390 Jul 08 j 03:09	0°♉29'48	1°05'44
morning rise	-10390 Jul 24 j 16:23	2°♉22'38	
retrograde	-10390 Oct 30 j 21:06	9°♉01'08	
opposition	-10389 Jan 09 j 00:16	5°♉46'54	1°34'06
min. Earth dist.	-10389 Jan 09 j 17:13	5°♉43'50	9.31652 AU
direct	-10389 Mar 22 j 03:31	2°♉27'55	
evening set	-10389 Jul 02 j 08:33	9°♉19'56	
conjunction	-10389 Jul 18 j 22:10	11°♉13'00	1°29'04
minimum elong	-10389 Jul 18 j 22:07	11°♉12'59	1°29'24
max. Earth dist.	-10389 Jul 18 j 00:29	11°♉06'48	11.31156 AU

Attention, astronomical year style is used: The year -10389 in astronomical counting style is the year 10390 BCE in historical counting style.

morning rise	-10389 Aug 04 j 08:59	13°♉05'21	
	-10389 Aug 21 j 23:57	15°♉	
retrograde	-10389 Nov 11 j 01:54	19°♉46'19	
opposition	-10388 Jan 20 j 12:10	16°♉31'42	2°01'07
min. Earth dist.	-10388 Jan 21 j 08:09	16°♉28'05	9.30062 AU
	-10388 Feb 11 j 10:09	15°℞♉	
direct	-10388 Apr 01 j 13:00	13°♉13'08	
	-10388 May 20 j 00:10	15°♉	
evening set	-10388 Jul 12 j 05:59	20°♉05'07	
conjunction	-10388 Jul 28 j 16:56	21°♉57'59	1°49'34
minimum elong	-10388 Jul 28 j 16:52	21°♉57'58	1°49'59
max. Earth dist.	-10388 Jul 27 j 16:58	21°♉51'05	11.27943 AU
morning rise	-10388 Aug 14 j 01:52	23°♉50'23	
	-10388 Oct 25 j 05:03	0°♊	
retrograde	-10388 Nov 21 j 10:25	0°♊35'51	
	-10388 Dec 19 j 04:01	30°℞♉	
opposition	-10387 Jan 31 j 02:47	27°♉20'26	2°24'04
min. Earth dist.	-10387 Feb 01 j 00:13	27°♉16'33	9.25324 AU
direct	-10387 Apr 12 j 21:43	24°♉02'02	
	-10387 Jul 14 j 21:28	0°♊	
evening set	-10387 Jul 23 j 04:05	0°♊55'34	
conjunction	-10387 Aug 08 j 13:08	2°♊48'45	2°06'19
minimum elong	-10387 Aug 08 j 13:05	2°♊48'45	2°06'48
max. Earth dist.	-10387 Aug 07 j 12:10	2°♊41'31	11.21655 AU
morning rise	-10387 Aug 24 j 20:51	4°♊41'43	
retrograde	-10387 Dec 03 j 02:31	11°♊33'39	
opposition	-10386 Feb 11 j 21:24	8°♊17'07	2°42'10
min. Earth dist.	-10386 Feb 12 j 19:51	8°♊13'02	9.17588 AU
direct	-10386 Apr 24 j 07:55	4°♊58'38	
evening set	-10386 Aug 03 j 04:59	11°♊55'17	
max. Earth dist.	-10386 Aug 18 j 10:11	13°♊41'33	11.12496 AU
conjunction	-10386 Aug 19 j 12:46	13°♊49'21	2°18'40
minimum elong	-10386 Aug 19 j 12:44	13°♊49'21	2°19'13
morning rise	-10386 Sep 04 j 20:19	15°♊43'29	
retrograde	-10386 Dec 14 j 23:22	22°♊43'39	
opposition	-10385 Feb 23 j 21:17	19°♊25'44	2°54'38
min. Earth dist.	-10385 Feb 24 j 20:53	19°♊21'24	9.07104 AU
direct	-10385 May 05 j 18:59	16°♊06'56	
evening set	-10385 Aug 14 j 10:10	23°♊08'16	
conjunction	-10385 Aug 30 j 17:42	25°♊03'47	2°25'58
minimum elong	-10385 Aug 30 j 17:41	25°♊03'47	2°26'33
max. Earth dist.	-10385 Aug 29 j 14:34	24°♊55'43	11.00773 AU
morning rise	-10385 Sep 16 j 02:11	26°♊59'40	
	-10385 Oct 13 j 11:11	0°♋	
retrograde	-10385 Dec 27 j 05:37	4°♋09'54	
opposition	-10384 Mar 07 j 03:55	0°♋50'18	3°00'39
min. Earth dist.	-10384 Mar 08 j 03:21	0°♋45'57	8.94225 AU
	-10384 Mar 18 j 14:02	30°℞♊	
direct	-10384 May 16 j 13:27	27°♊30'57	
	-10384 Jul 11 j 08:23	0°♋	
evening set	-10384 Aug 24 j 21:16	4°♋38'25	
max. Earth dist.	-10384 Sep 09 j 04:27	6°♋28'20	10.86878 AU
conjunction	-10384 Sep 10 j 05:54	6°♋36'01	2°27'37
minimum elong	-10384 Sep 10 j 05:54	6°♋36'01	2°28'12
morning rise	-10384 Sep 26 j 16:24	8°♋34'16	
retrograde	-10383 Jan 07 j 22:41	15°♋56'08	
opposition	-10383 Mar 19 j 18:16	12°♋34'39	2°59'27
min. Earth dist.	-10383 Mar 20 j 15:44	12°♋30'38	8.79394 AU
direct	-10383 May 28 j 12:35	9°♋14'37	
evening set	-10383 Sep 05 j 16:30	16°♋29'34	
max. Earth dist.	-10383 Sep 21 j 04:38	18°♋22'50	10.71306 AU

conjunction	-10383 Sep 22 j 03:31	18°♋29'51	2°23'03
minimum elong	-10383 Sep 22 j 03:33	18°♋29'51	2°23'37
morning rise	-10383 Oct 08 j 17:13	20°♋31'06	
retrograde	-10382 Jan 21 j 02:44	28°♋05'50	
opposition	-10382 Apr 01 j 17:07	24°♋42'22	2°50'21
min. Earth dist.	-10382 Apr 02 j 11:33	24°♋38'52	8.63164 AU
direct	-10382 Jun 09 j 18:16	21°♋21'31	
evening set	-10382 Sep 17 j 21:35	28°♋45'11	
	-10382 Sep 27 j 23:53	0°♌	
conjunction	-10382 Oct 04 j 12:06	0°♌48'44	2°11'52
minimum elong	-10382 Oct 04 j 12:09	0°♌48'45	2°12'24
max. Earth dist.	-10382 Oct 03 j 15:53	0°♌42'25	10.54675 AU
morning rise	-10382 Oct 21 j 06:21	2°♌53'32	
retrograde	-10381 Feb 03 j 19:23	10°♌42'02	
opposition	-10381 Apr 15 j 01:37	7°♌16'35	2°32'52
min. Earth dist.	-10381 Apr 15 j 16:41	7°♌13'40	8.46219 AU
direct	-10381 Jun 22 j 08:42	3°♌54'46	
evening set	-10381 Sep 30 j 14:04	11°♌28'08	
conjunction	-10381 Oct 17 j 09:15	13°♌35'25	1°53'55
minimum elong	-10381 Oct 17 j 09:19	13°♌35'26	1°54'23
max. Earth dist.	-10381 Oct 16 j 16:42	13°♌30'09	10.37723 AU
	-10381 Oct 28 j 12:05	15°♌	
morning rise	-10381 Nov 03 j 09:13	15°♌44'14	
retrograde	-10380 Feb 17 j 23:20	23°♌46'50	
opposition	-10380 Apr 27 j 19:55	20°♌19'26	2°06'53
min. Earth dist.	-10380 Apr 28 j 07:05	20°♌17'14	8.29363 AU
direct	-10380 Jul 04 j 08:49	16°♌56'32	
evening set	-10380 Oct 12 j 19:46	24°♌40'22	
conjunction	-10380 Oct 29 j 20:40	26°♌51'40	1°29'23
minimum elong	-10380 Oct 29 j 20:44	26°♌51'41	1°29'46
max. Earth dist.	-10380 Oct 29 j 09:31	26°♌48'04	10.21289 AU
morning rise	-10380 Nov 16 j 03:03	29°♌04'46	
	-10380 Nov 23 j 11:19	0°♍	
retrograde	-10379 Mar 03 j 14:03	7°♍21'00	
opposition	-10379 May 11 j 23:31	3°♍51'48	1°32'53
min. Earth dist.	-10379 May 12 j 05:59	3°♍50'30	8.13494 AU
direct	-10379 Jul 17 j 20:27	0°♍27'46	
evening set	-10379 Oct 26 j 15:40	8°♍22'20	
conjunction	-10379 Nov 12 j 22:53	10°♍37'44	0°59'02
minimum elong	-10379 Nov 12 j 22:56	10°♍37'45	0°59'18
max. Earth dist.	-10379 Nov 12 j 18:34	10°♍36'19	10.06288 AU
morning rise	-10379 Nov 30 j 11:50	12°♍55'02	
retrograde	-10378 Mar 18 j 14:41	21°♍23'34	
opposition	-10378 May 26 j 11:45	17°♍52'48	0°52'06
min. Earth dist.	-10378 May 26 j 12:26	17°♍52'40	7.99556 AU
direct	-10378 Jul 31 j 19:01	14°♍27'39	
evening set	-10378 Nov 10 j 02:01	22°♍32'37	
conjunction	-10378 Nov 27 j 15:27	24°♍51'49	0°24'16
minimum elong	-10378 Nov 27 j 15:29	24°♍51'50	0°24'23
max. Earth dist.	-10378 Nov 27 j 18:41	24°♍52'53	9.93660 AU
morning rise	-10378 Dec 15 j 10:34	27°♍12'55	
	-10377 Jan 06 j 16:27	0°♎	
retrograde	-10377 Apr 02 j 23:13	5°♎51'23	
opposition	-10377 Jun 10 j 06:59	2°♎19'26	0°06'45
min. Earth dist.	-10377 Jun 10 j 01:31	2°♎20'33	7.88478 AU
	-10377 Jul 11 j 07:19	30°℞♍	
desc. node	-10377 Aug 03 j 13:25	29°♍00'52	
direct	-10377 Aug 15 j 02:33	28°♍53'09	
	-10377 Sep 18 j 06:26	0°♎	
evening set	-10377 Nov 25 j 02:19	7°♎07'33	
conjunction	-10377 Dec 12 j 21:21	9°♎29'53	-0°12'56

Attention, astronomical year style is used: The year -10377 in astronomical counting style is the year 10378 BCE in historical counting style.

minimum elong	-10377 Dec 12 j 21:20	9°♎29'52	0°12'57
behind sun begin	-10377 Dec 12 j 16:57	9°♎28'25	
behind sun end	-10377 Dec 13 j 01:43	9°♎31'20	
max. Earth dist.	-10377 Dec 13 j 08:10	9°♎33'30	9.84297 AU
morning rise	-10377 Dec 30 j 21:39	11°♎53'57	
retrograde	-10376 Apr 17 j 12:56	20°♎38'54	
opposition	-10376 Jun 24 j 06:53	17°♎06'13	-0°40'10
min. Earth dist.	-10376 Jun 23 j 19:40	17°♎08'33	7.81074 AU
direct	-10376 Aug 28 j 18:45	13°♎38'53	
evening set	-10376 Dec 09 j 14:25	22°♎00'57	
conjunction	-10376 Dec 27 j 13:53	24°♎25'23	-0°49'48
minimum elong	-10376 Dec 27 j 13:50	24°♎25'22	0°49'59
max. Earth dist.	-10376 Dec 28 j 07:37	24°♎31'21	9.78905 AU
morning rise	-10375 Jan 14 j 17:50	26°♎51'17	
	-10375 Feb 08 j 16:33	0°♏	
retrograde	-10375 May 03 j 03:16	5°♏38'27	
opposition	-10375 Jul 09 j 08:47	2°♏05'35	-1°24'59
min. Earth dist.	-10375 Jul 08 j 16:48	2°♏08'56	7.77909 AU
	-10375 Aug 05 j 04:10	30°℞♎	
direct	-10375 Sep 12 j 18:23	28°♎37'19	
	-10375 Oct 20 j 20:31	0°♏	
evening set	-10375 Dec 25 j 10:42	7°♏04'26	
conjunction	-10374 Jan 12 j 13:00	9°♏29'44	-1°23'36
minimum elong	-10374 Jan 12 j 12:55	9°♏29'42	1°23'55
max. Earth dist.	-10374 Jan 13 j 12:23	9°♏37'36	9.77912 AU
morning rise	-10374 Jan 30 j 18:42	11°♏56'05	
	-10374 Feb 24 j 01:46	15°♏	
retrograde	-10374 May 18 j 13:47	20°♏40'50	
opposition	-10374 Jul 24 j 09:31	17°♏08'20	-2°04'04
min. Earth dist.	-10374 Jul 23 j 14:13	17°♏12'24	7.79228 AU
	-10374 Aug 20 j 19:09	15°℞♏	
direct	-10374 Sep 27 j 22:28	13°♏39'19	
	-10374 Nov 04 j 17:03	15°♏	
evening set	-10373 Jan 10 j 10:29	22°♏08'15	
conjunction	-10373 Jan 28 j 14:03	24°♏33'07	-1°51'38
minimum elong	-10373 Jan 28 j 13:59	24°♏33'06	1°52'04
max. Earth dist.	-10373 Jan 29 j 17:20	24°♏42'15	9.81397 AU
morning rise	-10373 Feb 15 j 19:44	26°♏58'35	
	-10373 Mar 11 j 22:15	0°♐	
retrograde	-10373 Jun 02 j 16:58	5°♐36'22	
min. Earth dist.	-10373 Aug 07 j 08:56	2°♐09'12	7.84897 AU
opposition	-10373 Aug 08 j 06:03	2°♐04'45	-2°34'20
	-10373 Sep 03 j 18:59	30°℞♏	
direct	-10373 Oct 13 j 03:54	28°♏35'13	
	-10373 Nov 21 j 04:49	0°♐	
evening set	-10372 Jan 26 j 08:34	7°♐02'27	
conjunction	-10372 Feb 13 j 12:05	9°♐25'47	-2°11'55
minimum elong	-10372 Feb 13 j 12:01	9°♐25'46	2°12'26
max. Earth dist.	-10372 Feb 14 j 17:02	9°♐35'22	9.89033 AU
morning rise	-10372 Mar 02 j 16:16	11°♐49'12	
retrograde	-10372 Jun 16 j 09:08	20°♐16'14	
opposition	-10372 Aug 21 j 19:48	16°♐45'58	-2°53'49
min. Earth dist.	-10372 Aug 20 j 22:19	16°♐50'28	7.94375 AU
direct	-10372 Oct 27 j 06:51	13°♐16'12	
evening set	-10371 Feb 10 j 00:13	21°♐38'28	
conjunction	-10371 Feb 28 j 02:34	23°♐59'24	-2°23'19
minimum elong	-10371 Feb 28 j 02:32	23°♐59'24	2°23'53
max. Earth dist.	-10371 Mar 01 j 06:54	24°♐08'40	10.00117 AU
morning rise	-10371 Mar 18 j 04:08	26°♐19'56	
	-10371 Apr 17 j 16:33	0°♑	
retrograde	-10371 Jun 30 j 13:29	4°♑33'39	
min. Earth dist.	-10371 Sep 04 j 04:11	1°♑09'25	8.06848 AU
opposition	-10371 Sep 05 j 00:56	1°♑05'07	-3°01'49
	-10371 Sep 18 j 08:36	30°℞♐	
direct	-10371 Nov 11 j 03:49	27°♐35'30	
	-10370 Jan 03 j 00:39	0°♑	
evening set	-10370 Feb 25 j 05:35	5°♑50'11	
conjunction	-10370 Mar 15 j 06:04	8°♑08'12	-2°25'41
minimum elong	-10370 Mar 15 j 06:04	8°♑08'12	2°26'16
max. Earth dist.	-10370 Mar 16 j 08:18	8°♑16'38	10.13800 AU
morning rise	-10370 Apr 02 j 04:25	10°♑25'25	
retrograde	-10370 Jul 14 j 06:31	18°♑24'28	
opposition	-10370 Sep 18 j 20:30	14°♑57'52	-2°58'47
min. Earth dist.	-10370 Sep 18 j 01:02	15°♑01'51	8.21487 AU
direct	-10370 Nov 25 j 16:54	11°♑28'47	
evening set	-10369 Mar 11 j 22:09	19°♑33'54	
conjunction	-10369 Mar 29 j 20:23	21°♑48'44	-2°19'38
minimum elong	-10369 Mar 29 j 20:25	21°♑48'44	2°20'11
max. Earth dist.	-10369 Mar 30 j 19:50	21°♑56'08	10.29273 AU
morning rise	-10369 Apr 16 j 15:13	24°♑02'25	
	-10369 Jun 12 j 16:28	0°♒	
retrograde	-10369 Jul 27 j 11:19	1°♒46'24	
	-10369 Sep 11 j 02:29	30°℞♑	
opposition	-10369 Oct 02 j 06:11	28°♑21'51	-2°45'59
min. Earth dist.	-10369 Oct 01 j 13:10	28°♑25'17	8.37488 AU
direct	-10369 Dec 09 j 20:56	24°♑53'32	
	-10368 Feb 29 j 22:13	0°♒	
evening set	-10368 Mar 25 j 01:00	2°♒47'54	
conjunction	-10368 Apr 11 j 20:32	4°♒59'26	-2°06'18
minimum elong	-10368 Apr 11 j 20:35	4°♒59'27	2°06'48
max. Earth dist.	-10368 Apr 12 j 16:14	5°♒05'32	10.45702 AU
morning rise	-10368 Apr 29 j 11:40	7°♒09'35	
retrograde	-10368 Aug 08 j 03:50	14°♒38'58	
opposition	-10368 Oct 14 j 06:08	11°♒16'28	-2°25'11
min. Earth dist.	-10368 Oct 13 j 16:47	11°♒19'07	8.54028 AU
direct	-10368 Dec 22 j 15:06	7°♒49'06	
	-10367 Apr 03 j 00:36	15°♒	
evening set	-10367 Apr 07 j 13:43	15°♒32'18	
conjunction	-10367 Apr 25 j 06:09	17°♒40'34	-1°47'09
minimum elong	-10367 Apr 25 j 06:13	17°♒40'35	1°47'34
max. Earth dist.	-10367 Apr 25 j 20:51	17°♒45'02	10.62258 AU
morning rise	-10367 May 12 j 17:37	19°♒47'18	
retrograde	-10367 Aug 20 j 10:18	27°♒03'20	
opposition	-10367 Oct 26 j 21:07	23°♒42'45	-1°58'16
min. Earth dist.	-10367 Oct 26 j 12:09	23°♒44'30	8.70312 AU
direct	-10366 Jan 04 j 22:25	20°♒16'29	
evening set	-10366 Apr 20 j 12:42	27°♒48'45	
conjunction	-10366 May 08 j 01:46	29°♒53'55	-1°23'38
minimum elong	-10366 May 08 j 01:49	29°♒53'56	1°23'59
max. Earth dist.	-10366 May 08 j 10:27	29°♒56'31	10.78166 AU
	-10366 May 08 j 22:05	0°♓	
morning rise	-10366 May 25 j 09:42	1°♓57'31	
retrograde	-10366 Sep 01 j 05:52	9°♓01'55	
opposition	-10366 Nov 08 j 03:50	5°♓43'00	-1°27'08
min. Earth dist.	-10366 Nov 07 j 22:57	5°♓43'57	8.85608 AU
direct	-10365 Jan 17 j 20:56	2°♓17'56	
evening set	-10365 May 02 j 23:30	9°♓40'05	
conjunction	-10365 May 20 j 09:03	11°♓42'24	-0°57'13
minimum elong	-10365 May 20 j 09:06	11°♓42'25	0°57'28
max. Earth dist.	-10365 May 20 j 11:58	11°♓43'16	10.92742 AU
morning rise	-10365 Jun 06 j 13:24	13°♓43'11	
retrograde	-10365 Sep 12 j 18:55	20°♓37'58	
opposition	-10365 Nov 20 j 03:29	17°♓20'29	-0°53'25

Attention, astronomical year style is used: The year -10365 in astronomical counting style is the year 10366 BCE in historical counting style.

min. Earth dist.	-10365 Nov 20 j 02:19	17°♓20'42	8.99283 AU
direct	-10364 Jan 30 j 10:53	13°♓56'38	
evening set	-10364 May 13 j 23:35	21°♓09'50	
conjunction	-10364 May 31 j 05:32	23°♓09'37	-0°29'10
minimum elong	-10364 May 31 j 05:33	23°♓09'38	0°29'18
max. Earth dist.	-10364 May 31 j 03:56	23°♓09'09	11.05413 AU
morning rise	-10364 Jun 17 j 06:10	25°♓07'55	
	-10364 Aug 05 j 15:43	0°♈	
retrograde	-10364 Sep 23 j 03:30	1°♈55'17	
	-10364 Nov 12 j 07:23	30°℞♓	
opposition	-10364 Nov 30 j 21:52	28°♓38'57	-0°18'34
min. Earth dist.	-10364 Dec 01 j 00:43	28°♓38'25	9.10836 AU
direct	-10363 Feb 10 j 14:08	25°♓16'17	
	-10363 May 03 j 17:41	0°♈	
evening set	-10363 May 25 j 14:37	2°♈21'56	
conjunction	-10363 Jun 11 j 16:46	4°♈19'33	-0°00'36
minimum elong	-10363 Jun 11 j 16:47	4°♈19'33	0°00'37
behind sun begin	-10363 Jun 11 j 09:45	4°♈17'33	
behind sun end	-10363 Jun 11 j 23:48	4°♈21'33	
max. Earth dist.	-10363 Jun 11 j 10:43	4°♈17'50	11.15735 AU
asc. node	-10363 Jun 19 j 08:29	5°♈12'35	
morning rise	-10363 Jun 28 j 13:47	6°♈15'46	
retrograde	-10363 Oct 04 j 07:05	12°♈57'59	
opposition	-10363 Dec 12 j 12:17	9°♈42'29	0°16'10
min. Earth dist.	-10363 Dec 12 j 19:54	9°♈41'04	9.19888 AU
direct	-10362 Feb 22 j 11:27	6°♈20'52	
evening set	-10362 Jun 05 j 22:43	13°♈20'39	
conjunction	-10362 Jun 22 j 20:57	15°♈16'27	0°27'34
minimum elong	-10362 Jun 22 j 20:56	15°♈16'27	0°27'40
max. Earth dist.	-10362 Jun 22 j 09:24	15°♈13'08	11.23388 AU
morning rise	-10362 Jul 09 j 14:42	17°♈11'01	
retrograde	-10362 Oct 15 j 08:33	23°♈50'17	
opposition	-10362 Dec 23 j 23:55	20°♈35'19	0°49'45
min. Earth dist.	-10362 Dec 24 j 11:33	20°♈33'11	9.26158 AU
direct	-10361 Mar 06 j 03:22	17°♈14'39	
evening set	-10361 Jun 17 j 01:32	24°♈10'13	
conjunction	-10361 Jul 03 j 20:04	26°♈04'38	0°54'22
minimum elong	-10361 Jul 03 j 20:02	26°♈04'37	0°54'34
max. Earth dist.	-10361 Jul 03 j 04:16	26°♈00'07	11.28147 AU
morning rise	-10361 Jul 20 j 10:47	27°♈58'01	
	-10361 Aug 08 j 06:34	0°♉	
retrograde	-10361 Oct 26 j 10:12	4°♉36'34	
opposition	-10360 Jan 04 j 10:40	1°♉21'46	1°21'15
min. Earth dist.	-10360 Jan 05 j 01:01	1°♉19'09	9.29451 AU
	-10360 Jan 23 j 16:45	30°℞♈	
direct	-10360 Mar 16 j 16:03	28°♈01'57	
	-10360 May 06 j 22:03	0°♉	
evening set	-10360 Jun 27 j 00:46	4°♉54'58	
conjunction	-10360 Jul 13 j 16:00	6°♉48'26	1°19'06
minimum elong	-10360 Jul 13 j 15:57	6°♉48'26	1°19'24
max. Earth dist.	-10360 Jul 12 j 21:44	6°♉43'13	11.29865 AU
morning rise	-10360 Jul 30 j 03:51	8°♉41'05	
	-10360 Oct 15 j 20:00	15°♉	
retrograde	-10360 Nov 05 j 15:16	15°♉21'05	
	-10360 Nov 26 j 14:37	15°℞♉	
opposition	-10359 Jan 14 j 22:03	12°♉06'10	1°49'48
min. Earth dist.	-10359 Jan 15 j 14:56	12°♉03'06	9.29666 AU
direct	-10359 Mar 28 j 01:17	8°♉47'01	
	-10359 Jul 02 j 01:48	15°♉	
evening set	-10359 Jul 07 j 22:29	15°♉39'09	
conjunction	-10359 Jul 24 j 10:44	17°♉32'10	1°41'03
minimum elong	-10359 Jul 24 j 10:40	17°♉32'09	1°41'26
max. Earth dist.	-10359 Jul 23 j 13:30	17°♉26'04	11.28495 AU
morning rise	-10359 Aug 09 j 20:23	19°♉24'35	
retrograde	-10359 Nov 16 j 21:29	26°♉08'03	
opposition	-10358 Jan 26 j 11:23	22°♉52'44	2°14'38
min. Earth dist.	-10358 Jan 27 j 07:13	22°♉49'07	9.26802 AU
direct	-10358 Apr 08 j 08:03	19°♉34'01	
evening set	-10358 Jul 18 j 20:21	26°♉26'57	
max. Earth dist.	-10358 Aug 03 j 05:58	28°♉13'01	11.24079 AU
conjunction	-10358 Aug 04 j 06:05	28°♉20'00	1°59'31
minimum elong	-10358 Aug 04 j 06:02	28°♉19'59	1°59'59
	-10358 Aug 18 j 17:35	0°♊	
morning rise	-10358 Aug 20 j 14:23	0°♊12'43	
retrograde	-10358 Nov 28 j 09:36	7°♊01'42	
opposition	-10357 Feb 07 j 04:10	3°♊45'37	2°34'56
min. Earth dist.	-10357 Feb 08 j 02:01	3°♊41'39	9.20927 AU
direct	-10357 Apr 19 j 18:14	0°♊27'08	
evening set	-10357 Jul 29 j 19:55	7°♊22'27	
max. Earth dist.	-10357 Aug 14 j 03:05	9°♊08'47	11.16734 AU
conjunction	-10357 Aug 15 j 04:04	9°♊16'05	2°13'52
minimum elong	-10357 Aug 15 j 04:02	9°♊16'04	2°14'24
morning rise	-10357 Aug 31 j 11:40	11°♊09'39	
retrograde	-10357 Dec 10 j 04:05	18°♊06'04	
opposition	-10356 Feb 19 j 01:47	14°♊48'53	2°49'55
min. Earth dist.	-10356 Feb 19 j 23:46	14°♊44'52	9.12205 AU
direct	-10356 Apr 30 j 05:35	11°♊30'26	
evening set	-10356 Aug 08 j 23:09	18°♊29'39	
max. Earth dist.	-10356 Aug 24 j 06:03	20°♊17'08	11.06680 AU
conjunction	-10356 Aug 25 j 06:45	20°♊24'26	2°23'25
minimum elong	-10356 Aug 25 j 06:44	20°♊24'26	2°24'00
morning rise	-10356 Sep 10 j 14:34	22°♊19'26	
retrograde	-10356 Dec 21 j 08:40	29°♊25'02	
opposition	-10355 Mar 02 j 05:30	26°♊06'31	2°58'47
min. Earth dist.	-10355 Mar 03 j 03:04	26°♊02'32	9.00908 AU
direct	-10355 May 11 j 20:58	22°♊47'50	
evening set	-10355 Aug 20 j 07:42	29°♊52'23	
	-10355 Aug 21 j 09:42	0°♋	
conjunction	-10355 Sep 05 j 15:44	1°♋48'56	2°27'33
minimum elong	-10355 Sep 05 j 15:44	1°♋48'56	2°28'09
max. Earth dist.	-10355 Sep 04 j 14:59	1°♋41'31	10.94241 AU
morning rise	-10355 Sep 22 j 01:04	3°♋46'00	
retrograde	-10354 Jan 02 j 20:52	11°♋02'20	
opposition	-10354 Mar 14 j 16:28	7°♋42'14	3°00'45
min. Earth dist.	-10354 Mar 15 j 13:32	7°♋38'19	8.87400 AU
direct	-10354 May 23 j 15:42	4°♋23'05	
evening set	-10354 Aug 31 j 23:26	11°♋34'21	
max. Earth dist.	-10354 Sep 16 j 08:54	13°♋25'54	10.79831 AU
conjunction	-10354 Sep 17 j 09:01	13°♋33'14	2°25'43
minimum elong	-10354 Sep 17 j 09:02	13°♋33'15	2°26'17
morning rise	-10354 Oct 03 j 21:09	15°♋32'58	
retrograde	-10353 Jan 15 j 18:33	23°♋01'28	
opposition	-10353 Mar 27 j 11:36	19°♋39'32	2°55'05
min. Earth dist.	-10353 Mar 28 j 07:31	19°♋35'47	8.72145 AU
direct	-10353 Jun 04 j 19:17	16°♋19'41	
evening set	-10353 Sep 12 j 23:53	23°♋38'56	
conjunction	-10353 Sep 29 j 12:31	25°♋40'47	2°17'25
minimum elong	-10353 Sep 29 j 12:33	25°♋40'47	2°17'58
max. Earth dist.	-10353 Sep 28 j 15:09	25°♋34'10	10.63953 AU
morning rise	-10353 Oct 16 j 04:35	27°♋43'45	
	-10353 Nov 04 j 14:20	0°♌	
retrograde	-10352 Jan 29 j 05:03	5°♌25'29	

Attention, astronomical year style is used: The year -10352 in astronomical counting style is the year 10353 BCE in historical counting style.

opposition	-10352 Apr 08 j 15:44	2°♌01'35	2°41'15
min. Earth dist.	-10352 Apr 09 j 08:51	1°♌58'19	8.55695 AU
	-10352 May 07 j 02:09	30°℞♋	
direct	-10352 Jun 16 j 07:20	28°♋40'51	
	-10352 Jul 25 j 05:27	0°♌	
evening set	-10352 Sep 24 j 10:52	6°♌09'11	
max. Earth dist.	-10352 Oct 10 j 10:18	8°♌09'01	10.47193 AU
conjunction	-10352 Oct 11 j 03:51	8°♌14'33	2°02'24
minimum elong	-10352 Oct 11 j 03:55	8°♌14'34	2°02'53
morning rise	-10352 Oct 28 j 01:00	10°♌21'19	
	-10352 Dec 08 j 16:46	15°♌	
retrograde	-10351 Feb 11 j 04:12	18°♌16'57	
	-10351 Apr 20 j 07:17	15°℞♌	
opposition	-10351 Apr 22 j 05:19	14°♌51'04	2°18'58
min. Earth dist.	-10351 Apr 22 j 18:27	14°♌48'30	8.38713 AU
direct	-10351 Jun 29 j 02:30	11°♌29'17	
	-10351 Sep 01 j 13:04	15°♌	
evening set	-10351 Oct 07 j 10:25	19°♌07'45	
conjunction	-10351 Oct 24 j 08:42	21°♌17'01	1°40'42
minimum elong	-10351 Oct 24 j 08:46	21°♌17'02	1°41'06
max. Earth dist.	-10351 Oct 23 j 19:30	21°♌12'48	10.30314 AU
morning rise	-10351 Nov 10 j 11:52	23°♌27'57	
	-10350 Jan 12 j 10:34	0°♍	
retrograde	-10350 Feb 25 j 14:09	1°♍37'33	
	-10350 Apr 11 j 14:53	30°℞♌	
opposition	-10350 May 06 j 04:22	28°♌09'43	1°48'24
min. Earth dist.	-10350 May 06 j 12:43	28°♌08'04	8.22089 AU
direct	-10350 Jul 12 j 08:26	24°♌46'46	
	-10350 Sep 29 j 18:13	0°♍	
evening set	-10350 Oct 20 j 23:39	2°♍35'55	
conjunction	-10350 Nov 07 j 03:53	4°♍49'18	1°12'48
minimum elong	-10350 Nov 07 j 03:56	4°♍49'19	1°13'06
max. Earth dist.	-10350 Nov 06 j 19:42	4°♍46'38	10.14291 AU
morning rise	-10350 Nov 24 j 13:41	7°♍04'32	
retrograde	-10349 Mar 12 j 10:52	15°♍27'11	
opposition	-10349 May 20 j 12:40	11°♍57'33	1°10'28
min. Earth dist.	-10349 May 20 j 15:58	11°♍56'53	8.06855 AU
direct	-10349 Jul 26 j 01:09	8°♍33'20	
evening set	-10349 Nov 04 j 03:10	16°♍33'07	
conjunction	-10349 Nov 21 j 13:38	18°♍50'29	0°39'48
minimum elong	-10349 Nov 21 j 13:40	18°♍50'30	0°39'59
max. Earth dist.	-10349 Nov 21 j 11:43	18°♍49'51	10.00149 AU
morning rise	-10349 Dec 09 j 06:02	21°♍09'47	
retrograde	-10348 Mar 26 j 16:09	29°♍43'35	
opposition	-10348 Jun 03 j 04:44	26°♍12'24	0°26'54
min. Earth dist.	-10348 Jun 03 j 02:54	26°♍12'47	7.94020 AU
direct	-10348 Aug 08 j 04:16	22°♍46'49	
	-10348 Nov 10 j 13:57	0°♎	
evening set	-10348 Nov 17 j 21:03	0°♎56'38	
conjunction	-10348 Dec 05 j 13:28	3°♎17'29	0°03'33
minimum elong	-10348 Dec 05 j 13:28	3°♎17'29	0°03'34
behind sun begin	-10348 Dec 05 j 06:14	3°♎15'06	
behind sun end	-10348 Dec 05 j 20:43	3°♎19'53	
max. Earth dist.	-10348 Dec 05 j 18:34	3°♎19'10	9.88836 AU
morning rise	-10348 Dec 23 j 11:41	5°♎40'14	
desc. node	-10347 Jan 10 j 09:35	7°♎56'42	
retrograde	-10347 Apr 11 j 03:09	14°♎22'09	
opposition	-10347 Jun 18 j 02:22	10°♎49'50	-0°19'38
min. Earth dist.	-10347 Jun 17 j 19:19	10°♎51'18	7.84472 AU
direct	-10347 Aug 22 j 17:18	7°♎22'55	
evening set	-10347 Dec 03 j 03:37	15°♎41'21	
conjunction	-10347 Dec 21 j 01:06	18°♎04'51	-0°33'48
minimum elong	-10347 Dec 21 j 01:04	18°♎04'50	0°33'55
max. Earth dist.	-10347 Dec 21 j 13:25	18°♎08'59	9.81158 AU
morning rise	-10346 Jan 08 j 03:42	20°♎30'00	
retrograde	-10346 Apr 26 j 16:06	29°♎16'13	
opposition	-10346 Jul 03 j 03:17	25°♎43'15	-1°05'43
min. Earth dist.	-10346 Jul 02 j 15:11	25°♎45'47	7.78903 AU
direct	-10346 Sep 06 j 14:49	22°♎15'08	
	-10346 Dec 13 j 17:58	0°♏	
evening set	-10346 Dec 18 j 19:52	0°♏39'57	
conjunction	-10345 Jan 05 j 21:03	3°♏04'57	-1°09'14
minimum elong	-10345 Jan 05 j 20:59	3°♏04'56	1°09'30
max. Earth dist.	-10345 Jan 06 j 16:12	3°♏11'24	9.77688 AU
morning rise	-10345 Jan 24 j 02:16	5°♏31'14	
retrograde	-10345 May 12 j 03:09	14°♏17'21	
min. Earth dist.	-10345 Jul 17 j 11:49	10°♏47'46	7.77720 AU
opposition	-10345 Jul 18 j 04:27	10°♏44'16	-1°47'42
direct	-10345 Sep 21 j 17:20	7°♏15'08	
	-10345 Dec 29 j 05:06	15°♏	
evening set	-10344 Jan 03 j 18:06	15°♏43'27	
conjunction	-10344 Jan 21 j 21:26	18°♏08'42	-1°40'04
minimum elong	-10344 Jan 21 j 21:21	18°♏08'40	1°40'27
max. Earth dist.	-10344 Jan 22 j 22:04	18°♏16'58	9.78681 AU
morning rise	-10344 Feb 09 j 03:22	20°♏34'44	
retrograde	-10344 May 26 j 09:01	29°♏16'08	
min. Earth dist.	-10344 Jul 31 j 06:43	25°♏47'46	7.80979 AU
opposition	-10344 Aug 01 j 02:42	25°♏43'33	-2°22'11
direct	-10344 Oct 05 j 21:47	22°♏13'41	
	-10343 Jan 13 j 07:18	0°♐	
evening set	-10343 Jan 18 j 17:17	0°♐42'09	
conjunction	-10343 Feb 05 j 21:12	3°♐06'25	-2°03'58
minimum elong	-10343 Feb 05 j 21:07	3°♐06'24	2°04'27
max. Earth dist.	-10343 Feb 07 j 01:21	3°♐15'48	9.84035 AU
morning rise	-10343 Feb 24 j 02:11	5°♐30'58	
retrograde	-10343 Jun 10 j 06:36	14°♐03'31	
opposition	-10343 Aug 15 j 19:37	10°♐31'59	-2°46'39
min. Earth dist.	-10343 Aug 14 j 21:55	10°♐36'32	7.88398 AU
direct	-10343 Oct 21 j 00:42	7°♐01'41	
evening set	-10342 Feb 03 j 12:07	15°♐26'50	
conjunction	-10342 Feb 21 j 15:18	17°♐49'07	-2°19'24
minimum elong	-10342 Feb 21 j 15:15	17°♐49'06	2°19'57
max. Earth dist.	-10342 Feb 22 j 20:52	17°♐58'51	9.93321 AU
morning rise	-10342 Mar 11 j 18:05	20°♐11'11	
retrograde	-10342 Jun 24 j 17:54	28°♐31'38	
min. Earth dist.	-10342 Aug 29 j 07:04	25°♐06'09	7.99405 AU
opposition	-10342 Aug 30 j 04:51	25°♐01'36	-2°59'47
direct	-10342 Nov 04 j 23:35	21°♐31'16	
evening set	-10341 Feb 18 j 22:29	29°♐50'00	
	-10341 Feb 20 j 05:55	0°♑	
conjunction	-10341 Mar 09 j 00:04	2°♑09'35	-2°25'46
minimum elong	-10341 Mar 09 j 00:03	2°♑09'35	2°26'20
max. Earth dist.	-10341 Mar 10 j 04:50	2°♑18'54	10.05858 AU
morning rise	-10341 Mar 26 j 23:55	4°♑28'30	
retrograde	-10341 Jul 08 j 16:55	12°♑34'41	
min. Earth dist.	-10341 Sep 12 j 08:34	9°♑10'43	8.13221 AU
opposition	-10341 Sep 13 j 04:49	9°♑06'32	-3°01'33
direct	-10341 Nov 19 j 16:45	5°♑36'31	
evening set	-10340 Mar 04 j 21:11	13°♑46'27	
conjunction	-10340 Mar 22 j 20:31	16°♑02'53	-2°23'20
minimum elong	-10340 Mar 22 j 20:33	16°♑02'53	2°23'55
max. Earth dist.	-10340 Mar 23 j 22:19	16°♑11'06	10.20785 AU

Attention, astronomical year style is used: The year -10340 in astronomical counting style is the year 10341 BCE in historical counting style.

morning rise	-10340 Apr 09 j 17:03	18°♑18'18	
retrograde	-10340 Jul 21 j 02:08	26°♑09'17	
opposition	-10340 Sep 25 j 18:58	22°♑43'14	-2°52'53
min. Earth dist.	-10340 Sep 25 j 01:02	22°♑46'53	8.28951 AU
direct	-10340 Dec 03 j 01:49	19°♑13'57	
evening set	-10339 Mar 19 j 06:09	27°♑13'26	
conjunction	-10339 Apr 06 j 02:50	29°♑26'31	-2°13'05
minimum elong	-10339 Apr 06 j 02:53	29°♑26'32	2°13'37
max. Earth dist.	-10339 Apr 07 j 00:23	29°♑33'15	10.37178 AU
	-10339 Apr 10 j 14:00	0°♒	
morning rise	-10339 Apr 23 j 19:49	1°♒38'21	
retrograde	-10339 Aug 02 j 22:43	9°♒14'19	
opposition	-10339 Oct 08 j 23:08	5°♒50'27	-2°35'23
min. Earth dist.	-10339 Oct 08 j 07:42	5°♒53'32	8.45680 AU
direct	-10339 Dec 17 j 01:05	2°♒22'12	
evening set	-10338 Apr 02 j 00:53	10°♒10'30	
conjunction	-10338 Apr 19 j 18:43	12°♒20'16	-1°56'19
minimum elong	-10338 Apr 19 j 18:47	12°♒20'17	1°56'48
max. Earth dist.	-10338 Apr 20 j 11:51	12°♒25'31	10.54136 AU
morning rise	-10338 May 07 j 08:04	14°♒28'35	
	-10338 May 11 j 17:25	15°♒	
retrograde	-10338 Aug 15 j 10:02	21°♒50'31	
opposition	-10338 Oct 21 j 17:42	18°♒28'46	-2°10'55
min. Earth dist.	-10338 Oct 21 j 05:20	18°♒31'12	8.62543 AU
direct	-10338 Dec 30 j 12:26	15°♒01'48	
evening set	-10337 Apr 15 j 05:47	22°♒38'56	
conjunction	-10337 May 02 j 20:34	24°♒45'31	-1°34'33
minimum elong	-10337 May 02 j 20:37	24°♒45'33	1°34'56
max. Earth dist.	-10337 May 03 j 09:10	24°♒49'20	10.70808 AU
morning rise	-10337 May 20 j 06:11	26°♒50'33	
	-10337 Jun 17 j 17:21	0°♓	
retrograde	-10337 Aug 27 j 10:56	4°♓00'00	
opposition	-10337 Nov 03 j 03:52	0°♓40'15	-1°41'24
min. Earth dist.	-10337 Nov 02 j 19:31	0°♓41'52	8.78740 AU
	-10337 Nov 11 j 21:10	30°♑♒	
direct	-10336 Jan 12 j 14:18	27°♒14'40	
	-10336 Mar 12 j 15:26	0°♓	
evening set	-10336 Apr 26 j 22:02	4°♓41'17	
conjunction	-10336 May 14 j 09:23	6°♓44'53	-1°09'13
minimum elong	-10336 May 14 j 09:26	6°♓44'54	1°09'30
max. Earth dist.	-10336 May 14 j 17:00	6°♓47'09	10.86434 AU
morning rise	-10336 May 31 j 15:14	8°♓46'54	
retrograde	-10336 Sep 07 j 04:05	15°♓45'49	
opposition	-10336 Nov 14 j 06:47	12°♓27'52	-1°08'34
min. Earth dist.	-10336 Nov 14 j 03:23	12°♓28'31	8.93590 AU
direct	-10335 Jan 24 j 06:46	9°♓03'41	
evening set	-10335 May 09 j 03:02	16°♓20'50	
conjunction	-10335 May 26 j 10:37	18°♓21'43	-0°41'42
minimum elong	-10335 May 26 j 10:39	18°♓21'44	0°41'53
max. Earth dist.	-10335 May 26 j 12:02	18°♓22'08	11.00392 AU
morning rise	-10335 Jun 12 j 12:54	20°♓21'05	
retrograde	-10335 Sep 18 j 13:51	27°♓11'35	
opposition	-10335 Nov 26 j 03:38	23°♓55'06	-0°34'00
min. Earth dist.	-10335 Nov 26 j 04:46	23°♓54'53	9.06522 AU
direct	-10334 Feb 05 j 14:00	20°♓32'16	
evening set	-10334 May 20 j 22:13	27°♓41'14	
conjunction	-10334 Jun 07 j 02:00	29°♓39'46	-0°13'12
minimum elong	-10334 Jun 07 j 02:00	29°♓39'46	0°13'16
behind sun begin	-10334 Jun 06 j 21:53	29°♓38'35	
behind sun end	-10334 Jun 07 j 06:08	29°♓40'57	
max. Earth dist.	-10334 Jun 06 j 21:40	29°♓38'31	11.12162 AU
	-10334 Jun 09 j 23:47	0°♈	
morning rise	-10334 Jun 24 j 00:48	1°♈36'52	
retrograde	-10334 Sep 29 j 19:11	8°♈21'10	
asc. node	-10334 Nov 27 j 11:28	5°♈51'26	
opposition	-10334 Dec 07 j 19:44	5°♈05'47	0°00'58
min. Earth dist.	-10334 Dec 08 j 00:36	5°♈04'53	9.17046 AU
direct	-10333 Feb 17 j 16:22	1°♈44'11	
evening set	-10333 Jun 01 j 09:36	8°♈46'30	
conjunction	-10333 Jun 18 j 09:38	10°♈43'01	0°15'20
minimum elong	-10333 Jun 18 j 09:37	10°♈43'01	0°15'23
behind sun begin	-10333 Jun 18 j 07:25	10°♈42'24	
behind sun end	-10333 Jun 18 j 11:48	10°♈43'39	
max. Earth dist.	-10333 Jun 18 j 00:57	10°♈40'33	11.21301 AU
morning rise	-10333 Jul 05 j 04:50	12°♈38'14	
retrograde	-10333 Oct 10 j 23:39	19°♈18'35	
opposition	-10333 Dec 19 j 08:40	16°♈03'55	0°35'12
min. Earth dist.	-10333 Dec 19 j 17:32	16°♈02'17	9.24768 AU
direct	-10332 Feb 29 j 10:32	12°♈43'25	
evening set	-10332 Jun 11 j 14:57	19°♈40'41	
conjunction	-10332 Jun 28 j 11:13	21°♈35'38	0°42'49
minimum elong	-10332 Jun 28 j 11:12	21°♈35'37	0°42'59
max. Earth dist.	-10332 Jun 27 j 22:07	21°♈31'53	11.27470 AU
morning rise	-10332 Jul 15 j 03:05	23°♈29'26	
	-10332 Oct 08 j 07:06	0°♉	
retrograde	-10332 Oct 21 j 00:58	0°♉08'03	
	-10332 Nov 02 j 21:01	30°♑♈	
opposition	-10332 Dec 29 j 20:09	26°♈53'45	1°07'44
min. Earth dist.	-10332 Dec 30 j 09:35	26°♈51'18	9.29406 AU
direct	-10331 Mar 11 j 23:01	23°♈34'06	
	-10331 Jun 18 j 10:50	0°♉	
evening set	-10331 Jun 22 j 15:57	0°♉28'06	
conjunction	-10331 Jul 09 j 08:33	2°♉21'53	1°08'34
minimum elong	-10331 Jul 09 j 08:31	2°♉21'53	1°08'50
max. Earth dist.	-10331 Jul 08 j 14:25	2°♉16'42	11.30448 AU
morning rise	-10331 Jul 25 j 21:37	4°♉14'46	
retrograde	-10331 Nov 01 j 03:54	10°♉53'55	
opposition	-10330 Jan 10 j 07:25	7°♉39'36	1°37'42
min. Earth dist.	-10330 Jan 11 j 00:48	7°♉36'26	9.30800 AU
direct	-10330 Mar 23 j 10:39	4°♉20'36	
evening set	-10330 Jul 03 j 14:36	11°♉13'03	
max. Earth dist.	-10330 Jul 19 j 06:14	12°♉59'57	11.30168 AU
conjunction	-10330 Jul 20 j 04:00	13°♉06'12	1°31'50
minimum elong	-10330 Jul 20 j 03:57	13°♉06'11	1°32'10
morning rise	-10330 Aug 05 j 14:41	14°♉58'39	
	-10330 Aug 05 j 19:30	15°♉	
retrograde	-10330 Nov 12 j 08:46	21°♉40'27	
opposition	-10329 Jan 21 j 19:49	18°♉25'42	2°04'16
min. Earth dist.	-10329 Jan 22 j 15:25	18°♉22'09	9.28946 AU
direct	-10329 Apr 03 j 19:47	15°♉07'07	
evening set	-10329 Jul 14 j 12:31	21°♉59'43	
conjunction	-10329 Jul 30 j 23:22	23°♉52'42	1°51'55
minimum elong	-10329 Jul 30 j 23:19	23°♉52'41	1°52'20
max. Earth dist.	-10329 Jul 29 j 23:54	23°♉45'56	11.26690 AU
morning rise	-10329 Aug 16 j 08:06	25°♉45'14	
	-10329 Sep 27 j 11:57	0°♊	
retrograde	-10329 Nov 23 j 20:32	2°♊31'43	
	-10328 Jan 23 j 08:07	30°♑♉	
opposition	-10328 Feb 02 j 11:17	29°♉16'12	2°26'40
min. Earth dist.	-10328 Feb 03 j 08:31	29°♉12'21	9.23949 AU
direct	-10328 Apr 14 j 05:36	25°♉57'47	
	-10328 Jun 27 j 16:33	0°♊	
evening set	-10328 Jul 24 j 11:24	2°♊52'03	

Attention, astronomical year style is used: The year -10328 in astronomical counting style is the year 10329 BCE in historical counting style.

conjunction	-10328 Aug 09 j 20:15	4°♊45'25	2°08'09
minimum elong	-10328 Aug 09 j 20:13	4°♊45'24	2°08'38
max. Earth dist.	-10328 Aug 08 j 18:55	4°♊38'03	11.20161 AU
morning rise	-10328 Aug 26 j 03:56	6°♊38'35	
retrograde	-10328 Dec 04 j 11:24	13°♊31'40	
opposition	-10327 Feb 13 j 07:01	10°♊15'02	2°44'05
min. Earth dist.	-10327 Feb 14 j 05:58	10°♊10'50	9.15993 AU
direct	-10327 Apr 25 j 14:41	6°♊56'31	
evening set	-10327 Aug 04 j 13:06	13°♊54'03	

conjunction	-10327 Aug 20 j 20:47	15°♊48'19	2°19'52
minimum elong	-10327 Aug 20 j 20:45	15°♊48'18	2°20'26
max. Earth dist.	-10327 Aug 19 j 17:45	15°♊40'22	11.10812 AU
morning rise	-10327 Sep 06 j 04:29	17°♊42'41	
retrograde	-10327 Dec 16 j 09:55	24°♊44'13	
opposition	-10326 Feb 25 j 07:57	21°♊26'08	2°55'45
min. Earth dist.	-10326 Feb 26 j 07:47	21°♊21'45	9.05341 AU
direct	-10326 May 07 j 05:02	18°♊07'15	
evening set	-10326 Aug 15 j 19:10	25°♊09'34	
max. Earth dist.	-10326 Aug 31 j 00:25	26°♊57'29	10.98942 AU

conjunction	-10326 Sep 01 j 02:51	27°♊05'22	2°26'28
minimum elong	-10326 Sep 01 j 02:50	27°♊05'21	2°27'03
morning rise	-10326 Sep 17 j 11:31	29°♊01'33	
	-10326 Sep 25 j 22:35	0°♋	
retrograde	-10326 Dec 28 j 18:03	6°♋13'13	
opposition	-10325 Mar 09 j 15:37	2°♋53'26	3°00'52
min. Earth dist.	-10325 Mar 10 j 14:23	2°♋49'12	8.92340 AU
	-10325 Apr 25 j 20:49	30°℞♊	
direct	-10325 May 18 j 23:30	29°♊34'01	
	-10325 Jun 10 j 17:24	0°♋	
evening set	-10325 Aug 27 j 07:19	6°♋42'31	

conjunction	-10325 Sep 12 j 16:14	8°♋40'25	2°27'19
minimum elong	-10325 Sep 12 j 16:14	8°♋40'25	2°27'55
max. Earth dist.	-10325 Sep 11 j 15:44	8°♋33'01	10.84954 AU
morning rise	-10325 Sep 29 j 02:55	10°♋39'01	
retrograde	-10324 Jan 10 j 12:18	18°♋02'24	
opposition	-10324 Mar 21 j 07:09	14°♋40'43	2°58'39
min. Earth dist.	-10324 Mar 22 j 03:36	14°♋36'52	8.77450 AU
direct	-10324 May 29 j 23:36	11°♋20'37	
evening set	-10324 Sep 07 j 03:46	18°♋36'37	

conjunction	-10324 Sep 23 j 15:03	20°♋37'15	2°21'55
minimum elong	-10324 Sep 23 j 15:05	20°♋37'16	2°22'28
max. Earth dist.	-10324 Sep 22 j 16:23	20°♋30'17	10.69369 AU
morning rise	-10324 Oct 10 j 05:12	22°♋38'53	
	-10323 Jan 05 j 07:28	0°♌	
retrograde	-10323 Jan 22 j 18:24	0°♌15'09	
	-10323 Feb 09 j 06:34	30°℞♋	
opposition	-10323 Apr 03 j 07:18	26°♋51'29	2°48'28
min. Earth dist.	-10323 Apr 04 j 01:15	26°♋48'03	8.61249 AU
direct	-10323 Jun 11 j 06:21	23°♋30'31	
	-10323 Sep 11 j 19:17	0°♌	
evening set	-10323 Sep 19 j 10:04	0°♌55'14	
max. Earth dist.	-10323 Oct 05 j 04:51	2°♌52'52	10.52815 AU

conjunction	-10323 Oct 06 j 00:58	2°♌59'10	2°09'51
minimum elong	-10323 Oct 06 j 01:01	2°♌59'11	2°10'22
morning rise	-10323 Oct 22 j 19:53	5°♌04'24	
retrograde	-10322 Feb 05 j 11:32	12°♌54'20	
opposition	-10322 Apr 16 j 16:51	9°♌28'41	2°29'53
min. Earth dist.	-10322 Apr 17 j 07:48	9°♌25'47	8.44421 AU
direct	-10322 Jun 23 j 21:24	6°♌06'43	
evening set	-10322 Oct 02 j 03:51	13°♌41'09	
	-10322 Oct 12 j 14:13	15°♌	

conjunction	-10322 Oct 18 j 23:35	15°♌48'49	1°51'03
minimum elong	-10322 Oct 18 j 23:39	15°♌48'50	1°51'29
max. Earth dist.	-10322 Oct 18 j 07:53	15°♌43'49	10.36021 AU
morning rise	-10322 Nov 05 j 00:12	17°♌58'03	
retrograde	-10321 Feb 19 j 15:01	26°♌01'58	
opposition	-10321 Apr 30 j 11:58	22°♌34'21	2°02'51
min. Earth dist.	-10321 Apr 30 j 22:44	22°♌32'14	8.27768 AU
direct	-10321 Jul 07 j 00:18	19°♌11'19	
evening set	-10321 Oct 15 j 10:45	26°♌56'07	

conjunction	-10321 Nov 01 j 12:20	29°♌07'49	1°25'45
minimum elong	-10321 Nov 01 j 12:24	29°♌07'50	1°26'07
max. Earth dist.	-10321 Nov 01 j 02:46	29°♌04'43	10.19829 AU
	-10321 Nov 08 j 05:35	0°♍	
morning rise	-10321 Nov 18 j 19:17	1°♍21'17	
retrograde	-10320 Mar 05 j 06:56	9°♍38'39	
opposition	-10320 May 13 j 16:19	6°♍09'14	1°27'57
min. Earth dist.	-10320 May 13 j 21:44	6°♍08'09	8.12188 AU
direct	-10320 Jul 19 j 12:45	2°♍45'05	
evening set	-10320 Oct 28 j 07:50	10°♍40'26	

conjunction	-10320 Nov 14 j 15:43	12°♍56'11	0°54'49
minimum elong	-10320 Nov 14 j 15:46	12°♍56'12	0°55'03
max. Earth dist.	-10320 Nov 14 j 13:01	12°♍55'18	10.05149 AU
morning rise	-10320 Dec 02 j 05:13	15°♍13'50	
retrograde	-10319 Mar 20 j 09:05	23°♍43'11	
opposition	-10319 May 28 j 04:59	20°♍12'14	0°46'33
min. Earth dist.	-10319 May 28 j 04:19	20°♍12'22	7.98606 AU
direct	-10319 Aug 02 j 10:42	16°♍46'57	
evening set	-10319 Nov 11 j 19:25	24°♍52'34	

conjunction	-10319 Nov 29 j 09:24	27°♍12'01	0°19'41
minimum elong	-10319 Nov 29 j 09:25	27°♍12'02	0°19'47
max. Earth dist.	-10319 Nov 29 j 13:39	27°♍13'26	9.92903 AU
morning rise	-10319 Dec 17 j 04:59	29°♍33'22	
	-10319 Dec 20 j 15:08	0°♎	
retrograde	-10318 Apr 04 j 18:46	8°♎12'14	
opposition	-10318 Jun 12 j 00:19	4°♎40'09	0°00'55
min. Earth dist.	-10318 Jun 11 j 17:48	4°♎41'29	7.87933 AU
desc. node	-10318 Jun 19 j 08:39	4°♎04'00	
direct	-10318 Aug 16 j 18:18	1°♎13'44	
evening set	-10318 Nov 26 j 20:32	9°♎28'36	

conjunction	-10318 Dec 14 j 15:55	11°♎51'04	-0°17'33
minimum elong	-10318 Dec 14 j 15:54	11°♎51'03	0°17'36
max. Earth dist.	-10318 Dec 15 j 03:10	11°♎54'50	9.83960 AU
morning rise	-10317 Jan 01 j 16:35	14°♎15'16	
retrograde	-10317 Apr 20 j 08:19	23°♎00'11	
opposition	-10317 Jun 27 j 00:10	19°♎27'26	-0°45'50
min. Earth dist.	-10317 Jun 26 j 12:26	19°♎29'53	7.80962 AU
direct	-10317 Aug 31 j 11:52	15°♎59'58	
evening set	-10317 Dec 12 j 09:00	24°♎22'14	

conjunction	-10317 Dec 30 j 08:38	26°♎46'41	-0°54'08
minimum elong	-10317 Dec 30 j 08:35	26°♎46'40	0°54'21
max. Earth dist.	-10317 Dec 31 j 02:21	26°♎52'39	9.79007 AU
morning rise	-10316 Jan 17 j 12:50	29°♎12'35	
	-10316 Jan 23 j 13:52	0°♏	
retrograde	-10316 May 04 j 21:11	7°♏59'16	
min. Earth dist.	-10316 Jul 10 j 09:44	4°♏29'45	7.78231 AU
opposition	-10316 Jul 11 j 01:41	4°♏26'25	-1°30'04
direct	-10316 Sep 14 j 12:09	0°♏58'02	
evening set	-10316 Dec 27 j 05:25	9°♏25'05	

conjunction	-10315 Jan 14 j 07:46	11°♏50'17	-1°27'19
minimum elong	-10315 Jan 14 j 07:41	11°♏50'15	1°27'39
max. Earth dist.	-10315 Jan 15 j 06:47	11°♏58'01	9.78439 AU

Attention, astronomical year style is used: The year -10315 in astronomical counting style is the year 10316 BCE in historical counting style.

morning rise	-10315 Feb 01 j 13:33	14°♏16'30		
	-10315 Feb 07 j 02:39	15°♏		
retrograde	-10315 May 20 j 05:55	23°♏00'21		
min. Earth dist.	-10315 Jul 25 j 06:43	19°♏31'56	7.79959 AU	
opposition	-10315 Jul 26 j 01:40	19°♏27'56	-2°08'11	
direct	-10315 Sep 29 j 16:11	15°♏58'51		
evening set	-10314 Jan 12 j 04:50	24°♏27'26		
conjunction	-10314 Jan 30 j 08:22	26°♏52'06	-1°54'29	
minimum elong	-10314 Jan 30 j 08:17	26°♏52'05	1°54'56	
max. Earth dist.	-10314 Jan 31 j 11:15	27°♏01'06	9.82314 AU	
morning rise	-10314 Feb 17 j 13:57	29°♏17'19		
	-10314 Feb 23 j 01:22	0°♐		
retrograde	-10314 Jun 04 j 07:16	7°♐53'54		
opposition	-10314 Aug 09 j 21:22	4°♐22'27	-2°37'13	
min. Earth dist.	-10314 Aug 09 j 00:18	4°♐26'52	7.85999 AU	
direct	-10314 Oct 14 j 20:40	0°♐52'54		
evening set	-10313 Jan 28 j 02:01	9°♐19'28		
conjunction	-10313 Feb 15 j 05:25	11°♐42'32	-2°13'43	
minimum elong	-10313 Feb 15 j 05:22	11°♐42'30	2°14'15	
max. Earth dist.	-10313 Feb 16 j 10:21	11°♐52'06	9.90310 AU	
morning rise	-10313 Mar 05 j 09:22	14°♐05'37		
retrograde	-10313 Jun 18 j 22:33	22°♐31'13		
opposition	-10313 Aug 24 j 10:04	19°♐01'07	-2°55'20	
min. Earth dist.	-10313 Aug 23 j 12:09	19°♐05'42	7.95825 AU	
direct	-10313 Oct 29 j 22:21	15°♐31'25		
evening set	-10312 Feb 12 j 16:31	23°♐52'41		
conjunction	-10312 Mar 01 j 18:46	26°♐13'18	-2°24'02	
minimum elong	-10312 Mar 01 j 18:44	26°♐13'17	2°24'36	
max. Earth dist.	-10312 Mar 02 j 23:31	26°♐22'40	10.01736 AU	
morning rise	-10312 Mar 19 j 20:01	28°♐33'27		
	-10312 Mar 31 j 08:18	0°♑		
retrograde	-10312 Jul 02 j 02:29	6°♑45'28		
opposition	-10312 Sep 06 j 13:55	3°♑17'06	-3°01'58	
min. Earth dist.	-10312 Sep 05 j 16:36	3°♑21'30	8.08609 AU	
	-10312 Oct 28 j 17:43	30°℞♐		
direct	-10312 Nov 12 j 18:43	29°♐47'34		
	-10312 Nov 27 j 19:16	0°♑		
evening set	-10311 Feb 26 j 20:28	8°♑00'57		
conjunction	-10311 Mar 16 j 20:49	10°♑18'36	-2°25'21	
minimum elong	-10311 Mar 16 j 20:50	10°♑18'36	2°25'55	
max. Earth dist.	-10311 Mar 17 j 23:34	10°♑27'11	10.15676 AU	
morning rise	-10311 Apr 03 j 18:46	12°♑35'23		
retrograde	-10311 Jul 15 j 17:45	20°♑32'37		
opposition	-10311 Sep 20 j 08:16	17°♑06'14	-2°57'42	
min. Earth dist.	-10311 Sep 19 j 12:49	17°♑10'12	8.23417 AU	
direct	-10311 Nov 27 j 06:47	13°♑37'14		
evening set	-10310 Mar 13 j 11:22	21°♑40'57		
conjunction	-10310 Mar 31 j 09:22	23°♑55'24	-2°18'22	
minimum elong	-10310 Mar 31 j 09:24	23°♑55'24	2°18'54	
max. Earth dist.	-10310 Apr 01 j 08:57	24°♑02'49	10.31226 AU	
morning rise	-10310 Apr 18 j 03:46	26°♑08'40		
	-10310 May 21 j 20:52	0°♒		
retrograde	-10310 Jul 28 j 21:01	3°♒50'57		
opposition	-10310 Oct 03 j 16:47	0°♒26'38	-2°43'51	
min. Earth dist.	-10310 Oct 03 j 00:36	0°♒29'54	8.39415 AU	
	-10310 Oct 09 j 05:24	30°℞♑		
direct	-10310 Dec 11 j 09:11	26°♑58'26		
	-10309 Feb 10 j 20:21	0°♒		
evening set	-10309 Mar 27 j 12:37	4°♒51'28		
conjunction	-10309 Apr 14 j 07:51	7°♒02'38	-2°04'15	
minimum elong	-10309 Apr 14 j 07:54	7°♒02'39	2°04'45	
max. Earth dist.	-10309 Apr 15 j 02:43	7°♒08'28	10.47577 AU	
morning rise	-10309 May 01 j 22:41	9°♒12'24		
	-10309 Jun 27 j 18:01	15°♒		
retrograde	-10309 Aug 10 j 13:15	16°♒40'19		
	-10309 Sep 24 j 04:08	15°℞♒		
opposition	-10309 Oct 16 j 15:39	13°♒18'02	-2°22'12	
min. Earth dist.	-10309 Oct 16 j 03:29	13°♒20'27	8.55819 AU	
direct	-10309 Dec 25 j 01:19	9°♒50'48		
	-10308 Mar 17 j 16:16	15°♒		
evening set	-10308 Apr 08 j 23:58	17°♒32'50		
conjunction	-10308 Apr 26 j 16:04	19°♒40'48	-1°44'29	
minimum elong	-10308 Apr 26 j 16:08	19°♒40'49	1°44'54	
max. Earth dist.	-10308 Apr 27 j 05:08	19°♒44'46	10.63939 AU	
morning rise	-10308 May 14 j 03:22	21°♒47'14		
retrograde	-10308 Aug 21 j 16:58	29°♒02'02		
opposition	-10308 Oct 28 j 05:43	25°♒41'40	-1°54'40	
min. Earth dist.	-10308 Oct 27 j 21:30	25°♒43'16	8.71863 AU	
direct	-10307 Jan 06 j 09:13	22°♒15'33		
evening set	-10307 Apr 21 j 21:49	29°♒46'51		
	-10307 Apr 23 j 18:43	0°♓		
conjunction	-10307 May 09 j 10:36	1°♓51'45	-1°20'32	
minimum elong	-10307 May 09 j 10:39	1°♓51'46	1°20'51	
max. Earth dist.	-10307 May 09 j 17:58	1°♓53'58	10.79570 AU	
morning rise	-10307 May 26 j 18:18	3°♓55'07		
retrograde	-10307 Sep 02 j 12:53	10°♓58'38		
opposition	-10307 Nov 09 j 11:50	7°♓39'54	-1°23'05	
min. Earth dist.	-10307 Nov 09 j 07:04	7°♓40'48	8.86847 AU	
direct	-10306 Jan 19 j 07:13	4°♓14'59		
evening set	-10306 May 04 j 07:40	11°♓36'22		
conjunction	-10306 May 21 j 17:03	13°♓38'30	-0°53'48	
minimum elong	-10306 May 21 j 17:05	13°♓38'30	0°54'02	
max. Earth dist.	-10306 May 21 j 19:41	13°♓39'16	10.93811 AU	
morning rise	-10306 Jun 07 j 21:03	15°♓39'04		
retrograde	-10306 Sep 14 j 02:54	22°♓33'17		
opposition	-10306 Nov 21 j 11:07	19°♓15'56	-0°49'07	
min. Earth dist.	-10306 Nov 21 j 10:30	19°♓16'03	9.00169 AU	
direct	-10305 Jan 31 j 18:10	15°♓52'13		
evening set	-10305 May 16 j 07:09	23°♓04'53		
conjunction	-10305 Jun 02 j 12:53	25°♓04'33	-0°25'35	
minimum elong	-10305 Jun 02 j 12:54	25°♓04'34	0°25'43	
max. Earth dist.	-10305 Jun 02 j 10:47	25°♓03'57	11.06109 AU	
morning rise	-10305 Jun 19 j 13:11	27°♓02'43		
	-10305 Jul 17 j 02:20	0°♈		
retrograde	-10305 Sep 25 j 10:13	3°♈49'47		
opposition	-10305 Dec 03 j 05:21	0°♈33'34	-0°14'10	
min. Earth dist.	-10305 Dec 03 j 09:32	0°♈32'47	9.11342 AU	
	-10305 Dec 10 j 17:35	30°℞♓		
direct	-10304 Feb 12 j 21:55	27°♓10'58		
	-10304 Apr 14 j 17:46	0°♈		
asc. node	-10304 May 03 j 10:22	1°♈44'40		
evening set	-10304 May 26 j 21:56	4°♈16'24		
conjunction	-10304 Jun 12 j 23:42	6°♈13'54	0°03'06	
minimum elong	-10304 Jun 12 j 23:42	6°♈13'54	0°03'06	
behind sun begin	-10304 Jun 12 j 16:42	6°♈11'54		
behind sun end	-10304 Jun 13 j 06:43	6°♈15'54		
max. Earth dist.	-10304 Jun 12 j 16:08	6°♈11'44	11.16037 AU	
morning rise	-10304 Jun 29 j 20:31	8°♈10'03		
retrograde	-10304 Oct 05 j 13:52	14°♈52'14		
opposition	-10304 Dec 13 j 19:48	11°♈36'48	0°20'33	
min. Earth dist.	-10304 Dec 14 j 04:24	11°♈35'12	9.19998 AU	
direct	-10303 Feb 23 j 19:13	8°♈15'15		
evening set	-10303 Jun 07 j 05:48	15°♈15'00		

Attention, astronomical year style is used: The year -10303 in astronomical counting style is the year 10304 BCE in historical counting style.

conjunction	-10303 Jun 24 j 03:42	17°♈10'45	0°31'06
minimum elong	-10303 Jun 24 j 03:41	17°♈10'44	0°31'13
max. Earth dist.	-10303 Jun 23 j 15:07	17°♈07'08	11.23291 AU
morning rise	-10303 Jul 10 j 21:15	19°♈05'18	
retrograde	-10303 Oct 16 j 15:17	25°♈44'50	
opposition	-10303 Dec 25 j 07:41	22°♈29'50	0°53'58
min. Earth dist.	-10303 Dec 25 j 19:23	22°♈27'41	9.25867 AU
direct	-10302 Mar 07 j 11:32	19°♈09'12	
evening set	-10302 Jun 18 j 08:29	26°♈04'56	
max. Earth dist.	-10302 Jul 04 j 11:07	27°♈54'51	11.27650 AU
conjunction	-10302 Jul 05 j 02:50	27°♈59'21	0°57'43
minimum elong	-10302 Jul 05 j 02:48	27°♈59'21	0°57'57
morning rise	-10302 Jul 21 j 17:14	29°♈52'45	
	-10302 Jul 22 j 19:09	0°♉	
retrograde	-10302 Oct 27 j 19:21	6°♉31'49	
opposition	-10301 Jan 05 j 18:49	3°♉16'58	1°25'10
min. Earth dist.	-10301 Jan 06 j 09:21	3°♉14'19	9.28761 AU
	-10301 Mar 11 j 02:50	30°℞♈	
direct	-10301 Mar 18 j 23:53	29°♈57'08	
	-10301 Mar 26 j 19:24	0°♉	
evening set	-10301 Jun 29 j 08:00	6°♉50'30	
conjunction	-10301 Jul 15 j 22:58	8°♉44'02	1°22'09
minimum elong	-10301 Jul 15 j 22:55	8°♉44'01	1°22'29
max. Earth dist.	-10301 Jul 15 j 04:15	8°♉38'40	11.28976 AU
morning rise	-10301 Aug 01 j 10:34	10°♉36'45	
	-10301 Sep 14 j 17:11	15°♉	
retrograde	-10301 Nov 07 j 22:52	17°♉17'28	
	-10300 Jan 03 j 21:24	15°℞♉	
opposition	-10300 Jan 17 j 06:46	14°♉02'27	1°53'20
min. Earth dist.	-10300 Jan 18 j 00:37	13°♉59'12	9.28600 AU
direct	-10300 Mar 29 j 08:02	10°♉43'14	
	-10300 Jun 14 j 22:00	15°♉	
evening set	-10300 Jul 09 j 06:08	17°♉35'56	
conjunction	-10300 Jul 25 j 18:01	19°♉29'02	1°43'42
minimum elong	-10300 Jul 25 j 17:58	19°♉29'01	1°44'06
max. Earth dist.	-10300 Jul 24 j 19:41	19°♉22'37	11.27249 AU
morning rise	-10300 Aug 11 j 03:37	21°♉21'35	
retrograde	-10300 Nov 18 j 06:59	28°♉06'02	
opposition	-10299 Jan 27 j 20:54	24°♉50'33	2°17'38
min. Earth dist.	-10299 Jan 28 j 17:19	24°♉46'50	9.25398 AU
direct	-10299 Apr 09 j 17:36	21°♉31'44	
evening set	-10299 Jul 20 j 04:21	28°♉25'23	
	-10299 Aug 02 j 21:50	0°♊	
conjunction	-10299 Aug 05 j 13:57	0°♊18'35	2°01'41
minimum elong	-10299 Aug 05 j 13:54	0°♊18'34	2°02'09
max. Earth dist.	-10299 Aug 04 j 13:49	0°♊11'36	11.22516 AU
morning rise	-10299 Aug 21 j 22:11	2°♊11'30	
retrograde	-10299 Nov 29 j 19:24	9°♊01'40	
opposition	-10298 Feb 08 j 14:29	5°♊45'21	2°37'17
min. Earth dist.	-10298 Feb 09 j 11:55	5°♊41'27	9.19223 AU
direct	-10298 Apr 21 j 03:04	2°♊26'46	
evening set	-10298 Jul 31 j 04:39	9°♊22'56	
conjunction	-10298 Aug 16 j 12:50	11°♊16'47	2°15'26
minimum elong	-10298 Aug 16 j 12:48	11°♊16'47	2°15'58
max. Earth dist.	-10298 Aug 15 j 12:26	11°♊09'39	11.14893 AU
morning rise	-10298 Sep 01 j 20:20	13°♊10'35	
retrograde	-10298 Dec 11 j 16:29	20°♊08'22	
opposition	-10297 Feb 20 j 12:58	16°♊50'58	2°51'29
min. Earth dist.	-10297 Feb 21 j 10:30	16°♊47'01	9.10248 AU
direct	-10297 May 02 j 15:49	13°♊32'23	
evening set	-10297 Aug 11 j 08:46	20°♊32'35	

conjunction	-10297 Aug 27 j 16:22	22°♊27'39	2°24'17
minimum elong	-10297 Aug 27 j 16:21	22°♊27'38	2°24'52
max. Earth dist.	-10297 Aug 26 j 15:25	22°♊20'15	11.04621 AU
morning rise	-10297 Sep 13 j 00:19	24°♊22'57	
	-10297 Nov 10 j 08:02	0°♋	
retrograde	-10297 Dec 23 j 21:35	1°♋30'03	
	-10296 Feb 06 j 17:24	30°℞♊	
opposition	-10296 Mar 03 j 17:55	28°♊11'17	2°59'28
min. Earth dist.	-10296 Mar 04 j 15:37	28°♊07'17	8.98765 AU
direct	-10296 May 13 j 06:24	24°♊52'29	
	-10296 Aug 04 j 10:07	0°♋	
evening set	-10296 Aug 21 j 18:19	1°♋58'08	
max. Earth dist.	-10296 Sep 06 j 01:25	3°♋47'29	10.92044 AU
conjunction	-10296 Sep 07 j 02:24	3°♋54'59	2°27'39
minimum elong	-10296 Sep 07 j 02:24	3°♋54'59	2°28'14
morning rise	-10296 Sep 23 j 12:06	5°♋52'25	
retrograde	-10295 Jan 04 j 09:46	13°♋10'26	
opposition	-10295 Mar 16 j 06:09	9°♋50'03	3°00'25
min. Earth dist.	-10295 Mar 17 j 03:19	9°♋46'06	8.85162 AU
direct	-10295 May 25 j 03:54	6°♋30'46	
evening set	-10295 Sep 02 j 11:11	13°♋43'14	
conjunction	-10295 Sep 18 j 21:07	15°♋42'30	2°24'57
minimum elong	-10295 Sep 18 j 21:09	15°♋42'31	2°25'31
max. Earth dist.	-10295 Sep 17 j 21:54	15°♋35'25	10.77590 AU
morning rise	-10295 Oct 05 j 09:40	17°♋42'39	
retrograde	-10294 Jan 17 j 10:24	25°♋12'51	
opposition	-10294 Mar 29 j 02:23	21°♋50'40	2°53'40
min. Earth dist.	-10294 Mar 29 j 21:36	21°♋47'02	8.69919 AU
direct	-10294 Jun 06 j 09:09	18°♋30'41	
evening set	-10294 Sep 14 j 12:58	25°♋51'09	
max. Earth dist.	-10294 Sep 30 j 06:15	27°♋47'15	10.61780 AU
conjunction	-10294 Oct 01 j 02:08	27°♋53'25	2°15'45
minimum elong	-10294 Oct 01 j 02:10	27°♋53'26	2°16'16
morning rise	-10294 Oct 17 j 18:39	29°♋56'51	
	-10294 Oct 18 j 05:00	0°♌	
retrograde	-10293 Jan 30 j 22:43	7°♌40'15	
opposition	-10293 Apr 11 j 07:43	4°♌16'06	2°38'41
min. Earth dist.	-10293 Apr 11 j 23:23	4°♌13'06	8.53608 AU
direct	-10293 Jun 18 j 20:46	0°♌55'15	
evening set	-10293 Sep 27 j 01:21	8°♌24'45	
conjunction	-10293 Oct 13 j 18:51	10°♌30'32	1°59'49
minimum elong	-10293 Oct 13 j 18:55	10°♌30'33	2°00'17
max. Earth dist.	-10293 Oct 13 j 02:22	10°♌25'20	10.45227 AU
morning rise	-10293 Oct 30 j 16:35	12°♌37'45	
	-10293 Nov 19 j 13:45	15°♌	
retrograde	-10292 Feb 13 j 22:10	20°♌34'54	
opposition	-10292 Apr 23 j 22:27	17°♌08'45	2°15'15
min. Earth dist.	-10292 Apr 24 j 10:19	17°♌06'27	8.36888 AU
	-10292 May 23 j 18:59	15°℞♌	
direct	-10292 Jun 30 j 17:45	13°♌46'52	
	-10292 Aug 06 j 15:45	15°♌	
evening set	-10292 Oct 09 j 02:19	21°♌26'21	
conjunction	-10292 Oct 26 j 01:08	23°♌36'03	1°37'15
minimum elong	-10292 Oct 26 j 01:12	23°♌36'04	1°37'39
max. Earth dist.	-10292 Oct 25 j 12:23	23°♌31'58	10.28649 AU
morning rise	-10292 Nov 12 j 05:04	25°♌47'26	
	-10292 Dec 18 j 11:57	0°♍	
retrograde	-10291 Feb 27 j 09:32	3°♍58'17	
opposition	-10291 May 07 j 22:29	0°♍30'15	1°43'40
min. Earth dist.	-10291 May 08 j 06:15	0°♍28'43	8.20581 AU
	-10291 May 14 j 07:42	30°℞♌	
direct	-10291 Jul 14 j 00:38	27°♌07'11	

Attention, astronomical year style is used: The year -10291 in astronomical counting style is the year 10292 BCE in historical counting style.

	-10291 Sep 09 j 06:16	0°♍	
evening set	-10291 Oct 22 j 16:57	4°♍57'17	
	-10291 Nov 08 j 21:47	7°♍11'03	1°08'38
conjunction			
minimum elong	-10291 Nov 08 j 21:50	7°♍11'04	1°08'55
max. Earth dist.	-10291 Nov 08 j 14:03	7°♍08'32	10.12957 AU
morning rise	-10291 Nov 26 j 08:22	9°♍26'42	
retrograde	-10290 Mar 14 j 07:07	17°♍50'22	
opposition	-10290 May 22 j 07:31	14°♍20'36	1°04'55
min. Earth dist.	-10290 May 22 j 10:39	14°♍19'58	8.05694 AU
direct	-10290 Jul 27 j 18:18	10°♍56'15	
evening set	-10290 Nov 05 j 21:47	18°♍56'54	
	-10290 Nov 23 j 08:52	21°♍14'36	0°35'08
conjunction			
minimum elong	-10290 Nov 23 j 08:54	21°♍14'36	0°35'18
max. Earth dist.	-10290 Nov 23 j 07:55	21°♍14'17	9.99177 AU
morning rise	-10290 Dec 11 j 01:54	23°♍34'14	
	-10289 Feb 07 j 09:29	0°♎	
retrograde	-10289 Mar 29 j 12:42	2°♎08'44	
	-10289 May 19 j 17:04	30°℞♍	
opposition	-10289 Jun 06 j 00:06	28°♍37'29	0°20'51
min. Earth dist.	-10289 Jun 05 j 21:52	28°♍37'57	7.93251 AU
direct	-10289 Aug 10 j 22:59	25°♍11'50	
	-10289 Oct 24 j 11:51	0°♎	
evening set	-10289 Nov 20 j 16:48	3°♎22'20	
desc. node	-10289 Nov 23 j 18:31	3°♎46'32	
	-10289 Dec 08 j 09:50	5°♎43'26	-0°01'28
conjunction			
minimum elong	-10289 Dec 08 j 09:49	5°♎43'26	0°01'27
behind sun begin	-10289 Dec 08 j 02:31	5°♎41'01	
behind sun end	-10289 Dec 08 j 17:07	5°♎45'51	
max. Earth dist.	-10289 Dec 08 j 16:20	5°♎45'35	9.88277 AU
morning rise	-10289 Dec 26 j 08:27	8°♎06'23	
retrograde	-10288 Apr 12 j 23:26	16°♎48'39	
opposition	-10288 Jun 19 j 21:59	13°♎16'19	-0°25'45
min. Earth dist.	-10288 Jun 19 j 14:08	13°♎17'57	7.84144 AU
direct	-10288 Aug 24 j 13:29	9°♎49'22	
evening set	-10288 Dec 05 j 00:21	18°♎08'15	
	-10288 Dec 22 j 22:19	20°♎31'53	-0°38'35
conjunction			
minimum elong	-10288 Dec 22 j 22:17	20°♎31'52	0°38'43
max. Earth dist.	-10288 Dec 23 j 12:08	20°♎36'31	9.81052 AU
morning rise	-10287 Jan 10 j 01:08	22°♎57'06	
	-10287 Mar 15 j 13:40	0°♏	
retrograde	-10287 Apr 28 j 11:48	1°♏43'13	
	-10287 Jun 11 j 23:22	30°℞♎	
opposition	-10287 Jul 04 j 22:49	28°♎10'17	-1°11'28
min. Earth dist.	-10287 Jul 04 j 09:41	28°♎13'02	7.79039 AU
direct	-10287 Sep 08 j 10:42	24°♎42'10	
	-10287 Nov 25 j 23:21	0°♏	
evening set	-10287 Dec 20 j 17:18	3°♏07'09	
	-10286 Jan 07 j 18:43	5°♏32'08	-1°13'32
conjunction			
minimum elong	-10286 Jan 07 j 18:39	5°♏32'07	1°13'49
max. Earth dist.	-10286 Jan 08 j 15:07	5°♏39'01	9.78046 AU
morning rise	-10286 Jan 25 j 23:53	7°♏58'20	
	-10286 Mar 31 j 02:57	15°♏	
retrograde	-10286 May 13 j 22:32	16°♏43'52	
	-10286 Jun 27 j 06:49	15°℞♏	
opposition	-10286 Jul 19 j 23:32	13°♏10'54	-1°52'37
min. Earth dist.	-10286 Jul 19 j 06:02	13°♏14'35	7.78315 AU
direct	-10286 Sep 23 j 12:26	9°♏41'47	
	-10286 Dec 11 j 10:25	15°♏	
evening set	-10285 Jan 05 j 15:33	18°♏09'55	
	-10285 Jan 23 j 18:53	20°♏35'01	-1°43'34
conjunction			
minimum elong	-10285 Jan 23 j 18:48	20°♏35'00	1°43'59

max. Earth dist.	-10285 Jan 24 j 20:21	20°♏43'34	9.79490 AU
morning rise	-10285 Feb 11 j 00:37	23°♏00'51	
	-10285 Apr 16 j 01:41	0°♐	
retrograde	-10285 May 29 j 04:05	1°♐41'15	
	-10285 Jul 11 j 17:23	30°℞♏	
opposition	-10285 Aug 03 j 21:09	28°♏08'49	-2°25'54
min. Earth dist.	-10285 Aug 03 j 00:49	28°♏13'06	7.82004 AU
direct	-10285 Oct 08 j 16:06	24°♏38'57	
	-10285 Dec 27 j 14:15	0°♐	
evening set	-10284 Jan 21 j 14:11	3°♐06'54	
	-10284 Feb 08 j 17:57	5°♐30'55	-2°06'26
conjunction			
minimum elong	-10284 Feb 08 j 17:53	5°♐30'54	2°06'56
max. Earth dist.	-10284 Feb 09 j 22:18	5°♐40'21	9.85248 AU
morning rise	-10284 Feb 26 j 22:41	7°♐55'10	
retrograde	-10284 Jun 12 j 01:06	16°♐26'20	
opposition	-10284 Aug 17 j 13:07	12°♐54'59	-2°48'57
min. Earth dist.	-10284 Aug 16 j 15:45	12°♐59'29	7.89785 AU
direct	-10284 Oct 22 j 18:51	9°♐24'44	
evening set	-10283 Feb 05 j 08:10	17°♐49'05	
	-10283 Feb 23 j 11:05	20°♐11'01	-2°20'43
conjunction			
minimum elong	-10283 Feb 23 j 11:02	20°♐11'00	2°21'16
max. Earth dist.	-10283 Feb 24 j 16:05	20°♐20'33	9.94852 AU
morning rise	-10283 Mar 13 j 13:35	22°♐32'43	
	-10283 May 27 j 00:16	0°♑	
retrograde	-10283 Jun 26 j 10:55	0°♑51'31	
	-10283 Jul 26 j 22:30	30°℞♐	
opposition	-10283 Aug 31 j 21:13	27°♐21'43	-3°00'37
min. Earth dist.	-10283 Aug 31 j 00:10	27°♐26'07	8.01057 AU
direct	-10283 Nov 06 j 18:14	23°♐51'26	
	-10282 Feb 03 j 05:45	0°♑	
evening set	-10282 Feb 20 j 17:10	2°♑09'08	
	-10282 Mar 10 j 18:25	4°♑28'19	-2°25'55
conjunction			
minimum elong	-10282 Mar 10 j 18:24	4°♑28'19	2°26'29
max. Earth dist.	-10282 Mar 11 j 22:05	4°♑37'16	10.07602 AU
morning rise	-10282 Mar 28 j 17:59	6°♑46'51	
retrograde	-10282 Jul 10 j 06:48	14°♑51'16	
opposition	-10282 Sep 14 j 20:00	11°♑23'22	-3°00'59
min. Earth dist.	-10282 Sep 14 j 00:17	11°♑27'26	8.15032 AU
direct	-10282 Nov 21 j 10:56	7°♑53'27	
evening set	-10281 Mar 07 j 14:08	16°♑02'08	
	-10281 Mar 25 j 13:12	18°♑18'11	-2°22'25
conjunction			
minimum elong	-10281 Mar 25 j 13:13	18°♑18'11	2°22'59
max. Earth dist.	-10281 Mar 26 j 13:54	18°♑26'02	10.22633 AU
morning rise	-10281 Apr 12 j 09:27	20°♑33'13	
retrograde	-10281 Jul 23 j 14:23	28°♑22'29	
opposition	-10281 Sep 28 j 08:50	24°♑56'39	-2°51'06
min. Earth dist.	-10281 Sep 27 j 15:00	25°♑00'17	8.30801 AU
direct	-10281 Dec 05 j 18:17	21°♑27'28	
evening set	-10280 Mar 20 j 21:30	29°♑25'39	
	-10280 Mar 25 j 13:26	0°♒	
	-10280 Apr 07 j 18:00	1°♒38'24	-2°11'15
conjunction			
minimum elong	-10280 Apr 07 j 18:03	1°♒38'25	2°11'46
max. Earth dist.	-10280 Apr 08 j 14:54	1°♒44'55	10.39012 AU
morning rise	-10280 Apr 25 j 10:39	3°♒49'50	
retrograde	-10280 Aug 04 j 11:11	11°♒24'13	
opposition	-10280 Oct 10 j 11:45	8°♒00'31	-2°32'35
min. Earth dist.	-10280 Oct 09 j 20:23	8°♒03'36	8.47457 AU
direct	-10280 Dec 18 j 15:04	4°♒32'23	
evening set	-10279 Apr 03 j 14:41	12°♒19'25	
	-10279 Apr 21 j 08:21	14°♒28'52	-1°53'45
conjunction			
minimum elong	-10279 Apr 21 j 08:25	14°♒28'53	1°54'13

Attention, astronomical year style is used: The year -10279 in astronomical counting style is the year 10280 BCE in historical counting style.

max. Earth dist.	-10279 Apr 22 j 01:19	14°♒34'04	10.55846 AU
	-10279 Apr 25 j 14:00	15°♒	
morning rise	-10279 May 08 j 21:17	16°♒36'50	
retrograde	-10279 Aug 16 j 20:53	23°♒57'23	
opposition	-10279 Oct 23 j 05:26	20°♒35'48	-2°07'21
min. Earth dist.	-10279 Oct 22 j 17:42	20°♒38'07	8.64152 AU
direct	-10278 Jan 01 j 01:41	17°♒08'54	
evening set	-10278 Apr 16 j 18:04	24°♒44'54	
conjunction	-10278 May 04 j 08:36	26°♒51'11	-1°31'26
minimum elong	-10278 May 04 j 08:39	26°♒51'12	1°31'48
max. Earth dist.	-10278 May 04 j 20:45	26°♒54'51	10.72308 AU
morning rise	-10278 May 21 j 17:51	28°♒55'55	
	-10278 May 30 j 22:50	0°♓	
retrograde	-10278 Aug 28 j 21:10	6°♓04'14	
opposition	-10278 Nov 04 j 14:46	2°♓44'38	-1°37'17
min. Earth dist.	-10278 Nov 04 j 07:40	2°♓46'01	8.80113 AU
	-10278 Dec 16 j 00:01	30°℞♒	
direct	-10277 Jan 14 j 02:24	29°♒19'06	
	-10277 Feb 12 j 03:35	0°♓	
evening set	-10277 Apr 29 j 09:10	6°♓44'46	
conjunction	-10277 May 16 j 20:08	8°♓48'07	-1°05'43
minimum elong	-10277 May 16 j 20:11	8°♓48'08	1°05'59
max. Earth dist.	-10277 May 17 j 02:17	8°♓49'56	10.87665 AU
morning rise	-10277 Jun 03 j 01:46	10°♓49'53	
retrograde	-10277 Sep 09 j 12:54	17°♓47'56	
opposition	-10277 Nov 16 j 16:53	14°♓30'05	-1°04'06
min. Earth dist.	-10277 Nov 16 j 14:24	14°♓30'33	8.94671 AU
direct	-10276 Jan 26 j 17:36	11°♓05'56	
evening set	-10276 May 10 j 13:10	18°♓22'21	
conjunction	-10276 May 27 j 20:24	20°♓23'02	-0°37'58
minimum elong	-10276 May 27 j 20:26	20°♓23'03	0°38'08
max. Earth dist.	-10276 May 27 j 20:27	20°♓23'03	11.01308 AU
morning rise	-10276 Jun 13 j 22:29	22°♓22'13	
retrograde	-10276 Sep 19 j 21:48	29°♓12'10	
opposition	-10276 Nov 27 j 13:16	25°♓55'43	-0°29'22
min. Earth dist.	-10276 Nov 27 j 14:32	25°♓55'29	9.07265 AU
direct	-10275 Feb 07 j 02:03	22°♓32'57	
evening set	-10275 May 22 j 07:33	29°♓41'23	
	-10275 May 25 j 01:04	0°♈	
conjunction	-10275 Jun 08 j 11:05	1°♈39'46	-0°09'24
minimum elong	-10275 Jun 08 j 11:05	1°♈39'46	0°09'27
behind sun begin	-10275 Jun 08 j 05:12	1°♈38'05	
behind sun end	-10275 Jun 08 j 16:59	1°♈41'27	
max. Earth dist.	-10275 Jun 08 j 06:33	1°♈38'28	11.12729 AU
morning rise	-10275 Jun 25 j 09:31	3°♈36'43	
retrograde	-10275 Oct 01 j 05:07	10°♈20'47	
asc. node	-10275 Oct 10 j 00:18	10°♈16'50	
opposition	-10275 Dec 09 j 05:14	7°♈05'24	0°05'37
min. Earth dist.	-10275 Dec 09 j 10:19	7°♈04'27	9.17435 AU
direct	-10274 Feb 19 j 01:57	3°♈43'53	
evening set	-10274 Jun 02 j 18:30	10°♈45'52	
conjunction	-10274 Jun 19 j 18:15	12°♈42'18	0°19'06
minimum elong	-10274 Jun 19 j 18:15	12°♈42'18	0°19'10
max. Earth dist.	-10274 Jun 19 j 09:26	12°♈39'46	11.21517 AU
morning rise	-10274 Jul 06 j 13:06	14°♈37'26	
retrograde	-10274 Oct 12 j 07:41	21°♈17'46	
opposition	-10274 Dec 20 j 18:09	18°♈03'06	0°39'44
min. Earth dist.	-10274 Dec 21 j 03:59	18°♈01'18	9.24823 AU
direct	-10273 Mar 02 j 19:01	14°♈42'37	
evening set	-10273 Jun 13 j 23:43	21°♈39'49	
conjunction	-10273 Jun 30 j 19:34	23°♈34'41	0°46'26
minimum elong	-10273 Jun 30 j 19:32	23°♈34'41	0°46'37
max. Earth dist.	-10273 Jun 30 j 05:23	23°♈30'38	11.27361 AU
morning rise	-10273 Jul 17 j 11:13	25°♈28'27	
	-10273 Sep 01 j 13:32	0°♉	
retrograde	-10273 Oct 23 j 10:11	2°♉07'18	
	-10273 Dec 16 j 14:21	30°℞♈	
opposition	-10272 Jan 01 j 05:47	28°♈52'58	1°12'00
min. Earth dist.	-10272 Jan 01 j 20:00	28°♈50'22	9.29153 AU
direct	-10272 Mar 13 j 09:24	25°♈33'19	
	-10272 Jun 01 j 00:03	0°♉	
evening set	-10272 Jun 24 j 00:40	2°♉27'24	
conjunction	-10272 Jul 10 j 16:54	4°♉21'10	1°11'55
minimum elong	-10272 Jul 10 j 16:52	4°♉21'09	1°12'12
max. Earth dist.	-10272 Jul 09 j 22:11	4°♉15'48	11.30038 AU
morning rise	-10272 Jul 27 j 05:46	6°♉14'03	
retrograde	-10272 Nov 02 j 12:37	12°♉53'38	
opposition	-10271 Jan 11 j 17:23	9°♉39'13	1°41'34
min. Earth dist.	-10271 Jan 12 j 10:37	9°♉36'06	9.30240 AU
direct	-10271 Mar 24 j 20:13	6°♉20'13	
evening set	-10271 Jul 04 j 23:23	13°♉12'56	
	-10271 Jul 20 j 15:23	15°♉	
conjunction	-10271 Jul 21 j 12:35	15°♉06'06	1°34'48
minimum elong	-10271 Jul 21 j 12:32	15°♉06'05	1°35'09
max. Earth dist.	-10271 Jul 20 j 15:17	14°♉59'58	11.29441 AU
morning rise	-10271 Aug 06 j 22:58	16°♉58'35	
retrograde	-10271 Nov 13 j 20:17	23°♉41'04	
opposition	-10270 Jan 23 j 06:20	20°♉26'14	2°07'38
min. Earth dist.	-10270 Jan 24 j 01:48	20°♉22'42	9.28059 AU
direct	-10270 Apr 05 j 06:13	17°♉07'38	
evening set	-10270 Jul 15 j 21:40	24°♉00'39	
max. Earth dist.	-10270 Jul 31 j 08:29	25°♉46'51	11.25630 AU
conjunction	-10270 Aug 01 j 08:19	25°♉53'44	1°54'24
minimum elong	-10270 Aug 01 j 08:16	25°♉53'43	1°54'50
morning rise	-10270 Aug 17 j 16:52	27°♉46'22	
	-10270 Sep 07 j 05:22	0°♊	
retrograde	-10270 Nov 25 j 06:59	4°♊33'45	
opposition	-10269 Feb 03 j 22:31	1°♊18'08	2°29'24
min. Earth dist.	-10269 Feb 04 j 20:26	1°♊14'09	9.22732 AU
	-10269 Feb 22 j 08:30	30°℞♉	
direct	-10269 Apr 16 j 14:05	27°♉59'42	
	-10269 Jun 06 j 18:45	0°♊	
evening set	-10269 Jul 26 j 21:11	4°♊54'38	
max. Earth dist.	-10269 Aug 11 j 03:31	6°♊40'28	11.18781 AU
conjunction	-10269 Aug 12 j 05:47	6°♊48'07	2°10'03
minimum elong	-10269 Aug 12 j 05:45	6°♊48'06	2°10'34
morning rise	-10269 Aug 28 j 13:30	8°♊41'28	
retrograde	-10269 Dec 06 j 23:11	15°♊35'43	
opposition	-10268 Feb 15 j 19:09	12°♊18'57	2°46'04
min. Earth dist.	-10268 Feb 16 j 18:43	12°♊14'39	9.14465 AU
direct	-10268 Apr 27 j 02:09	9°♊00'22	
evening set	-10268 Aug 05 j 23:35	15°♊58'46	
max. Earth dist.	-10268 Aug 21 j 04:21	17°♊45'20	11.09140 AU
conjunction	-10268 Aug 22 j 07:14	17°♊53'15	2°21'06
minimum elong	-10268 Aug 22 j 07:12	17°♊53'15	2°21'40
morning rise	-10268 Sep 07 j 15:00	19°♊47'52	
retrograde	-10268 Dec 17 j 23:40	26°♊50'48	
opposition	-10267 Feb 26 j 21:12	23°♊32'33	2°56'52
min. Earth dist.	-10267 Feb 27 j 20:41	23°♊28'14	9.03540 AU
direct	-10267 May 08 j 17:02	20°♊13'38	
evening set	-10267 Aug 17 j 06:32	27°♊16'56	
conjunction	-10267 Sep 02 j 14:25	29°♊13'01	2°26'55

Attention, astronomical year style is used: The year -10267 in astronomical counting style is the year 10268 BCE in historical counting style.

minimum elong	-10267 Sep 02 j 14:25	29°♊13'01	2°27'31
max. Earth dist.	-10267 Sep 01 j 12:41	29°♊05'20	10.97021 AU
	-10267 Sep 09 j 03:50	0°♋	
morning rise	-10267 Sep 18 j 23:12	1°♋09'31	
retrograde	-10267 Dec 30 j 09:18	8°♋22'47	
opposition	-10266 Mar 11 j 06:04	5°♋02'48	3°00'59
min. Earth dist.	-10266 Mar 12 j 04:07	4°♋58'42	8.90313 AU
direct	-10266 May 20 j 12:02	1°♋43'21	
evening set	-10266 Aug 28 j 19:58	8°♋52'59	
max. Earth dist.	-10266 Sep 13 j 04:33	10°♋43'49	10.82842 AU
conjunction	-10266 Sep 14 j 05:06	10°♋51'15	2°26'55
minimum elong	-10266 Sep 14 j 05:07	10°♋51'15	2°27'30
morning rise	-10266 Sep 30 j 16:09	12°♋50'14	
retrograde	-10265 Jan 12 j 05:52	20°♋15'19	
opposition	-10265 Mar 23 j 22:51	16°♋53'27	2°57'40
min. Earth dist.	-10265 Mar 24 j 19:08	16°♋49'38	8.75266 AU
direct	-10265 Jun 01 j 12:40	13°♋33'15	
evening set	-10265 Sep 09 j 17:43	20°♋50'31	
max. Earth dist.	-10265 Sep 25 j 06:18	22°♋44'28	10.67151 AU
conjunction	-10265 Sep 26 j 05:18	22°♋51'34	2°20'35
minimum elong	-10265 Sep 26 j 05:20	22°♋51'34	2°21'08
morning rise	-10265 Oct 12 j 20:02	24°♋53'40	
	-10265 Nov 29 j 23:34	0°♌	
retrograde	-10264 Jan 25 j 12:07	2°♌31'42	
	-10264 Mar 24 j 11:58	30°℞♋	
opposition	-10264 Apr 05 j 00:29	29°♋07'50	2°46'19
min. Earth dist.	-10264 Apr 05 j 18:35	29°♋04'23	8.59003 AU
direct	-10264 Jun 12 j 20:37	25°♋46'45	
	-10264 Aug 24 j 05:13	0°♌	
evening set	-10264 Sep 21 j 01:23	3°♌12'48	
conjunction	-10264 Oct 07 j 16:49	5°♌17'11	2°07'35
minimum elong	-10264 Oct 07 j 16:53	5°♌17'12	2°08'04
max. Earth dist.	-10264 Oct 06 j 21:22	5°♌11'05	10.50587 AU
morning rise	-10264 Oct 24 j 12:24	7°♌22'56	
	-10263 Jan 21 j 05:30	15°♌	
retrograde	-10263 Feb 07 j 05:38	15°♌14'42	
	-10263 Feb 24 j 09:39	15°℞♌	
opposition	-10263 Apr 18 j 11:21	11°♌48'47	2°26'32
min. Earth dist.	-10263 Apr 19 j 01:59	11°♌45'57	8.42218 AU
direct	-10263 Jun 25 j 14:57	8°♌26'42	
	-10263 Sep 25 j 09:59	15°♌	
evening set	-10263 Oct 03 j 20:49	16°♌02'28	
conjunction	-10263 Oct 20 j 17:18	18°♌10'39	1°47'50
minimum elong	-10263 Oct 20 j 17:22	18°♌10'40	1°48'15
max. Earth dist.	-10263 Oct 20 j 02:58	18°♌06'04	10.33881 AU
morning rise	-10263 Nov 06 j 18:35	20°♌20'25	
retrograde	-10262 Feb 21 j 12:00	28°♌26'03	
opposition	-10262 May 02 j 07:32	24°♌58'11	1°58'22
min. Earth dist.	-10262 May 02 j 17:19	24°♌56'16	8.25712 AU
direct	-10262 Jul 08 j 18:19	21°♌35'01	
evening set	-10262 Oct 17 j 05:24	29°♌21'06	
	-10262 Oct 22 j 07:11	0°♍	
conjunction	-10262 Nov 03 j 07:45	1°♍33'19	1°21'43
minimum elong	-10262 Nov 03 j 07:49	1°♍33'20	1°22'03
max. Earth dist.	-10262 Nov 02 j 23:31	1°♍30'38	10.17885 AU
morning rise	-10262 Nov 20 j 15:22	3°♍47'18	
retrograde	-10261 Mar 08 j 06:01	12°♍06'12	
opposition	-10261 May 16 j 12:57	8°♍36'32	1°22'30
min. Earth dist.	-10261 May 16 j 17:00	8°♍35'44	8.10386 AU
direct	-10261 Jul 22 j 06:51	5°♍12'14	
evening set	-10261 Oct 31 j 04:04	13°♍08'49	
conjunction	-10261 Nov 17 j 12:37	15°♍25'00	0°50'07
minimum elong	-10261 Nov 17 j 12:39	15°♍25'01	0°50'19
max. Earth dist.	-10261 Nov 17 j 10:48	15°♍24'25	10.03514 AU
morning rise	-10261 Dec 05 j 02:48	17°♍43'07	
retrograde	-10260 Mar 22 j 08:57	26°♍13'42	
opposition	-10260 May 30 j 02:30	22°♍42'32	0°40'23
min. Earth dist.	-10260 May 30 j 00:44	22°♍42'54	7.97166 AU
direct	-10260 Aug 04 j 06:21	19°♍17'05	
evening set	-10260 Nov 13 j 17:14	27°♍23'46	
conjunction	-10260 Dec 01 j 07:47	29°♍43'35	0°14'37
minimum elong	-10260 Dec 01 j 07:48	29°♍43'36	0°14'41
behind sun begin	-10260 Dec 01 j 04:51	29°♍42'37	
behind sun end	-10260 Dec 01 j 10:44	29°♍44'34	
max. Earth dist.	-10260 Dec 01 j 12:28	29°♍45'08	9.91677 AU
	-10260 Dec 03 j 09:04	0°♎	
morning rise	-10260 Dec 19 j 04:03	2°♎05'18	
retrograde	-10259 Apr 06 j 18:27	10°♎44'57	
desc. node	-10259 Apr 30 j 05:58	10°♎15'15	
opposition	-10259 Jun 13 j 22:20	7°♎12'42	-0°05'33
min. Earth dist.	-10259 Jun 13 j 15:19	7°♎14'09	7.86943 AU
direct	-10259 Aug 18 j 15:57	3°♎46'06	
evening set	-10259 Nov 28 j 19:39	12°♎01'49	
conjunction	-10259 Dec 16 j 15:27	14°♎24'31	-0°22'41
minimum elong	-10259 Dec 16 j 15:26	14°♎24'31	0°22'45
max. Earth dist.	-10259 Dec 17 j 02:56	14°♎28'22	9.83214 AU
morning rise	-10258 Jan 03 j 16:39	16°♎48'58	
retrograde	-10258 Apr 22 j 07:13	25°♎34'09	
opposition	-10258 Jun 28 j 22:25	22°♎01'18	-0°52'08
min. Earth dist.	-10258 Jun 28 j 10:31	22°♎03'47	7.80477 AU
direct	-10258 Sep 02 j 10:05	18°♎33'39	
evening set	-10258 Dec 14 j 08:51	26°♎56'26	
conjunction	-10257 Jan 01 j 08:45	29°♎20'59	-0°58'56
minimum elong	-10257 Jan 01 j 08:42	29°♎20'58	0°59'10
max. Earth dist.	-10257 Jan 02 j 02:46	29°♎27'03	9.78780 AU
	-10257 Jan 06 j 04:39	0°♏	
morning rise	-10257 Jan 19 j 13:14	1°♏46'57	
retrograde	-10257 May 07 j 19:21	10°♏33'24	
opposition	-10257 Jul 13 j 23:45	7°♏00'30	-1°35'42
min. Earth dist.	-10257 Jul 13 j 07:41	7°♏03'53	7.78278 AU
direct	-10257 Sep 17 j 10:30	3°♏31'58	
evening set	-10257 Dec 30 j 05:33	11°♏59'09	
conjunction	-10256 Jan 17 j 08:04	14°♏24'18	-1°31'24
minimum elong	-10256 Jan 17 j 07:59	14°♏24'17	1°31'46
max. Earth dist.	-10256 Jan 18 j 07:32	14°♏32'12	9.78743 AU
	-10256 Jan 21 j 18:16	15°♏	
morning rise	-10256 Feb 04 j 13:56	16°♏50'26	
retrograde	-10256 May 22 j 03:28	25°♏33'32	
opposition	-10256 Jul 27 j 23:08	22°♏01'08	-2°12'42
min. Earth dist.	-10256 Jul 27 j 03:50	22°♏05'12	7.80525 AU
direct	-10256 Oct 01 j 14:34	18°♏31'56	
evening set	-10255 Jan 14 j 04:48	27°♏00'16	
conjunction	-10255 Feb 01 j 08:24	29°♏24'47	-1°57'35
minimum elong	-10255 Feb 01 j 08:19	29°♏24'45	1°58'03
max. Earth dist.	-10255 Feb 02 j 11:52	29°♏33'57	9.83120 AU
	-10255 Feb 05 j 17:53	0°♐	
morning rise	-10255 Feb 19 j 13:49	1°♐49'46	
retrograde	-10255 Jun 06 j 04:01	10°♐25'08	
opposition	-10255 Aug 11 j 17:57	6°♐53'46	-2°40'20
min. Earth dist.	-10255 Aug 10 j 20:17	6°♐58'19	7.87039 AU
direct	-10255 Oct 16 j 18:51	3°♐24'11	
evening set	-10254 Jan 30 j 01:15	11°♐50'07	

Attention, astronomical year style is used: The year -10254 in astronomical counting style is the year 10255 BCE in historical counting style.

conjunction	-10254 Feb 17 j 04:35	14°♐12'54	-2°15'39
minimum elong	-10254 Feb 17 j 04:31	14°♐12'53	2°16'11
max. Earth dist.	-10254 Feb 18 j 10:21	14°♐22'44	9.91568 AU
morning rise	-10254 Mar 07 j 08:09	16°♐35'39	
retrograde	-10254 Jun 20 j 18:14	24°♐59'43	
min. Earth dist.	-10254 Aug 25 j 06:58	21°♐34'30	7.97294 AU
opposition	-10254 Aug 26 j 05:36	21°♐29'46	-2°56'53
direct	-10254 Oct 31 j 20:03	18°♐00'06	
evening set	-10253 Feb 14 j 14:31	26°♐20'23	
conjunction	-10253 Mar 04 j 16:37	28°♐40'38	-2°24'43
minimum elong	-10253 Mar 04 j 16:36	28°♐40'37	2°25'17
max. Earth dist.	-10253 Mar 05 j 22:22	28°♐50'19	10.03414 AU
	-10253 Mar 14 j 21:08	0°♑	
morning rise	-10253 Mar 22 j 17:25	1°♑00'22	
retrograde	-10253 Jul 04 j 20:16	9°♑10'36	
min. Earth dist.	-10253 Sep 08 j 10:33	5°♑46'54	8.10476 AU
opposition	-10253 Sep 09 j 08:14	5°♑42'25	-3°01'59
direct	-10253 Nov 15 j 14:58	2°♑12'58	
evening set	-10252 Feb 29 j 16:56	10°♑25'00	
conjunction	-10252 Mar 18 j 17:03	12°♑42'14	-2°24'51
minimum elong	-10252 Mar 18 j 17:04	12°♑42'14	2°25'25
max. Earth dist.	-10252 Mar 19 j 20:24	12°♑50'58	10.17726 AU
morning rise	-10252 Apr 05 j 14:33	14°♑58'33	
retrograde	-10252 Jul 17 j 10:17	22°♑53'46	
min. Earth dist.	-10252 Sep 21 j 06:13	19°♑31'28	8.25599 AU
opposition	-10252 Sep 22 j 01:14	19°♑27'36	-2°56'19
direct	-10252 Nov 29 j 01:08	15°♑58'40	
evening set	-10251 Mar 15 j 06:06	24°♑00'48	
conjunction	-10251 Apr 02 j 03:43	26°♑14'47	-2°16'49
minimum elong	-10251 Apr 02 j 03:46	26°♑14'48	2°17'22
max. Earth dist.	-10251 Apr 03 j 02:53	26°♑22'03	10.33504 AU
morning rise	-10251 Apr 19 j 21:44	28°♑27'34	
	-10251 May 02 j 17:10	0°♒	
retrograde	-10251 Jul 30 j 12:06	6°♒07'49	
opposition	-10251 Oct 05 j 08:21	2°♒43'45	-2°41'18
min. Earth dist.	-10251 Oct 04 j 17:03	2°♒46'50	8.41733 AU
	-10251 Nov 13 j 16:24	30°℞♑	
direct	-10251 Dec 13 j 02:23	29°♑15'39	
	-10250 Jan 11 j 13:36	0°♒	
evening set	-10250 Mar 29 j 05:24	7°♒07'04	
conjunction	-10250 Apr 16 j 00:12	9°♒17'47	-2°01'52
minimum elong	-10250 Apr 16 j 00:15	9°♒17'48	2°02'21
max. Earth dist.	-10250 Apr 16 j 17:46	9°♒23'12	10.49896 AU
morning rise	-10250 May 03 j 14:44	11°♒27'07	
	-10250 Jun 04 j 03:04	15°♒	
retrograde	-10250 Aug 12 j 01:14	18°♒53'10	
opposition	-10250 Oct 18 j 05:49	15°♒31'09	-2°18'45
min. Earth dist.	-10250 Oct 17 j 18:11	15°♒33'27	8.58097 AU
	-10250 Oct 24 j 19:57	15°℞♒	
direct	-10250 Dec 26 j 18:31	12°♒04'04	
	-10249 Feb 26 j 00:20	15°♒	
evening set	-10249 Apr 11 j 14:53	19°♒44'35	
conjunction	-10249 Apr 29 j 06:40	21°♒52'07	-1°41'25
minimum elong	-10249 Apr 29 j 06:44	21°♒52'09	1°41'50
max. Earth dist.	-10249 Apr 29 j 18:32	21°♒55'43	10.66145 AU
morning rise	-10249 May 16 j 17:40	23°♒58'10	
	-10249 Jul 18 j 05:25	0°♓	
retrograde	-10249 Aug 24 j 04:38	1°♓11'25	
	-10249 Sep 30 j 19:38	30°℞♒	
opposition	-10249 Oct 30 j 18:39	27°♒51'17	-1°50'33
min. Earth dist.	-10249 Oct 30 j 10:33	27°♒52'51	8.73958 AU
direct	-10248 Jan 09 j 00:47	24°♒25'21	
	-10248 Apr 06 j 12:20	0°♓	
evening set	-10248 Apr 23 j 11:15	1°♓55'19	
conjunction	-10248 May 10 j 23:48	3°♓59'53	-1°17'00
minimum elong	-10248 May 10 j 23:51	3°♓59'54	1°17'19
max. Earth dist.	-10248 May 11 j 06:42	4°♓01'57	10.81534 AU
morning rise	-10248 May 28 j 07:05	6°♓02'53	
retrograde	-10248 Sep 04 j 00:44	13°♓05'09	
opposition	-10248 Nov 10 j 23:51	9°♓46'38	-1°18'32
min. Earth dist.	-10248 Nov 10 j 19:36	9°♓47'27	8.88649 AU
direct	-10247 Jan 20 j 19:48	6°♓21'56	
evening set	-10247 May 05 j 19:55	13°♓42'12	
conjunction	-10247 May 23 j 04:59	15°♓44'04	-0°49'59
minimum elong	-10247 May 23 j 05:01	15°♓44'04	0°50'12
max. Earth dist.	-10247 May 23 j 07:13	15°♓44'43	10.95440 AU
morning rise	-10247 Jun 09 j 08:32	17°♓44'20	
retrograde	-10247 Sep 15 j 13:04	24°♓37'39	
opposition	-10247 Nov 22 j 22:37	21°♓20'31	-0°44'19
min. Earth dist.	-10247 Nov 22 j 23:15	21°♓20'23	9.01611 AU
direct	-10246 Feb 02 j 06:26	17°♓56'58	
evening set	-10246 May 17 j 18:22	25°♓08'49	
conjunction	-10246 Jun 03 j 23:40	27°♓08'14	-0°21'38
minimum elong	-10246 Jun 03 j 23:41	27°♓08'15	0°21'44
max. Earth dist.	-10246 Jun 03 j 20:10	27°♓07'14	11.07344 AU
morning rise	-10246 Jun 20 j 23:40	29°♓06'11	
	-10246 Jun 28 j 23:10	0°♈	
retrograde	-10246 Sep 26 j 20:26	5°♈52'41	
opposition	-10246 Dec 04 j 16:21	2°♈36'37	-0°09'18
min. Earth dist.	-10246 Dec 04 j 21:43	2°♈35'37	9.12370 AU
	-10245 Jan 13 j 19:46	30°℞♓	
direct	-10245 Feb 14 j 09:23	29°♓14'11	
asc. node	-10245 Mar 14 j 06:30	29°♓50'32	
	-10245 Mar 17 j 18:00	0°♈	
evening set	-10245 May 29 j 08:28	6°♈19'04	
conjunction	-10245 Jun 15 j 09:49	8°♈16'24	0°07'03
minimum elong	-10245 Jun 15 j 09:49	8°♈16'24	0°07'05
behind sun begin	-10245 Jun 15 j 03:19	8°♈14'33	
behind sun end	-10245 Jun 15 j 16:19	8°♈18'15	
max. Earth dist.	-10245 Jun 15 j 00:43	8°♈13'48	11.16834 AU
morning rise	-10245 Jul 02 j 06:23	10°♈12'24	
retrograde	-10245 Oct 07 j 22:55	16°♈54'21	
opposition	-10245 Dec 16 j 06:26	13°♈39'00	0°25'19
min. Earth dist.	-10245 Dec 16 j 15:26	13°♈37'20	9.20565 AU
direct	-10244 Feb 26 j 06:46	10°♈17'34	
evening set	-10244 Jun 08 j 15:51	17°♈17'02	
conjunction	-10244 Jun 25 j 13:27	19°♈12'41	0°34'56
minimum elong	-10244 Jun 25 j 13:26	19°♈12'40	0°35'04
max. Earth dist.	-10244 Jun 25 j 00:30	19°♈08'57	11.23614 AU
morning rise	-10244 Jul 12 j 06:38	21°♈07'08	
retrograde	-10244 Oct 18 j 02:56	27°♈46'46	
opposition	-10244 Dec 26 j 18:28	24°♈31'48	0°58'31
min. Earth dist.	-10244 Dec 27 j 06:28	24°♈29'36	9.25946 AU
direct	-10243 Mar 08 j 23:06	21°♈11'16	
evening set	-10243 Jun 19 j 18:17	28°♈06'56	
conjunction	-10243 Jul 06 j 12:20	0°♉01'18	1°01'19
minimum elong	-10243 Jul 06 j 12:17	0°♉01'18	1°01'34
max. Earth dist.	-10243 Jul 05 j 20:12	29°♈56'41	11.27479 AU
	-10243 Jul 06 j 07:47	0°♉	
morning rise	-10243 Jul 23 j 02:21	1°♉54'40	
retrograde	-10243 Oct 29 j 05:15	8°♉34'07	
opposition	-10242 Jan 07 j 05:56	5°♉19'14	1°29'22
min. Earth dist.	-10242 Jan 07 j 21:32	5°♉16'23	9.28355 AU

Attention, astronomical year style is used: The year -10242 in astronomical counting style is the year 10243 BCE in historical counting style.

direct	-10242 Mar 20 j 08:50	1°♉59'26	
evening set	-10242 Jun 30 j 17:57	8°♉53'00	
conjunction	-10242 Jul 17 j 08:30	10°♉46'32	1°25'25
minimum elong	-10242 Jul 17 j 08:27	10°♉46'31	1°25'44
max. Earth dist.	-10242 Jul 16 j 12:23	10°♉40'46	11.28325 AU
morning rise	-10242 Aug 02 j 19:57	12°♉39'18	
	-10242 Aug 24 j 15:50	15°♉	
retrograde	-10242 Nov 09 j 09:53	19°♉20'40	
opposition	-10241 Jan 18 j 18:12	16°♉05'34	1°57'03
min. Earth dist.	-10241 Jan 19 j 13:08	16°♉02'07	9.27723 AU
	-10241 Feb 03 j 01:21	15°℞♉	
direct	-10241 Mar 31 j 19:35	12°♉46'18	
	-10241 May 25 j 07:24	15°♉	
evening set	-10241 Jul 11 j 16:17	19°♉39'28	
max. Earth dist.	-10241 Jul 27 j 04:50	21°♉26'00	11.26137 AU
conjunction	-10241 Jul 28 j 03:54	21°♉32'39	1°46'31
minimum elong	-10241 Jul 28 j 03:50	21°♉32'38	1°46'55
morning rise	-10241 Aug 13 j 13:21	23°♉25'18	
	-10241 Nov 06 j 00:04	0°♊	
retrograde	-10241 Nov 20 j 18:10	0°♊10'40	
	-10241 Dec 05 j 16:25	30°℞♉	
opposition	-10240 Jan 30 j 08:56	26°♉55'00	2°20'46
min. Earth dist.	-10240 Jan 31 j 05:28	26°♉51'16	9.24068 AU
direct	-10240 Apr 11 j 04:48	23°♉36'08	
	-10240 Jul 17 j 02:51	0°♊	
evening set	-10240 Jul 21 j 14:54	0°♊30'26	
max. Earth dist.	-10240 Aug 06 j 00:31	2°♊16'51	11.20970 AU
conjunction	-10240 Aug 07 j 00:24	2°♊23'47	2°03'56
minimum elong	-10240 Aug 07 j 00:22	2°♊23'46	2°04'25
morning rise	-10240 Aug 23 j 08:26	4°♊16'52	
retrograde	-10240 Dec 01 j 09:33	11°♊08'14	
opposition	-10239 Feb 10 j 03:26	7°♊51'42	2°39'42
min. Earth dist.	-10239 Feb 11 j 00:39	7°♊47'50	9.17480 AU
direct	-10239 Apr 22 j 15:33	4°♊33'01	
evening set	-10239 Aug 01 j 15:57	11°♊30'02	
max. Earth dist.	-10239 Aug 16 j 23:21	13°♊16'52	11.12965 AU
conjunction	-10239 Aug 18 j 00:04	13°♊24'07	2°17'02
minimum elong	-10239 Aug 18 j 00:02	13°♊24'06	2°17'34
morning rise	-10239 Sep 03 j 07:35	15°♊18'10	
retrograde	-10239 Dec 13 j 07:03	22°♊17'20	
opposition	-10238 Feb 22 j 02:57	18°♊59'42	2°53'04
min. Earth dist.	-10238 Feb 23 j 00:54	18°♊55'41	9.08153 AU
direct	-10238 May 04 j 03:04	15°♊40'58	
evening set	-10238 Aug 12 j 21:01	22°♊42'14	
max. Earth dist.	-10238 Aug 28 j 02:48	24°♊29'56	11.02378 AU
conjunction	-10238 Aug 29 j 04:35	24°♊37'35	2°25'08
minimum elong	-10238 Aug 29 j 04:34	24°♊37'35	2°25'43
morning rise	-10238 Sep 14 j 12:48	26°♊33'15	
	-10238 Oct 16 j 10:05	0°♋	
retrograde	-10238 Dec 25 j 11:32	3°♋41'58	
opposition	-10237 Mar 06 j 09:04	0°♋22'56	3°00'04
min. Earth dist.	-10237 Mar 07 j 07:23	0°♋18'48	8.96388 AU
	-10237 Mar 11 j 13:18	30°℞♊	
direct	-10237 May 15 j 19:36	27°♊03'56	
	-10237 Jul 15 j 22:42	0°♋	
evening set	-10237 Aug 24 j 07:37	4°♋10'51	
conjunction	-10237 Sep 09 j 15:54	6°♋08'05	2°27'38
minimum elong	-10237 Sep 09 j 15:54	6°♋08'05	2°28'14
max. Earth dist.	-10237 Sep 08 j 15:11	6°♋00'38	10.89563 AU
morning rise	-10237 Sep 26 j 01:55	8°♋05'55	
retrograde	-10236 Jan 07 j 03:28	15°♋25'46	
opposition	-10236 Mar 17 j 22:41	12°♋05'05	2°59'56
min. Earth dist.	-10236 Mar 18 j 19:33	12°♋01'11	8.82593 AU
direct	-10236 May 26 j 19:33	8°♋45'37	
evening set	-10236 Sep 04 j 01:46	15°♋59'27	
conjunction	-10236 Sep 20 j 12:10	17°♋59'11	2°24'00
minimum elong	-10236 Sep 20 j 12:12	17°♋59'11	2°24'35
max. Earth dist.	-10236 Sep 19 j 14:06	17°♋52'25	10.74968 AU
morning rise	-10236 Oct 07 j 01:07	19°♋59'48	
retrograde	-10235 Jan 19 j 05:44	27°♋32'00	
opposition	-10235 Mar 30 j 20:26	24°♋09'29	2°52'00
min. Earth dist.	-10235 Mar 31 j 14:31	24°♋06'04	8.67273 AU
direct	-10235 Jun 08 j 00:25	20°♋49'21	
evening set	-10235 Sep 16 j 05:11	28°♋11'17	
	-10235 Sep 30 j 21:38	0°♌	
conjunction	-10235 Oct 02 j 18:54	0°♌14'04	2°13'49
minimum elong	-10235 Oct 02 j 18:57	0°♌14'05	2°14'21
max. Earth dist.	-10235 Oct 01 j 23:45	0°♌08'07	10.59150 AU
morning rise	-10235 Oct 19 j 12:01	2°♌18'02	
retrograde	-10234 Feb 01 j 19:27	10°♌03'28	
opposition	-10234 Apr 13 j 03:19	6°♌39'01	2°35'46
min. Earth dist.	-10234 Apr 13 j 17:57	6°♌36'12	8.51030 AU
direct	-10234 Jun 20 j 13:58	3°♌18'00	
evening set	-10234 Sep 28 j 19:24	10°♌49'01	
conjunction	-10234 Oct 15 j 13:28	12°♌55'20	1°56'54
minimum elong	-10234 Oct 15 j 13:31	12°♌55'21	1°57'21
max. Earth dist.	-10234 Oct 14 j 21:24	12°♌50'15	10.42756 AU
morning rise	-10234 Nov 01 j 12:00	15°♌03'07	
	-10234 Nov 01 j 01:56	15°♌	
retrograde	-10233 Feb 15 j 21:02	23°♌02'11	
opposition	-10233 Apr 26 j 19:35	19°♌35'46	2°11'06
min. Earth dist.	-10233 Apr 27 j 06:45	19°♌33'35	8.34555 AU
direct	-10233 Jul 03 j 12:22	16°♌13'42	
evening set	-10233 Oct 11 j 22:06	23°♌54'36	
conjunction	-10233 Oct 28 j 21:34	26°♌04'48	1°33'24
minimum elong	-10233 Oct 28 j 21:38	26°♌04'49	1°33'47
max. Earth dist.	-10233 Oct 28 j 09:39	26°♌00'58	10.26499 AU
morning rise	-10233 Nov 15 j 02:23	28°♌16'45	
	-10233 Nov 29 j 01:36	0°♍	
retrograde	-10232 Mar 01 j 09:38	6°♍29'15	
opposition	-10232 May 09 j 20:57	3°♍00'59	1°38'24
min. Earth dist.	-10232 May 10 j 04:12	2°♍59'32	8.18622 AU
	-10232 Jun 25 j 17:46	30°℞♌	
direct	-10232 Jul 15 j 20:48	29°♌37'43	
	-10232 Aug 04 j 19:50	0°♍	
evening set	-10232 Oct 24 j 14:26	7°♍29'06	
conjunction	-10232 Nov 10 j 20:04	9°♍43'21	1°04'00
minimum elong	-10232 Nov 10 j 20:07	9°♍43'22	1°04'16
max. Earth dist.	-10232 Nov 10 j 13:46	9°♍41'17	10.11207 AU
morning rise	-10232 Nov 28 j 07:28	11°♍59'30	
retrograde	-10231 Mar 16 j 07:21	20°♍24'31	
opposition	-10231 May 24 j 06:56	16°♍54'34	0°58'45
min. Earth dist.	-10231 May 24 j 09:19	16°♍54'05	8.04163 AU
direct	-10231 Jul 29 j 16:55	13°♍30'05	
evening set	-10231 Nov 07 j 21:03	21°♍31'54	
conjunction	-10231 Nov 25 j 08:56	23°♍50'01	0°29'57
minimum elong	-10231 Nov 25 j 08:58	23°♍50'01	0°30'05
max. Earth dist.	-10231 Nov 25 j 09:44	23°♍50'16	9.97871 AU
morning rise	-10231 Dec 13 j 02:36	26°♍10'02	
	-10230 Jan 13 j 14:22	0°♎	
retrograde	-10230 Mar 31 j 13:16	4°♎45'32	
opposition	-10230 Jun 08 j 00:08	1°♎14'11	0°14'10

Attention, astronomical year style is used: The year -10230 in astronomical counting style is the year 10231 BCE in historical counting style.

min. Earth dist.	-10230 Jun 07 j 20:45	1°♎14'53	7.92198 AU
	-10230 Jun 23 j 10:30	30°℞♍	
direct	-10230 Aug 12 j 22:48	27°♍48'27	
	-10230 Sep 30 j 14:21	0°♎	
desc. node	-10230 Oct 01 j 06:45	0°♎03'31	
evening set	-10230 Nov 22 j 17:35	5°♎59'54	
conjunction	-10230 Dec 10 j 11:15	8°♎21'19	-0°06'53
minimum elong	-10230 Dec 10 j 11:15	8°♎21'19	0°06'54
behind sun begin	-10230 Dec 10 j 04:28	8°♎19'04	
behind sun end	-10230 Dec 10 j 18:01	8°♎23'33	
max. Earth dist.	-10230 Dec 10 j 19:30	8°♎24'04	9.87475 AU
morning rise	-10230 Dec 28 j 10:19	10°♎44'32	
retrograde	-10229 Apr 16 j 00:32	19°♎27'21	
opposition	-10229 Jun 22 j 22:27	15°♎54'59	-0°32'31
min. Earth dist.	-10229 Jun 22 j 13:13	15°♎56'54	7.83629 AU
direct	-10229 Aug 27 j 13:00	12°♎28'00	
evening set	-10229 Dec 08 j 02:17	20°♎47'32	
conjunction	-10229 Dec 26 j 00:40	23°♎11'20	-0°43'49
minimum elong	-10229 Dec 26 j 00:38	23°♎11'19	0°44'00
max. Earth dist.	-10229 Dec 26 j 15:56	23°♎16'27	9.80814 AU
morning rise	-10228 Jan 13 j 03:44	25°♎36'40	
	-10228 Feb 18 j 02:14	0°♏	
retrograde	-10228 Apr 30 j 13:37	4°♏22'47	
opposition	-10228 Jul 06 j 23:18	0°♏49'54	-1°17'46
min. Earth dist.	-10228 Jul 06 j 09:04	0°♏52'53	7.79104 AU
	-10228 Jul 16 j 23:57	30°℞♎	
direct	-10228 Sep 10 j 09:51	27°♎21'46	
	-10228 Nov 02 j 23:24	0°♏	
evening set	-10228 Dec 22 j 20:04	5°♏47'03	
conjunction	-10227 Jan 09 j 21:41	8°♏12'02	-1°18'13
minimum elong	-10227 Jan 09 j 21:37	8°♏12'01	1°18'31
max. Earth dist.	-10227 Jan 10 j 18:56	8°♏19'11	9.78396 AU
morning rise	-10227 Jan 28 j 02:55	10°♏38'11	
	-10227 Mar 04 j 19:10	15°♏	
retrograde	-10227 May 16 j 00:43	19°♏23'06	
opposition	-10227 Jul 21 j 23:36	15°♏50'16	-1°57'57
min. Earth dist.	-10227 Jul 21 j 05:36	15°♏54'03	7.78963 AU
	-10227 Aug 01 j 00:43	15°℞♏	
direct	-10227 Sep 25 j 12:15	12°♏21'09	
	-10227 Nov 18 j 09:38	15°♏	
evening set	-10226 Jan 07 j 18:25	20°♏49'11	
conjunction	-10226 Jan 25 j 21:41	23°♏14'07	-1°47'20
minimum elong	-10226 Jan 25 j 21:37	23°♏14'05	1°47'46
max. Earth dist.	-10226 Jan 26 j 23:23	23°♏22'43	9.80411 AU
morning rise	-10226 Feb 13 j 03:19	25°♏39'44	
	-10226 Mar 20 j 18:31	0°♐	
retrograde	-10226 May 31 j 05:09	4°♐18'56	
opposition	-10226 Aug 05 j 20:31	0°♐46'43	-2°29'52
min. Earth dist.	-10226 Aug 05 j 00:16	0°♐50'59	7.83200 AU
	-10226 Aug 15 j 04:07	30°℞♏	
direct	-10226 Oct 10 j 16:39	27°♏16'54	
	-10226 Dec 04 j 17:40	0°♐	
evening set	-10225 Jan 23 j 16:19	5°♐44'17	
conjunction	-10225 Feb 10 j 19:52	8°♐07'59	-2°09'02
minimum elong	-10225 Feb 10 j 19:48	8°♐07'57	2°09'32
max. Earth dist.	-10225 Feb 11 j 23:56	8°♐17'18	9.86687 AU
morning rise	-10225 Mar 01 j 00:25	10°♐31'53	
retrograde	-10225 Jun 14 j 23:44	19°♐01'25	
opposition	-10225 Aug 20 j 11:24	15°♐30'20	-2°51'19
min. Earth dist.	-10225 Aug 19 j 14:24	15°♐34'45	7.91453 AU
direct	-10225 Oct 25 j 19:40	12°♐00'09	
evening set	-10224 Feb 08 j 09:09	20°♐23'30	
conjunction	-10224 Feb 26 j 11:48	22°♐45'03	-2°22'01
minimum elong	-10224 Feb 26 j 11:46	22°♐45'02	2°22'34
max. Earth dist.	-10224 Feb 27 j 16:06	22°♐54'19	9.96716 AU
morning rise	-10224 Mar 15 j 14:02	25°♐06'19	
	-10224 Apr 26 j 16:14	0°♑	
retrograde	-10224 Jun 28 j 06:23	3°♑23'09	
	-10224 Sep 01 j 11:36	30°℞♐	
opposition	-10224 Sep 02 j 18:04	29°♐53'39	-3°01'21
min. Earth dist.	-10224 Sep 01 j 21:16	29°♐57'59	8.03084 AU
direct	-10224 Nov 08 j 18:02	26°♐23'28	
	-10223 Jan 13 j 08:02	0°♑	
evening set	-10223 Feb 22 j 16:31	4°♑39'50	
conjunction	-10223 Mar 12 j 17:30	6°♑58'35	-2°25'56
minimum elong	-10223 Mar 12 j 17:30	6°♑58'35	2°26'31
max. Earth dist.	-10223 Mar 13 j 20:29	7°♑07'17	10.09762 AU
morning rise	-10223 Mar 30 j 16:43	9°♑16'37	
retrograde	-10223 Jul 12 j 00:55	17°♑18'58	
opposition	-10223 Sep 16 j 15:24	13°♑51'21	-3°00'11
min. Earth dist.	-10223 Sep 15 j 19:35	13°♑55'25	8.17280 AU
direct	-10223 Nov 23 j 08:24	10°♑21'33	
evening set	-10222 Mar 09 j 11:25	18°♑28'39	
conjunction	-10222 Mar 27 j 10:15	20°♑44'15	-2°21'18
minimum elong	-10222 Mar 27 j 10:17	20°♑44'15	2°21'51
max. Earth dist.	-10222 Mar 28 j 10:42	20°♑52'00	10.24949 AU
morning rise	-10222 Apr 14 j 06:05	22°♑58'46	
	-10222 Jun 26 j 08:42	0°♒	
retrograde	-10222 Jul 25 j 07:57	0°♒45'59	
	-10222 Aug 23 j 11:48	30°℞♑	
min. Earth dist.	-10222 Sep 29 j 08:45	27°♑24'03	8.33135 AU
opposition	-10222 Sep 30 j 02:43	27°♑20'24	-2°48'58
direct	-10222 Dec 07 j 14:02	23°♑51'21	
	-10221 Mar 08 j 13:53	0°♒	
evening set	-10221 Mar 23 j 16:47	1°♒47'52	
conjunction	-10221 Apr 10 j 13:05	4°♒00'10	-2°09'09
minimum elong	-10221 Apr 10 j 13:08	4°♒00'11	2°09'39
max. Earth dist.	-10221 Apr 11 j 10:02	4°♒06'42	10.41349 AU
morning rise	-10221 Apr 28 j 05:16	6°♒11'08	
retrograde	-10221 Aug 07 j 02:36	13°♒43'34	
opposition	-10221 Oct 13 j 04:09	10°♒20'06	-2°29'24
min. Earth dist.	-10221 Oct 12 j 13:21	10°♒23'03	8.49745 AU
direct	-10221 Dec 21 j 09:42	6°♒52'04	
evening set	-10220 Apr 05 j 08:08	14°♒37'30	
	-10220 Apr 08 j 11:07	15°♒	
conjunction	-10220 Apr 23 j 01:30	16°♒46'31	-1°50'52
minimum elong	-10220 Apr 23 j 01:33	16°♒46'32	1°51'19
max. Earth dist.	-10220 Apr 23 j 18:02	16°♒51'35	10.58073 AU
morning rise	-10220 May 10 j 13:59	18°♒54'04	
retrograde	-10220 Aug 18 j 10:57	26°♒12'51	
opposition	-10220 Oct 24 j 20:37	22°♒51'29	-2°03'22
min. Earth dist.	-10220 Oct 24 j 10:04	22°♒53'33	8.66279 AU
direct	-10219 Jan 02 j 18:50	19°♒24'41	
evening set	-10219 Apr 18 j 09:49	26°♒59'11	
conjunction	-10219 May 05 j 23:53	29°♒05'05	-1°27'59
minimum elong	-10219 May 05 j 23:57	29°♒05'07	1°28'20
max. Earth dist.	-10219 May 06 j 10:41	29°♒08'20	10.74318 AU
	-10219 May 13 j 14:56	0°♓	
morning rise	-10219 May 23 j 08:47	1°♓09'26	
retrograde	-10219 Aug 30 j 09:47	8°♓16'17	
opposition	-10219 Nov 06 j 04:50	4°♓56'51	-1°32'45
min. Earth dist.	-10219 Nov 05 j 22:44	4°♓58'01	8.81987 AU
direct	-10218 Jan 15 j 17:45	1°♓31'24	
evening set	-10218 Apr 30 j 23:19	8°♓55'45	

Attention, astronomical year style is used: The year -10218 in astronomical counting style is the year 10219 BCE in historical counting style.

conjunction	-10218 May 18 j 09:52	10°♓58'46	-1°01'54
minimum elong	-10218 May 18 j 09:54	10°♓58'47	1°02'09
max. Earth dist.	-10218 May 18 j 14:29	11°♓00'08	10.89384 AU
morning rise	-10218 Jun 04 j 15:13	13°♓00'13	
retrograde	-10218 Sep 10 j 23:30	19°♓57'07	
opposition	-10218 Nov 18 j 05:52	16°♓39'21	-0°59'16
min. Earth dist.	-10218 Nov 18 j 03:42	16°♓39'46	8.96218 AU
direct	-10217 Jan 28 j 09:22	13°♓15'18	
evening set	-10217 May 13 j 02:02	20°♓30'38	
conjunction	-10217 May 30 j 08:58	22°♓31'03	-0°33'57
minimum elong	-10217 May 30 j 09:00	22°♓31'04	0°34'05
max. Earth dist.	-10217 May 30 j 08:25	22°♓30'54	11.02669 AU
morning rise	-10217 Jun 16 j 10:39	24°♓29'58	
	-10217 Aug 13 j 15:54	0°♈	
retrograde	-10217 Sep 22 j 10:21	1°♈19'05	
	-10217 Nov 02 j 02:58	30°♓℞	
opposition	-10217 Nov 30 j 01:33	28°♓02'43	-0°24'23
min. Earth dist.	-10217 Nov 30 j 03:11	28°♓02'24	9.08426 AU
direct	-10216 Feb 09 j 15:49	24°♓40'01	
	-10216 May 07 j 11:45	0°♈	
evening set	-10216 May 23 j 19:32	1°♈47'39	
conjunction	-10216 Jun 09 j 22:44	3°♈45'49	-0°05'20
minimum elong	-10216 Jun 09 j 22:44	3°♈45'49	0°05'22
behind sun begin	-10216 Jun 09 j 15:56	3°♈43'52	
behind sun end	-10216 Jun 10 j 05:33	3°♈47'46	
max. Earth dist.	-10216 Jun 09 j 17:56	3°♈44'27	11.13685 AU
morning rise	-10216 Jun 26 j 20:42	5°♈42'33	
asc. node	-10216 Aug 18 j 19:35	10°♈47'47	
retrograde	-10216 Oct 02 j 15:34	12°♈26'07	
opposition	-10216 Dec 10 j 17:12	9°♈10'47	0°10'34
min. Earth dist.	-10216 Dec 10 j 23:22	9°♈09'39	9.18188 AU
direct	-10215 Feb 20 j 13:26	5°♈49'19	
evening set	-10215 Jun 04 j 05:53	12°♈50'48	
conjunction	-10215 Jun 21 j 05:10	14°♈47'03	0°23'07
minimum elong	-10215 Jun 21 j 05:09	14°♈47'03	0°23'12
max. Earth dist.	-10215 Jun 20 j 19:12	14°♈44'12	11.22060 AU
morning rise	-10215 Jul 07 j 23:41	16°♈42'03	
retrograde	-10215 Oct 13 j 18:32	23°♈22'13	
opposition	-10215 Dec 22 j 06:00	20°♈07'35	0°44'31
min. Earth dist.	-10215 Dec 22 j 16:56	20°♈05'34	9.25177 AU
direct	-10214 Mar 04 j 07:37	16°♈47'08	
evening set	-10214 Jun 15 j 10:37	23°♈44'05	
conjunction	-10214 Jul 02 j 06:02	25°♈38'51	0°50'15
minimum elong	-10214 Jul 02 j 06:00	25°♈38'50	0°50'28
max. Earth dist.	-10214 Jul 01 j 14:46	25°♈34'28	11.27514 AU
morning rise	-10214 Jul 18 j 21:28	27°♈32'32	
	-10214 Aug 10 j 21:22	0°♉	
retrograde	-10214 Oct 24 j 20:16	4°♉11'30	
opposition	-10213 Jan 02 j 17:33	0°♉57'08	1°16'29
min. Earth dist.	-10213 Jan 03 j 07:54	0°♉54'31	9.29126 AU
	-10213 Jan 15 j 23:17	30°♈℞	
direct	-10213 Mar 15 j 21:07	27°♈37'32	
	-10213 May 11 j 12:41	0°♉	
evening set	-10213 Jun 26 j 11:23	4°♉31'34	
max. Earth dist.	-10213 Jul 12 j 08:45	6°♉19'58	11.29824 AU
conjunction	-10213 Jul 13 j 03:20	6°♉25'17	1°15'25
minimum elong	-10213 Jul 13 j 03:18	6°♉25'16	1°15'43
morning rise	-10213 Jul 29 j 15:51	8°♉18'08	
retrograde	-10213 Nov 05 j 01:18	14°♉58'07	
opposition	-10212 Jan 14 j 05:24	11°♉43'38	1°45'37
min. Earth dist.	-10212 Jan 14 j 22:29	11°♉40'32	9.29852 AU
direct	-10212 Mar 26 j 08:51	8°♉24'40	
	-10212 Jul 03 j 19:35	15°♉	
evening set	-10212 Jul 06 j 10:10	15°♉17'30	
conjunction	-10212 Jul 22 j 23:05	17°♉10'41	1°37'53
minimum elong	-10212 Jul 22 j 23:02	17°♉10'40	1°38'16
max. Earth dist.	-10212 Jul 22 j 01:41	17°♉04'32	11.28868 AU
morning rise	-10212 Aug 08 j 09:08	19°♉03'11	
retrograde	-10212 Nov 15 j 08:24	25°♉46'18	
opposition	-10211 Jan 24 j 18:59	22°♉31'23	2°11'07
min. Earth dist.	-10211 Jan 25 j 15:03	22°♉27'44	9.27314 AU
direct	-10211 Apr 06 j 16:48	19°♉12'48	
evening set	-10211 Jul 17 j 08:42	26°♉06'11	
conjunction	-10211 Aug 02 j 18:59	27°♉59'19	1°56'58
minimum elong	-10211 Aug 02 j 18:56	27°♉59'18	1°57'25
max. Earth dist.	-10211 Aug 01 j 18:11	27°♉52'09	11.24698 AU
morning rise	-10211 Aug 19 j 03:29	29°♉52'03	
	-10211 Aug 20 j 07:35	0°♊	
retrograde	-10211 Nov 26 j 19:29	6°♊40'21	
opposition	-10210 Feb 05 j 11:49	3°♊24'38	2°32'11
min. Earth dist.	-10210 Feb 06 j 10:31	3°♊20'30	9.21624 AU
direct	-10210 Apr 18 j 02:31	0°♊06'10	
evening set	-10210 Jul 28 j 08:43	7°♊01'44	
conjunction	-10210 Aug 13 j 17:09	8°♊55'22	2°11'59
minimum elong	-10210 Aug 13 j 17:06	8°♊55'21	2°12'30
max. Earth dist.	-10210 Aug 12 j 14:32	8°♊47'36	11.17491 AU
morning rise	-10210 Aug 30 j 00:51	10°♊48'52	
retrograde	-10210 Dec 08 j 13:11	17°♊44'17	
opposition	-10209 Feb 17 j 09:07	14°♊27'24	2°48'03
min. Earth dist.	-10209 Feb 18 j 08:42	14°♊23'06	9.13004 AU
direct	-10209 Apr 29 j 14:55	11°♊08'50	
evening set	-10209 Aug 08 j 11:48	18°♊08'03	
conjunction	-10209 Aug 24 j 19:30	20°♊02'45	2°22'18
minimum elong	-10209 Aug 24 j 19:28	20°♊02'45	2°22'53
max. Earth dist.	-10209 Aug 23 j 17:10	19°♊54'59	11.07511 AU
morning rise	-10209 Sep 10 j 03:14	21°♊57'37	
retrograde	-10209 Dec 20 j 15:12	29°♊01'58	
opposition	-10208 Feb 29 j 12:18	25°♊43'34	2°57'54
min. Earth dist.	-10208 Mar 01 j 11:11	25°♊39'22	9.01757 AU
direct	-10208 May 10 j 06:26	22°♊24'40	
evening set	-10208 Aug 18 j 19:43	29°♊28'59	
	-10208 Aug 23 j 05:12	0°♋	
max. Earth dist.	-10208 Sep 03 j 01:56	1°♋17'39	10.95101 AU
conjunction	-10208 Sep 04 j 03:43	1°♋25'22	2°27'18
minimum elong	-10208 Sep 04 j 03:42	1°♋25'21	2°27'54
morning rise	-10208 Sep 20 j 12:40	3°♋22'11	
retrograde	-10207 Jan 01 j 03:30	10°♋37'05	
opposition	-10207 Mar 12 j 22:29	7°♋16'57	3°00'58
min. Earth dist.	-10207 Mar 13 j 20:27	7°♋12'52	8.88270 AU
direct	-10207 May 22 j 02:12	3°♋57'28	
evening set	-10207 Aug 30 j 10:28	11°♋08'16	
conjunction	-10207 Sep 15 j 19:47	13°♋06'55	2°26'23
minimum elong	-10207 Sep 15 j 19:48	13°♋06'55	2°26'58
max. Earth dist.	-10207 Sep 14 j 18:40	12°♋59'17	10.80707 AU
morning rise	-10207 Oct 02 j 07:18	15°♋06'19	
retrograde	-10206 Jan 13 j 23:41	22°♋33'09	
opposition	-10206 Mar 25 j 16:32	19°♋11'07	2°56'30
min. Earth dist.	-10206 Mar 26 j 13:10	19°♋07'13	8.73045 AU
direct	-10206 Jun 03 j 03:09	15°♋50'51	
evening set	-10206 Sep 11 j 09:32	23°♋09'27	
conjunction	-10206 Sep 27 j 21:32	25°♋10'56	2°19'05
minimum elong	-10206 Sep 27 j 21:35	25°♋10'57	2°19'37

Attention, astronomical year style is used: The year -10206 in astronomical counting style is the year 10207 BCE in historical counting style.

max. Earth dist.	-10206 Sep 26 j 22:47	25°♋03'54	10.64882 AU	
morning rise	-10206 Oct 14 j 12:52	27°♋13'30		
	-10206 Nov 07 j 13:37	0°♌		
retrograde	-10205 Jan 27 j 07:11	4°♌53'26		
opposition	-10205 Apr 07 j 19:32	1°♌29'21	2°43'55	
min. Earth dist.	-10205 Apr 08 j 13:32	1°♌25'54	8.56693 AU	
	-10205 Apr 27 j 23:15	30°℞♋		
direct	-10205 Jun 15 j 14:36	28°♋08'10		
	-10205 Aug 01 j 05:46	0°♌		
evening set	-10205 Sep 23 j 18:40	5°♌35'37		
conjunction	-10205 Oct 10 j 10:45	7°♌40'31	2°05'05	
minimum elong	-10205 Oct 10 j 10:49	7°♌40'32	2°05'34	
max. Earth dist.	-10205 Oct 09 j 16:29	7°♌34'46	10.48279 AU	
morning rise	-10205 Oct 27 j 06:56	9°♌46'46		
	-10205 Dec 14 j 09:21	15°♌		
retrograde	-10204 Feb 10 j 03:44	17°♌40'28		
	-10204 Apr 10 j 10:30	15°℞♌		
opposition	-10204 Apr 20 j 07:48	14°♌14'18	2°22'53	
min. Earth dist.	-10204 Apr 20 j 21:32	14°♌11'38	8.39929 AU	
direct	-10204 Jun 27 j 09:44	10°♌52'06		
	-10204 Sep 05 j 21:28	15°♌		
evening set	-10204 Oct 05 j 15:50	18°♌29'17		
conjunction	-10204 Oct 22 j 13:06	20°♌37'59	1°44'23	
minimum elong	-10204 Oct 22 j 13:10	20°♌38'01	1°44'47	
max. Earth dist.	-10204 Oct 21 j 23:56	20°♌33'47	10.31651 AU	
morning rise	-10204 Nov 08 j 15:05	22°♌48'19		
	-10203 Jan 21 j 08:58	0°♍		
retrograde	-10203 Feb 23 j 12:21	0°♍55'46		
	-10203 Mar 29 j 00:01	30°℞♌		
opposition	-10203 May 04 j 05:15	27°♌27'38	1°53'33	
min. Earth dist.	-10203 May 04 j 13:49	27°♌25'57	8.23563 AU	
direct	-10203 Jul 10 j 13:05	24°♌04'19		
	-10203 Oct 04 j 01:27	0°♍		
evening set	-10203 Oct 19 j 02:18	1°♍51'49		
conjunction	-10203 Nov 05 j 05:23	4°♍04'33	1°17'24	
minimum elong	-10203 Nov 05 j 05:27	4°♍04'34	1°17'42	
max. Earth dist.	-10203 Nov 04 j 21:46	4°♍02'04	10.15853 AU	
morning rise	-10203 Nov 22 j 13:50	6°♍19'05		
retrograde	-10202 Mar 10 j 06:46	14°♍39'34		
opposition	-10202 May 18 j 11:51	11°♍09'40	1°16'41	
min. Earth dist.	-10202 May 18 j 14:59	11°♍09'02	8.08493 AU	
direct	-10202 Jul 24 j 03:53	7°♍45'11		
evening set	-10202 Nov 02 j 02:43	15°♍43'05		
conjunction	-10202 Nov 19 j 11:56	17°♍59'46	0°45'08	
minimum elong	-10202 Nov 19 j 11:58	17°♍59'47	0°45'19	
max. Earth dist.	-10202 Nov 19 j 10:23	17°♍59'16	10.01795 AU	
morning rise	-10202 Dec 07 j 02:58	20°♍18'21		
retrograde	-10201 Mar 25 j 10:07	28°♍50'12		
opposition	-10201 Jun 02 j 02:24	25°♍18'50	0°33'52	
min. Earth dist.	-10201 Jun 02 j 00:10	25°♍19'17	7.95645 AU	
direct	-10201 Aug 07 j 05:00	21°♍53'10		
evening set	-10201 Nov 16 j 17:28	0°♎01'01		
	-10201 Nov 16 j 14:22	0°♎		
conjunction	-10201 Dec 04 j 08:38	2°♎21'13	0°09'16	
minimum elong	-10201 Dec 04 j 08:38	2°♎21'14	0°09'19	
behind sun begin	-10201 Dec 04 j 02:32	2°♎19'13		
behind sun end	-10201 Dec 04 j 14:44	2°♎23'14		
max. Earth dist.	-10201 Dec 04 j 13:44	2°♎22'54	9.90380 AU	
morning rise	-10201 Dec 22 j 05:39	4°♎43'20		
desc. node	-10200 Mar 08 j 09:11	12°♎30'50		
retrograde	-10200 Apr 08 j 19:54	13°♎23'48		
opposition	-10200 Jun 15 j 22:53	9°♎51'23	-0°12'21	
min. Earth dist.	-10200 Jun 15 j 15:39	9°♎52'53	7.85891 AU	
direct	-10200 Aug 20 j 15:37	6°♎24'34		
evening set	-10200 Nov 30 j 21:15	14°♎41'10		
conjunction	-10200 Dec 18 j 17:37	17°♎04'09	-0°28'02	
minimum elong	-10200 Dec 18 j 17:35	17°♎04'08	0°28'08	
max. Earth dist.	-10200 Dec 19 j 05:46	17°♎08'14	9.82414 AU	
morning rise	-10199 Jan 05 j 19:19	19°♎28'50		
retrograde	-10199 Apr 24 j 08:41	28°♎14'19		
opposition	-10199 Jun 30 j 23:08	24°♎41'21	-0°58'41	
min. Earth dist.	-10199 Jun 30 j 10:58	24°♎43'53	7.79950 AU	
direct	-10199 Sep 04 j 10:28	21°♎13'30		
evening set	-10199 Dec 16 j 11:23	29°♎36'51		
	-10199 Dec 19 j 09:22	0°♏		
conjunction	-10198 Jan 03 j 11:41	2°♏01'30	-1°03'54	
minimum elong	-10198 Jan 03 j 11:37	2°♏01'29	1°04'09	
max. Earth dist.	-10198 Jan 04 j 06:39	2°♏07'54	9.78514 AU	
morning rise	-10198 Jan 21 j 16:21	4°♏27'33		
retrograde	-10198 May 09 j 20:44	13°♏13'45		
min. Earth dist.	-10198 Jul 15 j 07:34	9°♏44'17	7.78294 AU	
opposition	-10198 Jul 16 j 00:15	9°♏40'46	-1°41'30	
direct	-10198 Sep 19 j 11:53	6°♏12'04		
evening set	-10197 Jan 01 j 08:23	14°♏39'26		
	-10197 Jan 03 j 22:44	15°♏		
conjunction	-10197 Jan 19 j 11:08	17°♏04'32	-1°35'36	
minimum elong	-10197 Jan 19 j 11:03	17°♏04'31	1°35'59	
max. Earth dist.	-10197 Jan 20 j 11:45	17°♏12'49	9.79019 AU	
morning rise	-10197 Feb 06 j 16:55	19°♏30'34		
retrograde	-10197 May 25 j 03:58	28°♏12'54		
opposition	-10197 Jul 30 j 23:04	24°♏40'29	-2°17'19	
min. Earth dist.	-10197 Jul 30 j 02:54	24°♏44'44	7.81072 AU	
direct	-10197 Oct 04 j 16:04	21°♏11'10		
evening set	-10196 Jan 17 j 07:25	29°♏39'16		
	-10196 Jan 19 j 22:43	0°♐		
conjunction	-10196 Feb 04 j 11:05	2°♐03'36	-2°00'42	
minimum elong	-10196 Feb 04 j 11:01	2°♐03'34	2°01'11	
max. Earth dist.	-10196 Feb 05 j 15:41	2°♐13'08	9.83911 AU	
morning rise	-10196 Feb 22 j 16:15	4°♐28'20		
retrograde	-10196 Jun 08 j 03:08	13°♐02'30		
opposition	-10196 Aug 13 j 17:00	9°♐31'11	-2°43'26	
min. Earth dist.	-10196 Aug 12 j 18:37	9°♐35'53	7.88068 AU	
direct	-10196 Oct 18 j 19:37	6°♐01'32		
evening set	-10195 Feb 01 j 03:15	14°♐26'52		
conjunction	-10195 Feb 19 j 06:29	16°♐49'22	-2°17'31	
minimum elong	-10195 Feb 19 j 06:26	16°♐49'21	2°18'04	
max. Earth dist.	-10195 Feb 20 j 13:06	16°♐59'27	9.92814 AU	
morning rise	-10195 Mar 09 j 09:39	19°♐11'45		
retrograde	-10195 Jun 22 j 16:01	27°♐34'16		
min. Earth dist.	-10195 Aug 27 j 04:47	24°♐09'15	7.98743 AU	
opposition	-10195 Aug 28 j 03:37	24°♐04'29	-2°58'21	
direct	-10195 Nov 02 j 19:26	20°♐34'49		
evening set	-10194 Feb 16 j 15:18	28°♐54'09		
	-10194 Feb 25 j 04:38	0°♑		
conjunction	-10194 Mar 06 j 17:09	1°♑14'02	-2°25'17	
minimum elong	-10194 Mar 06 j 17:08	1°♑14'02	2°25'51	
max. Earth dist.	-10194 Mar 07 j 23:19	1°♑23'50	10.05059 AU	
morning rise	-10194 Mar 24 j 17:31	3°♑33'22		
retrograde	-10194 Jul 06 j 17:10	11°♑41'48		
min. Earth dist.	-10194 Sep 10 j 07:44	8°♑18'16	8.12303 AU	
opposition	-10194 Sep 11 j 05:07	8°♑13'52	-3°01'50	
direct	-10194 Nov 17 j 12:42	4°♑44'27		
evening set	-10193 Mar 03 j 16:07	12°♑55'15		

Attention, astronomical year style is used: The year -10193 in astronomical counting style is the year 10194 BCE in historical counting style.

conjunction	-10193 Mar 21 j 15:54	15°♑12'04	-2°24'11
minimum elong	-10193 Mar 21 j 15:55	15°♑12'04	2°24'45
max. Earth dist.	-10193 Mar 22 j 19:04	15°♑20'44	10.19732 AU
morning rise	-10193 Apr 08 j 13:02	17°♑27'56	
retrograde	-10193 Jul 20 j 05:47	25°♑21'11	
opposition	-10193 Sep 24 j 20:48	21°♑55'16	-2°54'42
min. Earth dist.	-10193 Sep 24 j 02:16	21°♑59'03	8.27758 AU
direct	-10193 Dec 01 j 22:52	18°♑26'26	
evening set	-10192 Mar 17 j 03:32	26°♑27'04	
conjunction	-10192 Apr 04 j 00:47	28°♑40'36	-2°15'04
minimum elong	-10192 Apr 04 j 00:49	28°♑40'36	2°15'35
max. Earth dist.	-10192 Apr 04 j 23:05	28°♑47'35	10.35795 AU
	-10192 Apr 14 j 15:05	0°♒	
morning rise	-10192 Apr 21 j 18:28	0°♒52'55	
retrograde	-10192 Aug 01 j 04:09	8°♒31'06	
min. Earth dist.	-10192 Oct 06 j 11:23	5°♒10'20	8.44101 AU
opposition	-10192 Oct 07 j 02:26	5°♒07'19	-2°38'28
direct	-10192 Dec 14 j 23:57	1°♒39'21	
evening set	-10191 Mar 31 j 00:51	9°♒29'08	
conjunction	-10191 Apr 17 j 19:18	11°♒39'23	-1°59'13
minimum elong	-10191 Apr 17 j 19:22	11°♒39'24	1°59'41
max. Earth dist.	-10191 Apr 18 j 12:00	11°♒44'31	10.52308 AU
morning rise	-10191 May 05 j 09:29	13°♒48'15	
	-10191 May 15 j 11:54	15°♒	
retrograde	-10191 Aug 13 j 16:13	21°♒12'25	
opposition	-10191 Oct 19 j 22:34	17°♒50'40	-2°14'58
min. Earth dist.	-10191 Oct 19 j 10:48	17°♒52'59	8.60496 AU
	-10191 Dec 01 j 15:00	15°℞♒	
direct	-10191 Dec 28 j 14:10	14°♒23'48	
	-10190 Jan 24 j 11:22	15°♒	
evening set	-10190 Apr 13 j 08:18	22°♒02'40	
conjunction	-10190 Apr 30 j 23:49	24°♒09'48	-1°38'06
minimum elong	-10190 Apr 30 j 23:52	24°♒09'49	1°38'29
max. Earth dist.	-10190 May 01 j 11:30	24°♒13'20	10.68507 AU
morning rise	-10190 May 18 j 10:23	26°♒15'24	
	-10190 Jun 21 j 17:07	0°♓	
retrograde	-10190 Aug 25 j 19:56	3°♓27'01	
opposition	-10190 Nov 01 j 10:09	0°♓07'08	-1°46'06
min. Earth dist.	-10190 Nov 01 j 02:13	0°♓08'41	8.76235 AU
	-10190 Nov 02 j 22:56	30°℞♒	
direct	-10189 Jan 10 j 17:08	26°♒41'28	
	-10189 Mar 17 j 21:46	0°♓	
evening set	-10189 Apr 26 j 03:05	4°♓09'56	
conjunction	-10189 May 13 j 15:20	6°♓14'09	-1°13'12
minimum elong	-10189 May 13 j 15:23	6°♓14'10	1°13'30
max. Earth dist.	-10189 May 13 j 22:06	6°♓16'09	10.83711 AU
morning rise	-10189 May 30 j 22:08	8°♓16'46	
retrograde	-10189 Sep 06 j 13:57	15°♓17'39	
opposition	-10189 Nov 13 j 14:19	11°♓59'25	-1°13'39
min. Earth dist.	-10189 Nov 13 j 11:05	12°♓00'02	8.90695 AU
direct	-10188 Jan 23 j 11:39	8°♓34'56	
evening set	-10188 May 07 j 10:27	15°♓53'59	
conjunction	-10188 May 24 j 19:04	17°♓55'30	-0°45'54
minimum elong	-10188 May 24 j 19:06	17°♓55'30	0°46'06
max. Earth dist.	-10188 May 24 j 20:13	17°♓55'50	10.97336 AU
morning rise	-10188 Jun 10 j 22:13	19°♓55'27	
retrograde	-10188 Sep 17 j 01:51	26°♓47'42	
opposition	-10188 Nov 24 j 12:24	23°♓30'49	-0°39'13
min. Earth dist.	-10188 Nov 24 j 14:10	23°♓30'29	9.03344 AU
direct	-10187 Feb 03 j 21:13	20°♓07'30	
evening set	-10187 May 19 j 07:44	27°♓18'21	

conjunction	-10187 Jun 05 j 12:30	29°♓17'29	-0°17'27
minimum elong	-10187 Jun 05 j 12:31	29°♓17'29	0°17'31
max. Earth dist.	-10187 Jun 05 j 07:30	29°♓16'02	11.08892 AU
	-10187 Jun 11 j 14:55	0°♈	
morning rise	-10187 Jun 22 j 12:12	1°♈15'09	
retrograde	-10187 Sep 28 j 07:08	8°♈00'57	
opposition	-10187 Dec 06 j 05:30	4°♈45'04	-0°04'10
min. Earth dist.	-10187 Dec 06 j 11:15	4°♈43'59	9.13727 AU
asc. node	-10186 Jan 19 j 18:51	1°♈57'04	
direct	-10186 Feb 15 j 23:28	1°♈22'50	
evening set	-10186 May 30 j 20:54	8°♈26'56	
conjunction	-10186 Jun 16 j 21:53	10°♈24'03	0°11'12
minimum elong	-10186 Jun 16 j 21:53	10°♈24'02	0°11'15
behind sun begin	-10186 Jun 16 j 16:41	10°♈22'34	
behind sun end	-10186 Jun 17 j 03:05	10°♈25'31	
max. Earth dist.	-10186 Jun 16 j 12:15	10°♈21'17	11.17981 AU
morning rise	-10186 Jul 03 j 18:04	12°♈19'50	
retrograde	-10186 Oct 09 j 11:54	19°♈01'23	
opposition	-10186 Dec 17 j 19:06	15°♈46'09	0°30'19
min. Earth dist.	-10186 Dec 18 j 04:16	15°♈44'28	9.21494 AU
direct	-10185 Feb 27 j 20:53	12°♈24'54	
evening set	-10185 Jun 11 j 03:42	19°♈23'50	
max. Earth dist.	-10185 Jun 27 j 11:48	21°♈15'33	11.24310 AU
conjunction	-10185 Jun 28 j 00:58	21°♈19'19	0°38'56
minimum elong	-10185 Jun 28 j 00:57	21°♈19'19	0°39'06
morning rise	-10185 Jul 14 j 17:41	23°♈13'36	
retrograde	-10185 Oct 20 j 14:30	29°♈53'06	
opposition	-10185 Dec 29 j 07:05	26°♈38'13	1°03'14
min. Earth dist.	-10185 Dec 29 j 20:02	26°♈35'50	9.26412 AU
direct	-10184 Mar 10 j 10:25	23°♈17'49	
	-10184 Jun 19 j 06:36	0°♉	
evening set	-10184 Jun 21 j 05:51	0°♉13'12	
conjunction	-10184 Jul 07 j 23:23	2°♉07'27	1°05'02
minimum elong	-10184 Jul 07 j 23:21	2°♉07'26	1°05'18
max. Earth dist.	-10184 Jul 07 j 06:04	2°♉02'29	11.27702 AU
morning rise	-10184 Jul 24 j 13:06	4°♉00'44	
retrograde	-10184 Oct 30 j 17:11	10°♉40'21	
opposition	-10183 Jan 08 j 18:40	7°♉25'28	1°33'41
min. Earth dist.	-10183 Jan 09 j 11:27	7°♉22'24	9.28348 AU
direct	-10183 Mar 21 j 22:05	4°♉05'42	
evening set	-10183 Jul 02 j 05:19	10°♉59'15	
conjunction	-10183 Jul 18 j 19:27	12°♉52'44	1°28'44
minimum elong	-10183 Jul 18 j 19:24	12°♉52'43	1°29'05
max. Earth dist.	-10183 Jul 17 j 22:16	12°♉46'39	11.28074 AU
morning rise	-10183 Aug 04 j 06:42	14°♉45'28	
	-10183 Aug 06 j 10:35	15°♉	
retrograde	-10183 Nov 10 j 21:33	21°♉27'16	
opposition	-10182 Jan 20 j 07:02	18°♉12'05	2°00'50
min. Earth dist.	-10182 Jan 21 j 02:23	18°♉08'34	9.27243 AU
	-10182 Mar 20 j 22:56	15°℞♉	
direct	-10182 Apr 02 j 07:53	14°♉52'49	
	-10182 Apr 14 j 15:35	15°♉	
evening set	-10182 Jul 13 j 03:38	21°♉46'09	
conjunction	-10182 Jul 29 j 15:02	23°♉39'22	1°49'21
minimum elong	-10182 Jul 29 j 14:58	23°♉39'21	1°49'46
max. Earth dist.	-10182 Jul 28 j 16:00	23°♉32'43	11.25412 AU
morning rise	-10182 Aug 15 j 00:13	25°♉32'03	
	-10182 Sep 28 j 20:19	0°♊	
retrograde	-10182 Nov 22 j 07:22	2°♊18'09	
	-10181 Jan 18 j 12:27	30°℞♉	
opposition	-10181 Jan 31 j 22:07	29°♉02'20	2°23'54
min. Earth dist.	-10181 Feb 01 j 18:35	28°♉58'36	9.23115 AU

Attention, astronomical year style is used: The year -10181 in astronomical counting style is the year 10182 BCE in historical counting style.

direct	-10181 Apr 13 j 17:50	25°♉43'24		
	-10181 Jun 29 j 15:50	0°♊		
evening set	-10181 Jul 24 j 02:34	2°♊38'07		
max. Earth dist.	-10181 Aug 08 j 11:42	4°♊24'32	11.19783 AU	
conjunction	-10181 Aug 09 j 11:53	4°♊31'34	2°06'11	
minimum elong	-10181 Aug 09 j 11:50	4°♊31'33	2°06'40	
morning rise	-10181 Aug 25 j 19:43	6°♊24'45		
retrograde	-10181 Dec 03 j 23:51	13°♊17'05		
opposition	-10180 Feb 12 j 17:22	10°♊00'22	2°42'05	
min. Earth dist.	-10180 Feb 13 j 15:07	9°♊56'23	9.16082 AU	
direct	-10180 Apr 24 j 03:47	6°♊41'34		
evening set	-10180 Aug 03 j 04:09	13°♊39'13		
max. Earth dist.	-10180 Aug 18 j 10:18	15°♊25'54	11.11362 AU	
conjunction	-10180 Aug 19 j 12:04	15°♊33'28	2°18'35	
minimum elong	-10180 Aug 19 j 12:02	15°♊33'27	2°19'08	
morning rise	-10180 Sep 04 j 19:40	17°♊27'44		
retrograde	-10180 Dec 14 j 20:39	24°♊28'08		
opposition	-10179 Feb 23 j 17:49	21°♊10'14	2°54'34	
min. Earth dist.	-10179 Feb 24 j 16:37	21°♊06'03	9.06363 AU	
direct	-10179 May 05 j 16:06	17°♊51'20		
evening set	-10179 Aug 14 j 09:51	24°♊53'29		
conjunction	-10179 Aug 30 j 17:28	26°♊49'05	2°25'54	
minimum elong	-10179 Aug 30 j 17:27	26°♊49'05	2°26'29	
max. Earth dist.	-10179 Aug 29 j 15:24	26°♊41'20	11.00413 AU	
morning rise	-10179 Sep 16 j 01:54	28°♊45'02		
	-10179 Sep 26 j 23:54	0°♋		
retrograde	-10179 Dec 27 j 03:50	5°♋55'15		
opposition	-10178 Mar 08 j 00:53	2°♋35'54	3°00'34	
min. Earth dist.	-10178 Mar 08 j 23:19	2°♋31'45	8.94260 AU	
	-10178 Apr 17 j 07:50	30°℞♊		
direct	-10178 May 17 j 10:59	29°♊16'43		
	-10178 Jun 15 j 22:51	0°♋		
evening set	-10178 Aug 25 j 21:25	6°♋24'42		
max. Earth dist.	-10178 Sep 10 j 05:54	8°♋15'00	10.87289 AU	
conjunction	-10178 Sep 11 j 06:01	8°♋22'17	2°27'32	
minimum elong	-10178 Sep 11 j 06:01	8°♋22'18	2°28'08	
morning rise	-10178 Sep 27 j 16:15	10°♋20'30		
retrograde	-10177 Jan 08 j 21:09	17°♋42'04		
opposition	-10177 Mar 20 j 15:38	14°♋21'03	2°59'19	
min. Earth dist.	-10177 Mar 21 j 11:52	14°♋17'16	8.80193 AU	
direct	-10177 May 29 j 10:13	11°♋01'24		
evening set	-10177 Sep 06 j 16:51	18°♋16'31		
max. Earth dist.	-10177 Sep 22 j 05:53	20°♋10'00	10.72473 AU	
conjunction	-10177 Sep 23 j 03:38	20°♋16'40	2°22'57	
minimum elong	-10177 Sep 23 j 03:40	20°♋16'41	2°23'31	
morning rise	-10177 Oct 09 j 16:59	22°♋17'45		
retrograde	-10176 Jan 22 j 01:27	29°♋51'52		
opposition	-10176 Apr 01 j 14:55	26°♋29'01	2°50'10	
min. Earth dist.	-10176 Apr 02 j 08:21	26°♋25'43	8.64705 AU	
direct	-10176 Jun 09 j 16:43	23°♋08'42		
	-10176 Sep 13 j 11:58	0°♌		
evening set	-10176 Sep 17 j 21:47	0°♌32'04		
conjunction	-10176 Oct 04 j 11:57	2°♌35'21	2°11'46	
minimum elong	-10176 Oct 04 j 12:00	2°♌35'22	2°12'17	
max. Earth dist.	-10176 Oct 03 j 16:37	2°♌29'20	10.56558 AU	
morning rise	-10176 Oct 21 j 05:47	4°♌39'53		
retrograde	-10175 Feb 03 j 17:20	12°♌27'19		
opposition	-10175 Apr 14 j 23:20	9°♌02'34	2°32'41	
min. Earth dist.	-10175 Apr 15 j 13:45	8°♌59'48	8.48432 AU	
direct	-10175 Jun 22 j 07:04	5°♌41'22		
evening set	-10175 Sep 30 j 13:51	13°♌13'57		
	-10175 Oct 14 j 14:56	15°♌		
conjunction	-10175 Oct 17 j 08:31	15°♌20'49	1°53'51	
minimum elong	-10175 Oct 17 j 08:35	15°♌20'50	1°54'17	
max. Earth dist.	-10175 Oct 16 j 16:46	15°♌15'49	10.40216 AU	
morning rise	-10175 Nov 03 j 07:54	17°♌29'12		
retrograde	-10174 Feb 17 j 19:48	25°♌30'15		
opposition	-10174 Apr 28 j 17:01	22°♌03'35	2°06'47	
min. Earth dist.	-10174 Apr 29 j 03:58	22°♌01'26	8.32102 AU	
direct	-10174 Jul 05 j 07:16	18°♌41'20		
evening set	-10174 Oct 13 j 18:23	26°♌23'49		
conjunction	-10174 Oct 30 j 18:38	28°♌34'35	1°29'26	
minimum elong	-10174 Oct 30 j 18:42	28°♌34'36	1°29'47	
max. Earth dist.	-10174 Oct 30 j 08:04	28°♌31'10	10.24192 AU	
	-10174 Nov 10 j 20:06	0°♍		
morning rise	-10174 Nov 17 j 00:15	0°♍47'06		
retrograde	-10173 Mar 04 j 08:38	9°♍01'27		
opposition	-10173 May 12 j 19:46	5°♍32'55	1°32'58	
min. Earth dist.	-10173 May 13 j 02:13	5°♍31'38	8.16488 AU	
direct	-10173 Jul 18 j 18:48	2°♍09'30		
evening set	-10173 Oct 27 j 12:33	10°♍02'19		
conjunction	-10173 Nov 13 j 19:02	12°♍17'06	0°59'15	
minimum elong	-10173 Nov 13 j 19:05	12°♍17'07	0°59'29	
max. Earth dist.	-10173 Nov 13 j 14:35	12°♍15'39	10.09268 AU	
morning rise	-10173 Dec 01 j 07:10	14°♍33'46		
retrograde	-10172 Mar 18 j 08:06	23°♍00'20		
opposition	-10172 May 26 j 06:52	19°♍30'10	0°52'27	
min. Earth dist.	-10172 May 26 j 07:59	19°♍29'57	8.02435 AU	
direct	-10172 Jul 31 j 15:32	16°♍05'34		
evening set	-10172 Nov 09 j 21:08	24°♍08'41		
conjunction	-10172 Nov 27 j 09:49	26°♍27'17	0°24'40	
minimum elong	-10172 Nov 27 j 09:51	26°♍27'17	0°24'47	
max. Earth dist.	-10172 Nov 27 j 12:09	26°♍28'03	9.96357 AU	
morning rise	-10172 Dec 15 j 04:06	28°♍47'45		
	-10172 Dec 24 j 13:44	0°♎		
retrograde	-10171 Apr 02 j 15:57	7°♎24'26		
opposition	-10171 Jun 10 j 00:50	3°♎52'57	0°07'22	
min. Earth dist.	-10171 Jun 09 j 20:07	3°♎53'55	7.90922 AU	
desc. node	-10171 Aug 08 j 13:48	0°♎29'26		
direct	-10171 Aug 14 j 21:28	0°♎27'08		
evening set	-10171 Nov 24 j 19:27	8°♎39'46		
conjunction	-10171 Dec 12 j 13:42	11°♎01'32	-0°12'21	
minimum elong	-10171 Dec 12 j 13:41	11°♎01'31	0°12'23	
behind sun begin	-10171 Dec 12 j 08:57	10°♎59'57		
behind sun end	-10171 Dec 12 j 18:26	11°♎03'06		
max. Earth dist.	-10171 Dec 12 j 23:00	11°♎04'38	9.86439 AU	
morning rise	-10171 Dec 30 j 13:16	13°♎25'05		
retrograde	-10170 Apr 18 j 04:32	22°♎08'39		
opposition	-10170 Jun 24 j 23:49	18°♎36'15	-0°39'20	
min. Earth dist.	-10170 Jun 24 j 13:34	18°♎38'22	7.82863 AU	
direct	-10170 Aug 29 j 12:29	15°♎09'12		
evening set	-10170 Dec 10 j 05:28	23°♎29'41		
conjunction	-10170 Dec 28 j 04:13	25°♎53'40	-0°49'07	
minimum elong	-10170 Dec 28 j 04:10	25°♎53'39	0°49'18	
max. Earth dist.	-10170 Dec 28 j 20:05	25°♎59'00	9.80317 AU	
morning rise	-10169 Jan 15 j 07:38	28°♎19'11		
	-10169 Jan 28 j 08:00	0°♏		
retrograde	-10169 May 03 j 17:58	7°♏05'32		
min. Earth dist.	-10169 Jul 09 j 10:15	3°♏35'47	7.78904 AU	
opposition	-10169 Jul 10 j 00:58	3°♏32'42	-1°24'05	
direct	-10169 Sep 13 j 11:12	0°♏04'31		
evening set	-10169 Dec 26 j 00:12	8°♏30'25		

Attention, astronomical year style is used: The year -10168 in astronomical counting style is the year 10169 BCE in historical counting style.

conjunction	-10168 Jan 13 j 01:59	10°♏55'26	-1°22'54	
minimum elong	-10168 Jan 13 j 01:55	10°♏55'25	1°23'14	
max. Earth dist.	-10168 Jan 13 j 23:26	11°♏02'39	9.78483 AU	
morning rise	-10168 Jan 31 j 07:25	13°♏21'36		
	-10168 Feb 13 j 00:09	15°♏		
retrograde	-10168 May 18 j 04:01	22°♏06'07		
min. Earth dist.	-10168 Jul 23 j 07:06	18°♏37'14	7.79353 AU	
opposition	-10168 Jul 24 j 01:08	18°♏33'26	-2°03'15	
direct	-10168 Sep 27 j 14:47	15°♏04'18		
evening set	-10167 Jan 09 j 22:53	23°♏32'30		
conjunction	-10167 Jan 28 j 02:10	25°♏57'19	-1°51'03	
minimum elong	-10167 Jan 28 j 02:05	25°♏57'17	1°51'30	
max. Earth dist.	-10167 Jan 29 j 03:45	26°♏05'53	9.81086 AU	
morning rise	-10167 Feb 15 j 07:47	28°♏22'46		
	-10167 Feb 27 j 22:24	0°♐		
retrograde	-10167 Jun 02 j 06:24	7°♐01'00		
opposition	-10167 Aug 07 j 21:32	3°♐29'00	-2°33'46	
min. Earth dist.	-10167 Aug 07 j 01:23	3°♐33'15	7.84160 AU	
	-10167 Oct 09 j 02:44	30°℞♏		
direct	-10167 Oct 12 j 19:21	29°♏59'12		
	-10167 Oct 16 j 11:46	0°♐		
evening set	-10166 Jan 25 j 20:18	8°♐26'14		
conjunction	-10166 Feb 12 j 23:43	10°♐49'41	-2°11'32	
minimum elong	-10166 Feb 12 j 23:39	10°♐49'40	2°12'04	
max. Earth dist.	-10166 Feb 14 j 03:39	10°♐58'56	9.87910 AU	
morning rise	-10166 Mar 03 j 04:03	13°♐13'16		
retrograde	-10166 Jun 16 j 23:01	21°♐41'22		
opposition	-10166 Aug 22 j 11:29	18°♐10'33	-2°53'34	
min. Earth dist.	-10166 Aug 21 j 14:20	18°♐14'59	7.92927 AU	
direct	-10166 Oct 27 j 21:41	14°♐40'25		
evening set	-10165 Feb 10 j 12:02	23°♐02'55		
conjunction	-10165 Feb 28 j 14:32	25°♐24'07	-2°23'12	
minimum elong	-10165 Feb 28 j 14:30	25°♐24'07	2°23'45	
max. Earth dist.	-10165 Mar 01 j 18:52	25°♐33'23	9.98416 AU	
morning rise	-10165 Mar 18 j 16:27	27°♐44'58		
	-10165 Apr 05 j 19:39	0°♑		
retrograde	-10165 Jul 01 j 04:32	6°♑00'00		
opposition	-10165 Sep 05 j 16:52	2°♑30'46	-3°01'54	
min. Earth dist.	-10165 Sep 04 j 19:38	2°♑35'11	8.04978 AU	
	-10165 Oct 09 j 13:53	30°℞♐		
direct	-10165 Nov 11 j 18:37	29°♐00'41		
	-10165 Dec 14 j 21:40	0°♑		
evening set	-10164 Feb 25 j 17:55	7°♑15'49		
conjunction	-10164 Mar 14 j 18:44	9°♑34'09	-2°25'48	
minimum elong	-10164 Mar 14 j 18:45	9°♑34'09	2°26'23	
max. Earth dist.	-10164 Mar 15 j 22:00	9°♑42'55	10.11828 AU	
morning rise	-10164 Apr 01 j 17:32	11°♑51'43		
retrograde	-10164 Jul 13 j 22:20	19°♑52'01		
opposition	-10164 Sep 18 j 12:49	16°♑24'40	-2°59'09	
min. Earth dist.	-10164 Sep 17 j 16:40	16°♑28'48	8.19470 AU	
direct	-10164 Nov 25 j 08:02	12°♑55'01		
evening set	-10163 Mar 11 j 11:03	21°♑00'35		
conjunction	-10163 Mar 29 j 09:38	23°♑15'44	-2°19'58	
minimum elong	-10163 Mar 29 j 09:40	23°♑15'44	2°20'31	
max. Earth dist.	-10163 Mar 30 j 10:29	23°♑23'35	10.27249 AU	
morning rise	-10163 Apr 16 j 04:56	25°♑29'46		
	-10163 May 26 j 06:46	0°♒		
retrograde	-10163 Jul 27 j 03:02	3°♒14'53		
	-10163 Sep 29 j 19:13	30°℞♑		
opposition	-10163 Oct 01 j 22:45	29°♑49'34	-2°46'35	
min. Earth dist.	-10163 Oct 01 j 05:00	29°♑53'10	8.35494 AU	
direct	-10163 Dec 09 j 12:33	26°♑20'39		
	-10162 Feb 15 j 11:02	0°♒		
evening set	-10162 Mar 25 j 14:23	4°♒15'29		
conjunction	-10162 Apr 12 j 10:21	6°♒27'19	-2°06'48	
minimum elong	-10162 Apr 12 j 10:25	6°♒27'20	2°07'18	
max. Earth dist.	-10162 Apr 13 j 07:19	6°♒33'49	10.43754 AU	
morning rise	-10162 Apr 30 j 02:04	8°♒37'47		
	-10162 Jul 04 j 02:09	15°♒		
retrograde	-10162 Aug 08 j 20:19	16°♒08'10		
	-10162 Sep 14 j 00:31	15°℞♒		
opposition	-10162 Oct 14 j 22:44	12°♒44'59	-2°25'56	
min. Earth dist.	-10162 Oct 14 j 08:52	12°♒47'44	8.52152 AU	
direct	-10162 Dec 23 j 06:11	9°♒17'04		
	-10161 Mar 21 j 18:27	15°♒		
evening set	-10161 Apr 08 j 03:46	17°♒00'47		
conjunction	-10161 Apr 25 j 20:43	19°♒09'21	-1°47'45	
minimum elong	-10161 Apr 25 j 20:47	19°♒09'22	1°48'11	
max. Earth dist.	-10161 Apr 26 j 12:16	19°♒14'05	10.60459 AU	
morning rise	-10161 May 13 j 08:51	21°♒16'25		
retrograde	-10161 Aug 21 j 02:58	28°♒33'19		
opposition	-10161 Oct 27 j 13:48	25°♒12'10	-1°59'06	
min. Earth dist.	-10161 Oct 27 j 04:09	25°♒14'03	8.68611 AU	
direct	-10160 Jan 05 j 13:46	21°♒45'29		
evening set	-10160 Apr 20 j 03:39	29°♒18'21		
	-10160 Apr 26 j 00:44	0°♓		
conjunction	-10160 May 07 j 17:15	1°♓23'49	-1°24'18	
minimum elong	-10160 May 07 j 17:19	1°♓23'50	1°24'38	
max. Earth dist.	-10160 May 08 j 02:36	1°♓26'37	10.76571 AU	
morning rise	-10160 May 25 j 01:50	3°♓27'45		
retrograde	-10160 Aug 31 j 22:47	10°♓32'57		
opposition	-10160 Nov 07 j 20:44	7°♓13'40	-1°27'57	
min. Earth dist.	-10160 Nov 07 j 14:53	7°♓14'48	8.84135 AU	
direct	-10159 Jan 17 j 13:04	3°♓48'20		
evening set	-10159 May 02 j 15:21	11°♓11'11		
conjunction	-10159 May 20 j 01:32	13°♓13'48	-0°57'51	
minimum elong	-10159 May 20 j 01:35	13°♓13'49	0°58'06	
max. Earth dist.	-10159 May 20 j 05:31	13°♓14'59	10.91408 AU	
morning rise	-10159 Jun 06 j 06:29	15°♓14'53		
retrograde	-10159 Sep 12 j 13:49	22°♓10'26		
opposition	-10159 Nov 19 j 20:44	18°♓52'47	-0°54'10	
min. Earth dist.	-10159 Nov 19 j 18:38	18°♓53'11	8.98094 AU	
direct	-10158 Jan 30 j 02:03	15°♓28'51		
evening set	-10158 May 14 j 16:31	22°♓42'51		
conjunction	-10158 May 31 j 23:08	24°♓42'57	-0°29'44	
minimum elong	-10158 May 31 j 23:09	24°♓42'57	0°29'51	
max. Earth dist.	-10158 May 31 j 22:32	24°♓42'46	11.04384 AU	
morning rise	-10158 Jun 18 j 00:20	26°♓41'31		
	-10158 Jul 19 j 04:05	0°♈		
retrograde	-10158 Sep 23 j 22:50	3°♈29'36		
opposition	-10158 Dec 01 j 15:32	0°♈13'18	-0°19'12	
min. Earth dist.	-10158 Dec 01 j 18:03	0°♈12'50	9.09964 AU	
	-10158 Dec 04 j 14:36	30°℞♓		
direct	-10157 Feb 11 j 05:52	26°♓50'43		
	-10157 Apr 17 j 22:28	0°♈		
evening set	-10157 May 26 j 08:58	3°♈57'18		
conjunction	-10157 Jun 12 j 11:42	5°♈55'10	-0°01'04	
minimum elong	-10157 Jun 12 j 11:42	5°♈55'10	0°01'04	
behind sun begin	-10157 Jun 12 j 04:39	5°♈53'09		
behind sun end	-10157 Jun 12 j 18:44	5°♈57'11		
max. Earth dist.	-10157 Jun 12 j 05:54	5°♈53'32	11.15028 AU	
asc. node	-10157 Jun 26 j 06:00	7°♈30'16		
morning rise	-10157 Jun 29 j 09:15	7°♈51'38		

Attention, astronomical year style is used: The year -10157 in astronomical counting style is the year 10158 BCE in historical counting style.

retrograde	-10157 Oct 05 j 03:42	14°♈34'28	
opposition	-10157 Dec 13 j 06:32	11°♈19'13	0°15'41
min. Earth dist.	-10157 Dec 13 j 13:55	11°♈17'51	9.19340 AU
direct	-10156 Feb 23 j 04:12	7°♈57'50	
evening set	-10156 Jun 05 j 18:25	14°♈58'32	
conjunction	-10156 Jun 22 j 17:09	16°♈54'34	0°27'13
minimum elong	-10156 Jun 22 j 17:08	16°♈54'34	0°27'20
max. Earth dist.	-10156 Jun 22 j 05:47	16°♈51'19	11.23001 AU
morning rise	-10156 Jul 09 j 11:23	18°♈49'22	
retrograde	-10156 Oct 15 j 05:32	25°♈29'10	
opposition	-10156 Dec 23 j 19:01	22°♈14'32	0°49'24
min. Earth dist.	-10156 Dec 24 j 06:21	22°♈12'28	9.25916 AU
direct	-10155 Mar 05 j 21:00	18°♈54'11	
evening set	-10155 Jun 16 j 22:22	25°♈50'37	
conjunction	-10155 Jul 03 j 17:25	27°♈45'13	0°54'08
minimum elong	-10155 Jul 03 j 17:23	27°♈45'13	0°54'22
max. Earth dist.	-10155 Jul 03 j 01:53	27°♈40'46	11.28038 AU
morning rise	-10155 Jul 20 j 08:29	29°♈38'46	
	-10155 Jul 23 j 12:34	0°♉	
retrograde	-10155 Oct 26 j 08:46	6°♉17'43	
opposition	-10154 Jan 04 j 06:23	3°♉03'20	1°21'00
min. Earth dist.	-10154 Jan 04 j 20:37	3°♉00'45	9.29446 AU
	-10154 Feb 26 j 16:25	30°℞♈	
direct	-10154 Mar 17 j 10:57	29°♈43'49	
	-10154 Apr 05 j 00:38	0°♉	
evening set	-10154 Jun 27 j 22:51	6°♉37'37	
conjunction	-10154 Jul 14 j 14:29	8°♉31'14	1°18'57
minimum elong	-10154 Jul 14 j 14:26	8°♉31'14	1°19'16
max. Earth dist.	-10154 Jul 13 j 19:56	8°♉25'56	11.29935 AU
morning rise	-10154 Jul 31 j 02:35	10°♉24'00	
	-10154 Sep 16 j 03:27	15°♉	
retrograde	-10154 Nov 06 j 13:36	17°♉04'11	
	-10154 Dec 30 j 06:03	15°℞♉	
opposition	-10153 Jan 15 j 18:16	13°♉49'42	1°49'39
min. Earth dist.	-10153 Jan 16 j 11:54	13°♉46'30	9.29774 AU
direct	-10153 Mar 28 j 20:12	10°♉30'49	
	-10153 Jun 16 j 13:57	15°♉	
evening set	-10153 Jul 08 j 21:37	17°♉23'38	
max. Earth dist.	-10153 Jul 24 j 11:45	19°♉10'20	11.28591 AU
conjunction	-10153 Jul 25 j 10:06	19°♉16'46	1°40'57
minimum elong	-10153 Jul 25 j 10:02	19°♉16'45	1°41'21
morning rise	-10153 Aug 10 j 19:55	21°♉09'16	
retrograde	-10153 Nov 17 j 20:18	27°♉52'51	
opposition	-10152 Jan 27 j 08:14	24°♉37'54	2°14'33
min. Earth dist.	-10152 Jan 28 j 05:17	24°♉34'04	9.26847 AU
direct	-10152 Apr 08 j 05:19	21°♉19'20	
evening set	-10152 Jul 18 j 20:10	28°♉12'57	
max. Earth dist.	-10152 Aug 03 j 04:34	29°♉58'42	11.24027 AU
	-10152 Aug 03 j 09:02	0°♊	
conjunction	-10152 Aug 04 j 06:06	0°♊06'06	1°59'28
minimum elong	-10152 Aug 04 j 06:03	0°♊06'05	1°59'56
morning rise	-10152 Aug 20 j 14:30	1°♊58'53	
retrograde	-10152 Nov 28 j 08:49	8°♊47'58	
opposition	-10151 Feb 07 j 01:29	5°♊32'10	2°34'54
min. Earth dist.	-10151 Feb 08 j 00:28	5°♊27'59	9.20753 AU
direct	-10151 Apr 19 j 15:55	2°♊13'44	
evening set	-10151 Jul 29 j 20:31	9°♊09'45	
max. Earth dist.	-10151 Aug 14 j 02:28	10°♊55'46	11.16410 AU
conjunction	-10151 Aug 15 j 04:52	11°♊03'29	2°13'51
minimum elong	-10151 Aug 15 j 04:50	11°♊03'29	2°14'22
morning rise	-10151 Aug 31 j 12:27	12°♊57'08	

retrograde	-10151 Dec 10 j 03:34	19°♊53'37	
opposition	-10150 Feb 18 j 23:20	16°♊36'37	2°49'55
min. Earth dist.	-10150 Feb 19 j 22:39	16°♊32'21	9.11721 AU
direct	-10150 May 01 j 03:51	13°♊18'04	
evening set	-10150 Aug 10 j 00:15	20°♊18'01	
max. Earth dist.	-10150 Aug 25 j 05:30	22°♊05'06	11.06025 AU
conjunction	-10150 Aug 26 j 07:57	22°♊12'56	2°23'25
minimum elong	-10150 Aug 26 j 07:56	22°♊12'55	2°24'00
morning rise	-10150 Sep 11 j 15:41	24°♊08'00	
	-10150 Nov 13 j 01:22	0°♋	
retrograde	-10150 Dec 22 j 08:00	1°♋13'41	
	-10149 Jan 31 j 13:43	30°℞♊	
opposition	-10149 Mar 03 j 03:30	27°♊55'12	2°58'50
min. Earth dist.	-10149 Mar 04 j 02:32	27°♊50'57	9.00083 AU
direct	-10149 May 12 j 19:44	24°♊36'17	
	-10149 Aug 06 j 12:54	0°♋	
evening set	-10149 Aug 21 j 09:06	1°♋41'33	
conjunction	-10149 Sep 06 j 17:06	3°♋38'13	2°27'35
minimum elong	-10149 Sep 06 j 17:06	3°♋38'13	2°28'10
max. Earth dist.	-10149 Sep 05 j 14:26	3°♋30'13	10.93259 AU
morning rise	-10149 Sep 23 j 02:21	5°♋35'22	
retrograde	-10148 Jan 03 j 19:49	12°♋51'51	
opposition	-10148 Mar 14 j 14:58	9°♋31'35	3°00'49
min. Earth dist.	-10148 Mar 15 j 13:35	9°♋27'23	8.86266 AU
direct	-10148 May 23 j 15:30	6°♋12'04	
evening set	-10148 Sep 01 j 00:58	13°♋24'04	
max. Earth dist.	-10148 Sep 16 j 09:13	15°♋15'21	10.78576 AU
conjunction	-10148 Sep 17 j 10:32	15°♋23'04	2°25'45
minimum elong	-10148 Sep 17 j 10:33	15°♋23'04	2°26'19
morning rise	-10148 Oct 03 j 22:32	17°♋22'53	
retrograde	-10147 Jan 15 j 17:32	24°♋51'33	
opposition	-10147 Mar 27 j 10:20	21°♋29'19	2°55'12
min. Earth dist.	-10147 Mar 28 j 07:14	21°♋25'22	8.70790 AU
direct	-10147 Jun 04 j 19:54	18°♋08'58	
evening set	-10147 Sep 13 j 01:26	25°♋28'56	
conjunction	-10147 Sep 29 j 13:59	27°♋30'54	2°17'28
minimum elong	-10147 Sep 29 j 14:02	27°♋30'55	2°18'00
max. Earth dist.	-10147 Sep 28 j 16:00	27°♋24'05	10.62541 AU
morning rise	-10147 Oct 16 j 05:49	29°♋33'58	
	-10147 Oct 19 j 20:06	0°♌	
retrograde	-10146 Jan 29 j 04:21	7°♌15'51	
opposition	-10146 Apr 09 j 14:43	3°♌51'33	2°41'22
min. Earth dist.	-10146 Apr 10 j 08:10	3°♌48'12	8.54277 AU
direct	-10146 Jun 17 j 07:39	0°♌30'15	
evening set	-10146 Sep 25 j 12:14	7°♌59'11	
max. Earth dist.	-10146 Oct 11 j 11:31	9°♌59'07	10.45828 AU
conjunction	-10146 Oct 12 j 04:59	10°♌04'37	2°02'28
minimum elong	-10146 Oct 12 j 05:03	10°♌04'38	2°02'56
morning rise	-10146 Oct 29 j 01:46	12°♌11'26	
	-10146 Nov 21 j 21:15	15°♌	
retrograde	-10145 Feb 12 j 02:31	20°♌07'09	
opposition	-10145 Apr 23 j 04:31	16°♌40'45	2°19'06
min. Earth dist.	-10145 Apr 23 j 17:14	16°♌38'16	8.37466 AU
	-10145 May 15 j 17:41	15°℞♌	
direct	-10145 Jun 30 j 03:25	13°♌18'25	
	-10145 Aug 12 j 22:00	15°♌	
evening set	-10145 Oct 08 j 11:18	20°♌57'10	
conjunction	-10145 Oct 25 j 09:13	23°♌06'27	1°40'47
minimum elong	-10145 Oct 25 j 09:17	23°♌06'28	1°41'11
max. Earth dist.	-10145 Oct 24 j 20:23	23°♌02'20	10.29224 AU
morning rise	-10145 Nov 11 j 12:01	25°♌17'22	

Attention, astronomical year style is used: The year -10145 in astronomical counting style is the year 10146 BCE in historical counting style.

	-10145 Dec 22 j 20:48	0°♒	
retrograde	-10144 Feb 26 j 12:03	3°♒26'48	
	-10144 May 05 j 19:35	30°℞♌	
opposition	-10144 May 06 j 03:35	29°♌58'25	1°48'34
min. Earth dist.	-10144 May 06 j 11:26	29°♌56'52	8.21195 AU
direct	-10144 Jul 12 j 09:18	26°♌34'56	
	-10144 Sep 13 j 04:24	0°♒	
evening set	-10144 Oct 20 j 23:48	4°♒24'01	
conjunction	-10144 Nov 07 j 03:34	6°♒37'20	1°12'56
minimum elong	-10144 Nov 07 j 03:38	6°♒37'21	1°13'14
max. Earth dist.	-10144 Nov 06 j 20:05	6°♒34'53	10.13592 AU
morning rise	-10144 Nov 24 j 12:58	8°♒52'28	
retrograde	-10143 Mar 12 j 08:05	17°♒14'45	
opposition	-10143 May 20 j 11:33	13°♒44'36	1°10'41
min. Earth dist.	-10143 May 20 j 14:24	13°♒44'02	8.06362 AU
direct	-10143 Jul 26 j 01:28	10°♒19'54	
evening set	-10143 Nov 04 j 02:17	18°♒19'21	
conjunction	-10143 Nov 21 j 12:12	20°♒36'33	0°40'01
minimum elong	-10143 Nov 21 j 12:14	20°♒36'34	0°40'11
max. Earth dist.	-10143 Nov 21 j 11:08	20°♒36'12	9.99835 AU
morning rise	-10143 Dec 09 j 04:05	22°♒55'42	
	-10142 Feb 14 j 03:25	0°♎	
retrograde	-10142 Mar 27 j 12:48	1°♎29'01	
	-10142 May 08 j 09:54	30°℞♒	
opposition	-10142 Jun 04 j 03:11	27°♒57'26	0°27'12
min. Earth dist.	-10142 Jun 04 j 00:43	27°♒57'56	7.93885 AU
direct	-10142 Aug 09 j 04:06	24°♒31'32	
	-10142 Oct 28 j 11:35	0°♎	
evening set	-10142 Nov 18 j 18:50	2°♎40'46	
conjunction	-10142 Dec 06 j 10:42	5°♎01'24	0°03'49
minimum elong	-10142 Dec 06 j 10:42	5°♎01'24	0°03'50
behind sun begin	-10142 Dec 06 j 03:30	4°♎59'01	
behind sun end	-10142 Dec 06 j 17:55	5°♎03'48	
max. Earth dist.	-10142 Dec 06 j 16:52	5°♎03'26	9.88848 AU
morning rise	-10142 Dec 24 j 08:22	7°♎23'56	
desc. node	-10141 Jan 14 j 02:38	10°♎01'06	
retrograde	-10141 Apr 11 j 23:05	16°♎05'27	
opposition	-10141 Jun 19 j 00:29	12°♎32'51	-0°19'16
min. Earth dist.	-10141 Jun 18 j 16:41	12°♎34'28	7.84623 AU
direct	-10141 Aug 23 j 16:40	9°♎05'48	
evening set	-10141 Dec 04 j 00:10	17°♎23'32	
conjunction	-10141 Dec 21 j 21:10	19°♎46'48	-0°33'29
minimum elong	-10141 Dec 21 j 21:08	19°♎46'48	0°33'37
max. Earth dist.	-10141 Dec 22 j 10:48	19°♎51'23	9.81415 AU
morning rise	-10140 Jan 08 j 23:17	22°♎11'45	
	-10140 Mar 24 j 22:12	0°♏	
retrograde	-10140 Apr 26 j 11:49	0°♏57'43	
	-10140 May 29 j 04:55	30°℞♎	
min. Earth dist.	-10140 Jul 02 j 11:59	27°♎27'21	7.79253 AU
opposition	-10140 Jul 03 j 01:06	27°♎24'37	-1°05'20
direct	-10140 Sep 06 j 13:07	23°♎56'33	
	-10140 Nov 30 j 07:58	0°♏	
evening set	-10140 Dec 18 j 15:35	2°♏20'40	
conjunction	-10139 Jan 05 j 16:19	4°♏45'28	-1°08'55
minimum elong	-10139 Jan 05 j 16:15	4°♏45'27	1°09'12
max. Earth dist.	-10139 Jan 06 j 12:48	4°♏52'22	9.78106 AU
morning rise	-10139 Jan 23 j 21:06	7°♏11'34	
	-10139 Apr 09 j 15:04	15°♏	
retrograde	-10139 May 11 j 23:12	15°♏57'37	
	-10139 Jun 13 j 10:43	15°℞♏	
min. Earth dist.	-10139 Jul 17 j 08:19	12°♏28'19	7.78202 AU
opposition	-10139 Jul 18 j 02:05	12°♏24'35	-1°47'20
direct	-10139 Sep 21 j 14:42	8°♏55'43	
	-10139 Dec 15 j 19:29	15°♏	
evening set	-10138 Jan 03 j 13:06	17°♏23'23	
conjunction	-10138 Jan 21 j 16:02	19°♏48'28	-1°39'48
minimum elong	-10138 Jan 21 j 15:57	19°♏48'26	1°40'12
max. Earth dist.	-10138 Jan 22 j 18:00	19°♏57'11	9.79221 AU
morning rise	-10138 Feb 08 j 21:41	22°♏14'23	
	-10138 Apr 25 j 12:09	0°♐	
retrograde	-10138 May 27 j 05:36	0°♐55'58	
	-10138 Jun 28 j 02:35	30°℞♏	
min. Earth dist.	-10138 Aug 01 j 03:26	27°♏28'00	7.81580 AU
opposition	-10138 Aug 02 j 00:29	27°♏23'34	-2°21'53
direct	-10138 Oct 06 j 17:58	23°♏54'07	
	-10138 Dec 31 j 19:06	0°♐	
evening set	-10137 Jan 19 j 11:52	2°♐22'01	
conjunction	-10137 Feb 06 j 15:31	4°♐46'11	-2°03'46
minimum elong	-10137 Feb 06 j 15:27	4°♐46'10	2°04'16
max. Earth dist.	-10137 Feb 07 j 21:06	4°♐56'02	9.84700 AU
morning rise	-10137 Feb 24 j 20:25	7°♐10'40	
retrograde	-10137 Jun 11 j 04:16	15°♐43'34	
opposition	-10137 Aug 16 j 17:36	12°♐12'21	-2°46'25
min. Earth dist.	-10137 Aug 15 j 18:53	12°♐17'07	7.89129 AU
direct	-10137 Oct 21 j 20:41	8°♐42'37	
evening set	-10136 Feb 04 j 06:59	17°♐07'20	
conjunction	-10136 Feb 22 j 10:02	19°♐29'32	-2°19'16
minimum elong	-10136 Feb 22 j 09:59	19°♐29'31	2°19'50
max. Earth dist.	-10136 Feb 23 j 16:57	19°♐39'42	9.94127 AU
morning rise	-10136 Mar 11 j 12:53	21°♐51'34	
	-10136 Jun 09 j 21:21	0°♑	
retrograde	-10136 Jun 24 j 16:21	0°♑12'24	
	-10136 Jul 09 j 10:18	30°℞♐	
min. Earth dist.	-10136 Aug 29 j 04:33	26°♐47'29	8.00285 AU
opposition	-10136 Aug 30 j 03:05	26°♐42'48	-2°59'38
direct	-10136 Nov 04 j 20:06	23°♐13'06	
	-10135 Feb 06 j 12:09	0°♑	
evening set	-10135 Feb 18 j 17:44	1°♑31'28	
conjunction	-10135 Mar 08 j 19:15	3°♑50'58	-2°25'42
minimum elong	-10135 Mar 08 j 19:15	3°♑50'58	2°26'17
max. Earth dist.	-10135 Mar 10 j 01:06	4°♑00'38	10.06814 AU
morning rise	-10135 Mar 26 j 19:18	6°♑09'53	
retrograde	-10135 Jul 08 j 15:35	14°♑16'23	
min. Earth dist.	-10135 Sep 12 j 06:25	10°♑53'02	8.14248 AU
opposition	-10135 Sep 13 j 03:25	10°♑48'42	-3°01'28
direct	-10135 Nov 19 j 13:29	7°♑19'22	
evening set	-10134 Mar 05 j 16:40	15°♑28'52	
conjunction	-10134 Mar 23 j 16:06	17°♑45'14	-2°23'20
minimum elong	-10134 Mar 23 j 16:07	17°♑45'14	2°23'53
max. Earth dist.	-10134 Mar 24 j 18:41	17°♑53'41	10.21861 AU
morning rise	-10134 Apr 10 j 12:57	20°♑00'39	
retrograde	-10134 Jul 22 j 00:41	27°♑51'52	
opposition	-10134 Sep 26 j 17:39	24°♑26'15	-2°52'51
min. Earth dist.	-10134 Sep 25 j 23:04	24°♑30'02	8.30045 AU
direct	-10134 Dec 03 j 23:10	20°♑57'34	
evening set	-10133 Mar 20 j 02:09	28°♑56'36	
	-10133 Mar 28 j 15:43	0°♒	
conjunction	-10133 Apr 06 j 23:05	1°♒09'39	-2°13'07
minimum elong	-10133 Apr 06 j 23:08	1°♒09'40	2°13'38
max. Earth dist.	-10133 Apr 07 j 21:01	1°♒16'30	10.38238 AU
morning rise	-10133 Apr 24 j 16:27	3°♒21'29	
retrograde	-10133 Aug 03 j 22:03	10°♒57'35	
opposition	-10133 Oct 09 j 21:41	7°♒34'04	-2°35'25

Attention, astronomical year style is used: The year -10133 in astronomical counting style is the year 10134 BCE in historical counting style.

min. Earth dist.	-10133 Oct 09 j 06:11	7°♒37'10	8.46647 AU
direct	-10133 Dec 17 j 21:43	4°♒06'18	
evening set	-10132 Apr 01 j 21:24	11°♒54'17	
conjunction	-10132 Apr 19 j 15:35	14°♒04'04	-1°56'24
minimum elong	-10132 Apr 19 j 15:39	14°♒04'05	1°56'51
max. Earth dist.	-10132 Apr 20 j 08:24	14°♒09'14	10.54937 AU
	-10132 Apr 27 j 06:13	15°♒	
morning rise	-10132 May 07 j 05:19	16°♒12'25	
retrograde	-10132 Aug 15 j 09:30	23°♒34'33	
opposition	-10132 Oct 21 j 16:24	20°♒13'05	-2°11'00
min. Earth dist.	-10132 Oct 21 j 04:29	20°♒15'25	8.63137 AU
direct	-10132 Dec 30 j 09:31	16°♒46'27	
evening set	-10131 Apr 15 j 02:46	24°♒23'30	
conjunction	-10131 May 02 j 17:58	26°♒30'10	-1°34'38
minimum elong	-10131 May 02 j 18:01	26°♒30'11	1°35'00
max. Earth dist.	-10131 May 03 j 05:54	26°♒33'46	10.71140 AU
morning rise	-10131 May 20 j 04:00	28°♒35'18	
	-10131 Jun 01 j 09:20	0°♓	
retrograde	-10131 Aug 27 j 10:42	5°♓45'05	
opposition	-10131 Nov 03 j 02:39	2°♓25'30	-1°41'29
min. Earth dist.	-10131 Nov 02 j 19:27	2°♓26'54	8.78807 AU
	-10131 Dec 08 j 01:15	30°♒℞	
direct	-10130 Jan 12 j 11:36	29°♒00'04	
	-10130 Feb 16 j 18:15	0°♓	
evening set	-10130 Apr 27 j 19:45	6°♓26'53	
conjunction	-10130 May 15 j 07:33	8°♓30'38	-1°09'18
minimum elong	-10130 May 15 j 07:36	8°♓30'39	1°09'34
max. Earth dist.	-10130 May 15 j 13:36	8°♓32'25	10.86200 AU
morning rise	-10130 Jun 01 j 13:56	10°♓32'49	
retrograde	-10130 Sep 08 j 04:20	17°♓32'09	
opposition	-10130 Nov 15 j 05:31	14°♓14'13	-1°08'39
min. Earth dist.	-10130 Nov 15 j 03:25	14°♓14'37	8.93070 AU
direct	-10129 Jan 25 j 04:02	10°♓49'58	
evening set	-10129 May 10 j 01:34	18°♓07'34	
conjunction	-10129 May 27 j 09:40	20°♓08'41	-0°41'45
minimum elong	-10129 May 27 j 09:42	20°♓08'42	0°41'56
max. Earth dist.	-10129 May 27 j 09:18	20°♓08'35	10.99569 AU
morning rise	-10129 Jun 13 j 12:30	22°♓08'16	
retrograde	-10129 Sep 19 j 13:32	28°♓59'16	
opposition	-10129 Nov 27 j 02:34	25°♓42'37	-0°34'03
min. Earth dist.	-10129 Nov 27 j 04:52	25°♓42'11	9.05417 AU
direct	-10128 Feb 06 j 12:55	22°♓19'33	
evening set	-10128 May 20 j 21:30	29°♓29'11	
	-10128 May 25 j 09:37	0°♈	
conjunction	-10128 Jun 07 j 01:50	1°♈27'58	-0°13'13
minimum elong	-10128 Jun 07 j 01:51	1°♈27'58	0°13'16
behind sun begin	-10128 Jun 06 j 21:44	1°♈26'47	
behind sun end	-10128 Jun 07 j 05:58	1°♈29'08	
max. Earth dist.	-10128 Jun 06 j 20:02	1°♈26'17	11.10781 AU
morning rise	-10128 Jun 24 j 01:07	3°♈25'19	
retrograde	-10128 Sep 29 j 19:57	10°♈10'13	
asc. node	-10128 Nov 27 j 08:33	7°♈40'40	
opposition	-10128 Dec 07 j 18:56	6°♈54'31	0°00'59
min. Earth dist.	-10128 Dec 08 j 00:47	6°♈53'25	9.15419 AU
direct	-10127 Feb 17 j 15:22	3°♈32'31	
evening set	-10127 Jun 01 j 09:36	10°♈35'38	
conjunction	-10127 Jun 18 j 10:14	12°♈32'28	0°15'22
minimum elong	-10127 Jun 18 j 10:13	12°♈32'28	0°15'26
behind sun begin	-10127 Jun 18 j 08:06	12°♈31'52	
behind sun end	-10127 Jun 18 j 12:20	12°♈33'04	
max. Earth dist.	-10127 Jun 18 j 00:29	12°♈29'40	11.19460 AU
morning rise	-10127 Jul 05 j 05:54	14°♈27'58	
retrograde	-10127 Oct 10 j 23:57	21°♈08'54	
opposition	-10127 Dec 19 j 08:02	17°♈53'50	0°35'17
min. Earth dist.	-10127 Dec 19 j 17:58	17°♈52'00	9.22754 AU
direct	-10126 Mar 01 j 08:51	14°♈32'47	
evening set	-10126 Jun 12 j 15:40	21°♈30'59	
conjunction	-10126 Jun 29 j 12:29	23°♈26'15	0°42'55
minimum elong	-10126 Jun 29 j 12:27	23°♈26'15	0°43'05
max. Earth dist.	-10126 Jun 28 j 22:21	23°♈22'12	11.25333 AU
morning rise	-10126 Jul 16 j 04:49	25°♈20'21	
	-10126 Sep 01 j 23:47	0°♉	
retrograde	-10126 Oct 22 j 01:35	1°♉59'32	
	-10126 Dec 13 j 05:21	30°℞♈	
opposition	-10126 Dec 30 j 19:42	28°♈44'45	1°07'54
min. Earth dist.	-10126 Dec 31 j 10:02	28°♈42'07	9.27205 AU
direct	-10125 Mar 12 j 23:22	25°♈24'27	
	-10125 Jun 02 j 01:03	0°♉	
evening set	-10125 Jun 23 j 17:21	2°♉19'24	
conjunction	-10125 Jul 10 j 10:23	4°♉13'30	1°08'42
minimum elong	-10125 Jul 10 j 10:21	4°♉13'29	1°08'59
max. Earth dist.	-10125 Jul 09 j 15:35	4°♉08'06	11.28244 AU
morning rise	-10125 Jul 26 j 23:51	6°♉06'38	
retrograde	-10125 Nov 02 j 04:27	12°♉46'14	
opposition	-10124 Jan 11 j 07:11	9°♉31'23	1°37'55
min. Earth dist.	-10124 Jan 12 j 00:38	9°♉28'12	9.28650 AU
direct	-10124 Mar 23 j 11:04	6°♉11'42	
evening set	-10124 Jul 03 j 16:27	13°♉05'01	
max. Earth dist.	-10124 Jul 19 j 08:45	14°♉52'15	11.28120 AU
conjunction	-10124 Jul 20 j 06:15	14°♉58'25	1°32'00
minimum elong	-10124 Jul 20 j 06:11	14°♉58'24	1°32'21
	-10124 Jul 20 j 11:45	15°♉	
morning rise	-10124 Aug 05 j 17:11	16°♉51'06	
retrograde	-10124 Nov 12 j 09:52	23°♉33'13	
opposition	-10123 Jan 21 j 19:46	20°♉17'57	2°04'31
min. Earth dist.	-10123 Jan 22 j 15:04	20°♉14'26	9.27045 AU
direct	-10123 Apr 03 j 20:47	16°♉58'43	
evening set	-10123 Jul 14 j 14:39	23°♉52'03	
max. Earth dist.	-10123 Jul 30 j 02:43	25°♉38'35	11.24960 AU
conjunction	-10123 Jul 31 j 01:50	25°♉45'15	1°52'05
minimum elong	-10123 Jul 31 j 01:47	25°♉45'14	1°52'31
morning rise	-10123 Aug 16 j 10:44	27°♉37'57	
	-10123 Sep 07 j 08:19	0°♊	
retrograde	-10123 Nov 23 j 20:58	4°♊24'36	
opposition	-10122 Feb 02 j 11:12	1°♊08'41	2°26'55
min. Earth dist.	-10122 Feb 03 j 08:10	1°♊04'51	9.22426 AU
	-10122 Feb 18 j 12:21	30°℞♉	
direct	-10122 Apr 15 j 05:53	27°♉49'43	
	-10122 Jun 07 j 14:39	0°♊	
evening set	-10122 Jul 25 j 13:53	4°♊44'41	
conjunction	-10122 Aug 10 j 22:55	6°♊38'12	2°08'19
minimum elong	-10122 Aug 10 j 22:52	6°♊38'11	2°08'49
max. Earth dist.	-10122 Aug 09 j 21:38	6°♊30'50	11.18855 AU
morning rise	-10122 Aug 27 j 06:41	8°♊31'29	
retrograde	-10122 Dec 05 j 11:41	15°♊24'38	
opposition	-10121 Feb 14 j 06:57	12°♊07'44	2°44'19
min. Earth dist.	-10121 Feb 15 j 05:44	12°♊03'34	9.14932 AU
direct	-10121 Apr 26 j 15:23	8°♊48'51	
evening set	-10121 Aug 05 j 15:51	15°♊47'02	
conjunction	-10121 Aug 21 j 23:36	17°♊41'24	2°20'01
minimum elong	-10121 Aug 21 j 23:35	17°♊41'24	2°20'35
max. Earth dist.	-10121 Aug 20 j 21:06	17°♊33'36	11.09998 AU

Attention, astronomical year style is used: The year -10121 in astronomical counting style is the year 10122 BCE in historical counting style.

morning rise	-10121 Sep 07 j 07:17	19°♊35'51	
retrograde	-10121 Dec 17 j 11:06	26°♊37'22	
opposition	-10120 Feb 26 j 08:12	23°♊19'15	2°55'55
min. Earth dist.	-10120 Feb 27 j 07:25	23°♊14'59	9.04796 AU
direct	-10120 May 07 j 06:17	20°♊00'13	
evening set	-10120 Aug 15 j 22:05	27°♊03'05	
max. Earth dist.	-10120 Aug 31 j 04:11	28°♊51'17	10.98658 AU
conjunction	-10120 Sep 01 j 05:49	28°♊58'56	2°26'33
minimum elong	-10120 Sep 01 j 05:48	28°♊58'56	2°27'09
	-10120 Sep 09 j 19:02	0°♋	
morning rise	-10120 Sep 17 j 14:21	0°♋55'08	
retrograde	-10120 Dec 28 j 19:20	8°♋06'44	
opposition	-10119 Mar 09 j 16:08	4°♋47'07	3°00'55
min. Earth dist.	-10119 Mar 10 j 14:05	4°♋43'03	8.92330 AU
direct	-10119 May 19 j 00:29	1°♋27'48	
evening set	-10119 Aug 27 j 10:40	8°♋36'44	
conjunction	-10119 Sep 12 j 19:31	10°♋34'39	2°27'19
minimum elong	-10119 Sep 12 j 19:32	10°♋34'39	2°27'54
max. Earth dist.	-10119 Sep 11 j 19:34	10°♋27'24	10.85203 AU
morning rise	-10119 Sep 29 j 06:00	12°♋33'12	
retrograde	-10118 Jan 10 j 14:16	19°♋56'22	
opposition	-10118 Mar 22 j 07:52	16°♋35'05	2°58'34
min. Earth dist.	-10118 Mar 23 j 03:46	16°♋31'21	8.77968 AU
direct	-10118 May 31 j 00:41	13°♋15'16	
evening set	-10118 Sep 08 j 07:18	20°♋31'34	
conjunction	-10118 Sep 24 j 18:22	22°♋32'08	2°21'49
minimum elong	-10118 Sep 24 j 18:24	22°♋32'09	2°22'22
max. Earth dist.	-10118 Sep 23 j 20:06	22°♋25'17	10.70145 AU
morning rise	-10118 Oct 11 j 08:14	24°♋33'40	
	-10118 Dec 02 j 18:20	0°♌	
retrograde	-10117 Jan 23 j 20:45	2°♌09'34	
	-10117 Mar 18 j 20:08	30°℞♋	
opposition	-10117 Apr 04 j 08:32	28°♋46'28	2°48'14
min. Earth dist.	-10117 Apr 05 j 02:06	28°♋43'07	8.62285 AU
direct	-10117 Jun 12 j 07:18	25°♋25'58	
	-10117 Aug 27 j 02:03	0°♌	
evening set	-10117 Sep 20 j 13:36	2°♌50'43	
max. Earth dist.	-10117 Oct 06 j 08:44	4°♌48'23	10.54100 AU
conjunction	-10117 Oct 07 j 04:12	4°♌54'29	2°09'39
minimum elong	-10117 Oct 07 j 04:15	4°♌54'30	2°10'09
morning rise	-10117 Oct 23 j 22:45	6°♌59'32	
retrograde	-10116 Feb 06 j 12:47	14°♌48'54	
opposition	-10116 Apr 16 j 18:25	11°♌23'54	2°29'31
min. Earth dist.	-10116 Apr 17 j 08:57	11°♌21'06	8.45948 AU
direct	-10116 Jun 23 j 23:50	8°♌02'31	
	-10116 Sep 27 j 08:39	15°♌	
evening set	-10116 Oct 02 j 07:21	15°♌36'39	
max. Earth dist.	-10116 Oct 18 j 11:53	17°♌39'20	10.37766 AU
conjunction	-10116 Oct 19 j 02:44	17°♌44'04	1°50'46
minimum elong	-10116 Oct 19 j 02:48	17°♌44'05	1°51'11
morning rise	-10116 Nov 05 j 02:52	19°♌53'01	
retrograde	-10115 Feb 19 j 16:27	27°♌56'04	
opposition	-10115 Apr 30 j 13:25	24°♌29'09	2°02'25
min. Earth dist.	-10115 Apr 30 j 23:49	24°♌27'06	8.29713 AU
direct	-10115 Jul 07 j 02:44	21°♌06'45	
evening set	-10115 Oct 15 j 13:47	28°♌50'50	
	-10115 Oct 24 j 14:23	0°♍	
conjunction	-10115 Nov 01 j 14:53	1°♍02'10	1°25'27
minimum elong	-10115 Nov 01 j 14:57	1°♍02'12	1°25'46
max. Earth dist.	-10115 Nov 01 j 05:55	0°♍59'17	10.21921 AU
morning rise	-10115 Nov 18 j 21:13	3°♍15'16	
retrograde	-10114 Mar 06 j 07:50	11°♍31'28	
opposition	-10114 May 14 j 17:31	8°♍02'42	1°27'32
min. Earth dist.	-10114 May 14 j 22:37	8°♍01'41	8.14380 AU
direct	-10114 Jul 20 j 14:45	4°♍39'10	
evening set	-10114 Oct 29 j 09:51	12°♍33'26	
conjunction	-10114 Nov 15 j 17:06	14°♍48'45	0°54'32
minimum elong	-10114 Nov 15 j 17:09	14°♍48'46	0°54'45
max. Earth dist.	-10114 Nov 15 j 14:15	14°♍47'49	10.07361 AU
morning rise	-10114 Dec 03 j 05:55	17°♍05'57	
retrograde	-10113 Mar 21 j 09:44	25°♍34'02	
opposition	-10113 May 29 j 05:44	22°♍03'40	0°46'13
min. Earth dist.	-10113 May 29 j 05:24	22°♍03'44	8.00755 AU
direct	-10113 Aug 03 j 11:45	18°♍38'56	
evening set	-10113 Nov 12 j 20:16	26°♍43'20	
conjunction	-10113 Nov 30 j 09:36	29°♍02'21	0°19'29
minimum elong	-10113 Nov 30 j 09:37	29°♍02'22	0°19'34
max. Earth dist.	-10113 Nov 30 j 12:55	29°♍03'27	9.94909 AU
	-10113 Dec 07 j 15:13	0°♎	
morning rise	-10113 Dec 18 j 04:35	1°♎23'16	
retrograde	-10112 Apr 04 j 18:32	10°♎01'02	
opposition	-10112 Jun 12 j 00:32	6°♎29'27	0°00'42
min. Earth dist.	-10112 Jun 11 j 18:52	6°♎30'37	7.89719 AU
desc. node	-10112 Jun 17 j 16:21	6°♎01'37	
direct	-10112 Aug 16 j 19:30	3°♎03'29	
evening set	-10112 Nov 26 j 20:15	11°♎17'16	
conjunction	-10112 Dec 14 j 15:00	13°♎39'21	-0°17'41
minimum elong	-10112 Dec 14 j 14:59	13°♎39'21	0°17'44
max. Earth dist.	-10112 Dec 15 j 00:40	13°♎42'35	9.85478 AU
morning rise	-10111 Jan 01 j 15:09	16°♎03'13	
retrograde	-10111 Apr 20 j 06:58	24°♎47'25	
opposition	-10111 Jun 27 j 00:05	21°♎15'00	-0°45'57
min. Earth dist.	-10111 Jun 26 j 13:28	21°♎17'12	7.82163 AU
direct	-10111 Aug 31 j 12:23	17°♎47'52	
evening set	-10111 Dec 12 j 07:33	26°♎09'15	
conjunction	-10111 Dec 30 j 06:36	28°♎33'25	-0°54'12
minimum elong	-10111 Dec 30 j 06:33	28°♎33'24	0°54'25
max. Earth dist.	-10111 Dec 30 j 22:36	28°♎38'48	9.79873 AU
	-10110 Jan 10 j 00:24	0°♏	
morning rise	-10110 Jan 17 j 10:22	0°♏59'05	
retrograde	-10110 May 05 j 19:37	9°♏45'34	
min. Earth dist.	-10110 Jul 11 j 10:42	6°♏15'55	7.78739 AU
opposition	-10110 Jul 12 j 01:28	6°♏12'49	-1°30'08
direct	-10110 Sep 15 j 12:09	2°♏44'35	
evening set	-10110 Dec 28 j 03:03	11°♏11'01	
conjunction	-10109 Jan 15 j 05:00	13°♏36'05	-1°27'21
minimum elong	-10109 Jan 15 j 04:56	13°♏36'04	1°27'42
max. Earth dist.	-10109 Jan 16 j 02:36	13°♏43'21	9.78586 AU
	-10109 Jan 25 j 15:02	15°♏	
morning rise	-10109 Feb 02 j 10:34	16°♏02'14	
retrograde	-10109 May 21 j 04:26	24°♏46'22	
min. Earth dist.	-10109 Jul 26 j 07:24	21°♏17'37	7.79738 AU
opposition	-10109 Jul 27 j 01:28	21°♏13'49	-2°08'16
direct	-10109 Sep 30 j 15:41	17°♏44'40	
evening set	-10108 Jan 13 j 02:02	26°♏13'00	
conjunction	-10108 Jan 31 j 05:23	28°♏37'42	-1°54'33
minimum elong	-10108 Jan 31 j 05:19	28°♏37'41	1°55'00
max. Earth dist.	-10108 Feb 01 j 07:11	28°♏46'20	9.81732 AU
	-10108 Feb 10 j 12:00	0°♐	
morning rise	-10108 Feb 18 j 10:56	1°♐02'59	
retrograde	-10108 Jun 04 j 06:09	9°♐40'18	
opposition	-10108 Aug 09 j 21:21	6°♐08'30	-2°37'22

Attention, astronomical year style is used: The year -10108 in astronomical counting style is the year 10109 BCE in historical counting style.

min. Earth dist.	-10108 Aug 09 j 00:54	6°♐12'48	7.85069 AU
direct	-10108 Oct 14 j 20:04	2°♐38'43	
evening set	-10107 Jan 27 j 23:12	11°♐05'26	
conjunction	-10107 Feb 15 j 02:33	13°♐28'39	-2°13'49
minimum elong	-10107 Feb 15 j 02:30	13°♐28'38	2°14'22
max. Earth dist.	-10107 Feb 16 j 06:53	13°♐38'02	9.89059 AU
morning rise	-10107 Mar 05 j 06:34	15°♐51'56	
retrograde	-10107 Jun 18 j 22:21	24°♐18'39	
opposition	-10107 Aug 24 j 10:26	20°♐48'04	-2°55'33
min. Earth dist.	-10107 Aug 23 j 12:40	20°♐52'37	7.94303 AU
direct	-10107 Oct 29 j 22:14	17°♐18'00	
evening set	-10106 Feb 12 j 13:56	25°♐39'45	
conjunction	-10106 Mar 02 j 16:19	28°♐00'37	-2°24'10
minimum elong	-10106 Mar 02 j 16:17	28°♐00'36	2°24'44
max. Earth dist.	-10106 Mar 03 j 21:19	28°♐10'05	10.00002 AU
	-10106 Mar 17 j 23:59	0°♑	
morning rise	-10106 Mar 20 j 17:48	0°♑21'04	
retrograde	-10106 Jul 03 j 02:37	8°♑34'24	
opposition	-10106 Sep 07 j 14:45	5°♑05'25	-3°02'14
min. Earth dist.	-10106 Sep 06 j 17:00	5°♑09'56	8.06743 AU
direct	-10106 Nov 13 j 18:36	1°♑35'27	
evening set	-10105 Feb 27 j 18:25	9°♑49'26	
conjunction	-10105 Mar 17 j 19:05	12°♑07'22	-2°25'30
minimum elong	-10105 Mar 17 j 19:05	12°♑07'22	2°26'04
max. Earth dist.	-10105 Mar 18 j 22:58	12°♑16'20	10.13759 AU
morning rise	-10105 Apr 04 j 17:24	14°♑24'30	
retrograde	-10105 Jul 16 j 18:24	22°♑22'54	
opposition	-10105 Sep 21 j 09:28	18°♑55'49	-2°57'57
min. Earth dist.	-10105 Sep 20 j 13:27	18°♑59'56	8.21521 AU
direct	-10105 Nov 28 j 07:00	15°♑26'17	
evening set	-10104 Mar 13 j 10:00	23°♑30'29	
conjunction	-10104 Mar 31 j 08:19	25°♑45'11	-2°18'30
minimum elong	-10104 Mar 31 j 08:21	25°♑45'12	2°19'02
max. Earth dist.	-10104 Apr 01 j 09:12	25°♑53'02	10.29409 AU
morning rise	-10104 Apr 18 j 03:09	27°♑58'45	
	-10104 May 05 j 00:11	0°♒	
retrograde	-10104 Jul 28 j 22:01	5°♒41'53	
opposition	-10104 Oct 03 j 18:09	2°♒16'52	-2°44'04
min. Earth dist.	-10104 Oct 03 j 01:10	2°♒20'18	8.37720 AU
	-10104 Nov 03 j 16:08	30°℞♑	
direct	-10104 Dec 11 j 09:18	28°♑48'04	
	-10103 Jan 18 j 01:25	0°♒	
evening set	-10103 Mar 27 j 11:31	6°♒41'22	
conjunction	-10103 Apr 14 j 07:05	8°♒52'45	-2°04'23
minimum elong	-10103 Apr 14 j 07:08	8°♒52'46	2°04'52
max. Earth dist.	-10103 Apr 15 j 03:14	8°♒58'59	10.46033 AU
morning rise	-10103 May 01 j 22:25	11°♒02'46	
	-10103 Jun 06 j 09:03	15°♒	
retrograde	-10103 Aug 10 j 13:31	18°♒31'13	
opposition	-10103 Oct 16 j 16:52	15°♒08'17	-2°22'22
min. Earth dist.	-10103 Oct 16 j 03:43	15°♒10'53	8.54448 AU
	-10103 Oct 18 j 10:30	15°℞♒	
direct	-10103 Dec 25 j 02:16	11°♒40'30	
	-10102 Feb 28 j 12:45	15°♒	
evening set	-10102 Apr 09 j 22:53	19°♒22'36	
conjunction	-10102 Apr 27 j 15:25	21°♒30'45	-1°44'34
minimum elong	-10102 Apr 27 j 15:29	21°♒30'46	1°44'58
max. Earth dist.	-10102 Apr 28 j 05:44	21°♒35'05	10.62752 AU
morning rise	-10102 May 15 j 03:16	23°♒37'23	
	-10102 Jul 22 j 04:57	0°♓	
retrograde	-10102 Aug 22 j 17:08	0°♓52'31	
	-10102 Sep 23 j 15:19	30°℞♒	
opposition	-10102 Oct 29 j 06:33	27°♒31'34	-1°54'46
min. Earth dist.	-10102 Oct 28 j 21:03	27°♒33'25	8.70866 AU
direct	-10101 Jan 07 j 09:55	24°♒05'01	
	-10101 Apr 08 j 19:47	0°♓	
evening set	-10101 Apr 22 j 20:59	1°♓36'20	
conjunction	-10101 May 10 j 10:16	3°♓41'23	-1°20'35
minimum elong	-10101 May 10 j 10:19	3°♓41'24	1°20'53
max. Earth dist.	-10101 May 10 j 18:59	3°♓43'59	10.78772 AU
morning rise	-10101 May 27 j 18:28	5°♓44'53	
retrograde	-10101 Sep 03 j 13:39	12°♓48'33	
opposition	-10101 Nov 10 j 12:14	9°♓29'26	-1°23'08
min. Earth dist.	-10101 Nov 10 j 06:21	9°♓30'33	8.86247 AU
direct	-10100 Jan 20 j 06:54	6°♓04'14	
evening set	-10100 May 04 j 07:04	13°♓25'38	
conjunction	-10100 May 21 j 16:57	15°♓27'53	-0°53'48
minimum elong	-10100 May 21 j 16:59	15°♓27'54	0°54'02
max. Earth dist.	-10100 May 21 j 20:57	15°♓29'04	10.93423 AU
morning rise	-10100 Jun 07 j 21:22	17°♓28'34	
retrograde	-10100 Sep 14 j 03:12	24°♓22'49	
opposition	-10100 Nov 21 j 11:22	21°♓05'18	-0°49'05
min. Earth dist.	-10100 Nov 21 j 09:50	21°♓05'36	8.99988 AU
direct	-10099 Jan 31 j 17:12	17°♓41'30	
evening set	-10099 May 16 j 06:45	24°♓54'12	
conjunction	-10099 Jun 02 j 12:56	26°♓53'58	-0°25'32
minimum elong	-10099 Jun 02 j 12:57	26°♓53'58	0°25'38
max. Earth dist.	-10099 Jun 02 j 11:52	26°♓53'39	11.06146 AU
morning rise	-10099 Jun 19 j 13:41	28°♓52'12	
	-10099 Jun 29 j 15:49	0°♈	
retrograde	-10099 Sep 25 j 10:58	5°♈39'15	
opposition	-10099 Dec 03 j 05:19	2°♈23'05	-0°14'03
min. Earth dist.	-10099 Dec 03 j 08:56	2°♈22'25	9.11586 AU
	-10098 Jan 07 j 18:11	30°℞♓	
direct	-10098 Feb 12 j 21:02	29°♓00'36	
	-10098 Mar 20 j 15:52	0°♈	
asc. node	-10098 May 03 j 00:45	3°♈26'00	
evening set	-10098 May 27 j 22:02	6°♈06'06	
conjunction	-10098 Jun 14 j 00:15	8°♈03'41	0°03'13
minimum elong	-10098 Jun 14 j 00:14	8°♈03'41	0°03'14
behind sun begin	-10098 Jun 13 j 17:14	8°♈01'41	
behind sun end	-10098 Jun 14 j 07:14	8°♈05'41	
max. Earth dist.	-10098 Jun 13 j 17:05	8°♈01'39	11.16491 AU
morning rise	-10098 Jun 30 j 21:30	9°♈59'53	
retrograde	-10098 Oct 06 j 14:31	16°♈41'57	
opposition	-10098 Dec 14 j 19:28	13°♈26'47	0°20'43
min. Earth dist.	-10098 Dec 15 j 03:23	13°♈25'19	9.20642 AU
direct	-10097 Feb 24 j 17:51	10°♈05'30	
evening set	-10097 Jun 08 j 06:28	17°♈05'23	
conjunction	-10097 Jun 25 j 04:47	19°♈01'10	0°31'16
minimum elong	-10097 Jun 25 j 04:46	19°♈01'09	0°31'24
max. Earth dist.	-10097 Jun 24 j 16:49	18°♈57'44	11.24125 AU
morning rise	-10097 Jul 11 j 22:40	20°♈55'44	
retrograde	-10097 Oct 17 j 17:10	27°♈35'05	
opposition	-10097 Dec 26 j 07:28	24°♈20'31	0°54'10
min. Earth dist.	-10097 Dec 26 j 18:39	24°♈18'28	9.26859 AU
direct	-10096 Mar 07 j 11:10	21°♈00'17	
evening set	-10096 Jun 18 j 09:38	27°♈56'05	
conjunction	-10096 Jul 05 j 04:20	29°♈50'31	0°57'55
minimum elong	-10096 Jul 05 j 04:18	29°♈50'30	0°58'09
max. Earth dist.	-10096 Jul 04 j 13:03	29°♈46'08	11.28795 AU
	-10096 Jul 06 j 13:28	0°♉	

Attention, astronomical year style is used: The year -10096 in astronomical counting style is the year 10097 BCE in historical counting style.

morning rise	-10096 Jul 21 j 18:57	1°♉43'53		
retrograde	-10096 Oct 27 j 20:50	8°♉22'39		
opposition	-10095 Jan 05 j 18:41	5°♉08'19	1°25'23	
min. Earth dist.	-10095 Jan 06 j 09:15	5°♉05'40	9.30025 AU	
direct	-10095 Mar 18 j 22:40	1°♉48'56		
evening set	-10095 Jun 29 j 09:42	8°♉42'19		
max. Earth dist.	-10095 Jul 15 j 05:46	10°♉30'19	11.30334 AU	
conjunction	-10095 Jul 16 j 00:56	10°♉35'48	1°22'21	
minimum elong	-10095 Jul 16 j 00:53	10°♉35'48	1°22'41	
morning rise	-10095 Aug 01 j 12:44	12°♉28'28		
	-10095 Aug 25 j 05:00	15°♉		
retrograde	-10095 Nov 08 j 00:08	19°♉08'43		
opposition	-10094 Jan 17 j 06:25	15°♉54'15	1°53'32	
min. Earth dist.	-10094 Jan 18 j 00:57	15°♉50'53	9.30013 AU	
	-10094 Jan 29 j 21:05	15°℞♉		
direct	-10094 Mar 30 j 07:28	12°♉35'26		
	-10094 May 26 j 05:48	15°♉		
evening set	-10094 Jul 10 j 08:13	19°♉28'06		
conjunction	-10094 Jul 26 j 20:16	21°♉21'08	1°43'54	
minimum elong	-10094 Jul 26 j 20:13	21°♉21'07	1°44'17	
max. Earth dist.	-10094 Jul 25 j 21:04	21°♉14'28	11.28662 AU	
morning rise	-10094 Aug 12 j 05:58	23°♉13'35		
retrograde	-10094 Nov 19 j 07:44	29°♉57'27		
opposition	-10093 Jan 28 j 20:23	26°♉42'28	2°17'48	
min. Earth dist.	-10093 Jan 29 j 17:50	26°♉38'35	9.26762 AU	
direct	-10093 Apr 10 j 17:37	23°♉23'59		
	-10093 Jul 18 j 16:16	0°♊		
evening set	-10093 Jul 21 j 06:38	0°♊17'34		
conjunction	-10093 Aug 06 j 16:20	2°♊10'42	2°01'51	
minimum elong	-10093 Aug 06 j 16:17	2°♊10'41	2°02'19	
max. Earth dist.	-10093 Aug 05 j 15:00	2°♊03'21	11.23771 AU	
morning rise	-10093 Aug 23 j 00:30	4°♊03'29		
retrograde	-10093 Nov 30 j 20:18	10°♊53'05		
opposition	-10092 Feb 09 j 13:54	7°♊37'12	2°37'25	
min. Earth dist.	-10092 Feb 10 j 12:31	7°♊33'05	9.20326 AU	
direct	-10092 Apr 21 j 03:33	4°♊18'50		
evening set	-10092 Jul 31 j 07:03	11°♊15'00		
conjunction	-10092 Aug 16 j 15:19	13°♊08'48	2°15'34	
minimum elong	-10092 Aug 16 j 15:17	13°♊08'47	2°16'06	
max. Earth dist.	-10092 Aug 15 j 13:09	13°♊01'09	11.15800 AU	
morning rise	-10092 Sep 01 j 22:44	15°♊02'30		
retrograde	-10092 Dec 11 j 17:49	21°♊59'44		
opposition	-10091 Feb 20 j 12:15	18°♊42'40	2°51'37	
min. Earth dist.	-10091 Feb 21 j 11:36	18°♊38'23	9.10935 AU	
direct	-10091 May 02 j 16:00	15°♊24'09		
evening set	-10091 Aug 11 j 11:14	22°♊24'28		
conjunction	-10091 Aug 27 j 18:50	24°♊19'30	2°24'24	
minimum elong	-10091 Aug 27 j 18:49	24°♊19'30	2°24'59	
max. Earth dist.	-10091 Aug 26 j 15:33	24°♊11'26	11.05061 AU	
morning rise	-10091 Sep 13 j 02:41	26°♊14'45		
	-10091 Oct 18 j 08:34	0°♋		
retrograde	-10091 Dec 23 j 20:50	3°♋21'23		
opposition	-10090 Mar 04 j 17:04	0°♋02'49	2°59'35	
	-10090 Mar 05 j 08:18	30°℞♊		
min. Earth dist.	-10090 Mar 05 j 16:52	29°♊58'25	8.98943 AU	
direct	-10090 May 14 j 06:18	26°♊43'54		
	-10090 Jul 18 j 04:45	0°♋		
evening set	-10090 Aug 22 j 20:42	3°♋49'49		
max. Earth dist.	-10090 Sep 07 j 01:28	5°♋38'28	10.91957 AU	
conjunction	-10090 Sep 08 j 04:44	5°♋46'40	2°27'45	
minimum elong	-10090 Sep 08 j 04:44	5°♋46'40	2°28'21	
morning rise	-10090 Sep 24 j 14:15	7°♋44'03		
retrograde	-10089 Jan 05 j 09:33	15°♋01'46		
opposition	-10089 Mar 17 j 05:21	11°♋41'23	3°00'33	
min. Earth dist.	-10089 Mar 18 j 04:29	11°♋37'04	8.84803 AU	
direct	-10089 May 26 j 05:13	8°♋21'49		
evening set	-10089 Sep 03 j 13:22	15°♋34'39		
conjunction	-10089 Sep 19 j 23:15	17°♋33'58	2°25'02	
minimum elong	-10089 Sep 19 j 23:16	17°♋33'58	2°25'37	
max. Earth dist.	-10089 Sep 18 j 22:23	17°♋26'22	10.76976 AU	
morning rise	-10089 Oct 06 j 11:33	19°♋34'06		
retrograde	-10088 Jan 18 j 10:26	27°♋04'12		
opposition	-10088 Mar 29 j 01:46	23°♋41'49	2°53'49	
min. Earth dist.	-10088 Mar 29 j 22:18	23°♋37'56	8.69058 AU	
direct	-10088 Jun 06 j 10:04	20°♋21'26		
evening set	-10088 Sep 14 j 14:56	27°♋42'22		
max. Earth dist.	-10088 Sep 30 j 06:33	29°♋38'03	10.60704 AU	
conjunction	-10088 Oct 01 j 03:59	29°♋44'43	2°15'50	
minimum elong	-10088 Oct 01 j 04:02	29°♋44'44	2°16'22	
	-10088 Oct 03 j 05:12	0°♌		
morning rise	-10088 Oct 17 j 20:15	1°♌48'11		
retrograde	-10087 Jan 30 j 22:08	9°♌31'40		
opposition	-10087 Apr 11 j 07:16	6°♌07'11	2°38'51	
min. Earth dist.	-10087 Apr 12 j 00:02	6°♌03'58	8.52346 AU	
direct	-10087 Jun 18 j 21:39	2°♌45'49		
evening set	-10087 Sep 27 j 03:16	10°♌15'56		
conjunction	-10087 Oct 13 j 20:31	12°♌21'48	1°59'54	
minimum elong	-10087 Oct 13 j 20:35	12°♌21'49	2°00'22	
max. Earth dist.	-10087 Oct 13 j 02:54	12°♌16'14	10.43838 AU	
morning rise	-10087 Oct 30 j 17:57	14°♌29'05		
	-10087 Nov 03 j 22:27	15°♌		
retrograde	-10086 Feb 13 j 21:36	22°♌26'28		
opposition	-10086 Apr 24 j 22:16	18°♌59'52	2°15'25	
min. Earth dist.	-10086 Apr 25 j 10:41	18°♌57'27	8.35431 AU	
direct	-10086 Jul 01 j 19:12	15°♌37'25		
evening set	-10086 Oct 10 j 03:55	23°♌17'29		
conjunction	-10086 Oct 27 j 02:22	25°♌27'14	1°37'21	
minimum elong	-10086 Oct 27 j 02:26	25°♌27'15	1°37'43	
max. Earth dist.	-10086 Oct 26 j 13:10	25°♌22'59	10.27191 AU	
morning rise	-10086 Nov 13 j 05:58	27°♌38'41		
	-10086 Dec 02 j 14:35	0°♍		
retrograde	-10085 Feb 28 j 08:46	5°♍49'48		
opposition	-10085 May 08 j 22:42	2°♍21'13	1°43'49	
min. Earth dist.	-10085 May 09 j 06:37	2°♍19'38	8.19177 AU	
	-10085 Jun 10 j 16:37	30°℞♌		
direct	-10085 Jul 15 j 02:13	28°♌57'33		
	-10085 Aug 17 j 17:58	0°♍		
evening set	-10085 Oct 23 j 18:04	6°♍48'02		
conjunction	-10085 Nov 09 j 22:32	9°♍01'49	1°08'43	
minimum elong	-10085 Nov 09 j 22:35	9°♍01'51	1°08'59	
max. Earth dist.	-10085 Nov 09 j 15:16	8°♍59'27	10.11639 AU	
morning rise	-10085 Nov 27 j 08:45	11°♍17'30		
retrograde	-10084 Mar 14 j 06:12	19°♍41'22		
opposition	-10084 May 22 j 07:53	16°♍11'01	1°05'02	
min. Earth dist.	-10084 May 22 j 10:45	16°♍10'26	8.04488 AU	
direct	-10084 Jul 27 j 19:54	12°♍46'08		
evening set	-10084 Nov 05 j 22:28	20°♍46'59		
conjunction	-10084 Nov 23 j 09:09	23°♍04'40	0°35'13	
minimum elong	-10084 Nov 23 j 09:11	23°♍04'41	0°35'21	
max. Earth dist.	-10084 Nov 23 j 08:59	23°♍04'36	9.98079 AU	
morning rise	-10084 Dec 11 j 01:44	25°♍24'17		
	-10083 Jan 18 j 16:06	0°♎		

Attention, astronomical year style is used: The year -10083 in astronomical counting style is the year 10084 BCE in historical counting style.

retrograde	-10083 Mar 29 j 11:13	3°♎58'57	
opposition	-10083 Jun 06 j 00:25	0°♎27'11	0°20'57
min. Earth dist.	-10083 Jun 05 j 21:34	0°♎27'46	7.92276 AU
	-10083 Jun 11 j 13:26	30°℞♍	
direct	-10083 Aug 11 j 00:58	27°♍01'05	
	-10083 Oct 07 j 08:45	0°♎	
evening set	-10083 Nov 20 j 16:48	5°♎11'39	
desc. node	-10083 Nov 24 j 12:40	5°♎41'51	
conjunction	-10083 Dec 08 j 09:22	7°♎32'43	-0°01'23
minimum elong	-10083 Dec 08 j 09:22	7°♎32'43	0°01'24
behind sun begin	-10083 Dec 08 j 02:04	7°♎30'18	
behind sun end	-10083 Dec 08 j 16:40	7°♎35'08	
max. Earth dist.	-10083 Dec 08 j 16:54	7°♎35'13	9.87407 AU
morning rise	-10083 Dec 26 j 07:31	9°♎55'37	
retrograde	-10082 Apr 13 j 21:47	18°♎38'10	
opposition	-10082 Jun 20 j 22:31	15°♎05'24	-0°25'42
min. Earth dist.	-10082 Jun 20 j 13:47	15°♎07'13	7.83387 AU
direct	-10082 Aug 25 j 14:36	11°♎38'11	
evening set	-10082 Dec 05 j 23:36	19°♎57'01	
conjunction	-10082 Dec 23 j 21:09	22°♎20'37	-0°38'32
minimum elong	-10082 Dec 23 j 21:06	22°♎20'36	0°38'41
max. Earth dist.	-10082 Dec 24 j 12:15	22°♎25'42	9.80389 AU
morning rise	-10081 Jan 10 j 23:33	24°♎45'49	
	-10081 Feb 23 j 23:12	0°♏	
retrograde	-10081 Apr 29 j 11:02	3°♏32'22	
opposition	-10081 Jul 05 j 23:36	29°♎59'08	-1°11'28
min. Earth dist.	-10081 Jul 05 j 09:22	0°♏02'07	7.78474 AU
	-10081 Jul 05 j 19:29	30°℞♎	
direct	-10081 Sep 09 j 11:11	26°♎30'55	
	-10081 Nov 10 j 14:52	0°♏	
evening set	-10081 Dec 21 j 16:18	4°♏55'52	
conjunction	-10080 Jan 08 j 17:22	7°♏20'50	-1°13'31
minimum elong	-10080 Jan 08 j 17:18	7°♏20'49	1°13'49
max. Earth dist.	-10080 Jan 09 j 14:58	7°♏28'07	9.77568 AU
morning rise	-10080 Jan 26 j 22:16	9°♏47'03	
	-10080 Mar 10 j 15:16	15°♏	
retrograde	-10080 May 13 j 22:47	18°♏33'10	
min. Earth dist.	-10080 Jul 19 j 06:07	15°♏03'58	7.77929 AU
opposition	-10080 Jul 20 j 00:39	15°♏00'03	-1°52'40
	-10080 Jul 20 j 00:56	15°℞♏	
direct	-10080 Sep 23 j 12:28	11°♏31'02	
	-10080 Nov 24 j 21:57	15°♏	
evening set	-10079 Jan 05 j 14:30	19°♏59'11	
conjunction	-10079 Jan 23 j 17:31	22°♏24'18	-1°43'36
minimum elong	-10079 Jan 23 j 17:27	22°♏24'16	1°44'01
max. Earth dist.	-10079 Jan 24 j 20:08	22°♏33'14	9.79198 AU
morning rise	-10079 Feb 10 j 23:07	24°♏50'11	
	-10079 Mar 26 j 09:04	0°♐	
retrograde	-10079 May 29 j 05:31	3°♐31'17	
opposition	-10079 Aug 03 j 22:55	29°♏58'54	-2°25'59
min. Earth dist.	-10079 Aug 03 j 01:35	0°♐03'23	7.81820 AU
	-10079 Aug 03 j 17:39	30°℞♏	
direct	-10079 Oct 08 j 16:06	26°♏29'18	
	-10079 Dec 10 j 19:28	0°♐	
evening set	-10078 Jan 21 j 13:11	4°♐57'17	
conjunction	-10078 Feb 08 j 16:43	7°♐21'20	-2°06'30
minimum elong	-10078 Feb 08 j 16:39	7°♐21'18	2°07'00
max. Earth dist.	-10078 Feb 09 j 22:27	7°♐31'13	9.85186 AU
morning rise	-10078 Feb 26 j 21:28	9°♐45'39	
retrograde	-10078 Jun 13 j 03:42	18°♐17'36	
opposition	-10078 Aug 18 j 15:29	14°♐46'28	-2°49'02
min. Earth dist.	-10078 Aug 17 j 16:59	14°♐51'11	7.89861 AU
direct	-10078 Oct 23 j 19:52	11°♐16'38	
evening set	-10077 Feb 06 j 07:42	19°♐41'01	
conjunction	-10077 Feb 24 j 10:33	22°♐03'00	-2°20'46
minimum elong	-10077 Feb 24 j 10:30	22°♐02'59	2°21'20
max. Earth dist.	-10077 Feb 25 j 17:05	22°♐13'02	9.95086 AU
morning rise	-10077 Mar 14 j 13:13	24°♐24'47	
	-10077 May 02 j 18:00	0°♑	
retrograde	-10077 Jun 27 j 13:26	2°♑44'16	
	-10077 Aug 23 j 21:21	30°℞♐	
min. Earth dist.	-10077 Sep 01 j 01:53	29°♐19'27	8.01455 AU
opposition	-10077 Sep 02 j 00:05	29°♐14'49	-3°00'39
direct	-10077 Nov 07 j 19:39	25°♐45'06	
	-10076 Jan 18 j 11:30	0°♑	
evening set	-10076 Feb 21 j 17:27	4°♑02'46	
conjunction	-10076 Mar 10 j 18:44	6°♑21'58	-2°25'55
minimum elong	-10076 Mar 10 j 18:43	6°♑21'58	2°26'30
max. Earth dist.	-10076 Mar 11 j 23:56	6°♑31'25	10.08181 AU
morning rise	-10076 Mar 28 j 18:32	8°♑40'33	
retrograde	-10076 Jul 10 j 10:06	16°♑45'30	
opposition	-10076 Sep 14 j 23:25	13°♑18'02	-3°00'55
min. Earth dist.	-10076 Sep 14 j 02:21	13°♑22'22	8.15785 AU
direct	-10076 Nov 21 j 12:29	9°♑48'45	
evening set	-10075 Mar 07 j 14:56	17°♑57'14	
conjunction	-10075 Mar 25 j 14:08	20°♑13'15	-2°22'22
minimum elong	-10075 Mar 25 j 14:09	20°♑13'16	2°22'55
max. Earth dist.	-10075 Mar 26 j 16:29	20°♑21'37	10.23568 AU
morning rise	-10075 Apr 12 j 10:38	22°♑28'17	
	-10075 Jul 05 j 21:12	0°♒	
retrograde	-10075 Jul 23 j 18:26	0°♒17'50	
	-10075 Aug 10 j 18:24	30°℞♑	
opposition	-10075 Sep 28 j 12:31	26°♑52'28	-2°50'55
min. Earth dist.	-10075 Sep 27 j 17:22	26°♑56'21	8.31894 AU
direct	-10075 Dec 05 j 19:53	23°♑23'55	
	-10074 Mar 10 j 14:25	0°♒	
evening set	-10074 Mar 21 j 22:46	1°♒21'41	
conjunction	-10074 Apr 08 j 19:31	3°♒34'22	-2°11'07
minimum elong	-10074 Apr 08 j 19:34	3°♒34'23	2°11'37
max. Earth dist.	-10074 Apr 09 j 17:58	3°♒41'22	10.40242 AU
morning rise	-10074 Apr 26 j 12:29	5°♒45'47	
retrograde	-10074 Aug 05 j 15:38	13°♒20'07	
opposition	-10074 Oct 11 j 15:19	9°♒56'52	-2°32'20
min. Earth dist.	-10074 Oct 10 j 23:19	10°♒00'03	8.48768 AU
direct	-10074 Dec 19 j 16:52	6°♒29'16	
evening set	-10073 Apr 04 j 16:20	14°♒15'46	
	-10073 Apr 10 j 19:06	15°♒	
conjunction	-10073 Apr 22 j 10:18	16°♒25'09	-1°53'34
minimum elong	-10073 Apr 22 j 10:21	16°♒25'10	1°54'00
max. Earth dist.	-10073 Apr 23 j 03:50	16°♒30'31	10.57180 AU
morning rise	-10073 May 09 j 23:33	18°♒33'04	
retrograde	-10073 Aug 18 j 00:40	25°♒53'24	
opposition	-10073 Oct 24 j 08:48	22°♒32'11	-2°07'03
min. Earth dist.	-10073 Oct 23 j 21:13	22°♒34'28	8.65443 AU
direct	-10072 Jan 02 j 04:04	19°♒05'44	
evening set	-10072 Apr 16 j 20:01	26°♒41'13	
conjunction	-10072 May 04 j 10:49	28°♒47'27	-1°31'12
minimum elong	-10072 May 04 j 10:52	28°♒47'28	1°31'33
max. Earth dist.	-10072 May 04 j 22:37	28°♒51'00	10.73491 AU
	-10072 May 14 j 12:34	0°♓	
morning rise	-10072 May 21 j 20:24	0°♓52'08	
retrograde	-10072 Aug 29 j 00:57	8°♓00'15	
opposition	-10072 Nov 04 j 17:54	4°♓40'56	-1°36'56

Attention, astronomical year style is used: The year -10072 in astronomical counting style is the year 10073 BCE in historical counting style.

min. Earth dist.	-10072 Nov 04 j 11:30	4°♓42'10	8.81157 AU
direct	-10071 Jan 14 j 04:31	1°♓15'41	
evening set	-10071 Apr 29 j 11:16	8°♓40'58	
conjunction	-10071 May 16 j 22:34	10°♓44'18	-1°05'27
minimum elong	-10071 May 16 j 22:37	10°♓44'19	1°05'43
max. Earth dist.	-10071 May 17 j 03:35	10°♓45'47	10.88521 AU
morning rise	-10071 Jun 03 j 04:37	12°♓46'04	
retrograde	-10071 Sep 09 j 15:53	19°♓43'55	
opposition	-10071 Nov 16 j 19:35	16°♓26'13	-1°03'46
min. Earth dist.	-10071 Nov 16 j 17:49	16°♓26'33	8.95334 AU
direct	-10070 Jan 26 j 19:34	13°♓02'12	
evening set	-10070 May 11 j 15:27	20°♓18'22	
conjunction	-10070 May 28 j 23:08	22°♓19'06	-0°37'42
minimum elong	-10070 May 28 j 23:09	22°♓19'06	0°37'51
max. Earth dist.	-10070 May 28 j 22:02	22°♓18'47	11.01747 AU
morning rise	-10070 Jun 15 j 01:37	24°♓18'19	
	-10070 Aug 15 j 07:33	0°♈	
retrograde	-10070 Sep 21 j 01:20	1°♈08'05	
	-10070 Oct 28 j 14:26	30°℞♓	
opposition	-10070 Nov 28 j 15:32	27°♓51'39	-0°29'02
min. Earth dist.	-10070 Nov 28 j 17:40	27°♓51'15	9.07482 AU
direct	-10069 Feb 08 j 04:37	24°♓28'48	
	-10069 May 08 j 17:56	0°♈	
evening set	-10069 May 23 j 10:07	1°♈37'10	
conjunction	-10069 Jun 09 j 14:06	3°♈35'37	-0°09'07
minimum elong	-10069 Jun 09 j 14:07	3°♈35'37	0°09'09
behind sun begin	-10069 Jun 09 j 08:08	3°♈33'54	
behind sun end	-10069 Jun 09 j 20:06	3°♈37'20	
max. Earth dist.	-10069 Jun 09 j 08:25	3°♈33'59	11.12715 AU
morning rise	-10069 Jun 26 j 12:52	5°♈32'37	
retrograde	-10069 Oct 02 j 07:49	12°♈16'31	
asc. node	-10069 Oct 07 j 09:57	12°♈15'12	
opposition	-10069 Dec 10 j 07:10	9°♈01'01	0°05'57
min. Earth dist.	-10069 Dec 10 j 13:27	8°♈59'51	9.17204 AU
direct	-10068 Feb 20 j 03:46	5°♈39'15	
evening set	-10068 Jun 02 j 21:11	12°♈41'17	
conjunction	-10068 Jun 19 j 21:21	14°♈37'49	0°19'23
minimum elong	-10068 Jun 19 j 21:21	14°♈37'49	0°19'28
max. Earth dist.	-10068 Jun 19 j 11:08	14°♈34'53	11.21080 AU
morning rise	-10068 Jul 06 j 16:34	16°♈33'02	
retrograde	-10068 Oct 12 j 09:56	23°♈13'15	
opposition	-10068 Dec 20 j 19:48	19°♈58'20	0°40'04
min. Earth dist.	-10068 Dec 21 j 06:50	19°♈56'18	9.24210 AU
direct	-10067 Mar 02 j 21:01	16°♈37'27	
evening set	-10067 Jun 14 j 02:21	23°♈34'48	
conjunction	-10067 Jun 30 j 22:38	25°♈29'48	0°46'43
minimum elong	-10067 Jun 30 j 22:36	25°♈29'48	0°46'55
max. Earth dist.	-10067 Jun 30 j 07:11	25°♈25'23	11.26597 AU
morning rise	-10067 Jul 17 j 14:42	27°♈23'40	
	-10067 Aug 11 j 02:18	0°♉	
retrograde	-10067 Oct 23 j 11:31	4°♉02'23	
opposition	-10066 Jan 01 j 06:57	0°♉47'42	1°12'20
min. Earth dist.	-10066 Jan 01 j 21:59	0°♉44'57	9.28282 AU
	-10066 Jan 12 j 06:16	30°℞♈	
direct	-10066 Mar 14 j 11:18	27°♈27'33	
	-10066 May 12 j 04:48	0°♉	
evening set	-10066 Jun 25 j 03:21	4°♉21'51	
conjunction	-10066 Jul 11 j 20:00	6°♉15'45	1°12'11
minimum elong	-10066 Jul 11 j 19:57	6°♉15'44	1°12'29
max. Earth dist.	-10066 Jul 11 j 00:37	6°♉10'12	11.29106 AU
morning rise	-10066 Jul 28 j 09:09	8°♉08'43	
retrograde	-10066 Nov 03 j 13:52	14°♉48'07	
opposition	-10065 Jan 12 j 18:02	11°♉33'17	1°41'54
min. Earth dist.	-10065 Jan 13 j 11:29	11°♉30'07	9.29300 AU
direct	-10065 Mar 25 j 22:23	8°♉13'43	
	-10065 Jul 05 j 02:20	15°♉	
evening set	-10065 Jul 06 j 01:58	15°♉06'37	
conjunction	-10065 Jul 22 j 15:30	16°♉59'53	1°35'03
minimum elong	-10065 Jul 22 j 15:27	16°♉59'52	1°35'25
max. Earth dist.	-10065 Jul 21 j 18:03	16°♉53'43	11.28541 AU
morning rise	-10065 Aug 08 j 02:03	18°♉52'25	
retrograde	-10065 Nov 14 j 21:18	25°♉34'36	
opposition	-10064 Jan 24 j 06:42	22°♉19'19	2°07'56
min. Earth dist.	-10064 Jan 25 j 02:21	22°♉15'45	9.27244 AU
direct	-10064 Apr 05 j 07:45	19°♉00'09	
evening set	-10064 Jul 15 j 23:57	25°♉53'16	
max. Earth dist.	-10064 Jul 31 j 10:50	27°♉39'29	11.24928 AU
conjunction	-10064 Aug 01 j 10:48	27°♉46'24	1°54'37
minimum elong	-10064 Aug 01 j 10:44	27°♉46'23	1°55'04
morning rise	-10064 Aug 17 j 19:29	29°♉39'04	
	-10064 Aug 20 j 21:55	0°♊	
retrograde	-10064 Nov 25 j 06:23	6°♊26'01	
opposition	-10063 Feb 03 j 22:19	3°♊10'01	2°29'40
min. Earth dist.	-10063 Feb 04 j 20:23	3°♊06'00	9.22174 AU
	-10063 Apr 02 j 21:25	30°℞♉	
direct	-10063 Apr 16 j 15:15	29°♉51'03	
	-10063 Apr 30 j 08:44	0°♊	
evening set	-10063 Jul 26 j 23:14	6°♊46'03	
max. Earth dist.	-10063 Aug 11 j 05:32	8°♊31'52	11.18376 AU
conjunction	-10063 Aug 12 j 07:58	8°♊39'34	2°10'15
minimum elong	-10063 Aug 12 j 07:55	8°♊39'33	2°10'46
morning rise	-10063 Aug 28 j 15:44	10°♊32'53	
retrograde	-10063 Dec 06 j 22:27	17°♊26'36	
opposition	-10062 Feb 15 j 18:11	14°♊09'35	2°46'18
min. Earth dist.	-10062 Feb 16 j 17:43	14°♊05'17	9.14236 AU
direct	-10062 Apr 28 j 02:55	10°♊50'38	
evening set	-10062 Aug 07 j 01:18	17°♊49'06	
max. Earth dist.	-10062 Aug 22 j 06:28	19°♊35'45	11.09081 AU
conjunction	-10062 Aug 23 j 09:01	19°♊43'34	2°21'17
minimum elong	-10062 Aug 23 j 09:00	19°♊43'33	2°21'51
morning rise	-10062 Sep 08 j 16:40	21°♊38'07	
retrograde	-10062 Dec 18 j 22:27	28°♊40'29	
opposition	-10061 Feb 27 j 19:54	25°♊22'10	2°57'03
min. Earth dist.	-10061 Feb 28 j 18:58	25°♊17'55	9.03667 AU
direct	-10061 May 09 j 16:47	22°♊03'05	
evening set	-10061 Aug 18 j 07:55	29°♊06'27	
	-10061 Aug 25 j 21:57	0°♋	
conjunction	-10061 Sep 03 j 15:46	1°♋02'28	2°27'05
minimum elong	-10061 Sep 03 j 15:45	1°♋02'28	2°27'40
max. Earth dist.	-10061 Sep 02 j 14:14	0°♋54'51	10.97326 AU
morning rise	-10061 Sep 20 j 00:20	2°♋58'52	
retrograde	-10061 Dec 31 j 08:38	10°♋11'35	
opposition	-10060 Mar 11 j 04:35	6°♋51'45	3°01'08
min. Earth dist.	-10060 Mar 12 j 02:23	6°♋47'42	8.90806 AU
direct	-10060 May 20 j 11:45	3°♋32'20	
evening set	-10060 Aug 28 j 21:16	10°♋42'01	
max. Earth dist.	-10060 Sep 13 j 05:32	12°♋32'43	10.83511 AU
conjunction	-10060 Sep 14 j 06:15	12°♋40'12	2°27'02
minimum elong	-10060 Sep 14 j 06:16	12°♋40'13	2°27'37
morning rise	-10060 Sep 30 j 17:05	14°♋39'04	
retrograde	-10059 Jan 12 j 04:52	22°♋03'34	
opposition	-10059 Mar 23 j 21:13	18°♋42'03	2°57'46

Attention, astronomical year style is used: The year -10059 in astronomical counting style is the year 10060 BCE in historical counting style.

min. Earth dist.	-10059 Mar 24 j 17:36	18°♋38'13	8.76110 AU
direct	-10059 Jun 01 j 11:34	15°♋22'06	
evening set	-10059 Sep 09 j 18:52	22°♋39'24	
max. Earth dist.	-10059 Sep 25 j 07:15	24°♋33'15	10.68158 AU
conjunction	-10059 Sep 26 j 06:13	24°♋40'19	2°20'40
minimum elong	-10059 Sep 26 j 06:15	24°♋40'20	2°21'13
morning rise	-10059 Oct 12 j 20:38	26°♋42'16	
	-10059 Nov 10 j 21:34	0°♌	
retrograde	-10058 Jan 25 j 10:39	4°♌19'43	
opposition	-10058 Apr 05 j 22:56	0°♌56'23	2°46'21
min. Earth dist.	-10058 Apr 06 j 17:06	0°♌52'55	8.60168 AU
	-10058 Apr 18 j 10:46	30°℞♋	
direct	-10058 Jun 13 j 19:39	27°♋35'43	
	-10058 Aug 06 j 07:34	0°♌	
evening set	-10058 Sep 22 j 02:18	5°♌01'43	
conjunction	-10058 Oct 08 j 17:25	7°♌05'55	2°07'37
minimum elong	-10058 Oct 08 j 17:28	7°♌05'56	2°08'06
max. Earth dist.	-10058 Oct 07 j 22:19	6°♌59'56	10.51900 AU
morning rise	-10058 Oct 25 j 12:32	9°♌11'26	
	-10058 Dec 20 j 00:22	15°♌	
retrograde	-10057 Feb 08 j 04:46	17°♌02'37	
	-10057 Apr 01 j 01:24	15°℞♌	
opposition	-10057 Apr 19 j 10:04	13°♌37'21	2°26'30
min. Earth dist.	-10057 Apr 20 j 00:29	13°♌34'34	8.43676 AU
direct	-10057 Jun 26 j 14:43	10°♌15'49	
	-10057 Sep 10 j 20:32	15°♌	
evening set	-10057 Oct 04 j 21:32	17°♌51'21	
conjunction	-10057 Oct 21 j 17:38	19°♌59'17	1°47'50
minimum elong	-10057 Oct 21 j 17:42	19°♌59'19	1°48'15
max. Earth dist.	-10057 Oct 21 j 03:53	19°♌54'54	10.35471 AU
morning rise	-10057 Nov 07 j 18:22	22°♌08'47	
	-10056 Feb 06 j 03:59	0°♍	
retrograde	-10056 Feb 22 j 11:29	0°♍13'44	
	-10056 Mar 09 j 21:35	30°℞♌	
opposition	-10056 May 02 j 06:24	26°♌46'34	1°58'19
min. Earth dist.	-10056 May 02 j 15:51	26°♌44'42	8.27423 AU
direct	-10056 Jul 08 j 17:26	23°♌24'01	
	-10056 Oct 07 j 23:02	0°♍	
evening set	-10056 Oct 17 j 05:49	1°♍09'38	
conjunction	-10056 Nov 03 j 07:39	3°♍21'32	1°21'42
minimum elong	-10056 Nov 03 j 07:43	3°♍21'33	1°22'01
max. Earth dist.	-10056 Nov 02 j 23:35	3°♍18'55	10.19686 AU
morning rise	-10056 Nov 20 j 14:41	5°♍35'12	
retrograde	-10055 Mar 08 j 04:58	13°♍53'15	
opposition	-10055 May 16 j 11:49	10°♍24'16	1°22'27
min. Earth dist.	-10055 May 16 j 15:45	10°♍23'29	8.12245 AU
direct	-10055 Jul 22 j 06:06	7°♍00'37	
evening set	-10055 Oct 31 j 03:54	14°♍56'27	
conjunction	-10055 Nov 17 j 11:46	17°♍12'16	0°50'07
minimum elong	-10055 Nov 17 j 11:49	17°♍12'17	0°50'19
max. Earth dist.	-10055 Nov 17 j 09:31	17°♍11'32	10.05379 AU
morning rise	-10055 Dec 05 j 01:19	19°♍29'59	
retrograde	-10054 Mar 23 j 07:23	27°♍59'40	
opposition	-10054 May 31 j 01:18	24°♍29'07	0°40'24
min. Earth dist.	-10054 May 31 j 00:03	24°♍29'22	7.98971 AU
direct	-10054 Aug 05 j 05:44	21°♍04'14	
evening set	-10054 Nov 14 j 16:07	29°♍10'03	
	-10054 Nov 21 j 00:24	0°♎	
conjunction	-10054 Dec 02 j 05:59	1°♎29'30	0°14'39
minimum elong	-10054 Dec 02 j 06:00	1°♎29'30	0°14'43
behind sun begin	-10054 Dec 02 j 03:05	1°♎28'32	
behind sun end	-10054 Dec 02 j 08:55	1°♎30'27	
max. Earth dist.	-10054 Dec 02 j 09:42	1°♎30'43	9.93346 AU
morning rise	-10054 Dec 20 j 01:39	3°♎50'50	
retrograde	-10053 Apr 07 j 16:16	12°♎29'48	
desc. node	-10053 May 01 j 15:40	11°♎58'58	
opposition	-10053 Jun 14 j 21:04	8°♎58'04	-0°05'30
min. Earth dist.	-10053 Jun 14 j 15:03	8°♎59'18	7.88391 AU
direct	-10053 Aug 19 j 15:02	5°♎31'57	
evening set	-10053 Nov 29 j 17:44	13°♎46'55	
conjunction	-10053 Dec 17 j 12:57	16°♎09'21	-0°22'37
minimum elong	-10053 Dec 17 j 12:56	16°♎09'21	0°22'43
max. Earth dist.	-10053 Dec 17 j 22:56	16°♎12'41	9.84383 AU
morning rise	-10052 Jan 04 j 13:40	18°♎33'31	
retrograde	-10052 Apr 22 j 05:03	27°♎18'29	
opposition	-10052 Jun 28 j 21:14	23°♎46'01	-0°52'04
min. Earth dist.	-10052 Jun 28 j 10:35	23°♎48'14	7.81312 AU
direct	-10052 Sep 02 j 08:54	20°♎18'45	
evening set	-10052 Dec 14 j 06:28	28°♎41'06	
	-10052 Dec 24 j 03:19	0°♏	
conjunction	-10051 Jan 01 j 05:52	1°♏05'30	-0°58'54
minimum elong	-10051 Jan 01 j 05:49	1°♏05'28	0°59'08
max. Earth dist.	-10051 Jan 01 j 22:20	1°♏11'02	9.79259 AU
morning rise	-10051 Jan 19 j 09:56	3°♏31'20	
retrograde	-10051 May 07 j 17:47	12°♏18'06	
opposition	-10051 Jul 13 j 22:54	8°♏45'23	-1°35'42
min. Earth dist.	-10051 Jul 13 j 07:55	8°♏48'32	7.78385 AU
direct	-10051 Sep 17 j 09:28	5°♏17'04	
evening set	-10051 Dec 30 j 02:51	13°♏44'10	
	-10050 Jan 08 j 14:50	15°♏	
conjunction	-10050 Jan 17 j 05:02	16°♏09'18	-1°31'26
minimum elong	-10050 Jan 17 j 04:57	16°♏09'17	1°31'48
max. Earth dist.	-10050 Jan 18 j 03:23	16°♏16'50	9.78479 AU
morning rise	-10050 Feb 04 j 10:38	18°♏35'28	
retrograde	-10050 May 23 j 02:36	27°♏19'24	
opposition	-10050 Jul 28 j 22:55	23°♏46'57	-2°12'49
min. Earth dist.	-10050 Jul 28 j 04:14	23°♏50'53	7.79900 AU
direct	-10050 Oct 02 j 13:43	20°♏17'46	
evening set	-10049 Jan 15 j 02:11	28°♏46'21	
	-10049 Jan 24 j 09:02	0°♐	
conjunction	-10049 Feb 02 j 05:39	1°♐11'00	-1°57'41
minimum elong	-10049 Feb 02 j 05:35	1°♐10'58	1°58'10
max. Earth dist.	-10049 Feb 03 j 08:27	1°♐19'58	9.82144 AU
morning rise	-10049 Feb 20 j 11:02	3°♐36'10	
retrograde	-10049 Jun 07 j 04:07	12°♐12'47	
opposition	-10049 Aug 12 j 18:28	8°♐41'07	-2°40'34
min. Earth dist.	-10049 Aug 11 j 21:11	8°♐45'36	7.85737 AU
direct	-10049 Oct 17 j 18:40	5°♐11'22	
evening set	-10048 Jan 30 j 23:19	13°♐37'55	
conjunction	-10048 Feb 18 j 02:40	16°♐00'57	-2°15'49
minimum elong	-10048 Feb 18 j 02:37	16°♐00'56	2°16'22
max. Earth dist.	-10048 Feb 19 j 07:59	16°♐10'39	9.89964 AU
morning rise	-10048 Mar 07 j 06:21	18°♐23'59	
retrograde	-10048 Jun 20 j 19:09	26°♐49'33	
min. Earth dist.	-10048 Aug 25 j 08:30	23°♐23'51	7.95434 AU
opposition	-10048 Aug 26 j 06:54	23°♐19'09	-2°57'14
direct	-10048 Oct 31 j 20:19	19°♐49'10	
evening set	-10047 Feb 14 j 13:22	28°♐10'19	
	-10047 Feb 28 j 16:45	0°♑	
conjunction	-10047 Mar 04 j 15:35	0°♑30'54	-2°24'56
minimum elong	-10047 Mar 04 j 15:34	0°♑30'54	2°25'30
max. Earth dist.	-10047 Mar 05 j 21:24	0°♑40'37	10.01346 AU

Attention, astronomical year style is used: The year -10047 in astronomical counting style is the year 10048 BCE in historical counting style.

morning rise	-10047 Mar 22 j 16:38	2°♑51'01	
retrograde	-10047 Jul 04 j 22:13	11°♑02'53	
opposition	-10047 Sep 09 j 10:28	7°♑34'08	-3°02'21
min. Earth dist.	-10047 Sep 08 j 12:37	7°♑38'40	8.08276 AU
direct	-10047 Nov 15 j 15:33	4°♑04'14	
evening set	-10046 Mar 01 j 16:34	12°♑17'15	
conjunction	-10046 Mar 19 j 16:58	14°♑34'51	-2°25'03
minimum elong	-10046 Mar 19 j 16:59	14°♑34'51	2°25'37
max. Earth dist.	-10046 Mar 20 j 21:08	14°♑43'52	10.15469 AU
morning rise	-10046 Apr 06 j 14:54	16°♑51'35	
retrograde	-10046 Jul 18 j 13:07	24°♑48'18	
min. Earth dist.	-10046 Sep 22 j 08:37	21°♑25'29	8.23374 AU
opposition	-10046 Sep 23 j 04:10	21°♑21'29	-2°56'38
direct	-10046 Nov 30 j 02:46	17°♑52'02	
evening set	-10045 Mar 16 j 06:44	25°♑55'00	
conjunction	-10045 Apr 03 j 04:42	28°♑09'19	-2°16'58
minimum elong	-10045 Apr 03 j 04:45	28°♑09'20	2°17'30
max. Earth dist.	-10045 Apr 04 j 05:02	28°♑16'58	10.31392 AU
	-10045 Apr 17 j 22:25	0°♒	
morning rise	-10045 Apr 20 j 23:14	0°♒22'28	
retrograde	-10045 Jul 31 j 15:06	8°♒03'47	
opposition	-10045 Oct 06 j 11:37	4°♒39'02	-2°41'31
min. Earth dist.	-10045 Oct 05 j 19:12	4°♒42'21	8.39793 AU
direct	-10045 Dec 14 j 04:54	1°♒10'22	
evening set	-10044 Mar 29 j 06:37	9°♒02'16	
conjunction	-10044 Apr 16 j 01:48	11°♒13'15	-2°01'57
minimum elong	-10044 Apr 16 j 01:51	11°♒13'16	2°02'24
max. Earth dist.	-10044 Apr 16 j 20:58	11°♒19'10	10.48182 AU
morning rise	-10044 May 03 j 16:51	13°♒22'51	
	-10044 May 17 j 10:16	15°♒	
retrograde	-10044 Aug 12 j 03:28	20°♒49'31	
opposition	-10044 Oct 18 j 09:13	17°♒26'50	-2°18'51
min. Earth dist.	-10044 Oct 17 j 20:03	17°♒29'27	8.56633 AU
	-10044 Nov 21 j 19:33	15°℞♒	
direct	-10044 Dec 26 j 21:58	13°♒59'13	
	-10043 Jan 30 j 21:09	15°♒	
evening set	-10043 Apr 11 j 16:05	21°♒39'49	
conjunction	-10043 Apr 29 j 08:18	23°♒47'32	-1°41'27
minimum elong	-10043 Apr 29 j 08:22	23°♒47'33	1°41'50
max. Earth dist.	-10043 Apr 29 j 22:10	23°♒51'44	10.64963 AU
morning rise	-10043 May 16 j 19:48	25°♒53'46	
	-10043 Jun 23 j 18:49	0°♓	
retrograde	-10043 Aug 24 j 07:19	3°♓07'15	
	-10043 Oct 28 j 00:27	30°℞♒	
opposition	-10043 Oct 30 j 21:38	29°♒46'31	-1°50'33
min. Earth dist.	-10043 Oct 30 j 11:48	29°♒48'26	8.73060 AU
direct	-10042 Jan 09 j 03:09	26°♒20'09	
	-10042 Mar 19 j 22:58	0°♓	
evening set	-10042 Apr 24 j 12:29	3°♓49'56	
conjunction	-10042 May 12 j 01:31	5°♓54'37	-1°16'58
minimum elong	-10042 May 12 j 01:34	5°♓54'38	1°17'16
max. Earth dist.	-10042 May 12 j 10:29	5°♓57'17	10.80944 AU
morning rise	-10042 May 29 j 09:14	7°♓57'42	
retrograde	-10042 Sep 05 j 02:42	14°♓59'51	
opposition	-10042 Nov 12 j 02:07	11°♓40'56	-1°18'28
min. Earth dist.	-10042 Nov 11 j 20:36	11°♓41'59	8.88357 AU
direct	-10041 Jan 21 j 21:31	8°♓15'55	
evening set	-10041 May 06 j 21:04	15°♓35'53	
conjunction	-10041 May 24 j 06:34	17°♓37'45	-0°49'55
minimum elong	-10041 May 24 j 06:36	17°♓37'46	0°50'07
max. Earth dist.	-10041 May 24 j 10:23	17°♓38'53	10.95463 AU
morning rise	-10041 Jun 10 j 10:32	19°♓38'04	
retrograde	-10041 Sep 16 j 14:46	26°♓31'01	
opposition	-10041 Nov 24 j 00:17	23°♓13'41	-0°44'12
min. Earth dist.	-10041 Nov 23 j 23:44	23°♓13'48	9.01936 AU
direct	-10040 Feb 03 j 07:52	19°♓50'02	
evening set	-10040 May 17 j 19:21	27°♓01'27	
conjunction	-10040 Jun 04 j 01:00	29°♓00'51	-0°21'32
minimum elong	-10040 Jun 04 j 01:01	29°♓00'51	0°21'37
max. Earth dist.	-10040 Jun 03 j 22:47	29°♓00'13	11.07985 AU
	-10040 Jun 12 j 12:46	0°♈	
morning rise	-10040 Jun 21 j 01:24	0°♈58'45	
retrograde	-10040 Sep 26 j 21:01	7°♈44'44	
opposition	-10040 Dec 04 j 17:19	4°♈28'42	-0°09'10
min. Earth dist.	-10040 Dec 04 j 21:29	4°♈27'55	9.13311 AU
direct	-10039 Feb 14 j 09:59	1°♈06'21	
asc. node	-10039 Mar 12 j 19:31	1°♈38'58	
evening set	-10039 May 29 j 09:18	8°♈10'45	
conjunction	-10039 Jun 15 j 11:04	10°♈08'01	0°07'10
minimum elong	-10039 Jun 15 j 11:03	10°♈08'01	0°07'12
behind sun begin	-10039 Jun 15 j 04:35	10°♈06'10	
behind sun end	-10039 Jun 15 j 17:32	10°♈09'51	
max. Earth dist.	-10039 Jun 15 j 03:07	10°♈05'44	11.18081 AU
morning rise	-10039 Jul 02 j 07:59	12°♈03'55	
retrograde	-10039 Oct 07 j 23:44	18°♈45'10	
opposition	-10039 Dec 16 j 06:30	15°♈30'05	0°25'27
min. Earth dist.	-10039 Dec 16 j 14:18	15°♈28'39	9.22090 AU
direct	-10038 Feb 26 j 06:52	12°♈08'57	
evening set	-10038 Jun 09 j 16:38	19°♈07'54	
conjunction	-10038 Jun 26 j 14:38	21°♈03'25	0°35'03
minimum elong	-10038 Jun 26 j 14:36	21°♈03'25	0°35'13
max. Earth dist.	-10038 Jun 26 j 02:48	21°♈00'02	11.25413 AU
morning rise	-10038 Jul 13 j 08:03	22°♈57'44	
retrograde	-10038 Oct 19 j 03:39	29°♈36'30	
opposition	-10038 Dec 27 j 17:54	26°♈22'00	0°58'38
min. Earth dist.	-10038 Dec 28 j 05:20	26°♈19'55	9.27985 AU
direct	-10037 Mar 09 j 21:55	23°♈01'55	
evening set	-10037 Jun 20 j 19:04	29°♈56'59	
	-10037 Jun 21 j 05:51	0°♉	
conjunction	-10037 Jul 07 j 13:22	1°♉51'12	1°01'26
minimum elong	-10037 Jul 07 j 13:19	1°♉51'12	1°01'41
max. Earth dist.	-10037 Jul 06 j 21:43	1°♉46'44	11.29747 AU
morning rise	-10037 Jul 24 j 03:33	3°♉44'23	
retrograde	-10037 Oct 30 j 05:01	10°♉22'48	
opposition	-10036 Jan 08 j 04:49	7°♉08'32	1°29'27
min. Earth dist.	-10036 Jan 08 j 20:23	7°♉05'42	9.30816 AU
direct	-10036 Mar 20 j 08:05	3°♉49'15	
evening set	-10036 Jun 30 j 18:34	10°♉42'08	
conjunction	-10036 Jul 17 j 09:18	12°♉35'27	1°25'30
minimum elong	-10036 Jul 17 j 09:15	12°♉35'27	1°25'51
max. Earth dist.	-10036 Jul 16 j 13:03	12°♉29'40	11.30955 AU
morning rise	-10036 Aug 02 j 20:53	14°♉27'59	
	-10036 Aug 07 j 15:57	15°♉	
retrograde	-10036 Nov 09 j 09:19	21°♉08'09	
opposition	-10035 Jan 18 j 16:20	17°♉53'43	1°57'05
min. Earth dist.	-10035 Jan 19 j 11:26	17°♉50'15	9.30481 AU
	-10035 Mar 08 j 09:19	15°℞♉	
direct	-10035 Mar 31 j 18:17	14°♉34'59	
	-10035 Apr 23 j 21:10	15°♉	
evening set	-10035 Jul 11 j 16:35	21°♉27'19	
max. Earth dist.	-10035 Jul 27 j 05:03	23°♉13'33	11.28968 AU
conjunction	-10035 Jul 28 j 04:21	23°♉20'15	1°46'35

Attention, astronomical year style is used: The year -10035 in astronomical counting style is the year 10036 BCE in historical counting style.

minimum elong	-10035 Jul 28 j 04:18	23°♉20'14	1°46'59	
morning rise	-10035 Aug 13 j 13:50	25°♉12'38		
	-10035 Oct 01 j 20:16	0°♊		
retrograde	-10035 Nov 20 j 16:17	1°♊56'37		
	-10034 Jan 11 j 17:09	30°℞♉		
opposition	-10034 Jan 30 j 06:08	28°♉41'36	2°20'45	
min. Earth dist.	-10034 Jan 31 j 03:16	28°♉37'46	9.26921 AU	
direct	-10034 Apr 12 j 02:48	25°♉23'12		
	-10034 Jul 01 j 14:45	0°♊		
evening set	-10034 Jul 22 j 14:48	2°♊16'37		
max. Earth dist.	-10034 Aug 06 j 23:28	4°♊02'29	11.23772 AU	
conjunction	-10034 Aug 08 j 00:21	4°♊09'41	2°03'59	
minimum elong	-10034 Aug 08 j 00:18	4°♊09'40	2°04'28	
morning rise	-10034 Aug 24 j 08:14	6°♊02'26		
retrograde	-10034 Dec 02 j 06:57	12°♊52'19		
opposition	-10033 Feb 10 j 23:46	9°♊36'24	2°39'40	
min. Earth dist.	-10033 Feb 11 j 22:16	9°♊32'18	9.20179 AU	
direct	-10033 Apr 23 j 13:20	6°♊18'05		
evening set	-10033 Aug 02 j 15:16	13°♊14'15		
conjunction	-10033 Aug 18 j 23:18	15°♊08'02	2°17'05	
minimum elong	-10033 Aug 18 j 23:16	15°♊08'02	2°17'37	
max. Earth dist.	-10033 Aug 17 j 20:32	15°♊00'12	11.15494 AU	
morning rise	-10033 Sep 04 j 06:40	17°♊01'46		
retrograde	-10033 Dec 14 j 03:09	23°♊59'29		
opposition	-10032 Feb 22 j 22:33	20°♊42'21	2°53'04	
min. Earth dist.	-10032 Feb 23 j 22:35	20°♊37'58	9.10471 AU	
direct	-10032 May 03 j 23:56	17°♊23'53		
evening set	-10032 Aug 12 j 19:36	24°♊24'23		
max. Earth dist.	-10032 Aug 27 j 23:00	26°♊11'10	11.04439 AU	
conjunction	-10032 Aug 29 j 03:04	26°♊19'28	2°25'13	
minimum elong	-10032 Aug 29 j 03:03	26°♊19'28	2°25'49	
morning rise	-10032 Sep 14 j 11:06	28°♊14'50		
	-10032 Sep 29 j 23:52	0°♋		
retrograde	-10032 Dec 25 j 06:48	5°♋22'12		
opposition	-10031 Mar 06 j 03:47	2°♋03'32	3°00'09	
min. Earth dist.	-10031 Mar 07 j 04:12	1°♋59'01	8.98160 AU	
	-10031 Apr 05 j 05:45	30°℞♊		
direct	-10031 May 15 j 16:45	28°♊44'37		
	-10031 Jun 23 j 23:35	0°♋		
evening set	-10031 Aug 24 j 05:31	5°♋50'56		
max. Earth dist.	-10031 Sep 08 j 10:36	7°♋39'48	10.91018 AU	
conjunction	-10031 Sep 09 j 13:41	7°♋47'57	2°27'49	
minimum elong	-10031 Sep 09 j 13:41	7°♋47'57	2°28'24	
morning rise	-10031 Sep 25 j 23:22	9°♋45'31		
retrograde	-10030 Jan 06 j 21:34	17°♋04'10		
opposition	-10030 Mar 18 j 16:31	13°♋43'41	3°00'10	
min. Earth dist.	-10030 Mar 19 j 15:30	13°♋39'23	8.83711 AU	
direct	-10030 May 27 j 15:29	10°♋24'07		
evening set	-10030 Sep 04 j 22:51	17°♋37'32		
max. Earth dist.	-10030 Sep 20 j 08:35	19°♋29'37	10.75746 AU	
conjunction	-10030 Sep 21 j 09:02	19°♋37'05	2°24'18	
minimum elong	-10030 Sep 21 j 09:04	19°♋37'06	2°24'52	
morning rise	-10030 Oct 07 j 21:33	21°♋37'29		
retrograde	-10029 Jan 19 j 23:04	29°♋08'44		
opposition	-10029 Mar 31 j 13:51	25°♋46'13	2°52'26	
min. Earth dist.	-10029 Apr 01 j 09:48	25°♋42'27	8.67697 AU	
direct	-10029 Jun 08 j 20:01	22°♋25'50		
evening set	-10029 Sep 17 j 01:22	29°♋47'33		
	-10029 Sep 18 j 18:13	0°♌		
conjunction	-10029 Oct 03 j 14:46	1°♌50'12	2°14'15	
minimum elong	-10029 Oct 03 j 14:49	1°♌50'13	2°14'46	
max. Earth dist.	-10029 Oct 02 j 17:01	1°♌43'27	10.59242 AU	
morning rise	-10029 Oct 20 j 07:29	3°♌54'01		
retrograde	-10028 Feb 02 j 12:27	11°♌38'49		
opposition	-10028 Apr 12 j 20:24	8°♌14'11	2°36'24	
min. Earth dist.	-10028 Apr 13 j 13:02	8°♌10'59	8.50787 AU	
direct	-10028 Jun 20 j 09:03	4°♌52'46		
evening set	-10028 Sep 28 j 14:59	12°♌23'50		
conjunction	-10028 Oct 15 j 08:39	14°♌30'05	1°57'29	
minimum elong	-10028 Oct 15 j 08:43	14°♌30'06	1°57'55	
max. Earth dist.	-10028 Oct 14 j 14:22	14°♌24'17	10.42225 AU	
	-10028 Oct 19 j 07:13	15°♌		
morning rise	-10028 Nov 01 j 06:46	16°♌37'47		
retrograde	-10027 Feb 15 j 13:24	24°♌36'32		
opposition	-10027 Apr 26 j 12:23	21°♌09'49	2°11'56	
min. Earth dist.	-10027 Apr 27 j 01:12	21°♌07'18	8.33762 AU	
direct	-10027 Jul 03 j 06:48	17°♌47'15		
evening set	-10027 Oct 11 j 16:59	25°♌28'26		
conjunction	-10027 Oct 28 j 16:00	27°♌38'37	1°34'08	
minimum elong	-10027 Oct 28 j 16:04	27°♌38'38	1°34'29	
max. Earth dist.	-10027 Oct 28 j 02:49	27°♌34'22	10.25516 AU	
morning rise	-10027 Nov 14 j 20:19	29°♌50'30		
	-10027 Nov 16 j 02:27	0°♍		
retrograde	-10026 Mar 02 j 00:54	8°♍03'02		
opposition	-10026 May 10 j 13:54	4°♍34'19	1°39'23	
min. Earth dist.	-10026 May 10 j 22:03	4°♍32'42	8.17500 AU	
direct	-10026 Jul 16 j 15:57	1°♍10'32		
evening set	-10026 Oct 25 j 08:32	9°♍02'13		
conjunction	-10026 Nov 11 j 13:42	11°♍16'27	1°04'49	
minimum elong	-10026 Nov 11 j 13:45	11°♍16'28	1°05'04	
max. Earth dist.	-10026 Nov 11 j 07:19	11°♍14'22	10.10005 AU	
morning rise	-10026 Nov 29 j 00:32	13°♍32'34		
retrograde	-10025 Mar 16 j 22:40	21°♍57'49		
opposition	-10025 May 25 j 00:06	18°♍27'19	0°59'50	
min. Earth dist.	-10025 May 25 j 02:33	18°♍26'49	8.02916 AU	
direct	-10025 Jul 30 j 11:54	15°♍02'18		
evening set	-10025 Nov 08 j 14:36	23°♍04'22		
conjunction	-10025 Nov 26 j 02:01	25°♍22'29	0°30'50	
minimum elong	-10025 Nov 26 j 02:02	25°♍22'30	0°30'56	
max. Earth dist.	-10025 Nov 26 j 03:03	25°♍22'50	9.96601 AU	
morning rise	-10025 Dec 13 j 19:08	27°♍42'31		
	-10025 Dec 31 j 23:47	0°♎		
retrograde	-10024 Mar 31 j 04:47	6°♎18'23		
opposition	-10024 Jun 07 j 17:25	2°♎46'28	0°15'15	
min. Earth dist.	-10024 Jun 07 j 13:42	2°♎47'14	7.90920 AU	
	-10024 Jul 17 j 02:40	30°℞♍		
direct	-10024 Aug 12 j 17:03	29°♍20'15		
	-10024 Sep 07 j 22:12	0°♎		
desc. node	-10024 Oct 09 j 19:05	2°♎23'52		
evening set	-10024 Nov 22 j 10:33	7°♎31'57		
conjunction	-10024 Dec 10 j 03:44	9°♎53'24	-0°06'02	
minimum elong	-10024 Dec 10 j 03:43	9°♎53'24	0°06'04	
behind sun begin	-10024 Dec 09 j 20:47	9°♎51'06		
behind sun end	-10024 Dec 10 j 10:39	9°♎55'42		
max. Earth dist.	-10024 Dec 10 j 12:20	9°♎56'16	9.86187 AU	
morning rise	-10024 Dec 28 j 02:18	12°♎16'39		
retrograde	-10023 Apr 15 j 17:03	21°♎00'06		
opposition	-10023 Jun 22 j 16:13	17°♎27'12	-0°31'30	
min. Earth dist.	-10023 Jun 22 j 06:30	17°♎29'14	7.82338 AU	
direct	-10023 Aug 27 j 06:31	13°♎59'51		
evening set	-10023 Dec 07 j 18:42	22°♎19'42		
conjunction	-10023 Dec 25 j 16:36	24°♎43'33	-0°43'04	

Attention, astronomical year style is used: The year -10023 in astronomical counting style is the year 10024 BCE in historical counting style.

minimum elong	-10023 Dec 25 j 16:33	24°♎43'32	0°43'14
max. Earth dist.	-10023 Dec 26 j 08:27	24°♎48'53	9.79517 AU
morning rise	-10022 Jan 12 j 19:18	27°♎08'59	
	-10022 Feb 04 j 06:58	0°♏	
retrograde	-10022 May 01 j 07:27	5°♏56'05	
opposition	-10022 Jul 07 j 17:45	2°♏22'46	-1°16'57
min. Earth dist.	-10022 Jul 07 j 02:52	2°♏25'53	7.77811 AU
	-10022 Aug 08 j 01:04	30°℞♎	
direct	-10022 Sep 11 j 04:00	28°♎54'23	
	-10022 Oct 14 j 22:16	0°♏	
evening set	-10022 Dec 23 j 12:22	7°♏20'07	
conjunction	-10021 Jan 10 j 13:37	9°♏45'13	-1°17'37
minimum elong	-10021 Jan 10 j 13:33	9°♏45'12	1°17'56
max. Earth dist.	-10021 Jan 11 j 11:33	9°♏52'37	9.77110 AU
morning rise	-10021 Jan 28 j 18:42	12°♏11'33	
	-10021 Feb 19 j 21:27	15°♏	
retrograde	-10021 May 16 j 19:19	20°♏57'43	
opposition	-10021 Jul 22 j 18:55	17°♏24'35	-1°57'23
min. Earth dist.	-10021 Jul 22 j 00:18	17°♏28'31	7.77696 AU
	-10021 Aug 23 j 10:21	15°℞♏	
direct	-10021 Sep 26 j 06:41	13°♏55'24	
	-10021 Oct 29 j 21:00	15°♏	
evening set	-10020 Jan 08 j 11:10	22°♏24'03	
conjunction	-10020 Jan 26 j 14:13	24°♏49'09	-1°46'57
minimum elong	-10020 Jan 26 j 14:08	24°♏49'07	1°47'22
max. Earth dist.	-10020 Jan 27 j 16:39	24°♏58'01	9.79178 AU
morning rise	-10020 Feb 13 j 19:52	27°♏15'01	
	-10020 Mar 06 j 13:37	0°♐	
retrograde	-10020 May 31 j 01:05	5°♐55'42	
opposition	-10020 Aug 05 j 17:00	2°♐23'21	-2°29'34
min. Earth dist.	-10020 Aug 04 j 19:59	2°♐27'47	7.82020 AU
	-10020 Sep 06 j 00:06	30°℞♏	
direct	-10020 Oct 10 j 11:40	28°♏53'38	
	-10020 Nov 13 j 18:18	0°♐	
evening set	-10019 Jan 23 j 09:50	7°♐21'44	
conjunction	-10019 Feb 10 j 13:15	9°♐45'39	-2°08'51
minimum elong	-10019 Feb 10 j 13:11	9°♐45'38	2°09'22
max. Earth dist.	-10019 Feb 11 j 18:33	9°♐55'23	9.85588 AU
morning rise	-10019 Feb 28 j 17:53	12°♐09'50	
retrograde	-10019 Jun 14 j 21:09	20°♐40'58	
min. Earth dist.	-10019 Aug 19 j 10:49	17°♐14'36	7.90467 AU
opposition	-10019 Aug 20 j 09:06	17°♐09'55	-2°51'15
direct	-10019 Oct 25 j 15:28	13°♐40'01	
evening set	-10018 Feb 08 j 03:44	22°♐04'07	
conjunction	-10018 Feb 26 j 06:26	24°♐25'54	-2°21'59
minimum elong	-10018 Feb 26 j 06:23	24°♐25'53	2°22'33
max. Earth dist.	-10018 Feb 27 j 12:35	24°♐35'47	9.95878 AU
morning rise	-10018 Mar 16 j 08:55	26°♐47'26	
	-10018 Apr 11 j 15:13	0°♑	
retrograde	-10018 Jun 29 j 05:07	5°♑05'49	
opposition	-10018 Sep 03 j 16:56	1°♑36'30	-3°01'24
min. Earth dist.	-10018 Sep 02 j 18:35	1°♑41'09	8.02419 AU
	-10018 Sep 23 j 19:42	30°℞♐	
direct	-10018 Nov 09 j 14:10	28°♐06'45	
	-10018 Dec 25 j 20:19	0°♑	
evening set	-10017 Feb 23 j 12:32	6°♑23'48	
conjunction	-10017 Mar 13 j 13:42	8°♑42'46	-2°25'59
minimum elong	-10017 Mar 13 j 13:42	8°♑42'46	2°26'34
max. Earth dist.	-10017 Mar 14 j 18:49	8°♑52'10	10.09306 AU
morning rise	-10017 Mar 31 j 13:15	11°♑01'04	
retrograde	-10017 Jul 13 j 01:42	19°♑04'42	
opposition	-10017 Sep 17 j 15:20	15°♑37'23	-3°00'16
min. Earth dist.	-10017 Sep 16 j 17:45	15°♑41'49	8.17043 AU
direct	-10017 Nov 24 j 05:48	12°♑08'08	
evening set	-10016 Mar 09 j 08:57	20°♑15'46	
conjunction	-10016 Mar 27 j 08:00	22°♑31'31	-2°21'21
minimum elong	-10016 Mar 27 j 08:02	22°♑31'31	2°21'55
max. Earth dist.	-10016 Mar 28 j 10:48	22°♑40'01	10.24960 AU
morning rise	-10016 Apr 14 j 04:08	24°♑46'13	
	-10016 May 31 j 21:52	0°♒	
retrograde	-10016 Jul 25 j 09:37	2°♒34'22	
	-10016 Sep 19 j 14:03	30°℞♑	
min. Earth dist.	-10016 Sep 29 j 07:59	29°♑13'08	8.33389 AU
opposition	-10016 Sep 30 j 03:33	29°♑09'10	-2°49'01
direct	-10016 Dec 07 j 12:21	25°♑40'43	
	-10015 Feb 19 j 21:55	0°♒	
evening set	-10015 Mar 23 j 15:26	3°♒37'27	
conjunction	-10015 Apr 10 j 12:00	5°♒49'49	-2°09'11
minimum elong	-10015 Apr 10 j 12:03	5°♒49'50	2°09'41
max. Earth dist.	-10015 Apr 11 j 11:14	5°♒57'03	10.41857 AU
morning rise	-10015 Apr 28 j 04:31	8°♒00'54	
	-10015 Jul 13 j 05:50	15°♒	
retrograde	-10015 Aug 07 j 04:47	15°♒33'49	
	-10015 Sep 01 j 07:24	15°℞♒	
opposition	-10015 Oct 13 j 05:30	12°♒10'46	-2°29'24
min. Earth dist.	-10015 Oct 12 j 13:38	12°♒13'56	8.50477 AU
direct	-10015 Dec 21 j 08:54	8°♒43'18	
	-10014 Mar 24 j 17:05	15°♒	
evening set	-10014 Apr 06 j 07:36	16°♒28'37	
conjunction	-10014 Apr 24 j 01:16	18°♒37'39	-1°50'53
minimum elong	-10014 Apr 24 j 01:20	18°♒37'40	1°51'18
max. Earth dist.	-10014 Apr 24 j 19:04	18°♒43'05	10.58997 AU
morning rise	-10014 May 11 j 14:10	20°♒45'13	
retrograde	-10014 Aug 19 j 13:28	28°♒04'05	
opposition	-10014 Oct 25 j 22:01	24°♒43'06	-2°03'19
min. Earth dist.	-10014 Oct 25 j 10:58	24°♒45'16	8.67339 AU
direct	-10013 Jan 03 j 18:15	21°♒16'46	
evening set	-10013 Apr 19 j 09:58	28°♒50'57	
	-10013 Apr 29 j 02:45	0°♓	
conjunction	-10013 May 07 j 00:20	0°♓56'50	-1°27'57
minimum elong	-10013 May 07 j 00:23	0°♓56'51	1°28'17
max. Earth dist.	-10013 May 07 j 11:25	1°♓00'09	10.75452 AU
morning rise	-10013 May 24 j 09:38	3°♓01'09	
retrograde	-10013 Aug 31 j 11:14	10°♓07'48	
opposition	-10013 Nov 07 j 06:03	6°♓48'42	-1°32'41
min. Earth dist.	-10013 Nov 06 j 23:49	6°♓49'54	8.83145 AU
direct	-10012 Jan 16 j 18:23	3°♓23'37	
evening set	-10012 Apr 30 j 23:45	10°♓47'34	
conjunction	-10012 May 18 j 10:39	12°♓50'32	-1°01'52
minimum elong	-10012 May 18 j 10:42	12°♓50'33	1°02'06
max. Earth dist.	-10012 May 18 j 15:03	12°♓51'50	10.90514 AU
morning rise	-10012 Jun 04 j 16:23	14°♓51'58	
retrograde	-10012 Sep 11 j 01:14	21°♓48'33	
opposition	-10012 Nov 18 j 06:50	18°♓31'01	-0°59'12
min. Earth dist.	-10012 Nov 18 j 04:41	18°♓31'26	8.97295 AU
direct	-10011 Jan 28 j 09:57	15°♓07'12	
evening set	-10011 May 13 j 02:27	22°♓22'06	
conjunction	-10011 May 30 j 09:51	24°♓22'29	-0°33'55
minimum elong	-10011 May 30 j 09:52	24°♓22'29	0°34'03
max. Earth dist.	-10011 May 30 j 09:03	24°♓22'15	11.03659 AU
morning rise	-10011 Jun 16 j 11:53	26°♓21'21	
	-10011 Jul 21 j 05:11	0°♈	
retrograde	-10011 Sep 22 j 11:37	3°♈10'02	

Attention, astronomical year style is used: The year -10011 in astronomical counting style is the year 10012 BCE in historical counting style.

	-10011 Nov 28 j 16:46	30°℞♓		
opposition	-10011 Nov 30 j 01:56	29°♓53'47	-0°24'21	
min. Earth dist.	-10011 Nov 30 j 04:05	29°♓53'23	9.09319 AU	
direct	-10010 Feb 09 j 15:16	26°♓31'09		
	-10010 Apr 19 j 21:45	0°♈		
evening set	-10010 May 24 j 20:05	3°♈38'22		
conjunction	-10010 Jun 10 j 23:42	5°♈36'30	-0°05'19	
minimum elong	-10010 Jun 10 j 23:43	5°♈36'30	0°05'20	
behind sun begin	-10010 Jun 10 j 16:54	5°♈34'34		
behind sun end	-10010 Jun 11 j 06:32	5°♈38'27		
max. Earth dist.	-10010 Jun 10 j 18:04	5°♈34'54	11.14462 AU	
morning rise	-10010 Jun 27 j 22:01	7°♈33'12		
asc. node	-10010 Aug 19 j 18:28	12°♈37'39		
retrograde	-10010 Oct 03 j 15:43	14°♈16'12		
opposition	-10010 Dec 11 j 16:50	11°♈00'53	0°10'34	
min. Earth dist.	-10010 Dec 12 j 00:00	10°♈59'33	9.18850 AU	
direct	-10009 Feb 21 j 13:46	7°♈39'18		
evening set	-10009 Jun 05 j 06:16	14°♈40'23		
conjunction	-10009 Jun 22 j 05:55	16°♈36'37	0°23'05	
minimum elong	-10009 Jun 22 j 05:54	16°♈36'37	0°23'12	
max. Earth dist.	-10009 Jun 21 j 18:38	16°♈33'23	11.22604 AU	
morning rise	-10009 Jul 09 j 00:49	18°♈31'34		
retrograde	-10009 Oct 14 j 17:57	25°♈11'06		
opposition	-10009 Dec 23 j 04:59	21°♈56'20	0°44'28	
min. Earth dist.	-10009 Dec 23 j 16:38	21°♈54'12	9.25613 AU	
direct	-10008 Mar 04 j 07:23	18°♈35'39		
evening set	-10008 Jun 15 j 10:31	25°♈32'11		
conjunction	-10008 Jul 02 j 06:21	27°♈26'56	0°50'12	
minimum elong	-10008 Jul 02 j 06:19	27°♈26'55	0°50'26	
max. Earth dist.	-10008 Jul 01 j 14:16	27°♈22'20	11.27858 AU	
morning rise	-10008 Jul 18 j 22:07	29°♈20'35		
	-10008 Jul 24 j 20:08	0°♉		
retrograde	-10008 Oct 24 j 18:36	5°♉58'51		
opposition	-10007 Jan 02 j 15:39	2°♉44'15	1°16'24	
min. Earth dist.	-10007 Jan 03 j 06:29	2°♉41'33	9.29398 AU	
	-10007 Feb 15 j 19:09	30°℞♈		
direct	-10007 Mar 15 j 20:38	29°♈24'17		
	-10007 Apr 12 j 14:48	0°♉		
evening set	-10007 Jun 26 j 10:51	6°♉17'56		
max. Earth dist.	-10007 Jul 12 j 08:09	8°♉06'10	11.30059 AU	
conjunction	-10007 Jul 13 j 03:14	8°♉11'38	1°15'21	
minimum elong	-10007 Jul 13 j 03:11	8°♉11'37	1°15'40	
morning rise	-10007 Jul 29 j 15:59	10°♉04'25		
	-10007 Sep 19 j 05:23	15°♉		
retrograde	-10007 Nov 04 j 22:36	16°♉43'33		
	-10007 Dec 23 j 08:21	15°℞♉		
opposition	-10006 Jan 14 j 02:19	13°♉28'48	1°45'31	
min. Earth dist.	-10006 Jan 14 j 19:50	13°♉25'37	9.30090 AU	
direct	-10006 Mar 27 j 07:14	10°♉09'23		
	-10006 Jun 18 j 14:16	15°♉		
evening set	-10006 Jul 07 j 09:03	17°♉01'48		
conjunction	-10006 Jul 23 j 22:15	18°♉54'55	1°37'49	
minimum elong	-10006 Jul 23 j 22:12	18°♉54'54	1°38'12	
max. Earth dist.	-10006 Jul 23 j 00:21	18°♉48'38	11.29155 AU	
morning rise	-10006 Aug 09 j 08:29	20°♉47'20		
retrograde	-10006 Nov 16 j 03:48	27°♉29'25		
opposition	-10005 Jan 25 j 14:55	24°♉14'12	2°11'01	
min. Earth dist.	-10005 Jan 26 j 11:28	24°♉10'28	9.27688 AU	
direct	-10005 Apr 07 j 14:17	20°♉55'08		
evening set	-10005 Jul 18 j 06:45	27°♉47'58		
conjunction	-10005 Aug 03 j 17:11	29°♉40'59	1°56'54	
minimum elong	-10005 Aug 03 j 17:08	29°♉40'58	1°57'21	
max. Earth dist.	-10005 Aug 02 j 16:09	29°♉33'45	11.25193 AU	
	-10005 Aug 06 j 11:05	0°♊		
morning rise	-10005 Aug 20 j 01:46	1°♊33'34		
retrograde	-10005 Nov 27 j 13:52	8°♊20'40		
opposition	-10004 Feb 06 j 06:32	5°♊04'40	2°32'06	
min. Earth dist.	-10004 Feb 07 j 05:21	5°♊00'30	9.22267 AU	
direct	-10004 Apr 18 j 00:02	1°♊45'44		
evening set	-10004 Jul 28 j 05:48	8°♊40'37		
max. Earth dist.	-10004 Aug 12 j 11:50	10°♊26'22	11.18290 AU	
conjunction	-10004 Aug 13 j 14:21	10°♊34'06	2°11'58	
minimum elong	-10004 Aug 13 j 14:19	10°♊34'05	2°12'29	
morning rise	-10004 Aug 29 j 22:01	12°♊27'25		
retrograde	-10004 Dec 08 j 05:59	19°♊21'27		
opposition	-10003 Feb 17 j 02:20	16°♊04'22	2°48'02	
min. Earth dist.	-10003 Feb 18 j 01:45	16°♊00'05	9.13975 AU	
direct	-10003 Apr 29 j 10:36	12°♊45'26		
evening set	-10003 Aug 08 j 07:51	19°♊43'57		
conjunction	-10003 Aug 24 j 15:35	21°♊38'27	2°22'22	
minimum elong	-10003 Aug 24 j 15:33	21°♊38'27	2°22'56	
max. Earth dist.	-10003 Aug 23 j 13:18	21°♊30'43	11.08639 AU	
morning rise	-10003 Sep 09 j 23:07	23°♊33'04		
	-10003 Nov 23 j 01:30	0°♋		
retrograde	-10003 Dec 20 j 07:27	0°♋35'57		
	-10002 Jan 16 j 23:01	30°℞♊		
opposition	-10002 Mar 01 j 04:14	27°♊17'31	2°58'00	
min. Earth dist.	-10002 Mar 02 j 03:10	27°♊13'18	9.03053 AU	
direct	-10002 May 11 j 00:42	23°♊58'25		
	-10002 Aug 10 j 15:02	0°♋		
evening set	-10002 Aug 19 j 14:43	1°♋02'01		
conjunction	-10002 Sep 04 j 22:32	2°♋58'09	2°27'29	
minimum elong	-10002 Sep 04 j 22:31	2°♋58'09	2°28'04	
max. Earth dist.	-10002 Sep 03 j 20:21	2°♋50'20	10.96546 AU	
morning rise	-10002 Sep 21 j 07:12	4°♋54'40		
retrograde	-10001 Jan 01 j 17:58	12°♋08'05		
opposition	-10001 Mar 13 j 13:24	8°♋48'08	3°01'12	
min. Earth dist.	-10001 Mar 14 j 11:43	8°♋43'59	8.89865 AU	
direct	-10001 May 22 j 18:17	5°♋28'39		
evening set	-10001 Aug 31 j 04:25	12°♋38'46		
max. Earth dist.	-10001 Sep 15 j 11:52	14°♋29'21	10.82430 AU	
conjunction	-10001 Sep 16 j 13:27	14°♋37'06	2°26'42	
minimum elong	-10001 Sep 16 j 13:28	14°♋37'07	2°27'17	
morning rise	-10001 Oct 03 j 00:38	16°♋36'11		
retrograde	-10000 Jan 14 j 13:04	24°♋01'35		
opposition	-10000 Mar 25 j 06:37	20°♋39'55	2°56'55	
min. Earth dist.	-10000 Mar 26 j 03:47	20°♋35'56	8.74887 AU	
direct	-10000 Jun 02 j 19:32	17°♋19'51		
evening set	-10000 Sep 11 j 02:32	24°♋37'47		
conjunction	-10000 Sep 27 j 14:14	26°♋38'57	2°19'33	
minimum elong	-10000 Sep 27 j 14:16	26°♋38'58	2°20'06	
max. Earth dist.	-10000 Sep 26 j 15:22	26°♋31'54	10.66817 AU	
morning rise	-10000 Oct 14 j 05:02	28°♋41'10		
	-10000 Oct 25 j 06:33	0°♌		
retrograde	-9999 Jan 26 j 20:39	6°♌19'44		
opposition	-9999 Apr 07 j 08:55	2°♌56'11	2°44'33	
min. Earth dist.	-9999 Apr 08 j 03:12	2°♌52'42	8.58708 AU	
	-9999 May 24 j 07:31	30°℞♋		
direct	-9999 Jun 15 j 05:50	29°♋35'24		
	-9999 Jul 06 j 19:04	0°♌		
evening set	-9999 Sep 23 j 10:49	7°♌02'11		
max. Earth dist.	-9999 Oct 09 j 07:58	9°♌00'56	10.50345 AU	

Attention, astronomical year style is used: The year -9999 in astronomical counting style is the year 10000 BCE in historical counting style.

conjunction	-9999 Oct 10 j 02:26	9°♌06'44	2°05'44
minimum elong	-9999 Oct 10 j 02:30	9°♌06'45	2°06'13
morning rise	-9999 Oct 26 j 21:56	11°♌12'36	
	-9999 Nov 29 j 01:21	15°♌	
retrograde	-9998 Feb 09 j 17:24	19°♌05'02	
opposition	-9998 Apr 20 j 20:47	15°♌39'33	2°23'44
min. Earth dist.	-9998 Apr 21 j 10:38	15°♌36'52	8.42040 AU
	-9998 Apr 29 j 10:21	15℞♌	
direct	-9998 Jun 27 j 23:24	12°♌17'55	
	-9998 Aug 23 j 02:09	15°♌	
evening set	-9998 Oct 06 j 07:10	19°♌54'24	
conjunction	-9998 Oct 23 j 03:47	22°♌02'43	1°45'12
minimum elong	-9998 Oct 23 j 03:51	22°♌02'45	1°45'36
max. Earth dist.	-9998 Oct 22 j 14:19	21°♌58'25	10.33787 AU
morning rise	-9998 Nov 09 j 05:02	24°♌12'38	
	-9997 Jan 01 j 19:44	0°♍	
retrograde	-9997 Feb 24 j 00:51	2°♍18'57	
	-9997 Apr 19 j 23:38	30℞♌	
opposition	-9997 May 04 j 18:11	28°♌51'34	1°54'37
min. Earth dist.	-9997 May 05 j 02:57	28°♌49'51	8.25710 AU
direct	-9997 Jul 11 j 03:04	25°♌28'55	
	-9997 Sep 22 j 12:46	0°♍	
evening set	-9997 Oct 19 j 16:49	3°♍15'39	
conjunction	-9997 Nov 05 j 19:09	5°♍27'58	1°18'22
minimum elong	-9997 Nov 05 j 19:13	5°♍27'59	1°18'40
max. Earth dist.	-9997 Nov 05 j 10:54	5°♍25'17	10.17989 AU
morning rise	-9997 Nov 23 j 02:53	7°♍42'05	
retrograde	-9996 Mar 09 j 19:02	16°♍01'31	
opposition	-9996 May 18 j 00:41	12°♍32'23	1°17'56
min. Earth dist.	-9996 May 18 j 04:18	12°♍31'39	8.10588 AU
direct	-9996 Jul 23 j 17:34	9°♍08'35	
evening set	-9996 Nov 01 j 16:31	17°♍05'39	
conjunction	-9996 Nov 19 j 00:53	19°♍21'53	0°46'14
minimum elong	-9996 Nov 19 j 00:56	19°♍21'54	0°46'24
max. Earth dist.	-9996 Nov 18 j 22:31	19°♍21'06	10.03815 AU
morning rise	-9996 Dec 06 j 15:09	21°♍40'02	
	-9995 Mar 10 j 14:04	0°♎	
retrograde	-9995 Mar 24 j 22:06	0°♎10'58	
	-9995 Apr 08 j 06:15	30℞♍	
opposition	-9995 Jun 01 j 15:04	26°♍40'17	0°35'17
min. Earth dist.	-9995 Jun 01 j 13:47	26°♍40'33	7.97538 AU
direct	-9995 Aug 06 j 18:16	23°♍15'16	
	-9995 Nov 05 j 13:51	0°♎	
evening set	-9995 Nov 16 j 06:13	1°♎22'13	
conjunction	-9995 Dec 03 j 20:33	3°♎42'01	0°10'26
minimum elong	-9995 Dec 03 j 20:34	3°♎42'01	0°10'28
behind sun begin	-9995 Dec 03 j 14:54	3°♎40'09	
behind sun end	-9995 Dec 04 j 02:15	3°♎43'53	
max. Earth dist.	-9995 Dec 04 j 00:43	3°♎43'23	9.92085 AU
morning rise	-9995 Dec 21 j 16:49	6°♎03'44	
desc. node	-9994 Mar 20 j 21:31	14°♎23'10	
retrograde	-9994 Apr 09 j 07:54	14°♎43'37	
opposition	-9994 Jun 16 j 11:39	11°♎11'45	-0°10'52
min. Earth dist.	-9994 Jun 16 j 05:30	11°♎13'01	7.87325 AU
direct	-9994 Aug 21 j 04:27	7°♎45'30	
evening set	-9994 Dec 01 j 09:02	16°♎01'24	
conjunction	-9994 Dec 19 j 04:43	18°♎24'05	-0°26'53
minimum elong	-9994 Dec 19 j 04:42	18°♎24'04	0°27'00
max. Earth dist.	-9994 Dec 19 j 15:32	18°♎27'42	9.83507 AU
morning rise	-9993 Jan 06 j 05:49	20°♎48'30	
retrograde	-9993 Apr 24 j 21:21	29°♎34'02	
opposition	-9993 Jul 01 j 12:16	26°♎01'29	-0°57'19
min. Earth dist.	-9993 Jul 01 j 01:17	26°♎03'47	7.80632 AU
direct	-9993 Sep 04 j 23:51	22°♎34'06	
	-9993 Dec 09 j 15:45	0°♏	
evening set	-9993 Dec 16 j 22:58	0°♏57'14	
conjunction	-9992 Jan 03 j 22:45	3°♏21'47	-1°02'54
minimum elong	-9992 Jan 03 j 22:42	3°♏21'46	1°03'10
max. Earth dist.	-9992 Jan 04 j 16:11	3°♏27'39	9.78755 AU
morning rise	-9992 Jan 22 j 02:58	5°♏47'45	
retrograde	-9992 May 09 j 10:00	14°♏34'44	
opposition	-9992 Jul 15 j 14:04	11°♏02'01	-1°40'25
min. Earth dist.	-9992 Jul 14 j 22:28	11°♏05'17	7.78073 AU
direct	-9992 Sep 19 j 01:16	7°♏33'38	
	-9992 Dec 24 j 00:06	15°♏	
evening set	-9992 Dec 31 j 20:09	16°♏01'19	
conjunction	-9991 Jan 18 j 22:34	18°♏26'31	-1°34'52
minimum elong	-9991 Jan 18 j 22:29	18°♏26'30	1°35'15
max. Earth dist.	-9991 Jan 19 j 21:59	18°♏34'24	9.78339 AU
morning rise	-9991 Feb 06 j 04:06	20°♏52'42	
retrograde	-9991 May 24 j 18:37	29°♏36'31	
opposition	-9991 Jul 30 j 14:11	26°♏04'07	-2°16'38
min. Earth dist.	-9991 Jul 29 j 18:40	26°♏08'14	7.79951 AU
direct	-9991 Oct 04 j 05:47	22°♏34'56	
	-9990 Jan 08 j 14:43	0°♐	
evening set	-9990 Jan 16 j 19:48	1°♐03'49	
conjunction	-9990 Feb 03 j 23:21	3°♐28'26	-2°00'18
minimum elong	-9990 Feb 03 j 23:17	3°♐28'25	2°00'47
max. Earth dist.	-9990 Feb 05 j 03:10	3°♐37'44	9.82371 AU
morning rise	-9990 Feb 22 j 04:32	5°♐53'31	
retrograde	-9990 Jun 08 j 19:40	14°♐29'42	
min. Earth dist.	-9990 Aug 13 j 11:46	11°♐02'44	7.86148 AU
opposition	-9990 Aug 14 j 09:36	10°♐58'09	-2°43'12
direct	-9990 Oct 19 j 10:06	7°♐28'24	
evening set	-9989 Feb 01 j 16:59	15°♐54'58	
conjunction	-9989 Feb 19 j 20:18	18°♐17'53	-2°17'25
minimum elong	-9989 Feb 19 j 20:15	18°♐17'52	2°17'58
max. Earth dist.	-9989 Feb 21 j 02:15	18°♐27'47	9.90550 AU
morning rise	-9989 Mar 09 j 23:44	20°♐40'45	
retrograde	-9989 Jun 23 j 10:32	29°♐05'33	
opposition	-9989 Aug 28 j 21:41	25°♐35'20	-2°58'31
min. Earth dist.	-9989 Aug 27 j 23:19	25°♐40'01	7.96188 AU
direct	-9989 Nov 03 j 10:50	22°♐05'22	
	-9988 Feb 13 j 20:04	0°♑	
evening set	-9988 Feb 17 j 06:42	0°♑26'15	
conjunction	-9988 Mar 06 j 08:45	2°♑46'39	-2°25'27
minimum elong	-9988 Mar 06 j 08:44	2°♑46'39	2°26'01
max. Earth dist.	-9988 Mar 07 j 14:37	2°♑56'22	10.02261 AU
morning rise	-9988 Mar 24 j 09:33	5°♑06'33	
retrograde	-9988 Jul 06 j 13:44	13°♑17'22	
min. Earth dist.	-9988 Sep 10 j 03:30	9°♑53'16	8.09336 AU
opposition	-9988 Sep 11 j 00:52	9°♑48'51	-3°02'17
direct	-9988 Nov 17 j 06:31	6°♑19'01	
evening set	-9987 Mar 03 j 09:01	14°♑31'27	
conjunction	-9987 Mar 21 j 09:09	16°♑48'49	-2°24'31
minimum elong	-9987 Mar 21 j 09:10	16°♑48'49	2°25'04
max. Earth dist.	-9987 Mar 22 j 12:47	16°♑57'39	10.16670 AU
morning rise	-9987 Apr 08 j 06:52	19°♑05'17	
retrograde	-9987 Jul 20 j 02:39	27°♑00'47	
opposition	-9987 Sep 24 j 17:54	23°♑34'13	-2°55'18
min. Earth dist.	-9987 Sep 23 j 22:44	23°♑38'08	8.24695 AU
direct	-9987 Dec 01 j 18:28	20°♑04'53	
evening set	-9986 Mar 17 j 22:05	28°♑07'02	

Attention, astronomical year style is used: The year -9986 in astronomical counting style is the year 9987 BCE in historical counting style.

	-9986 Apr 02 j 00:40	0°♒	
conjunction	-9986 Apr 04 j 19:48	0°♒21'05	-2°15'29
minimum elong	-9986 Apr 04 j 19:51	0°♒21'06	2°15'59
max. Earth dist.	-9986 Apr 05 j 19:19	0°♒28'28	10.32826 AU
morning rise	-9986 Apr 22 j 14:10	2°♒33'58	
retrograde	-9986 Aug 02 j 02:04	10°♒13'59	
min. Earth dist.	-9986 Oct 07 j 07:53	6°♒52'49	8.41309 AU
opposition	-9986 Oct 08 j 00:28	6°♒49'29	-2°39'06
direct	-9986 Dec 15 j 20:44	3°♒20'57	
evening set	-9985 Mar 31 j 20:45	11°♒11'52	
conjunction	-9985 Apr 18 j 15:45	13°♒22'33	-1°59'39
minimum elong	-9985 Apr 18 j 15:49	13°♒22'34	2°00'06
max. Earth dist.	-9985 Apr 19 j 10:40	13°♒28'23	10.49777 AU
	-9985 May 01 j 21:22	15°♒	
morning rise	-9985 May 06 j 06:33	15°♒31'51	
retrograde	-9985 Aug 14 j 15:10	22°♒57'15	
opposition	-9985 Oct 20 j 21:12	19°♒34'46	-2°15'34
min. Earth dist.	-9985 Oct 20 j 07:36	19°♒37'28	8.58265 AU
direct	-9985 Dec 29 j 11:18	16°♒07'20	
evening set	-9984 Apr 13 j 04:57	23°♒46'49	
conjunction	-9984 Apr 30 j 20:59	25°♒54'15	-1°38'33
minimum elong	-9984 Apr 30 j 21:03	25°♒54'16	1°38'55
max. Earth dist.	-9984 May 01 j 11:20	25°♒58'36	10.66638 AU
morning rise	-9984 May 18 j 08:04	28°♒00'09	
	-9984 Jun 04 j 18:06	0°♓	
retrograde	-9984 Aug 25 j 18:04	5°♓12'25	
opposition	-9984 Nov 01 j 08:51	1°♓51'53	-1°46'40
min. Earth dist.	-9984 Oct 31 j 23:02	1°♓53'47	8.74740 AU
	-9984 Nov 26 j 17:32	30°℞♒	
direct	-9983 Jan 10 j 15:10	28°♒25'41	
	-9983 Feb 24 j 03:16	0°♓	
evening set	-9983 Apr 26 j 00:04	5°♓54'19	
conjunction	-9983 May 13 j 12:48	7°♓58'42	-1°13'39
minimum elong	-9983 May 13 j 12:51	7°♓58'43	1°13'55
max. Earth dist.	-9983 May 13 j 22:08	8°♓01'28	10.82631 AU
morning rise	-9983 May 30 j 20:08	10°♓01'29	
retrograde	-9983 Sep 06 j 11:51	17°♓02'29	
opposition	-9983 Nov 13 j 12:30	13°♓43'45	-1°14'11
min. Earth dist.	-9983 Nov 13 j 07:42	13°♓44'40	8.90027 AU
direct	-9982 Jan 23 j 09:27	10°♓18'52	
evening set	-9982 May 08 j 07:29	17°♓37'44	
conjunction	-9982 May 25 j 16:33	19°♓39'18	-0°46'20
minimum elong	-9982 May 25 j 16:35	19°♓39'18	0°46'31
max. Earth dist.	-9982 May 25 j 19:38	19°♓40'12	10.97102 AU
morning rise	-9982 Jun 11 j 20:13	21°♓39'19	
retrograde	-9982 Sep 17 j 23:02	28°♓31'13	
opposition	-9982 Nov 25 j 09:48	25°♓14'02	-0°39'45
min. Earth dist.	-9982 Nov 25 j 09:46	25°♓14'02	9.03533 AU
direct	-9981 Feb 04 j 18:11	21°♓50'31	
evening set	-9981 May 20 j 04:38	29°♓00'53	
	-9981 May 28 j 18:56	0°♈	
conjunction	-9981 Jun 06 j 09:50	0°♈59'59	-0°17'52
minimum elong	-9981 Jun 06 j 09:51	0°♈59'59	0°17'57
max. Earth dist.	-9981 Jun 06 j 06:50	0°♈59'07	11.09522 AU
morning rise	-9981 Jun 23 j 09:57	2°♈57'37	
retrograde	-9981 Sep 29 j 03:41	9°♈42'43	
opposition	-9981 Dec 07 j 02:02	6°♈26'46	-0°04'42
min. Earth dist.	-9981 Dec 07 j 05:54	6°♈26'03	9.14778 AU
asc. node	-9980 Jan 26 j 06:41	3°♈26'16	
direct	-9980 Feb 16 j 20:52	3°♈04'33	
evening set	-9980 May 30 j 17:28	10°♈07'58	
conjunction	-9980 Jun 16 j 18:53	12°♈04'57	0°10'47
minimum elong	-9980 Jun 16 j 18:53	12°♈04'57	0°10'49
behind sun begin	-9980 Jun 16 j 13:30	12°♈03'26	
behind sun end	-9980 Jun 17 j 00:16	12°♈06'29	
max. Earth dist.	-9980 Jun 16 j 11:17	12°♈02'47	11.19466 AU
morning rise	-9980 Jul 03 j 15:23	14°♈00'36	
retrograde	-9980 Oct 09 j 08:02	20°♈41'08	
opposition	-9980 Dec 17 j 14:37	17°♈26'07	0°29'47
min. Earth dist.	-9980 Dec 17 j 22:14	17°♈24'43	9.23386 AU
direct	-9979 Feb 27 j 16:09	14°♈05'06	
evening set	-9979 Jun 10 j 23:50	21°♈03'09	
conjunction	-9979 Jun 27 j 21:29	22°♈58'27	0°38'30
minimum elong	-9979 Jun 27 j 21:28	22°♈58'26	0°38'41
max. Earth dist.	-9979 Jun 27 j 09:49	22°♈55'06	11.26608 AU
morning rise	-9979 Jul 14 j 14:29	24°♈52'32	
	-9979 Sep 07 j 00:18	0°♉	
retrograde	-9979 Oct 20 j 09:09	1°♉30'42	
	-9979 Dec 04 j 02:47	30°℞♈	
opposition	-9979 Dec 29 j 01:25	28°♈16'16	1°02'40
min. Earth dist.	-9979 Dec 29 j 13:32	28°♈14'03	9.29081 AU
direct	-9978 Mar 11 j 04:25	24°♈56'17	
	-9978 Jun 05 j 00:19	0°♉	
evening set	-9978 Jun 22 j 01:36	1°♉50'38	
conjunction	-9978 Jul 08 j 19:25	3°♉44'37	1°04'36
minimum elong	-9978 Jul 08 j 19:22	3°♉44'36	1°04'53
max. Earth dist.	-9978 Jul 08 j 02:51	3°♉39'53	11.30727 AU
morning rise	-9978 Jul 25 j 09:21	5°♉37'36	
retrograde	-9978 Oct 31 j 11:00	12°♉15'37	
opposition	-9977 Jan 09 j 11:49	9°♉01'23	1°33'06
min. Earth dist.	-9977 Jan 10 j 04:00	8°♉58'26	9.31691 AU
direct	-9977 Mar 22 j 16:16	5°♉42'10	
evening set	-9977 Jul 03 j 00:24	12°♉34'29	
conjunction	-9977 Jul 19 j 14:45	14°♉27'37	1°28'19
minimum elong	-9977 Jul 19 j 14:42	14°♉27'36	1°28'41
max. Earth dist.	-9977 Jul 18 j 18:08	14°♉21'43	11.31709 AU
	-9977 Jul 24 j 07:56	15°♉	
morning rise	-9977 Aug 05 j 02:06	16°♉19'59	
retrograde	-9977 Nov 11 j 14:15	22°♉59'56	
opposition	-9976 Jan 20 j 23:02	19°♉45'29	2°00'15
min. Earth dist.	-9976 Jan 21 j 17:47	19°♉42'05	9.31124 AU
direct	-9976 Apr 02 j 01:02	16°♉26'51	
evening set	-9976 Jul 12 j 21:48	23°♉18'42	
max. Earth dist.	-9976 Jul 28 j 10:43	25°♉04'59	11.29493 AU
conjunction	-9976 Jul 29 j 09:23	25°♉11'30	1°48'57
minimum elong	-9976 Jul 29 j 09:20	25°♉11'29	1°49'23
morning rise	-9976 Aug 14 j 18:32	27°♉03'45	
	-9976 Sep 11 j 13:17	0°♊	
retrograde	-9976 Nov 21 j 23:33	3°♊47'41	
opposition	-9975 Jan 31 j 12:38	0°♊32'39	2°23'20
min. Earth dist.	-9975 Feb 01 j 09:23	0°♊28'53	9.27341 AU
	-9975 Feb 08 j 01:32	30°℞♉	
direct	-9975 Apr 13 j 10:02	27°♉14'19	
	-9975 Jun 13 j 05:14	0°♊	
evening set	-9975 Jul 23 j 19:49	4°♊07'23	
max. Earth dist.	-9975 Aug 08 j 04:06	5°♊53'07	11.24084 AU
conjunction	-9975 Aug 09 j 05:07	6°♊00'22	2°05'51
minimum elong	-9975 Aug 09 j 05:05	6°♊00'21	2°06'20
morning rise	-9975 Aug 25 j 12:49	7°♊53'02	
retrograde	-9975 Dec 03 j 12:13	14°♊42'55	
opposition	-9974 Feb 12 j 06:05	11°♊26'59	2°41'36
min. Earth dist.	-9974 Feb 13 j 05:06	11°♊22'48	9.20392 AU
direct	-9974 Apr 24 j 17:49	8°♊08'43	

Attention, astronomical year style is used: The year -9974 in astronomical counting style is the year 9975 BCE in historical counting style.

evening set	-9974 Aug 03 j 20:06	15°♊04'38	
max. Earth dist.	-9974 Aug 19 j 00:16	16°♊50'17	11.15601 AU
conjunction	-9974 Aug 20 j 03:52	16°♊58'21	2°18'22
minimum elong	-9974 Aug 20 j 03:51	16°♊58'21	2°18'55
morning rise	-9974 Sep 05 j 11:15	18°♊52'04	
retrograde	-9974 Dec 15 j 07:48	25°♊49'57	
opposition	-9973 Feb 24 j 04:56	22°♊32'46	2°54'16
min. Earth dist.	-9973 Feb 25 j 05:36	22°♊28'15	9.10462 AU
direct	-9973 May 06 j 06:13	19°♊14'17	
evening set	-9973 Aug 15 j 00:16	26°♊14'42	
max. Earth dist.	-9973 Aug 30 j 03:45	28°♊01'31	11.04306 AU
conjunction	-9973 Aug 31 j 07:41	28°♊09'47	2°25'53
minimum elong	-9973 Aug 31 j 07:40	28°♊09'47	2°26'28
	-9973 Sep 15 j 21:57	0°♋	
morning rise	-9973 Sep 16 j 15:44	0°♋05'10	
retrograde	-9973 Dec 27 j 13:25	7°♋12'53	
opposition	-9972 Mar 07 j 10:14	3°♋54'09	3°00'34
min. Earth dist.	-9972 Mar 08 j 10:33	3°♋49'40	8.97893 AU
direct	-9972 May 16 j 23:15	0°♋35'16	
evening set	-9972 Aug 25 j 10:20	7°♋41'38	
conjunction	-9972 Sep 10 j 18:41	9°♋38'43	2°27'48
minimum elong	-9972 Sep 10 j 18:41	9°♋38'43	2°28'23
max. Earth dist.	-9972 Sep 09 j 16:01	9°♋30'42	10.90615 AU
morning rise	-9972 Sep 27 j 04:24	11°♋36'22	
retrograde	-9971 Jan 08 j 04:20	18°♋55'33	
opposition	-9971 Mar 19 j 23:08	15°♋34'59	2°59'45
min. Earth dist.	-9971 Mar 20 j 21:42	15°♋30'46	8.83169 AU
direct	-9971 May 28 j 20:55	12°♋15'27	
evening set	-9971 Sep 06 j 04:06	19°♋29'09	
conjunction	-9971 Sep 22 j 14:28	21°♋28'50	2°23'35
minimum elong	-9971 Sep 22 j 14:30	21°♋28'51	2°24'08
max. Earth dist.	-9971 Sep 21 j 13:30	21°♋21'12	10.75072 AU
morning rise	-9971 Oct 09 j 03:13	23°♋29'24	
	-9971 Dec 16 j 20:41	0°♌	
retrograde	-9970 Jan 21 j 07:10	1°♌01'21	
	-9970 Feb 26 j 08:48	30°℞♋	
opposition	-9970 Apr 01 j 20:59	27°♋38'47	2°51'07
min. Earth dist.	-9970 Apr 02 j 17:06	27°♋34'58	8.66888 AU
direct	-9970 Jun 10 j 01:52	24°♋18'24	
	-9970 Sep 04 j 04:12	0°♌	
evening set	-9970 Sep 18 j 07:13	1°♌40'35	
conjunction	-9970 Oct 04 j 20:47	3°♌43'27	2°12'49
minimum elong	-9970 Oct 04 j 20:50	3°♌43'28	2°13'19
max. Earth dist.	-9970 Oct 03 j 22:06	3°♌36'23	10.58325 AU
morning rise	-9970 Oct 21 j 13:58	5°♌47'30	
retrograde	-9969 Feb 03 j 21:20	13°♌33'11	
opposition	-9969 Apr 15 j 04:14	10°♌08'30	2°34'13
min. Earth dist.	-9969 Apr 15 j 21:34	10°♌05'10	8.49752 AU
direct	-9969 Jun 22 j 14:43	6°♌47'04	
evening set	-9969 Sep 30 j 21:35	14°♌18'48	
	-9969 Oct 06 j 09:41	15°♌	
conjunction	-9969 Oct 17 j 15:40	16°♌25'19	1°55'20
minimum elong	-9969 Oct 17 j 15:44	16°♌25'20	1°55'46
max. Earth dist.	-9969 Oct 16 j 21:07	16°♌19'26	10.41112 AU
morning rise	-9969 Nov 03 j 14:19	18°♌33'20	
retrograde	-9968 Feb 17 j 21:35	26°♌33'07	
opposition	-9968 Apr 27 j 20:55	23°♌06'19	2°08'53
min. Earth dist.	-9968 Apr 28 j 10:16	23°♌03'42	8.32562 AU
direct	-9968 Jul 04 j 14:39	19°♌43'42	
evening set	-9968 Oct 13 j 00:37	27°♌25'45	
max. Earth dist.	-9968 Oct 29 j 11:37	29°♌32'12	10.24264 AU
conjunction	-9968 Oct 30 j 00:15	29°♌36'16	1°31'19
minimum elong	-9968 Oct 30 j 00:19	29°♌36'18	1°31'39
	-9968 Nov 02 j 01:48	0°♍	
morning rise	-9968 Nov 16 j 05:03	1°♍48'30	
retrograde	-9967 Mar 03 j 10:21	10°♍02'11	
opposition	-9967 May 11 j 23:12	6°♍33'22	1°35'32
min. Earth dist.	-9967 May 12 j 07:14	6°♍31'46	8.16201 AU
direct	-9967 Jul 18 j 00:55	3°♍09'32	
evening set	-9967 Oct 26 j 17:25	11°♍02'11	
conjunction	-9967 Nov 12 j 23:10	13°♍16'48	1°01'27
minimum elong	-9967 Nov 12 j 23:14	13°♍16'49	1°01'41
max. Earth dist.	-9967 Nov 12 j 17:34	13°♍14'58	10.08690 AU
morning rise	-9967 Nov 30 j 10:27	15°♍33'17	
retrograde	-9966 Mar 18 j 10:07	23°♍59'43	
opposition	-9966 May 26 j 10:14	20°♍29'06	0°55'21
min. Earth dist.	-9966 May 26 j 11:59	20°♍28'45	8.01607 AU
direct	-9966 Jul 31 j 20:30	17°♍04'02	
evening set	-9966 Nov 10 j 00:51	25°♍07'09	
conjunction	-9966 Nov 27 j 12:47	27°♍25'38	0°27'03
minimum elong	-9966 Nov 27 j 12:48	27°♍25'38	0°27'09
max. Earth dist.	-9966 Nov 27 j 14:16	27°♍26'07	9.95323 AU
morning rise	-9966 Dec 15 j 06:21	29°♍46'02	
	-9966 Dec 17 j 01:26	0°♎	
retrograde	-9965 Apr 02 j 18:18	8°♎23'01	
opposition	-9965 Jun 10 j 04:26	4°♎50'59	0°10'22
min. Earth dist.	-9965 Jun 10 j 00:04	4°♎51'53	7.89700 AU
direct	-9965 Aug 15 j 01:42	1°♎24'40	
desc. node	-9965 Sep 02 j 02:28	1°♎43'32	
evening set	-9965 Nov 24 j 22:17	9°♎37'29	
conjunction	-9965 Dec 12 j 15:51	11°♎59'15	-0°09'58
minimum elong	-9965 Dec 12 j 15:50	11°♎59'14	0°10'01
behind sun begin	-9965 Dec 12 j 09:58	11°♎57'18	
behind sun end	-9965 Dec 12 j 21:43	12°♎01'11	
max. Earth dist.	-9965 Dec 13 j 00:27	12°♎02'07	9.85044 AU
morning rise	-9965 Dec 30 j 14:53	14°♎22'50	
retrograde	-9964 Apr 17 j 07:39	23°♎07'11	
opposition	-9964 Jun 24 j 03:57	19°♎34'13	-0°36'28
min. Earth dist.	-9964 Jun 23 j 18:03	19°♎36'17	7.81298 AU
direct	-9964 Aug 28 j 17:12	16°♎06'44	
evening set	-9964 Dec 09 j 07:47	24°♎27'39	
conjunction	-9964 Dec 27 j 05:55	26°♎51'45	-0°46'55
minimum elong	-9964 Dec 27 j 05:52	26°♎51'44	0°47'07
max. Earth dist.	-9964 Dec 27 j 21:25	26°♎56'58	9.78592 AU
morning rise	-9963 Jan 14 j 08:57	29°♎17'25	
	-9963 Jan 19 j 18:54	0°♏	
retrograde	-9963 May 02 j 21:36	8°♏05'08	
opposition	-9963 Jul 09 j 06:03	4°♏31'46	-1°21'36
min. Earth dist.	-9963 Jul 08 j 15:23	4°♏34'51	7.77030 AU
direct	-9963 Sep 12 j 16:21	1°♏03'15	
evening set	-9963 Dec 25 j 02:24	9°♏29'53	
conjunction	-9962 Jan 12 j 03:47	11°♏55'09	-1°21'05
minimum elong	-9962 Jan 12 j 03:42	11°♏55'08	1°21'25
max. Earth dist.	-9962 Jan 13 j 01:16	12°♏02'24	9.76477 AU
morning rise	-9962 Jan 30 j 09:04	14°♏21'37	
	-9962 Feb 04 j 06:05	15°♏	
retrograde	-9962 May 18 j 08:37	23°♏08'04	
opposition	-9962 Jul 24 j 07:34	19°♏34'55	-2°01'22
min. Earth dist.	-9962 Jul 23 j 13:17	19°♏38'47	7.77236 AU
direct	-9962 Sep 27 j 20:01	16°♏05'35	
evening set	-9961 Jan 10 j 01:48	24°♏34'52	
conjunction	-9961 Jan 28 j 04:55	27°♏00'03	-1°49'45

Attention, astronomical year style is used: The year -9961 in astronomical counting style is the year 9962 BCE in historical counting style.

minimum elong	-9961 Jan 28 j 04:51	27°♏00'01	1°50'12
max. Earth dist.	-9961 Jan 29 j 07:02	27°♏08'49	9.78882 AU
morning rise	-9961 Feb 15 j 10:40	29°♏25'56	
	-9961 Feb 19 j 18:56	0°♐	
retrograde	-9961 Jun 02 j 13:27	8°♐06'32	
min. Earth dist.	-9961 Aug 07 j 08:45	4°♐38'36	7.81904 AU
opposition	-9961 Aug 08 j 05:40	4°♐34'11	-2°32'34
direct	-9961 Oct 13 j 01:17	1°♐04'20	
evening set	-9960 Jan 26 j 00:47	9°♐32'46	
conjunction	-9960 Feb 13 j 04:13	11°♐56'40	-2°10'47
minimum elong	-9960 Feb 13 j 04:10	11°♐56'39	2°11'18
max. Earth dist.	-9960 Feb 14 j 09:26	12°♐06'23	9.85638 AU
morning rise	-9960 Mar 02 j 08:46	14°♐20'46	
retrograde	-9960 Jun 16 j 08:56	22°♐51'28	
opposition	-9960 Aug 21 j 21:30	19°♐20'26	-2°53'03
min. Earth dist.	-9960 Aug 20 j 22:52	19°♐25'11	7.90687 AU
direct	-9960 Oct 27 j 04:33	15°♐50'25	
evening set	-9959 Feb 09 j 18:24	24°♐14'30	
conjunction	-9959 Feb 27 j 21:05	26°♐36'12	-2°22'56
minimum elong	-9959 Feb 27 j 21:03	26°♐36'11	2°23'30
max. Earth dist.	-9959 Mar 01 j 03:36	26°♐46'12	9.96259 AU
morning rise	-9959 Mar 17 j 23:21	28°♐57'36	
	-9959 Mar 26 j 04:08	0°♑	
retrograde	-9959 Jun 30 j 17:31	7°♑15'15	
min. Earth dist.	-9959 Sep 04 j 05:54	3°♑50'45	8.02954 AU
opposition	-9959 Sep 05 j 04:56	3°♑45'57	-3°01'56
direct	-9959 Nov 11 j 03:15	0°♑16'09	
evening set	-9958 Feb 25 j 02:31	8°♑32'52	
conjunction	-9958 Mar 15 j 03:41	10°♑51'41	-2°25'56
minimum elong	-9958 Mar 15 j 03:41	10°♑51'41	2°26'30
max. Earth dist.	-9958 Mar 16 j 09:33	11°♑01'19	10.09991 AU
morning rise	-9958 Apr 02 j 02:56	13°♑09'47	
retrograde	-9958 Jul 14 j 13:19	21°♑12'29	
min. Earth dist.	-9958 Sep 18 j 04:44	17°♑49'45	8.17854 AU
opposition	-9958 Sep 19 j 02:47	17°♑45'13	-2°59'34
direct	-9958 Nov 25 j 18:44	14°♑15'57	
evening set	-9957 Mar 11 j 22:13	22°♑23'00	
conjunction	-9957 Mar 29 j 21:12	24°♑38'34	-2°20'21
minimum elong	-9957 Mar 29 j 21:14	24°♑38'34	2°20'54
max. Earth dist.	-9957 Mar 31 j 00:45	24°♑47'17	10.25904 AU
morning rise	-9957 Apr 16 j 16:59	26°♑53'02	
	-9957 May 13 j 05:12	0°♒	
retrograde	-9957 Jul 27 j 20:01	4°♒40'06	
opposition	-9957 Oct 02 j 14:22	1°♒15'02	-2°47'12
min. Earth dist.	-9957 Oct 01 j 18:59	1°♒18'57	8.34438 AU
	-9957 Oct 18 j 10:16	30°℞♑	
direct	-9957 Dec 10 j 00:36	27°♑46'36	
	-9956 Jan 30 j 21:46	0°♒	
evening set	-9956 Mar 25 j 03:47	5°♒42'35	
conjunction	-9956 Apr 12 j 00:07	7°♒54'44	-2°07'21
minimum elong	-9956 Apr 12 j 00:11	7°♒54'45	2°07'50
max. Earth dist.	-9956 Apr 12 j 23:33	8°♒02'00	10.43023 AU
morning rise	-9956 Apr 29 j 16:22	10°♒05'33	
	-9956 Jun 14 j 03:14	15°♒	
retrograde	-9956 Aug 08 j 14:57	17°♒37'21	
	-9956 Oct 05 j 01:03	15°℞♒	
opposition	-9956 Oct 14 j 15:48	14°♒14'27	-2°26'40
min. Earth dist.	-9956 Oct 14 j 00:20	14°♒17'32	8.51743 AU
direct	-9956 Dec 22 j 19:47	10°♒47'03	
	-9955 Mar 07 j 06:17	15°♒	
evening set	-9955 Apr 07 j 18:45	18°♒31'27	

conjunction	-9955 Apr 25 j 12:06	20°♒40'14	-1°48'23
minimum elong	-9955 Apr 25 j 12:10	20°♒40'15	1°48'47
max. Earth dist.	-9955 Apr 26 j 05:31	20°♒45'32	10.60373 AU
morning rise	-9955 May 13 j 00:50	22°♒47'32	
	-9955 Aug 11 j 00:25	0°♓	
retrograde	-9955 Aug 20 j 21:30	0°♓05'15	
	-9955 Aug 30 j 18:52	30°℞♒	
opposition	-9955 Oct 27 j 07:33	26°♒44'25	-1°59'54
min. Earth dist.	-9955 Oct 26 j 20:26	26°♒46'36	8.68812 AU
direct	-9954 Jan 05 j 05:27	23°♒18'11	
	-9954 Apr 13 j 10:48	0°♓	
evening set	-9954 Apr 20 j 19:57	0°♓51'20	
conjunction	-9954 May 08 j 10:02	2°♓56'55	-1°24'59
minimum elong	-9954 May 08 j 10:06	2°♓56'56	1°25'17
max. Earth dist.	-9954 May 08 j 20:49	3°♓00'09	10.77025 AU
morning rise	-9954 May 25 j 19:09	5°♓00'57	
retrograde	-9954 Sep 01 j 18:04	12°♓06'27	
opposition	-9954 Nov 08 j 14:39	8°♓47'29	-1°28'48
min. Earth dist.	-9954 Nov 08 j 07:44	8°♓48'49	8.84782 AU
direct	-9953 Jan 18 j 05:45	5°♓22'31	
evening set	-9953 May 03 j 08:32	12°♓45'21	
conjunction	-9953 May 20 j 19:13	14°♓48'01	-0°58'34
minimum elong	-9953 May 20 j 19:16	14°♓48'01	0°58'48
max. Earth dist.	-9953 May 21 j 00:08	14°♓49'28	10.92203 AU
morning rise	-9953 Jun 07 j 00:36	16°♓49'07	
retrograde	-9953 Sep 13 j 09:13	23°♓44'36	
opposition	-9953 Nov 20 j 14:45	20°♓27'13	-0°55'03
min. Earth dist.	-9953 Nov 20 j 12:13	20°♓27'42	8.98992 AU
direct	-9952 Jan 30 j 18:36	17°♓03'35	
evening set	-9952 May 14 j 10:04	24°♓17'19	
conjunction	-9952 May 31 j 17:10	26°♓17'25	-0°30'29
minimum elong	-9952 May 31 j 17:11	26°♓17'25	0°30'36
max. Earth dist.	-9952 May 31 j 16:58	26°♓17'21	11.05355 AU
morning rise	-9952 Jun 17 j 18:47	28°♓15'59	
	-9952 Jul 03 j 10:22	0°♈	
retrograde	-9952 Sep 23 j 17:12	5°♈03'41	
opposition	-9952 Dec 01 j 09:11	1°♈47'36	-0°20'08
min. Earth dist.	-9952 Dec 01 j 11:49	1°♈47'07	9.10989 AU
	-9952 Dec 26 j 16:27	30°℞♓	
direct	-9951 Feb 10 j 22:48	28°♓25'09	
	-9951 Mar 28 j 12:47	0°♈	
evening set	-9951 May 26 j 02:44	5°♈31'20	
conjunction	-9951 Jun 12 j 05:56	7°♈29'10	-0°01'52
minimum elong	-9951 Jun 12 j 05:55	7°♈29'10	0°01'52
behind sun begin	-9951 Jun 11 j 22:52	7°♈27'09	
behind sun end	-9951 Jun 12 j 12:59	7°♈31'11	
max. Earth dist.	-9951 Jun 11 j 23:43	7°♈27'24	11.16087 AU
morning rise	-9951 Jun 29 j 03:56	9°♈25'35	
asc. node	-9951 Jul 06 j 09:17	10°♈13'59	
retrograde	-9951 Oct 04 j 20:59	16°♈07'45	
opposition	-9951 Dec 12 j 23:18	12°♈52'37	0°14'43
min. Earth dist.	-9951 Dec 13 j 07:03	12°♈51'10	9.20423 AU
direct	-9950 Feb 22 j 21:11	9°♈31'13	
evening set	-9950 Jun 06 j 12:03	16°♈31'23	
conjunction	-9950 Jun 23 j 11:15	18°♈27'21	0°26'25
minimum elong	-9950 Jun 23 j 11:14	18°♈27'21	0°26'32
max. Earth dist.	-9950 Jun 22 j 23:13	18°♈23'54	11.24099 AU
morning rise	-9950 Jul 10 j 05:54	20°♈22'03	
retrograde	-9950 Oct 15 j 21:42	27°♈00'55	
opposition	-9950 Dec 24 j 10:48	23°♈46'18	0°48'24
min. Earth dist.	-9950 Dec 24 j 22:14	23°♈44'12	9.27021 AU
direct	-9949 Mar 06 j 14:01	20°♈25'49	

Attention, astronomical year style is used: The year -9949 in astronomical counting style is the year 9950 BCE in historical counting style.

evening set	-9949 Jun 17 j 15:29	27°♈21'33		
conjunction	-9949 Jul 04 j 11:00	29°♈16'04	0°53'19	
minimum elong	-9949 Jul 04 j 10:58	29°♈16'03	0°53'33	
max. Earth dist.	-9949 Jul 03 j 19:16	29°♈11'34	11.29162 AU	
	-9949 Jul 10 j 20:41	0°♉		
morning rise	-9949 Jul 21 j 02:22	1°♉09'29		
retrograde	-9949 Oct 27 j 00:34	7°♉47'16		
opposition	-9948 Jan 04 j 21:03	4°♉32'49	1°20'00	
min. Earth dist.	-9948 Jan 05 j 11:38	4°♉30'09	9.30592 AU	
direct	-9948 Mar 17 j 03:17	1°♉13'03		
evening set	-9948 Jun 27 j 15:13	8°♉06'01		
conjunction	-9948 Jul 14 j 07:16	9°♉59'31	1°18'10	
minimum elong	-9948 Jul 14 j 07:13	9°♉59'30	1°18'29	
max. Earth dist.	-9948 Jul 13 j 12:17	9°♉54'05	11.31132 AU	
morning rise	-9948 Jul 30 j 19:39	11°♉52'07		
	-9948 Aug 29 j 19:43	15°♉		
retrograde	-9948 Nov 06 j 02:20	18°♉30'53		
opposition	-9947 Jan 15 j 07:23	15°♉16'16	1°48'42	
min. Earth dist.	-9947 Jan 16 j 01:35	15°♉12'57	9.31042 AU	
	-9947 Jan 19 j 00:56	15°℞♉		
direct	-9947 Mar 28 j 10:51	11°♉57'01		
	-9947 Jun 01 j 02:26	15°♉		
evening set	-9947 Jul 08 j 12:56	18°♉48'54		
max. Earth dist.	-9947 Jul 24 j 02:45	20°♉35'15	11.29968 AU	
conjunction	-9947 Jul 25 j 01:44	20°♉41'50	1°40'14	
minimum elong	-9947 Jul 25 j 01:40	20°♉41'49	1°40'38	
morning rise	-9947 Aug 10 j 11:48	22°♉34'07		
retrograde	-9947 Nov 17 j 07:34	29°♉16'01		
opposition	-9946 Jan 26 j 19:36	26°♉00'53	2°13'41	
min. Earth dist.	-9946 Jan 27 j 17:00	25°♉57'00	9.28367 AU	
direct	-9946 Apr 08 j 19:38	22°♉41'56		
evening set	-9946 Jul 19 j 10:12	29°♉34'23		
	-9946 Jul 23 j 04:37	0°♊		
conjunction	-9946 Aug 04 j 20:21	1°♊27'17	1°58'52	
minimum elong	-9946 Aug 04 j 20:18	1°♊27'16	1°59'20	
max. Earth dist.	-9946 Aug 03 j 18:55	1°♊19'56	11.25721 AU	
morning rise	-9946 Aug 21 j 04:47	3°♊19'46		
retrograde	-9946 Nov 28 j 17:11	10°♊06'50		
opposition	-9945 Feb 07 j 10:58	6°♊50'50	2°34'12	
min. Earth dist.	-9945 Feb 08 j 09:46	6°♊46'42	9.22647 AU	
direct	-9945 Apr 20 j 04:11	3°♊32'01		
evening set	-9945 Jul 30 j 08:52	10°♊26'38		
conjunction	-9945 Aug 15 j 17:20	12°♊20'03	2°13'25	
minimum elong	-9945 Aug 15 j 17:18	12°♊20'02	2°13'57	
max. Earth dist.	-9945 Aug 14 j 15:16	12°♊12'27	11.18512 AU	
morning rise	-9945 Sep 01 j 00:47	14°♊13'18		
retrograde	-9945 Dec 10 j 10:39	21°♊07'29		
opposition	-9944 Feb 19 j 06:46	17°♊50'22	2°49'28	
min. Earth dist.	-9944 Feb 20 j 05:54	17°♊46'08	9.14046 AU	
direct	-9944 Apr 30 j 15:06	14°♊31'30		
evening set	-9944 Aug 09 j 10:47	21°♊29'52		
conjunction	-9944 Aug 25 j 18:26	23°♊24'22	2°23'15	
minimum elong	-9944 Aug 25 j 18:24	23°♊24'21	2°23'50	
max. Earth dist.	-9944 Aug 24 j 15:41	23°♊16'29	11.08556 AU	
morning rise	-9944 Sep 11 j 01:56	25°♊18'58		
	-9944 Oct 27 j 05:20	0°♋		
retrograde	-9944 Dec 21 j 12:25	2°♋22'07		
	-9943 Feb 17 j 10:20	30°℞♊		
opposition	-9943 Mar 02 j 08:43	29°♊03'39	2°58'43	
min. Earth dist.	-9943 Mar 03 j 08:12	28°♊59'19	9.02819 AU	
direct	-9943 May 12 j 03:53	25°♊44'32		
	-9943 Jul 26 j 09:14	0°♋		
evening set	-9943 Aug 20 j 17:45	2°♋48'09		
max. Earth dist.	-9943 Sep 04 j 22:15	4°♋36'11	10.96166 AU	
conjunction	-9943 Sep 06 j 01:27	4°♋44'19	2°27'45	
minimum elong	-9943 Sep 06 j 01:27	4°♋44'19	2°28'21	
morning rise	-9943 Sep 22 j 10:18	6°♋40'56		
retrograde	-9942 Jan 02 j 20:49	13°♋54'45		
opposition	-9942 Mar 14 j 17:58	10°♋34'42	3°01'10	
min. Earth dist.	-9942 Mar 15 j 17:10	10°♋30'23	8.89339 AU	
direct	-9942 May 23 j 21:54	7°♋15'10		
evening set	-9942 Sep 01 j 07:32	14°♋25'28		
conjunction	-9942 Sep 17 j 16:41	16°♋23'56	2°26'20	
minimum elong	-9942 Sep 17 j 16:42	16°♋23'56	2°26'55	
max. Earth dist.	-9942 Sep 16 j 14:57	16°♋16'07	10.81772 AU	
morning rise	-9942 Oct 04 j 04:03	18°♋23'08		
retrograde	-9941 Jan 15 j 18:02	25°♋49'09		
opposition	-9941 Mar 27 j 11:31	22°♋27'19	2°56'05	
min. Earth dist.	-9941 Mar 28 j 08:53	22°♋23'18	8.74094 AU	
direct	-9941 Jun 05 j 00:50	19°♋07'10		
evening set	-9941 Sep 13 j 05:56	26°♋25'25		
conjunction	-9941 Sep 29 j 17:57	28°♋26'47	2°18'32	
minimum elong	-9941 Sep 29 j 18:00	28°♋26'48	2°19'04	
max. Earth dist.	-9941 Sep 28 j 19:39	28°♋19'54	10.65905 AU	
	-9941 Oct 12 j 08:52	0°♌		
morning rise	-9941 Oct 16 j 08:58	0°♌29'12		
retrograde	-9940 Jan 29 j 03:06	8°♌08'31		
opposition	-9940 Apr 08 j 14:11	4°♌44'48	2°42'54	
min. Earth dist.	-9940 Apr 09 j 07:58	4°♌41'24	8.57680 AU	
direct	-9940 Jun 16 j 09:44	1°♌23'55		
evening set	-9940 Sep 24 j 14:56	8°♌51'13		
conjunction	-9940 Oct 11 j 06:55	10°♌56'00	2°04'02	
minimum elong	-9940 Oct 11 j 06:59	10°♌56'01	2°04'30	
max. Earth dist.	-9940 Oct 10 j 12:21	10°♌50'09	10.49221 AU	
morning rise	-9940 Oct 28 j 02:45	13°♌02'07		
	-9940 Nov 13 j 12:46	15°♌		
retrograde	-9939 Feb 10 j 23:37	20°♌55'25		
opposition	-9939 Apr 22 j 02:30	17°♌29'46	2°21'17	
min. Earth dist.	-9939 Apr 22 j 16:02	17°♌27'08	8.40825 AU	
	-9939 May 28 j 08:40	15°℞♌		
direct	-9939 Jun 29 j 03:42	14°♌08'00		
	-9939 Jul 30 j 06:31	15°♌		
evening set	-9939 Oct 07 j 12:07	21°♌45'12		
conjunction	-9939 Oct 24 j 09:03	23°♌53'49	1°42'52	
minimum elong	-9939 Oct 24 j 09:07	23°♌53'50	1°43'15	
max. Earth dist.	-9939 Oct 23 j 18:50	23°♌49'16	10.32514 AU	
morning rise	-9939 Nov 10 j 10:49	26°♌04'02		
	-9939 Dec 14 j 05:19	0°♍		
retrograde	-9938 Feb 25 j 08:15	4°♍11'20		
opposition	-9938 May 06 j 00:41	0°♍43'48	1°51'23	
min. Earth dist.	-9938 May 06 j 09:38	0°♍42'02	8.24383 AU	
	-9938 May 15 j 08:35	30°℞♌		
direct	-9938 Jul 12 j 08:14	27°♌21'00		
	-9938 Sep 05 j 05:46	0°♍		
evening set	-9938 Oct 20 j 22:42	5°♍08'35		
conjunction	-9938 Nov 07 j 01:25	7°♍21'14	1°15'28	
minimum elong	-9938 Nov 07 j 01:29	7°♍21'15	1°15'45	
max. Earth dist.	-9938 Nov 06 j 16:36	7°♍18'22	10.16654 AU	
morning rise	-9938 Nov 24 j 09:45	9°♍35'42		
retrograde	-9937 Mar 12 j 03:35	17°♍56'12		
opposition	-9937 May 20 j 08:01	14°♍26'55	1°14'02	
min. Earth dist.	-9937 May 20 j 12:05	14°♍26'06	8.09255 AU	

Attention, astronomical year style is used: The year -9937 in astronomical counting style is the year 9938 BCE in historical counting style.

direct	-9937 Jul 25 j 23:19	11°♍02'59		
evening set	-9937 Nov 03 j 23:39	19°♍01'01		
conjunction	-9937 Nov 21 j 08:32	21°♍17'36	0°42'53	
minimum elong	-9937 Nov 21 j 08:34	21°♍17'37	0°43'02	
max. Earth dist.	-9937 Nov 21 j 06:23	21°♍16'54	10.02533 AU	
morning rise	-9937 Dec 08 j 23:20	23°♍36'07		
	-9936 Feb 05 j 04:37	0°♎		
retrograde	-9936 Mar 26 j 07:20	2°♎08'03		
	-9936 May 16 j 12:41	30°℞♍		
opposition	-9936 Jun 02 j 23:06	28°♍37'16	0°30'54	
min. Earth dist.	-9936 Jun 02 j 21:54	28°♍37'31	7.96333 AU	
direct	-9936 Aug 08 j 01:26	25°♍12'07		
	-9936 Oct 21 j 15:54	0°♎		
evening set	-9936 Nov 17 j 14:40	3°♎20'05		
conjunction	-9936 Dec 05 j 05:33	5°♎40'12	0°06'51	
minimum elong	-9936 Dec 05 j 05:33	5°♎40'12	0°06'51	
behind sun begin	-9936 Dec 04 j 22:47	5°♎37'58		
behind sun end	-9936 Dec 05 j 12:19	5°♎42'26		
max. Earth dist.	-9936 Dec 05 j 10:44	5°♎41'54	9.91000 AU	
morning rise	-9936 Dec 23 j 02:10	8°♎02'12		
desc. node	-9935 Feb 13 j 02:47	13°♎59'09		
retrograde	-9935 Apr 10 j 17:23	16°♎42'53		
opposition	-9935 Jun 17 j 20:22	13°♎10'56	-0°15'28	
min. Earth dist.	-9935 Jun 17 j 13:36	13°♎12'20	7.86400 AU	
direct	-9935 Aug 22 j 13:37	9°♎44'34		
evening set	-9935 Dec 02 j 18:34	18°♎01'17		
conjunction	-9935 Dec 20 j 14:41	20°♎24'12	-0°30'31	
minimum elong	-9935 Dec 20 j 14:39	20°♎24'11	0°30'39	
max. Earth dist.	-9935 Dec 21 j 02:55	20°♎28'18	9.82750 AU	
morning rise	-9934 Jan 07 j 15:58	22°♎48'49		
	-9934 Mar 15 j 03:38	0°♏		
retrograde	-9934 Apr 26 j 06:35	1°♏34'49		
	-9934 Jun 07 j 21:24	30°℞♎		
opposition	-9934 Jul 02 j 21:23	28°♎02'11	-1°01'46	
min. Earth dist.	-9934 Jul 02 j 09:29	28°♎04'40	7.80057 AU	
direct	-9934 Sep 06 j 09:12	24°♎34'43		
	-9934 Nov 24 j 21:12	0°♏		
evening set	-9934 Dec 18 j 09:25	2°♏58'27		
conjunction	-9933 Jan 05 j 09:32	5°♏23'09	-1°06'17	
minimum elong	-9933 Jan 05 j 09:28	5°♏23'08	1°06'33	
max. Earth dist.	-9933 Jan 06 j 04:07	5°♏29'25	9.78337 AU	
morning rise	-9933 Jan 23 j 13:48	7°♏49'13		
	-9933 Mar 30 j 14:41	15°♏		
retrograde	-9933 May 11 j 19:40	16°♏36'23		
	-9933 Jun 23 j 12:05	15°℞♏		
opposition	-9933 Jul 17 j 23:23	13°♏03'38	-1°44'23	
min. Earth dist.	-9933 Jul 17 j 06:59	13°♏07'05	7.77814 AU	
direct	-9933 Sep 21 j 10:02	9°♏35'11		
	-9933 Dec 10 j 02:10	15°♏		
evening set	-9932 Jan 03 j 07:20	18°♏03'21		
conjunction	-9932 Jan 21 j 09:54	20°♏28'37	-1°37'44	
minimum elong	-9932 Jan 21 j 09:49	20°♏28'36	1°38'08	
max. Earth dist.	-9932 Jan 22 j 10:00	20°♏36'44	9.78218 AU	
morning rise	-9932 Feb 08 j 15:23	22°♏54'48		
	-9932 Apr 13 j 16:10	0°♐		
retrograde	-9932 May 26 j 05:00	1°♐38'33		
	-9932 Jul 08 j 04:29	30°℞♏		
opposition	-9932 Jul 31 j 23:37	28°♏06'12	-2°19'48	
min. Earth dist.	-9932 Jul 31 j 03:47	28°♏10'23	7.79973 AU	
direct	-9932 Oct 05 j 14:21	24°♏36'59		
	-9932 Dec 24 j 12:42	0°♐		
evening set	-9931 Jan 18 j 07:16	3°♐06'10		

conjunction	-9931 Feb 05 j 10:47	5°♐30'46	-2°02'25	
minimum elong	-9931 Feb 05 j 10:42	5°♐30'45	2°02'55	
max. Earth dist.	-9931 Feb 06 j 14:48	5°♐40'08	9.82522 AU	
morning rise	-9931 Feb 23 j 15:51	7°♐55'47		
retrograde	-9931 Jun 10 j 06:29	16°♐31'40		
opposition	-9931 Aug 15 j 19:01	13°♐00'14	-2°45'20	
min. Earth dist.	-9931 Aug 14 j 21:24	13°♐04'46	7.86435 AU	
direct	-9931 Oct 20 j 18:58	9°♐30'29		
evening set	-9930 Feb 03 j 04:25	17°♐57'08		
conjunction	-9930 Feb 21 j 07:36	20°♐19'59	-2°18'41	
minimum elong	-9930 Feb 21 j 07:33	20°♐19'58	2°19'14	
max. Earth dist.	-9930 Feb 22 j 13:14	20°♐29'46	9.90963 AU	
morning rise	-9930 Mar 11 j 10:56	22°♐42'45		
	-9930 May 21 j 01:32	0°♑		
retrograde	-9930 Jun 24 j 21:10	1°♑07'00		
	-9930 Jul 29 j 19:57	30°℞♐		
min. Earth dist.	-9930 Aug 29 j 09:03	27°♐41'31	7.96724 AU	
opposition	-9930 Aug 30 j 06:53	27°♐36'57	-2°59'30	
direct	-9930 Nov 04 j 20:56	24°♐07'01		
	-9929 Jan 29 j 18:27	0°♑		
evening set	-9929 Feb 18 j 17:51	2°♑27'47		
conjunction	-9929 Mar 08 j 19:44	4°♑48'04	-2°25'47	
minimum elong	-9929 Mar 08 j 19:44	4°♑48'03	2°26'21	
max. Earth dist.	-9929 Mar 10 j 00:51	4°♑57'32	10.02911 AU	
morning rise	-9929 Mar 26 j 20:28	7°♑07'49		
retrograde	-9929 Jul 08 j 22:26	15°♑17'54		
opposition	-9929 Sep 13 j 09:44	11°♑49'35	-3°02'06	
min. Earth dist.	-9929 Sep 12 j 12:46	11°♑53'56	8.10090 AU	
direct	-9929 Nov 19 j 17:25	8°♑19'50		
evening set	-9928 Mar 04 j 19:40	16°♑31'58		
conjunction	-9928 Mar 22 j 19:36	18°♑49'09	-2°23'56	
minimum elong	-9928 Mar 22 j 19:38	18°♑49'09	2°24'30	
max. Earth dist.	-9928 Mar 23 j 22:30	18°♑57'45	10.17521 AU	
morning rise	-9928 Apr 09 j 17:11	21°♑05'27		
retrograde	-9928 Jul 21 j 09:50	29°♑00'07		
min. Earth dist.	-9928 Sep 25 j 06:56	25°♑37'43	8.25628 AU	
opposition	-9928 Sep 26 j 02:19	25°♑33'46	-2°54'02	
direct	-9928 Dec 03 j 04:43	22°♑04'32		
	-9927 Mar 18 j 11:46	0°♒		
evening set	-9927 Mar 19 j 07:54	0°♒06'10		
conjunction	-9927 Apr 06 j 05:30	2°♒20'02	-2°14'05	
minimum elong	-9927 Apr 06 j 05:33	2°♒20'03	2°14'36	
max. Earth dist.	-9927 Apr 07 j 04:55	2°♒27'23	10.33843 AU	
morning rise	-9927 Apr 23 j 23:39	4°♒32'42		
retrograde	-9927 Aug 03 j 09:55	12°♒11'52		
opposition	-9927 Oct 09 j 08:19	8°♒47'32	-2°36'54	
min. Earth dist.	-9927 Oct 08 j 15:11	8°♒50'59	8.42382 AU	
direct	-9927 Dec 17 j 05:19	5°♒19'09		
evening set	-9926 Apr 02 j 05:41	13°♒09'24		
	-9926 Apr 17 j 08:02	15°♒		
conjunction	-9926 Apr 20 j 00:38	15°♒19'54	-1°57'35	
minimum elong	-9926 Apr 20 j 00:42	15°♒19'55	1°58'01	
max. Earth dist.	-9926 Apr 20 j 20:07	15°♒25'54	10.50913 AU	
morning rise	-9926 May 07 j 15:08	17°♒28'58		
retrograde	-9926 Aug 15 j 22:37	24°♒53'28		
opposition	-9926 Oct 22 j 04:31	21°♒31'10	-2°12'38	
min. Earth dist.	-9926 Oct 21 j 14:52	21°♒33'52	8.59430 AU	
direct	-9926 Dec 30 j 19:10	18°♒03'52		
evening set	-9925 Apr 15 j 13:08	25°♒42'38		
conjunction	-9925 May 03 j 05:00	27°♒49'51	-1°35'56	
minimum elong	-9925 May 03 j 05:04	27°♒49'52	1°36'18	

Attention, astronomical year style is used: The year -9925 in astronomical counting style is the year 9926 BCE in historical counting style.

max. Earth dist.	-9925 May 03 j 19:45	27°♒54'18	10.67839 AU
morning rise	-9925 May 20 j 15:45	29°♒55'31	
	-9925 May 21 j 06:55	0°♓	
retrograde	-9925 Aug 28 j 00:22	7°♓06'53	
opposition	-9925 Nov 03 j 15:41	3°♓46'32	-1°43'12
min. Earth dist.	-9925 Nov 03 j 06:31	3°♓48'19	8.75953 AU
direct	-9924 Jan 12 j 23:06	0°♓20'27	
evening set	-9924 Apr 27 j 07:22	7°♓48'19	
conjunction	-9924 May 14 j 19:47	9°♓52'28	-1°10'40
minimum elong	-9924 May 14 j 19:50	9°♓52'29	1°10'56
max. Earth dist.	-9924 May 15 j 04:37	9°♓55'05	10.83855 AU
morning rise	-9924 Jun 01 j 02:52	11°♓55'01	
retrograde	-9924 Sep 07 j 17:25	18°♓55'11	
opposition	-9924 Nov 14 j 18:49	15°♓36'35	-1°10'22
min. Earth dist.	-9924 Nov 14 j 14:29	15°♓37'25	8.91251 AU
direct	-9923 Jan 24 j 16:16	12°♓11'49	
evening set	-9923 May 09 j 13:45	19°♓29'52	
conjunction	-9923 May 26 j 22:29	21°♓31'12	-0°43'09
minimum elong	-9923 May 26 j 22:31	21°♓31'13	0°43'19
max. Earth dist.	-9923 May 27 j 00:46	21°♓31'53	10.98314 AU
morning rise	-9923 Jun 13 j 02:00	23°♓31'01	
	-9923 Aug 29 j 09:54	0°♈	
retrograde	-9923 Sep 19 j 02:19	0°♈22'09	
	-9923 Oct 10 j 01:20	30°℞♓	
opposition	-9923 Nov 26 j 15:26	27°♓05'04	-0°35'46
min. Earth dist.	-9923 Nov 26 j 15:04	27°♓05'08	9.04723 AU
direct	-9922 Feb 06 j 01:41	23°♓41'38	
	-9922 May 13 j 19:10	0°♈	
evening set	-9922 May 21 j 10:02	0°♈51'13	
conjunction	-9922 Jun 07 j 15:00	2°♈50'05	-0°14'37
minimum elong	-9922 Jun 07 j 15:00	2°♈50'05	0°14'39
behind sun begin	-9922 Jun 07 j 12:01	2°♈49'14	
behind sun end	-9922 Jun 07 j 18:00	2°♈50'56	
max. Earth dist.	-9922 Jun 07 j 12:13	2°♈49'17	11.10678 AU
morning rise	-9922 Jun 24 j 14:48	4°♈47'30	
retrograde	-9922 Sep 30 j 09:14	11°♈31'55	
opposition	-9922 Dec 08 j 07:05	8°♈16'03	-0°00'43
min. Earth dist.	-9922 Dec 08 j 10:34	8°♈15'24	9.15890 AU
asc. node	-9922 Dec 15 j 23:47	7°♈41'49	
direct	-9921 Feb 18 j 03:14	4°♈53'55	
evening set	-9921 Jun 01 j 22:04	11°♈56'33	
conjunction	-9921 Jun 18 j 23:15	13°♈53'20	0°13'59
minimum elong	-9921 Jun 18 j 23:14	13°♈53'20	0°14'03
behind sun begin	-9921 Jun 18 j 19:41	13°♈52'19	
behind sun end	-9921 Jun 19 j 02:47	13°♈54'21	
max. Earth dist.	-9921 Jun 18 j 16:09	13°♈51'19	11.20531 AU
morning rise	-9921 Jul 05 j 19:20	15°♈48'45	
retrograde	-9921 Oct 11 j 11:18	22°♈28'43	
opposition	-9921 Dec 19 j 19:22	19°♈13'44	0°33'37
min. Earth dist.	-9921 Dec 20 j 03:23	19°♈12'16	9.24400 AU
direct	-9920 Feb 29 j 20:06	15°♈52'48	
evening set	-9920 Jun 12 j 03:41	22°♈50'08	
conjunction	-9920 Jun 29 j 00:56	24°♈45'12	0°41'34
minimum elong	-9920 Jun 29 j 00:54	24°♈45'12	0°41'45
max. Earth dist.	-9920 Jun 28 j 12:45	24°♈41'43	11.27562 AU
morning rise	-9920 Jul 15 j 17:41	26°♈39'06	
	-9920 Aug 17 j 01:24	0°♉	
retrograde	-9920 Oct 21 j 12:21	3°♉16'50	
opposition	-9920 Dec 30 j 05:42	0°♉02'25	1°06'15
	-9920 Dec 30 j 18:54	30°℞♈	
min. Earth dist.	-9920 Dec 30 j 18:20	0°♉00'06	9.29983 AU
direct	-9919 Mar 12 j 10:01	26°♈42'28	
	-9919 May 19 j 00:37	0°♉	
evening set	-9919 Jun 23 j 04:49	3°♉36'11	
conjunction	-9919 Jul 09 j 22:15	5°♉29'59	1°07'25
minimum elong	-9919 Jul 09 j 22:12	5°♉29'58	1°07'42
max. Earth dist.	-9919 Jul 09 j 05:11	5°♉25'06	11.31560 AU
morning rise	-9919 Jul 26 j 12:00	7°♉22'48	
retrograde	-9919 Nov 01 j 12:52	14°♉00'27	
opposition	-9918 Jan 10 j 15:31	10°♉46'12	1°36'19
min. Earth dist.	-9918 Jan 11 j 07:24	10°♉43'19	9.32459 AU
direct	-9918 Mar 23 j 20:06	7°♉27'04	
evening set	-9918 Jul 04 j 03:02	14°♉18'49	
	-9918 Jul 10 j 05:24	15°♉	
conjunction	-9918 Jul 20 j 17:10	16°♉11'47	1°30'48
minimum elong	-9918 Jul 20 j 17:07	16°♉11'47	1°31'10
max. Earth dist.	-9918 Jul 19 j 21:12	16°♉06'05	11.32401 AU
morning rise	-9918 Aug 06 j 04:11	18°♉04'00	
retrograde	-9918 Nov 12 j 17:42	24°♉43'43	
opposition	-9917 Jan 22 j 02:30	21°♉29'16	2°03'01
min. Earth dist.	-9917 Jan 22 j 20:40	21°♉25'58	9.31743 AU
direct	-9917 Apr 04 j 05:25	18°♉10'42	
evening set	-9917 Jul 15 j 00:00	25°♉02'05	
conjunction	-9917 Jul 31 j 11:20	26°♉54'45	1°51'01
minimum elong	-9917 Jul 31 j 11:17	26°♉54'44	1°51'27
max. Earth dist.	-9917 Jul 30 j 12:56	26°♉48'19	11.30040 AU
morning rise	-9917 Aug 16 j 20:13	28°♉46'52	
	-9917 Aug 27 j 21:21	0°♊	
retrograde	-9917 Nov 24 j 01:57	5°♊30'39	
opposition	-9916 Feb 02 j 16:00	2°♊15'37	2°25'34
min. Earth dist.	-9916 Feb 03 j 12:58	2°♊11'49	9.27828 AU
	-9916 Mar 08 j 00:57	30°℞♉	
direct	-9916 Apr 14 j 12:08	28°♉57'23	
	-9916 May 21 j 04:18	0°♊	
evening set	-9916 Jul 24 j 21:47	5°♊50'02	
max. Earth dist.	-9916 Aug 09 j 05:11	7°♊35'29	11.24516 AU
conjunction	-9916 Aug 10 j 06:47	7°♊42'54	2°07'27
minimum elong	-9916 Aug 10 j 06:44	7°♊42'53	2°07'57
morning rise	-9916 Aug 26 j 14:26	9°♊35'29	
retrograde	-9916 Dec 04 j 13:53	16°♊25'18	
opposition	-9915 Feb 13 j 09:09	13°♊09'22	2°43'14
min. Earth dist.	-9915 Feb 14 j 08:39	13°♊05'05	9.20779 AU
direct	-9915 Apr 25 j 21:02	9°♊51'08	
evening set	-9915 Aug 04 j 21:45	16°♊46'44	
max. Earth dist.	-9915 Aug 20 j 01:55	18°♊32'21	11.15937 AU
conjunction	-9915 Aug 21 j 05:22	18°♊40'23	2°19'27
minimum elong	-9915 Aug 21 j 05:20	18°♊40'22	2°20'00
morning rise	-9915 Sep 06 j 12:42	20°♊34'01	
retrograde	-9915 Dec 16 j 10:17	27°♊31'53	
opposition	-9914 Feb 25 j 07:43	24°♊14'40	2°55'14
min. Earth dist.	-9914 Feb 26 j 08:08	24°♊10'13	9.10742 AU
direct	-9914 May 07 j 09:31	20°♊56'16	
evening set	-9914 Aug 16 j 01:39	27°♊56'23	
max. Earth dist.	-9914 Aug 31 j 05:56	29°♊43'23	11.04516 AU
conjunction	-9914 Sep 01 j 09:06	29°♊51'26	2°26'24
minimum elong	-9914 Sep 01 j 09:05	29°♊51'26	2°26'59
	-9914 Sep 02 j 13:59	0°♋	
morning rise	-9914 Sep 17 j 17:01	1°♋46'47	
retrograde	-9914 Dec 28 j 15:39	8°♋54'35	
opposition	-9913 Mar 09 j 12:57	5°♋35'49	3°00'50
min. Earth dist.	-9913 Mar 10 j 12:38	5°♋31'26	8.98028 AU
direct	-9913 May 19 j 01:18	2°♋17'00	
evening set	-9913 Aug 27 j 11:41	9°♋23'12	

Attention, astronomical year style is used: The year -9913 in astronomical counting style is the year 9914 BCE in historical counting style.

conjunction	-9913 Sep 12 j 20:03	11°♋20'17	2°27'43
minimum elong	-9913 Sep 12 j 20:03	11°♋20'17	2°28'18
max. Earth dist.	-9913 Sep 11 j 17:18	11°♋12'15	10.90667 AU
morning rise	-9913 Sep 29 j 05:50	13°♋17'57	
retrograde	-9912 Jan 10 j 08:06	20°♋37'18	
opposition	-9912 Mar 21 j 01:53	17°♋16'45	2°59'17
min. Earth dist.	-9912 Mar 22 j 00:29	17°♋12'32	8.83133 AU
direct	-9912 May 29 j 22:41	13°♋57'17	
evening set	-9912 Sep 07 j 05:34	21°♋10'57	
conjunction	-9912 Sep 23 j 15:58	23°♋10'41	2°22'53
minimum elong	-9912 Sep 23 j 15:59	23°♋10'42	2°23'27
max. Earth dist.	-9912 Sep 22 j 14:04	23°♋02'46	10.74953 AU
morning rise	-9912 Oct 10 j 05:01	25°♋11'20	
	-9912 Nov 24 j 10:12	0°♌	
retrograde	-9911 Jan 22 j 09:53	2°♌43'34	
	-9911 Mar 25 j 08:38	30°℞♋	
opposition	-9911 Apr 02 j 23:50	29°♋21'01	2°49'54
min. Earth dist.	-9911 Apr 03 j 20:45	29°♋17'04	8.66671 AU
direct	-9911 Jun 11 j 03:00	26°♋00'40	
	-9911 Aug 20 j 15:35	0°♌	
evening set	-9911 Sep 19 j 08:51	3°♌23'01	
conjunction	-9911 Oct 05 j 22:37	5°♌25'58	2°11'31
minimum elong	-9911 Oct 05 j 22:40	5°♌25'59	2°12'01
max. Earth dist.	-9911 Oct 04 j 23:43	5°♌18'50	10.58028 AU
morning rise	-9911 Oct 22 j 16:08	7°♌30'09	
	-9910 Jan 18 j 00:19	15°♌	
retrograde	-9910 Feb 04 j 23:04	15°♌16'16	
	-9910 Feb 23 j 02:13	15°℞♌	
opposition	-9910 Apr 16 j 07:17	11°♌51'35	2°32'14
min. Earth dist.	-9910 Apr 17 j 01:07	11°♌48'09	8.49362 AU
direct	-9910 Jun 23 j 17:50	8°♌30'11	
	-9910 Sep 23 j 12:14	15°♌	
evening set	-9910 Oct 01 j 23:33	16°♌02'12	
conjunction	-9910 Oct 18 j 18:01	18°♌08'53	1°53'27
minimum elong	-9910 Oct 18 j 18:05	18°♌08'54	1°53'53
max. Earth dist.	-9910 Oct 18 j 00:00	18°♌03'10	10.40649 AU
morning rise	-9910 Nov 04 j 16:57	20°♌17'04	
retrograde	-9909 Feb 19 j 01:25	28°♌17'26	
opposition	-9909 Apr 30 j 00:19	24°♌50'36	2°06'12
min. Earth dist.	-9909 Apr 30 j 13:27	24°♌48'02	8.32024 AU
direct	-9909 Jul 06 j 17:52	21°♌28'02	
evening set	-9909 Oct 15 j 03:11	29°♌10'27	
	-9909 Oct 21 j 15:01	0°♍	
conjunction	-9909 Nov 01 j 03:16	1°♍21'11	1°28'54
minimum elong	-9909 Nov 01 j 03:20	1°♍21'12	1°29'14
max. Earth dist.	-9909 Oct 31 j 15:06	1°♍17'15	10.23667 AU
morning rise	-9909 Nov 18 j 08:23	3°♍33'38	
retrograde	-9908 Mar 04 j 16:03	11°♍47'57	
opposition	-9908 May 13 j 02:56	8°♍19'06	1°32'15
min. Earth dist.	-9908 May 13 j 10:26	8°♍17'36	8.15549 AU
direct	-9908 Jul 19 j 02:51	4°♍55'17	
evening set	-9908 Oct 27 j 20:52	12°♍48'27	
conjunction	-9908 Nov 14 j 02:58	15°♍03'17	0°58'36
minimum elong	-9908 Nov 14 j 03:01	15°♍03'18	0°58'49
max. Earth dist.	-9908 Nov 13 j 21:09	15°♍01'23	10.07999 AU
morning rise	-9908 Dec 01 j 14:36	17°♍20'00	
retrograde	-9907 Mar 19 j 16:12	25°♍47'05	
opposition	-9907 May 27 j 14:23	22°♍16'27	0°51'35
min. Earth dist.	-9907 May 27 j 15:52	22°♍16'09	8.00889 AU
direct	-9907 Aug 01 j 23:10	18°♍51'21	
evening set	-9907 Nov 11 j 05:09	26°♍55'07	

conjunction	-9907 Nov 28 j 17:19	29°♍13'49	0°23'55
minimum elong	-9907 Nov 28 j 17:20	29°♍13'49	0°24'00
max. Earth dist.	-9907 Nov 28 j 18:07	29°♍14'05	9.94600 AU
	-9907 Dec 04 j 12:22	0°♎	
morning rise	-9907 Dec 16 j 11:18	1°♎34'27	
retrograde	-9906 Apr 04 j 00:19	10°♎12'05	
opposition	-9906 Jun 11 j 09:08	6°♎40'00	0°06'20
min. Earth dist.	-9906 Jun 11 j 05:00	6°♎40'51	7.88982 AU
desc. node	-9906 Aug 01 j 11:14	3°♎26'16	
direct	-9906 Aug 16 j 06:01	3°♎13'38	
evening set	-9906 Nov 26 j 03:26	11°♎27'09	
conjunction	-9906 Dec 13 j 21:13	13°♎49'07	-0°13'12
minimum elong	-9906 Dec 13 j 21:13	13°♎49'07	0°13'16
behind sun begin	-9906 Dec 13 j 17:03	13°♎47'44	
behind sun end	-9906 Dec 14 j 01:23	13°♎50'30	
max. Earth dist.	-9906 Dec 14 j 05:05	13°♎51'44	9.84352 AU
morning rise	-9906 Dec 31 j 20:39	16°♎12'55	
retrograde	-9905 Apr 19 j 13:15	24°♎57'50	
opposition	-9905 Jun 26 j 09:06	21°♎24'49	-0°40'31
min. Earth dist.	-9905 Jun 25 j 23:45	21°♎26'46	7.80643 AU
direct	-9905 Aug 30 j 22:11	17°♎57'14	
evening set	-9905 Dec 11 j 13:56	26°♎18'53	
conjunction	-9905 Dec 29 j 12:16	28°♎43'09	-0°50'03
minimum elong	-9905 Dec 29 j 12:13	28°♎43'08	0°50'16
max. Earth dist.	-9905 Dec 30 j 03:08	28°♎48'10	9.77985 AU
	-9904 Jan 08 j 00:27	0°♏	
morning rise	-9904 Jan 16 j 15:33	1°♏08'59	
retrograde	-9904 May 04 j 03:07	9°♏57'06	
opposition	-9904 Jul 10 j 11:27	6°♏23'43	-1°25'22
min. Earth dist.	-9904 Jul 09 j 21:20	6°♏26'41	7.76487 AU
direct	-9904 Sep 13 j 21:30	2°♏55'05	
evening set	-9904 Dec 26 j 09:17	11°♏22'23	
conjunction	-9903 Jan 13 j 10:49	13°♏47'46	-1°23'52
minimum elong	-9903 Jan 13 j 10:44	13°♏47'45	1°24'13
max. Earth dist.	-9903 Jan 14 j 08:03	13°♏54'56	9.76001 AU
	-9903 Jan 22 j 09:11	15°♏	
morning rise	-9903 Jan 31 j 16:12	16°♏14'20	
retrograde	-9903 May 19 j 14:37	25°♏01'00	
opposition	-9903 Jul 25 j 13:15	21°♏27'50	-2°04'33
min. Earth dist.	-9903 Jul 24 j 19:05	21°♏31'40	7.76846 AU
direct	-9903 Sep 29 j 01:48	17°♏58'22	
evening set	-9902 Jan 11 j 09:05	26°♏28'10	
conjunction	-9902 Jan 29 j 12:21	28°♏53'25	-1°51'58
minimum elong	-9902 Jan 29 j 12:17	28°♏53'23	1°52'26
max. Earth dist.	-9902 Jan 30 j 14:41	29°♏02'16	9.78574 AU
	-9902 Feb 06 j 18:53	0°♐	
morning rise	-9902 Feb 16 j 18:03	1°♐19'20	
retrograde	-9902 Jun 03 j 19:45	9°♐59'58	
opposition	-9902 Aug 09 j 11:25	6°♐27'34	-2°34'56
min. Earth dist.	-9902 Aug 08 j 14:08	6°♐32'04	7.81689 AU
direct	-9902 Oct 14 j 07:35	2°♐57'36	
evening set	-9901 Jan 27 j 08:26	11°♐26'23	
conjunction	-9901 Feb 14 j 12:00	13°♐50'18	-2°12'17
minimum elong	-9901 Feb 14 j 11:56	13°♐50'17	2°12'48
max. Earth dist.	-9901 Feb 15 j 17:44	14°♐00'12	9.85512 AU
morning rise	-9901 Mar 04 j 16:24	16°♐14'23	
retrograde	-9901 Jun 18 j 15:22	24°♐44'52	
min. Earth dist.	-9901 Aug 23 j 04:02	21°♐18'40	7.90652 AU
opposition	-9901 Aug 24 j 03:11	21°♐13'48	-2°54'26
direct	-9901 Oct 29 j 11:18	17°♐43'41	
evening set	-9900 Feb 12 j 02:06	26°♐07'56	

Attention, astronomical year style is used: The year -9900 in astronomical counting style is the year 9901 BCE in historical counting style.

conjunction	-9900 Mar	01 j 04:51	28°♐29'35	-2°23'37
minimum elong	-9900 Mar	01 j 04:49	28°♐29'35	2°24'11
max. Earth dist.	-9900 Mar	02 j 12:01	28°♐39'49	9.96315 AU
	-9900 Mar	12 j 17:13	0°♑	
morning rise	-9900 Mar	19 j 06:52	0°♑50'55	
retrograde	-9900 Jul	01 j 23:27	9°♑08'12	
min. Earth dist.	-9900 Sep	05 j 11:17	5°♑43'44	8.03094 AU
opposition	-9900 Sep	06 j 10:36	5°♑38'53	-3°02'15
direct	-9900 Nov	12 j 09:48	2°♑09'00	
evening set	-9899 Feb	26 j 09:50	10°♑25'39	

conjunction	-9899 Mar	16 j 10:58	12°♑44'24	-2°25'47
minimum elong	-9899 Mar	16 j 10:58	12°♑44'24	2°26'21
max. Earth dist.	-9899 Mar	17 j 17:24	12°♑54'13	10.10221 AU
morning rise	-9899 Apr	03 j 09:59	15°♑02'23	
retrograde	-9899 Jul	15 j 18:58	23°♑04'35	
min. Earth dist.	-9899 Sep	19 j 10:31	19°♑41'49	8.18164 AU
opposition	-9899 Sep	20 j 08:16	19°♑37'21	-2°58'52
direct	-9899 Nov	27 j 00:10	16°♑08'01	