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

retrograde	-10400 Jan 15 j 08:08	14°♋53'31	
opposition	-10400 Mar 16 j 21:09	9°♋57'43	2°06'46
min. Earth dist.	-10400 Mar 17 j 02:22	9°♋56'04	4.20803 AU
direct	-10400 May 16 j 14:03	5°♋04'12	
evening set	-10400 Sep 17 j 00:39	23°♋21'50	
conjunction	-10400 Sep 29 j 15:49	26°♋17'38	1°07'09
minimum elong	-10400 Sep 29 j 15:54	26°♋17'41	1°07'42
max. Earth dist.	-10400 Sep 29 j 17:31	26°♋18'38	6.16831 AU
morning rise	-10400 Oct 12 j 09:12	29°♋14'47	
	-10400 Oct 15 j 15:44	0°♌	
	-10399 Jan 01 j 02:21	15°♌	
retrograde	-10399 Feb 18 j 20:44	18°♌27'53	
	-10399 Apr 09 j 04:32	15°℞♌	
opposition	-10399 Apr 21 j 03:03	13°♌28'19	1°02'20
min. Earth dist.	-10399 Apr 20 j 20:10	13°♌30'33	4.13181 AU
direct	-10399 Jun 19 j 14:57	8°♌35'27	
	-10399 Aug 24 j 06:17	15°♌	
evening set	-10399 Oct 20 j 13:06	27°♌08'52	
	-10399 Nov 01 j 17:31	0°♍	
conjunction	-10399 Nov 02 j 13:54	0°♍11'57	0°13'44
minimum elong	-10399 Nov 02 j 13:55	0°♍11'57	0°14'04
behind sun begin	-10399 Nov 02 j 09:49	0°♍09'34	
behind sun end	-10399 Nov 02 j 18:02	0°♍14'21	
max. Earth dist.	-10399 Nov 03 j 07:55	0°♍22'30	6.10094 AU
morning rise	-10399 Nov 15 j 18:22	3°♍16'58	
desc. node	-10398 Feb 02 j 02:31	18°♍56'50	
retrograde	-10398 Mar 27 j 00:10	23°♍03'00	
opposition	-10398 May 26 j 17:30	17°♍59'54	-0°25'43
min. Earth dist.	-10398 May 25 j 23:16	18°♍05'59	4.07896 AU
direct	-10398 Jul 24 j 05:21	13°♍05'43	
	-10398 Nov 16 j 09:41	0°♎	
evening set	-10398 Nov 24 j 20:16	1°♎57'24	
conjunction	-10398 Dec 08 j 06:14	5°♎05'53	-0°45'33
minimum elong	-10398 Dec 08 j 06:09	5°♎05'50	0°45'32
max. Earth dist.	-10398 Dec 09 j 13:49	5°♎24'24	6.06736 AU
morning rise	-10398 Dec 21 j 19:25	8°♎16'05	
retrograde	-10397 May 02 j 05:25	28°♎12'04	
min. Earth dist.	-10397 Jun 30 j 06:00	23°♎14'15	4.06879 AU
opposition	-10397 Jul 01 j 03:08	23°♎07'04	-1°45'39
direct	-10397 Aug 28 j 07:44	18°♎10'00	
	-10397 Nov 29 j 02:11	0°♏	
evening set	-10397 Dec 31 j 12:44	7°♏15'22	
conjunction	-10396 Jan 14 j 04:00	10°♏25'21	-1°28'33
minimum elong	-10396 Jan 14 j 03:55	10°♏25'18	1°28'52
max. Earth dist.	-10396 Jan 15 j 12:37	10°♏44'18	6.08020 AU
morning rise	-10396 Jan 27 j 21:18	13°♏36'17	
	-10396 Feb 02 j 23:02	15°♏	
	-10396 Apr 20 j 21:19	0°♐	
retrograde	-10396 Jun 05 j 11:38	3°♐12'57	
	-10396 Jul 20 j 21:48	30°℞♏	
opposition	-10396 Aug 03 j 19:00	28°♏08'34	-2°26'39
min. Earth dist.	-10396 Aug 03 j 00:50	28°♏14'47	4.10462 AU
direct	-10396 Oct 01 j 08:10	23°♏08'04	
	-10396 Dec 08 j 21:50	0°♐	
evening set	-10395 Feb 05 j 12:11	12°♐15'12	
conjunction	-10395 Feb 19 j 05:05	15°♐23'22	-1°39'14
minimum elong	-10395 Feb 19 j 05:06	15°♐23'22	1°39'47
max. Earth dist.	-10395 Feb 20 j 01:48	15°♐35'15	6.13481 AU
morning rise	-10395 Mar 04 j 22:04	18°♐31'24	
	-10395 Apr 28 j 12:20	0°♑	
retrograde	-10395 Jul 09 j 11:38	7°♑26'22	
opposition	-10395 Sep 06 j 11:31	2°♑24'45	-2°15'19
min. Earth dist.	-10395 Sep 06 j 03:57	2°♑27'20	4.17260 AU
	-10395 Sep 25 j 00:02	30°℞♐	
direct	-10395 Nov 05 j 02:00	27°♐21'32	
	-10395 Dec 16 j 13:31	0°♑	
evening set	-10394 Mar 13 j 13:36	16°♑16'56	
conjunction	-10394 Mar 27 j 05:09	19°♑21'24	-1°15'25
minimum elong	-10394 Mar 27 j 05:15	19°♑21'27	1°16'00
max. Earth dist.	-10394 Mar 27 j 08:53	19°♑23'31	6.21099 AU
morning rise	-10394 Apr 09 j 18:35	22°♑24'43	
	-10394 May 15 j 00:33	0°♒	
retrograde	-10394 Aug 11 j 03:22	10°♒32'24	
opposition	-10394 Oct 09 j 06:50	5°♒34'37	-1°19'43
min. Earth dist.	-10394 Oct 09 j 10:17	5°♒33'28	4.24926 AU
direct	-10394 Dec 09 j 01:58	0°♒30'20	
	-10393 Mar 29 j 04:46	15°♒	
evening set	-10393 Apr 17 j 02:03	19°♒06'53	
conjunction	-10393 Apr 30 j 12:08	22°♒06'22	-0°27'45
minimum elong	-10393 Apr 30 j 12:11	22°♒06'23	0°28'09
max. Earth dist.	-10393 Apr 29 j 20:28	21°♒57'37	6.28304 AU
morning rise	-10393 May 13 j 19:09	25°♒04'10	
	-10393 Jun 05 j 12:17	0°♓	
retrograde	-10393 Sep 12 j 00:27	12°♓36'05	
opposition	-10393 Nov 10 j 14:06	7°♓41'49	-0°01'10
min. Earth dist.	-10393 Nov 11 j 05:08	7°♓36'54	4.31026 AU
asc. node	-10393 Nov 16 j 04:51	6°♓57'49	
direct	-10392 Jan 11 j 12:06	2°♓38'15	
evening set	-10392 May 19 j 01:20	20°♓57'07	
max. Earth dist.	-10392 May 31 j 00:18	23°♓36'24	6.32872 AU
conjunction	-10392 Jun 01 j 02:48	23°♓51'10	0°27'28
minimum elong	-10392 Jun 01 j 02:45	23°♓51'08	0°27'21
morning rise	-10392 Jun 14 j 00:37	26°♓43'25	
	-10392 Jun 29 j 00:33	0°♈	
retrograde	-10392 Oct 12 j 14:28	14°♈00'49	
opposition	-10392 Dec 11 j 21:08	9°♈08'45	1°16'15
min. Earth dist.	-10392 Dec 12 j 17:26	9°♈02'14	4.33808 AU
direct	-10391 Feb 12 j 07:34	4°♈07'28	
evening set	-10391 Jun 19 j 20:58	22°♈14'52	
max. Earth dist.	-10391 Jul 01 j 06:00	24°♈47'13	6.33580 AU
conjunction	-10391 Jul 02 j 12:43	25°♈04'25	1°14'03
minimum elong	-10391 Jul 02 j 12:38	25°♈04'22	1°14'14
morning rise	-10391 Jul 15 j 01:54	27°♈52'42	
	-10391 Jul 24 j 16:29	0°♉	
	-10391 Oct 30 j 15:11	15°♉	
retrograde	-10391 Nov 13 j 18:02	15°♉18'39	
	-10391 Nov 27 j 20:30	15°℞♉	
opposition	-10390 Jan 13 j 15:44	10°♉26'59	2°11'21
min. Earth dist.	-10390 Jan 14 j 13:17	10°♉20'08	4.32514 AU
direct	-10390 Mar 17 j 01:30	5°♉28'40	
	-10390 Jun 10 j 21:02	15°♉	
evening set	-10390 Jul 21 j 02:17	23°♉32'24	
max. Earth dist.	-10390 Aug 01 j 10:01	26°♉05'44	6.30251 AU
conjunction	-10390 Aug 02 j 11:51	26°♉20'22	1°39'09
minimum elong	-10390 Aug 02 j 11:49	26°♉20'20	1°39'36
morning rise	-10390 Aug 14 j 20:21	29°♉07'54	
	-10390 Aug 18 j 17:12	0°♊	
retrograde	-10390 Dec 16 j 19:37	17°♊02'02	
opposition	-10389 Feb 16 j 05:45	12°♊08'49	2°28'26
min. Earth dist.	-10389 Feb 16 j 20:05	12°♊04'16	4.27443 AU

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

direct	-10389 Apr 18 j 21:39	7°♊13'28	
evening set	-10389 Aug 21 j 10:00	25°♊21'06	
conjunction	-10389 Sep 02 j 19:37	28°♊11'33	1°34'58
minimum elong	-10389 Sep 02 j 19:40	28°♊11'35	1°35'32
max. Earth dist.	-10389 Sep 02 j 06:40	28°♊04'07	6.23804 AU
	-10389 Sep 10 j 16:31	0°♋	
morning rise	-10389 Sep 15 j 05:59	1°♋02'34	
retrograde	-10388 Jan 20 j 06:09	19°♋37'25	
opposition	-10388 Mar 21 j 18:23	14°♋41'10	1°59'59
min. Earth dist.	-10388 Mar 21 j 22:36	14°♋39'49	4.20018 AU
direct	-10388 May 21 j 08:14	9°♋47'52	
evening set	-10388 Sep 21 j 14:14	28°♋06'13	
	-10388 Sep 29 j 18:26	0°♌	
conjunction	-10388 Oct 04 j 06:25	1°♌02'49	1°00'47
minimum elong	-10388 Oct 04 j 06:30	1°♌02'52	1°01'19
max. Earth dist.	-10388 Oct 04 j 09:20	1°♌04'31	6.16105 AU
morning rise	-10388 Oct 17 j 01:20	4°♌00'57	
	-10388 Dec 07 j 08:14	15°♌	
retrograde	-10387 Feb 23 j 18:07	23°♌18'14	
opposition	-10387 Apr 26 j 00:48	18°♌18'08	0°50'55
min. Earth dist.	-10387 Apr 25 j 15:24	18°♌21'12	4.12562 AU
	-10387 May 23 j 21:07	15°℞♌	
direct	-10387 Jun 24 j 08:27	13°♌25'11	
	-10387 Jul 25 j 14:35	15°♌	
	-10387 Oct 16 j 15:42	0°♍	
evening set	-10387 Oct 25 j 07:10	2°♍00'05	
conjunction	-10387 Nov 07 j 09:26	5°♍03'58	0°05'27
minimum elong	-10387 Nov 07 j 09:26	5°♍03'58	0°05'45
behind sun begin	-10387 Nov 07 j 01:36	4°♍59'24	
behind sun end	-10387 Nov 07 j 17:15	5°♍08'33	
max. Earth dist.	-10387 Nov 08 j 06:15	5°♍16'10	6.09639 AU
morning rise	-10387 Nov 20 j 15:06	8°♍09'46	
desc. node	-10387 Dec 13 j 07:51	13°♍19'48	
retrograde	-10386 Apr 01 j 00:53	27°♍58'01	
opposition	-10386 May 31 j 14:49	22°♍54'34	-0°37'57
min. Earth dist.	-10386 May 30 j 20:57	23°♍00'33	4.07636 AU
direct	-10386 Jul 29 j 01:58	18°♍00'04	
	-10386 Oct 30 j 06:23	0°♎	
evening set	-10386 Nov 29 j 19:13	6°♎53'37	
conjunction	-10386 Dec 13 j 06:03	10°♎02'30	-0°52'51
minimum elong	-10386 Dec 13 j 05:58	10°♎02'26	0°52'54
max. Earth dist.	-10386 Dec 14 j 13:35	10°♎20'58	6.06678 AU
morning rise	-10386 Dec 26 j 20:11	13°♎13'04	
	-10385 Mar 22 j 18:16	0°♏	
retrograde	-10385 May 07 j 02:26	3°♏08'12	
	-10385 Jun 21 j 06:01	30°℞♎	
opposition	-10385 Jul 05 j 22:22	28°♎03'11	-1°54'05
min. Earth dist.	-10385 Jul 05 j 00:50	28°♎10'31	4.07060 AU
direct	-10385 Sep 02 j 01:54	23°♎05'41	
	-10385 Nov 09 j 02:01	0°♏	
evening set	-10384 Jan 05 j 14:39	12°♏12'32	
	-10384 Jan 17 j 15:36	15°♏	
conjunction	-10384 Jan 19 j 06:19	15°♏22'29	-1°32'06
minimum elong	-10384 Jan 19 j 06:15	15°♏22'27	1°32'28
max. Earth dist.	-10384 Jan 20 j 12:57	15°♏40'17	6.08403 AU
morning rise	-10384 Feb 01 j 23:49	18°♏33'17	
	-10384 Mar 26 j 12:43	0°♐	
retrograde	-10384 Jun 10 j 06:26	8°♐06'12	
opposition	-10384 Aug 08 j 11:48	3°♐02'05	-2°28'12
min. Earth dist.	-10384 Aug 07 j 19:41	3°♐07'36	4.11013 AU
	-10384 Sep 01 j 09:22	30°℞♏	
direct	-10384 Oct 06 j 04:06	28°♏01'09	
	-10384 Nov 10 j 06:23	0°♐	
evening set	-10383 Feb 10 j 13:23	17°♐08'24	
conjunction	-10383 Feb 24 j 06:30	20°♐16'21	-1°37'49
minimum elong	-10383 Feb 24 j 06:32	20°♐16'23	1°38'22
max. Earth dist.	-10383 Feb 25 j 02:15	20°♐27'39	6.14171 AU
morning rise	-10383 Mar 09 j 23:10	23°♐23'59	
	-10383 Apr 08 j 22:26	0°♑	
retrograde	-10383 Jul 14 j 02:27	12°♑13'30	
opposition	-10383 Sep 11 j 02:05	7°♑12'26	-2°09'48
min. Earth dist.	-10383 Sep 10 j 19:22	7°♑14'43	4.18027 AU
direct	-10383 Nov 09 j 19:19	2°♑09'01	
evening set	-10382 Mar 18 j 11:23	21°♑03'06	
conjunction	-10382 Apr 01 j 02:21	24°♑07'04	-1°09'49
minimum elong	-10382 Apr 01 j 02:27	24°♑07'07	1°10'23
max. Earth dist.	-10382 Apr 01 j 02:18	24°♑07'02	6.21897 AU
morning rise	-10382 Apr 14 j 15:20	27°♑09'51	
	-10382 Apr 27 j 10:20	0°♒	
	-10382 Aug 04 j 11:17	15°♒	
retrograde	-10382 Aug 15 j 16:26	15°♒12'35	
	-10382 Aug 26 j 20:33	15°℞♒	
opposition	-10382 Oct 13 j 20:10	10°♒15'18	-1°09'31
min. Earth dist.	-10382 Oct 14 j 01:44	10°♒13'27	4.25677 AU
direct	-10382 Dec 13 j 20:14	5°♒11'00	
	-10381 Mar 11 j 02:36	15°♒	
evening set	-10381 Apr 21 j 19:12	23°♒45'31	
conjunction	-10381 May 05 j 04:28	26°♒44'21	-0°20'02
minimum elong	-10381 May 05 j 04:30	26°♒44'22	0°20'25
max. Earth dist.	-10381 May 04 j 12:40	26°♒35'33	6.28977 AU
morning rise	-10381 May 18 j 10:11	29°♒41'24	
	-10381 May 19 j 19:47	0°♓	
retrograde	-10381 Sep 16 j 10:30	17°♓10'15	
asc. node	-10381 Sep 26 j 02:24	17°♓01'07	
opposition	-10381 Nov 15 j 02:53	12°♓16'21	0°10'21
min. Earth dist.	-10381 Nov 15 j 17:52	12°♓11'27	4.31571 AU
direct	-10380 Jan 16 j 02:28	7°♓13'02	
evening set	-10380 May 23 j 14:25	25°♓29'52	
max. Earth dist.	-10380 Jun 04 j 10:04	28°♓07'23	6.33237 AU
conjunction	-10380 Jun 05 j 14:20	28°♓23'08	0°34'53
minimum elong	-10380 Jun 05 j 14:16	28°♓23'06	0°34'49
	-10380 Jun 12 j 20:19	0°♈	
morning rise	-10380 Jun 18 j 11:00	1°♈14'43	
retrograde	-10380 Oct 17 j 03:02	18°♈31'40	
opposition	-10380 Dec 16 j 10:58	13°♈39'42	1°25'46
min. Earth dist.	-10380 Dec 17 j 08:24	13°♈32'50	4.33963 AU
direct	-10379 Feb 16 j 23:13	8°♈38'43	
evening set	-10379 Jun 24 j 06:35	26°♈44'36	
conjunction	-10379 Jul 06 j 21:19	29°♈33'40	1°19'06
minimum elong	-10379 Jul 06 j 21:14	29°♈33'37	1°19'19
max. Earth dist.	-10379 Jul 05 j 15:38	29°♈17'02	6.33478 AU
	-10379 Jul 08 j 20:18	0°♉	
morning rise	-10379 Jul 19 j 09:26	2°♉21'32	
	-10379 Sep 21 j 09:30	15°♉	
retrograde	-10379 Nov 18 j 06:22	19°♉49'47	
opposition	-10378 Jan 18 j 07:15	14°♉57'54	2°16'17
	-10378 Jan 18 j 00:39	15°℞♉	
min. Earth dist.	-10378 Jan 19 j 03:14	14°♉51'34	4.32165 AU
direct	-10378 Mar 21 j 14:28	10°♉00'00	
	-10378 May 20 j 14:29	15°♉	
evening set	-10378 Jul 25 j 10:55	28°♉03'12	
	-10378 Aug 03 j 01:44	0°♊	
conjunction	-10378 Aug 06 j 19:58	0°♊51'10	1°40'25

Attention, astronomical year style is used: The year -10378 in astronomical counting style is the year 10379 BCE in historical counting style.

minimum elong	-10378 Aug 06 j 19:57	0°♊51'09	1°40'54
max. Earth dist.	-10378 Aug 05 j 19:23	0°♊37'13	6.29657 AU
morning rise	-10378 Aug 19 j 04:16	3°♊38'50	
retrograde	-10378 Dec 21 j 13:45	21°♊37'30	
opposition	-10377 Feb 20 j 23:53	16°♊43'55	2°27'13
min. Earth dist.	-10377 Feb 21 j 14:07	16°♊39'24	4.26622 AU
direct	-10377 Apr 23 j 13:51	11°♊48'52	
evening set	-10377 Aug 25 j 19:58	29°♊57'12	
	-10377 Aug 26 j 00:51	0°♋	
conjunction	-10377 Sep 07 j 06:08	2°♋48'18	1°31'54
minimum elong	-10377 Sep 07 j 06:11	2°♋48'20	1°32'29
max. Earth dist.	-10377 Sep 06 j 18:21	2°♋41'31	6.22824 AU
morning rise	-10377 Sep 19 j 17:25	5°♋40'07	
retrograde	-10376 Jan 25 j 01:52	24°♋20'43	
opposition	-10376 Mar 26 j 15:01	19°♋23'54	1°52'29
min. Earth dist.	-10376 Mar 26 j 16:41	19°♋23'22	4.18940 AU
direct	-10376 May 25 j 23:52	14°♋30'44	
	-10376 Sep 13 j 17:25	0°♌	
evening set	-10376 Sep 26 j 04:13	2°♌51'05	
conjunction	-10376 Oct 08 j 21:46	5°♌48'44	0°54'01
minimum elong	-10376 Oct 08 j 21:51	5°♌48'47	0°54'31
max. Earth dist.	-10376 Oct 09 j 03:33	5°♌52'06	6.15034 AU
morning rise	-10376 Oct 21 j 18:02	8°♌47'57	
	-10376 Nov 18 j 08:22	15°♌	
retrograde	-10375 Feb 28 j 19:50	28°♌10'50	
opposition	-10375 Apr 30 j 23:38	23°♌10'11	0°39'03
min. Earth dist.	-10375 Apr 30 j 13:46	23°♌13'25	4.11556 AU
direct	-10375 Jun 29 j 04:45	18°♌17'06	
	-10375 Sep 29 j 11:19	0°♍	
desc. node	-10375 Oct 22 j 22:33	5°♍14'44	
evening set	-10375 Oct 30 j 03:28	6°♍55'04	
conjunction	-10375 Nov 12 j 07:04	9°♍59'55	-0°03'07
minimum elong	-10375 Nov 12 j 07:03	9°♍59'54	0°02'52
behind sun begin	-10375 Nov 11 j 22:52	9°♍55'08	
behind sun end	-10375 Nov 12 j 15:14	10°♍04'41	
max. Earth dist.	-10375 Nov 13 j 05:12	10°♍12'54	6.08795 AU
morning rise	-10375 Nov 25 j 14:16	13°♍06'43	
	-10374 Feb 20 j 15:21	0°♎	
retrograde	-10374 Apr 06 j 02:28	2°♎58'19	
	-10374 May 20 j 11:53	30°℞♍	
opposition	-10374 Jun 05 j 13:58	27°♍54'32	-0°50'09
min. Earth dist.	-10374 Jun 04 j 18:36	28°♍01'02	4.07049 AU
direct	-10374 Aug 02 j 21:46	22°♍59'41	
	-10374 Oct 10 j 04:54	0°♎	
evening set	-10374 Dec 04 j 21:52	11°♎56'34	
conjunction	-10374 Dec 18 j 09:38	15°♎05'57	-0°59'58
minimum elong	-10374 Dec 18 j 09:32	15°♎05'54	1°00'03
max. Earth dist.	-10374 Dec 19 j 17:11	15°♎24'27	6.06379 AU
morning rise	-10373 Jan 01 j 00:33	18°♎16'57	
	-10373 Feb 24 j 11:43	0°♏	
retrograde	-10373 May 12 j 03:17	8°♏11'51	
opposition	-10373 Jul 10 j 20:36	3°♏06'47	-2°01'55
min. Earth dist.	-10373 Jul 09 j 23:47	3°♏13'53	4.07087 AU
	-10373 Aug 04 j 15:09	30°℞♎	
direct	-10373 Sep 07 j 01:08	28°♎08'48	
	-10373 Oct 10 j 13:58	0°♏	
	-10373 Dec 31 j 20:03	15°♏	
evening set	-10372 Jan 10 j 20:28	17°♏17'41	
conjunction	-10372 Jan 24 j 12:43	20°♏27'42	-1°35'06
minimum elong	-10372 Jan 24 j 12:40	20°♏27'40	1°35'31
max. Earth dist.	-10372 Jan 25 j 19:50	20°♏45'45	6.08756 AU
morning rise	-10372 Feb 07 j 06:17	23°♏38'21	
	-10372 Mar 06 j 16:46	0°♐	
retrograde	-10372 Jun 15 j 04:25	13°♐07'04	
opposition	-10372 Aug 13 j 07:53	8°♐03'21	-2°28'44
min. Earth dist.	-10372 Aug 12 j 16:12	8°♐08'43	4.11685 AU
direct	-10372 Oct 11 j 02:09	3°♐02'06	
evening set	-10371 Feb 15 j 18:08	22°♐08'52	
conjunction	-10371 Mar 01 j 11:02	25°♐16'23	-1°35'42
minimum elong	-10371 Mar 01 j 11:05	25°♐16'24	1°36'16
max. Earth dist.	-10371 Mar 02 j 03:41	25°♐25'53	6.15118 AU
morning rise	-10371 Mar 15 j 03:32	28°♐23'29	
	-10371 Mar 22 j 06:38	0°♑	
retrograde	-10371 Jul 18 j 19:27	17°♑06'25	
opposition	-10371 Sep 15 j 19:18	12°♑05'52	-2°03'19
min. Earth dist.	-10371 Sep 15 j 13:53	12°♑07'42	4.19179 AU
direct	-10371 Nov 14 j 17:26	7°♑02'15	
evening set	-10370 Mar 23 j 11:06	25°♑53'24	
conjunction	-10370 Apr 06 j 01:36	28°♑56'37	-1°03'43
minimum elong	-10370 Apr 06 j 01:41	28°♑56'40	1°04'15
max. Earth dist.	-10370 Apr 06 j 01:15	28°♑56'26	6.23215 AU
	-10370 Apr 10 j 18:13	0°♒	
morning rise	-10370 Apr 19 j 13:33	1°♒58'29	
	-10370 Jun 24 j 00:14	15°♒	
retrograde	-10370 Aug 20 j 05:08	19°♒54'20	
opposition	-10370 Oct 18 j 10:21	14°♒57'38	-0°58'49
	-10370 Oct 18 j 03:14	15°℞♒	
min. Earth dist.	-10370 Oct 18 j 16:33	14°♒55'34	4.27042 AU
direct	-10370 Dec 18 j 14:04	9°♒53'26	
	-10369 Feb 17 j 03:11	15°♒	
evening set	-10369 Apr 26 j 12:17	28°♒23'39	
	-10369 May 03 j 17:57	0°♓	
conjunction	-10369 May 09 j 20:10	1°♓21'26	-0°12'16
minimum elong	-10369 May 09 j 20:12	1°♓21'27	0°12'37
behind sun begin	-10369 May 09 j 15:02	1°♓18'36	
behind sun end	-10369 May 10 j 01:21	1°♓24'19	
max. Earth dist.	-10369 May 09 j 01:36	1°♓11'06	6.30286 AU
morning rise	-10369 May 23 j 00:47	4°♓17'28	
asc. node	-10369 Aug 06 j 00:47	18°♓28'58	
retrograde	-10369 Sep 20 j 20:35	21°♓41'26	
opposition	-10369 Nov 19 j 15:04	16°♓47'53	0°21'37
min. Earth dist.	-10369 Nov 20 j 07:28	16°♓42'32	4.32726 AU
direct	-10368 Jan 20 j 18:15	11°♓44'47	
evening set	-10368 May 28 j 00:59	29°♓57'33	
	-10368 May 28 j 05:26	0°♈	
conjunction	-10368 Jun 09 j 23:36	2°♈49'51	0°41'56
minimum elong	-10368 Jun 09 j 23:32	2°♈49'49	0°41'54
max. Earth dist.	-10368 Jun 08 j 19:52	2°♈34'25	6.34142 AU
morning rise	-10368 Jun 22 j 18:41	5°♈40'27	
retrograde	-10368 Oct 21 j 10:24	22°♈55'36	
opposition	-10368 Dec 20 j 22:02	18°♈03'48	1°34'28
min. Earth dist.	-10368 Dec 21 j 19:13	17°♈57'01	4.34564 AU
direct	-10367 Feb 21 j 10:17	13°♈03'14	
	-10367 Jun 23 j 13:05	0°♉	
evening set	-10367 Jun 28 j 13:02	1°♉06'22	
max. Earth dist.	-10367 Jul 09 j 19:16	3°♉37'20	6.33700 AU
conjunction	-10367 Jul 11 j 02:26	3°♉54'49	1°23'31
minimum elong	-10367 Jul 11 j 02:21	3°♉54'46	1°23'48
morning rise	-10367 Jul 23 j 13:44	6°♉42'12	
	-10367 Aug 31 j 19:29	15°♉	
retrograde	-10367 Nov 22 j 17:25	24°♉12'01	
opposition	-10366 Jan 22 j 19:06	19°♉20'03	2°20'13
min. Earth dist.	-10366 Jan 23 j 16:03	19°♉13'25	4.31993 AU
	-10366 Mar 05 j 16:26	15°℞♉	

Attention, astronomical year style is used: The year -10366 in astronomical counting style is the year 10367 BCE in historical counting style.

direct	-10366 Mar 26 j 02:03	14°♉22'29		
	-10366 Apr 15 j 10:56	15°♉		
	-10366 Jul 18 j 19:43	0°♊		
evening set	-10366 Jul 29 j 15:33	2°♊24'58		
max. Earth dist.	-10366 Aug 10 j 00:41	4°♊59'33	6.29093 AU	
conjunction	-10366 Aug 11 j 00:26	5°♊13'02	1°41'03	
minimum elong	-10366 Aug 11 j 00:25	5°♊13'02	1°41'33	
morning rise	-10366 Aug 23 j 08:38	8°♊00'55		
retrograde	-10366 Dec 26 j 01:53	26°♊04'15		
opposition	-10365 Feb 25 j 13:59	21°♊10'21	2°25'11	
min. Earth dist.	-10365 Feb 26 j 02:46	21°♊06'17	4.25707 AU	
direct	-10365 Apr 27 j 23:35	16°♊15'37		
	-10365 Aug 10 j 09:24	0°♋		
evening set	-10365 Aug 30 j 02:31	4°♋25'26		
conjunction	-10365 Sep 11 j 13:20	7°♋17'18	1°28'23	
minimum elong	-10365 Sep 11 j 13:24	7°♋17'20	1°28'59	
max. Earth dist.	-10365 Sep 11 j 02:42	7°♋11'10	6.21638 AU	
morning rise	-10365 Sep 24 j 01:33	10°♋10'02		
retrograde	-10364 Jan 29 j 21:18	28°♋57'29		
opposition	-10364 Mar 31 j 08:36	24°♋00'13	1°44'32	
min. Earth dist.	-10364 Mar 31 j 10:02	23°♋59'45	4.17547 AU	
direct	-10364 May 30 j 14:20	19°♋07'07		
	-10364 Aug 27 j 22:15	0°♌		
evening set	-10364 Sep 30 j 16:15	7°♌31'03		
conjunction	-10364 Oct 13 j 11:11	10°♌29'57	0°47'04	
minimum elong	-10364 Oct 13 j 11:16	10°♌30'00	0°47'32	
max. Earth dist.	-10364 Oct 13 j 18:40	10°♌34'19	6.13587 AU	
morning rise	-10364 Oct 26 j 09:05	13°♌30'32		
	-10364 Nov 01 j 20:08	15°♌		
	-10363 Jan 19 j 17:20	0°♍		
retrograde	-10363 Mar 05 j 18:42	3°♍00'17		
	-10363 Apr 20 j 01:50	30°℞♌		
opposition	-10363 May 05 j 20:14	27°♌59'12	0°27'10	
min. Earth dist.	-10363 May 05 j 08:31	28°♌03'03	4.10192 AU	
direct	-10363 Jul 03 j 20:17	23°♌06'00		
desc. node	-10363 Sep 02 j 21:43	28°♌46'22		
	-10363 Sep 09 j 21:03	0°♍		
evening set	-10363 Nov 03 j 23:22	11°♍48'46		
conjunction	-10363 Nov 17 j 04:21	14°♍54'45	-0°11'25	
minimum elong	-10363 Nov 17 j 04:19	14°♍54'44	0°11'12	
behind sun begin	-10363 Nov 16 j 22:15	14°♍51'11		
behind sun end	-10363 Nov 17 j 10:24	14°♍58'17		
max. Earth dist.	-10363 Nov 18 j 03:56	15°♍08'37	6.07643 AU	
morning rise	-10363 Nov 30 j 13:00	18°♍02'42		
	-10362 Jan 25 j 04:29	0°♎		
retrograde	-10362 Apr 11 j 04:13	7°♎58'46		
opposition	-10362 Jun 10 j 12:35	2°♎54'37	-1°01'54	
min. Earth dist.	-10362 Jun 09 j 16:37	3°♎01'21	4.06229 AU	
	-10362 Jul 03 j 17:47	30°℞♍		
direct	-10362 Aug 07 j 18:40	27°♍59'23		
	-10362 Sep 11 j 16:07	0°♎		
evening set	-10362 Dec 10 j 00:44	17°♎00'25		
conjunction	-10362 Dec 23 j 13:35	20°♎10'25	-1°06'34	
minimum elong	-10362 Dec 23 j 13:29	20°♎10'21	1°06'42	
max. Earth dist.	-10362 Dec 24 j 23:34	20°♎30'20	6.05972 AU	
morning rise	-10361 Jan 06 j 05:12	23°♎21'52		
	-10361 Feb 04 j 15:15	0°♏		
retrograde	-10361 May 17 j 04:28	13°♏16'17		
opposition	-10361 Jul 15 j 18:44	8°♏11'14	-2°08'47	
min. Earth dist.	-10361 Jul 14 j 21:40	8°♏18'25	4.07159 AU	
direct	-10361 Sep 11 j 23:15	3°♏12'47		
	-10361 Dec 13 j 22:07	15°♏		
evening set	-10360 Jan 16 j 02:35	22°♏23'09		
conjunction	-10360 Jan 29 j 19:00	25°♏33'02	-1°37'21	
minimum elong	-10360 Jan 29 j 18:58	25°♏33'00	1°37'47	
max. Earth dist.	-10360 Jan 31 j 00:15	25°♏49'58	6.09265 AU	
morning rise	-10360 Feb 12 j 12:49	28°♏43'26		
	-10360 Feb 18 j 02:37	0°♐		
retrograde	-10360 Jun 20 j 00:09	18°♐06'48		
opposition	-10360 Aug 18 j 03:08	13°♐03'18	-2°28'08	
min. Earth dist.	-10360 Aug 17 j 12:02	13°♐08'28	4.12563 AU	
direct	-10360 Oct 16 j 01:09	8°♐01'32		
evening set	-10359 Feb 20 j 21:33	27°♐06'35		
	-10359 Mar 05 j 14:40	0°♑		
conjunction	-10359 Mar 06 j 14:27	0°♑13'33	-1°32'54	
minimum elong	-10359 Mar 06 j 14:31	0°♑13'36	1°33'29	
max. Earth dist.	-10359 Mar 07 j 06:21	0°♑22'37	6.16280 AU	
morning rise	-10359 Mar 20 j 06:22	3°♑19'56		
retrograde	-10359 Jul 23 j 11:31	21°♑55'17		
opposition	-10359 Sep 20 j 11:04	16°♑55'13	-1°56'03	
min. Earth dist.	-10359 Sep 20 j 07:17	16°♑56'30	4.20457 AU	
direct	-10359 Nov 19 j 13:35	11°♑51'23		
	-10358 Mar 25 j 10:40	0°♒		
evening set	-10358 Mar 28 j 08:37	0°♒38'54		
conjunction	-10358 Apr 10 j 22:20	3°♒41'20	-0°57'15	
minimum elong	-10358 Apr 10 j 22:25	3°♒41'23	0°57'46	
max. Earth dist.	-10358 Apr 10 j 18:32	3°♒39'12	6.24481 AU	
morning rise	-10358 Apr 24 j 09:32	6°♒42'20		
	-10358 Jun 02 j 10:44	15°♒		
retrograde	-10358 Aug 24 j 15:59	24°♒31'55		
opposition	-10358 Oct 22 j 23:22	19°♒35'38	-0°47'54	
min. Earth dist.	-10358 Oct 23 j 07:05	19°♒33'04	4.28167 AU	
	-10358 Dec 05 j 20:48	15°℞♒		
direct	-10358 Dec 23 j 06:59	14°♒31'25		
	-10357 Jan 09 j 21:37	15°♒		
	-10357 Apr 17 j 13:01	0°♓		
evening set	-10357 May 01 j 03:42	2°♓58'16		
conjunction	-10357 May 14 j 10:28	5°♓55'12	-0°04'30	
minimum elong	-10357 May 14 j 10:28	5°♓55'12	0°04'47	
behind sun begin	-10357 May 14 j 02:32	5°♓50'48		
behind sun end	-10357 May 14 j 18:25	5°♓59'36		
max. Earth dist.	-10357 May 13 j 14:46	5°♓44'14	6.31192 AU	
morning rise	-10357 May 27 j 13:40	8°♓50'18		
asc. node	-10357 Jun 15 j 09:04	12°♓55'36		
retrograde	-10357 Sep 25 j 06:09	26°♓11'08		
opposition	-10357 Nov 24 j 03:00	21°♓17'57	0°32'45	
min. Earth dist.	-10357 Nov 24 j 20:31	21°♓12'15	4.33339 AU	
direct	-10356 Jan 25 j 08:19	16°♓15'09		
	-10356 May 12 j 00:22	0°♈		
evening set	-10356 Jun 01 j 11:59	4°♈25'46		
max. Earth dist.	-10356 Jun 13 j 02:48	7°♈00'30	6.34395 AU	
conjunction	-10356 Jun 14 j 09:06	7°♈17'22	0°48'48	
minimum elong	-10356 Jun 14 j 09:01	7°♈17'19	0°48'48	
morning rise	-10356 Jun 27 j 03:05	10°♈07'22		
retrograde	-10356 Oct 25 j 22:04	27°♈23'07		
opposition	-10356 Dec 25 j 11:13	22°♈31'23	1°42'52	
min. Earth dist.	-10356 Dec 26 j 09:18	22°♈24'19	4.34462 AU	
direct	-10355 Feb 26 j 00:01	17°♈31'10		
	-10355 Jun 07 j 04:03	0°♉		
evening set	-10355 Jul 02 j 21:30	5°♉33'50		
max. Earth dist.	-10355 Jul 14 j 04:26	8°♉05'22	6.33239 AU	
conjunction	-10355 Jul 15 j 10:07	8°♉22'02	1°27'37	
minimum elong	-10355 Jul 15 j 10:02	8°♉21'59	1°27'56	

Attention, astronomical year style is used: The year -10355 in astronomical counting style is the year 10356 BCE in historical counting style.

morning rise	-10355 Jul 27 j 20:29	11°♉09'15	
	-10355 Aug 14 j 08:53	15°♉	
retrograde	-10355 Nov 27 j 06:51	28°♉43'00	
opposition	-10354 Jan 27 j 11:06	23°♉50'55	2°23'35
min. Earth dist.	-10354 Jan 28 j 07:03	23°♉44'36	4.31220 AU
direct	-10354 Mar 30 j 15:19	18°♉53'50	
	-10354 Jul 01 j 23:17	0°♊	
evening set	-10354 Aug 03 j 00:37	6°♊57'20	
max. Earth dist.	-10354 Aug 14 j 09:53	9°♊32'25	6.28059 AU
conjunction	-10354 Aug 15 j 09:13	9°♊45'42	1°41'09
minimum elong	-10354 Aug 15 j 09:13	9°♊45'42	1°41'39
morning rise	-10354 Aug 27 j 17:40	12°♊34'05	
	-10354 Dec 09 j 01:26	0°♋	
retrograde	-10354 Dec 30 j 22:07	0°♋43'43	
	-10353 Jan 21 j 18:51	30°℞♊	
opposition	-10353 Mar 02 j 09:49	25°♊49'27	2°22'11
min. Earth dist.	-10353 Mar 02 j 21:45	25°♊45'39	4.24482 AU
direct	-10353 May 02 j 16:33	20°♊55'03	
	-10353 Jul 23 j 10:08	0°♋	
evening set	-10353 Sep 03 j 14:39	9°♋07'07	
conjunction	-10353 Sep 16 j 02:26	11°♋59'56	1°24'09
minimum elong	-10353 Sep 16 j 02:31	11°♋59'59	1°24'44
max. Earth dist.	-10353 Sep 15 j 18:54	11°♋55'35	6.20358 AU
morning rise	-10353 Sep 28 j 15:42	14°♋53'42	
	-10353 Dec 14 j 15:06	0°♌	
retrograde	-10352 Feb 03 j 21:08	3°♌47'57	
	-10352 Mar 27 j 05:29	30°℞♋	
opposition	-10352 Apr 05 j 07:51	28°♋50'15	1°35'27
min. Earth dist.	-10352 Apr 05 j 06:51	28°♋50'35	4.16332 AU
direct	-10352 Jun 04 j 08:30	23°♋57'23	
	-10352 Aug 07 j 08:21	0°♌	
evening set	-10352 Oct 05 j 09:54	12°♌24'03	
	-10352 Oct 16 j 13:06	15°♌	
conjunction	-10352 Oct 18 j 06:09	15°♌24'01	0°39'28
minimum elong	-10352 Oct 18 j 06:12	15°♌24'03	0°39'55
max. Earth dist.	-10352 Oct 18 j 16:02	15°♌29'48	6.12571 AU
morning rise	-10352 Oct 31 j 05:38	18°♌25'45	
	-10352 Dec 24 j 06:21	0°♍	
retrograde	-10351 Mar 10 j 22:03	8°♍00'30	
opposition	-10351 May 10 j 21:16	2°♍58'55	0°14'35
min. Earth dist.	-10351 May 10 j 07:42	3°♍03'23	4.09476 AU
	-10351 Jun 04 j 06:14	30°℞♌	
direct	-10351 Jul 08 j 18:13	28°♌05'34	
desc. node	-10351 Jul 13 j 21:36	28°♌08'17	
	-10351 Aug 11 j 22:51	0°♍	
evening set	-10351 Nov 08 j 22:56	16°♍50'37	
conjunction	-10351 Nov 22 j 05:16	19°♍57'19	-0°19'52
minimum elong	-10351 Nov 22 j 05:14	19°♍57'17	0°19'43
max. Earth dist.	-10351 Nov 23 j 08:34	20°♍13'21	6.07317 AU
morning rise	-10351 Dec 05 j 15:03	23°♍05'54	
	-10350 Jan 05 j 05:01	0°♎	
retrograde	-10350 Apr 16 j 06:30	13°♎02'35	
opposition	-10350 Jun 15 j 12:19	7°♎58'13	-1°13'17
min. Earth dist.	-10350 Jun 14 j 15:35	8°♎05'12	4.06357 AU
direct	-10350 Aug 12 j 17:03	3°♎02'39	
evening set	-10350 Dec 15 j 04:23	22°♎04'26	
conjunction	-10350 Dec 28 j 17:41	25°♎14'23	-1°12'40
minimum elong	-10350 Dec 28 j 17:35	25°♎14'19	1°12'52
max. Earth dist.	-10350 Dec 30 j 02:46	25°♎33'43	6.06502 AU
morning rise	-10349 Jan 11 j 09:55	28°♎25'45	
	-10349 Jan 18 j 05:13	0°♏	
	-10349 Apr 05 j 22:41	15°♏	
retrograde	-10349 May 22 j 01:01	18°♏15'56	
	-10349 Jul 07 j 00:16	15°℞♏	
opposition	-10349 Jul 20 j 14:33	13°♏10'55	-2°14'31
min. Earth dist.	-10349 Jul 19 j 17:27	13°♏18'08	4.08053 AU
direct	-10349 Sep 16 j 21:13	8°♏11'58	
	-10349 Nov 23 j 14:06	15°♏	
evening set	-10348 Jan 21 j 05:26	27°♏21'00	
	-10348 Feb 01 j 17:27	0°♐	
conjunction	-10348 Feb 03 j 22:08	0°♐30'26	-1°38'50
minimum elong	-10348 Feb 03 j 22:06	0°♐30'25	1°39'18
max. Earth dist.	-10348 Feb 05 j 02:47	0°♐46'58	6.10425 AU
morning rise	-10348 Feb 17 j 15:38	3°♐40'10	
retrograde	-10348 Jun 24 j 17:13	22°♐56'17	
opposition	-10348 Aug 22 j 18:29	17°♐53'12	-2°26'29
min. Earth dist.	-10348 Aug 22 j 05:33	17°♐57'37	4.13860 AU
direct	-10348 Oct 20 j 20:38	12°♐51'04	
	-10347 Feb 17 j 10:20	0°♑	
evening set	-10347 Feb 25 j 20:01	1°♑53'11	
conjunction	-10347 Mar 11 j 12:35	4°♑59'30	-1°29'36
minimum elong	-10347 Mar 11 j 12:40	4°♑59'32	1°30'11
max. Earth dist.	-10347 Mar 12 j 00:51	5°♑06'28	6.17586 AU
morning rise	-10347 Mar 25 j 04:04	8°♑05'07	
retrograde	-10347 Jul 27 j 21:18	26°♑33'14	
opposition	-10347 Sep 24 j 22:24	21°♑33'40	-1°48'22
min. Earth dist.	-10347 Sep 24 j 20:06	21°♑34'27	4.21650 AU
direct	-10347 Nov 24 j 04:20	16°♑29'38	
	-10346 Mar 08 j 23:22	0°♒	
evening set	-10346 Apr 02 j 01:31	5°♒14'19	
conjunction	-10346 Apr 15 j 14:31	8°♒16'03	-0°50'41
minimum elong	-10346 Apr 15 j 14:36	8°♒16'06	0°51'12
max. Earth dist.	-10346 Apr 15 j 07:37	8°♒12'11	6.25483 AU
morning rise	-10346 Apr 29 j 00:46	11°♒16'17	
	-10346 May 16 j 00:40	15°♒	
retrograde	-10346 Aug 29 j 00:59	29°♒01'10	
opposition	-10346 Oct 27 j 09:00	24°♒05'25	-0°37'06
min. Earth dist.	-10346 Oct 27 j 19:14	24°♒02'02	4.28883 AU
direct	-10346 Dec 27 j 20:26	19°♒01'18	
	-10345 Mar 31 j 12:41	0°♓	
asc. node	-10345 Apr 26 j 01:12	5°♓20'01	
evening set	-10345 May 05 j 15:53	7°♓26'24	
conjunction	-10345 May 18 j 21:30	10°♓22'43	0°03'14
minimum elong	-10345 May 18 j 21:31	10°♓22'43	0°02'59
behind sun begin	-10345 May 18 j 13:24	10°♓18'14	
behind sun end	-10345 May 19 j 05:37	10°♓27'12	
max. Earth dist.	-10345 May 17 j 22:56	10°♓10'10	6.31559 AU
morning rise	-10345 May 31 j 23:37	13°♓17'14	
	-10345 Sep 09 j 23:17	0°♈	
retrograde	-10345 Sep 29 j 14:24	0°♈37'08	
	-10345 Oct 19 j 06:15	30°℞♓	
opposition	-10345 Nov 28 j 13:29	25°♓44'13	0°43'28
min. Earth dist.	-10345 Nov 29 j 07:55	25°♓38'14	4.33359 AU
direct	-10344 Jan 29 j 19:55	20°♓41'41	
	-10344 Apr 24 j 08:19	0°♈	
evening set	-10344 Jun 05 j 21:27	8°♈52'10	
max. Earth dist.	-10344 Jun 17 j 11:23	11°♈26'38	6.34066 AU
conjunction	-10344 Jun 18 j 17:22	11°♈43'21	0°55'17
minimum elong	-10344 Jun 18 j 17:17	11°♈43'18	0°55'20
morning rise	-10344 Jul 01 j 10:06	14°♈32'58	
	-10344 Sep 25 j 13:50	0°♉	
retrograde	-10344 Oct 30 j 09:28	1°♉51'23	
	-10344 Dec 04 j 13:01	30°℞♈	
opposition	-10344 Dec 30 j 00:40	26°♈59'45	1°50'37

Attention, astronomical year style is used: The year -10343 in astronomical counting style is the year 10344 BCE in historical counting style.

min. Earth dist.	-10344 Dec 30 j 22:58	26°♈52'39	4.33828 AU
direct	-10343 Mar 02 j 13:10	22°♈00'00	
	-10343 May 19 j 16:15	0°♉	
evening set	-10343 Jul 07 j 06:40	10°♉03'44	
conjunction	-10343 Jul 19 j 18:19	12°♉51'53	1°31'09
minimum elong	-10343 Jul 19 j 18:15	12°♉51'51	1°31'30
max. Earth dist.	-10343 Jul 18 j 12:11	12°♉34'56	6.32332 AU
	-10343 Jul 29 j 06:13	15°♉	
morning rise	-10343 Aug 01 j 04:15	15°♉39'13	
	-10343 Oct 15 j 13:34	0°♊	
retrograde	-10343 Dec 01 j 23:21	3°♊18'18	
	-10342 Jan 19 j 14:06	30°℞♉	
opposition	-10342 Feb 01 j 04:42	28°♉25'57	2°26'04
min. Earth dist.	-10342 Feb 01 j 23:33	28°♉19'59	4.30126 AU
direct	-10342 Apr 04 j 06:25	23°♉29'16	
	-10342 Jun 12 j 03:19	0°♊	
evening set	-10342 Aug 07 j 11:06	11°♊34'29	
conjunction	-10342 Aug 19 j 19:56	14°♊23'22	1°40'34
minimum elong	-10342 Aug 19 j 19:56	14°♊23'22	1°41'06
max. Earth dist.	-10342 Aug 19 j 00:16	14°♊12'08	6.26875 AU
morning rise	-10342 Sep 01 j 04:32	17°♊12'20	
	-10342 Nov 03 j 10:11	0°♋	
retrograde	-10341 Jan 04 j 19:06	5°♋28'22	
opposition	-10341 Mar 07 j 07:38	0°♋33'41	2°18'09
min. Earth dist.	-10341 Mar 07 j 17:26	0°♋30'34	4.23295 AU
	-10341 Mar 11 j 17:43	30°℞♊	
direct	-10341 May 07 j 10:17	25°♊39'37	
	-10341 Jun 30 j 18:18	0°♋	
evening set	-10341 Sep 08 j 04:32	13°♋53'20	
conjunction	-10341 Sep 20 j 17:05	16°♋46'59	1°19'15
minimum elong	-10341 Sep 20 j 17:10	16°♋47'01	1°19'49
max. Earth dist.	-10341 Sep 20 j 11:33	16°♋43'46	6.19265 AU
morning rise	-10341 Oct 03 j 07:40	19°♋41'46	
	-10341 Nov 20 j 07:45	0°♌	
retrograde	-10340 Feb 08 j 22:14	8°♌41'47	
opposition	-10340 Apr 10 j 08:15	3°♌43'26	1°25'32
min. Earth dist.	-10340 Apr 10 j 04:50	3°♌44'33	4.15390 AU
	-10340 May 13 j 04:54	30°℞♋	
direct	-10340 Jun 09 j 04:53	28°♋50'33	
	-10340 Jul 06 j 00:46	0°♌	
	-10340 Sep 30 j 03:51	15°♌	
evening set	-10340 Oct 10 j 04:26	17°♌18'48	
conjunction	-10340 Oct 23 j 02:12	20°♌19'42	0°31'32
minimum elong	-10340 Oct 23 j 02:15	20°♌19'44	0°31'58
max. Earth dist.	-10340 Oct 23 j 16:14	20°♌27'54	6.11871 AU
morning rise	-10340 Nov 05 j 03:05	23°♌22'23	
	-10340 Dec 04 j 13:45	0°♍	
retrograde	-10339 Mar 16 j 00:48	13°♍00'24	
opposition	-10339 May 15 j 21:49	7°♍58'19	0°01'52
min. Earth dist.	-10339 May 15 j 07:12	8°♍03'09	4.09069 AU
desc. node	-10339 May 24 j 01:21	6°♍54'09	
direct	-10339 Jul 13 j 16:06	3°♍04'47	
evening set	-10339 Nov 13 j 22:45	21°♍51'14	
conjunction	-10339 Nov 27 j 06:04	24°♍58'26	-0°28'10
minimum elong	-10339 Nov 27 j 06:01	24°♍58'24	0°28'03
max. Earth dist.	-10339 Nov 28 j 09:33	25°♍14'33	6.07211 AU
morning rise	-10339 Dec 10 j 17:07	28°♍07'33	
	-10339 Dec 18 j 19:22	0°♎	
retrograde	-10338 Apr 21 j 06:07	18°♎03'57	
opposition	-10338 Jun 20 j 10:50	12°♎59'19	-1°24'07
min. Earth dist.	-10338 Jun 19 j 13:07	13°♎06'39	4.06576 AU
direct	-10338 Aug 17 j 14:51	8°♎03'18	
evening set	-10338 Dec 20 j 07:13	27°♎05'48	
	-10337 Jan 01 j 18:17	0°♏	
conjunction	-10337 Jan 02 j 21:19	0°♏15'47	-1°18'15
minimum elong	-10337 Jan 02 j 21:13	0°♏15'43	1°18'30
max. Earth dist.	-10337 Jan 04 j 07:28	0°♏35'43	6.07019 AU
morning rise	-10337 Jan 16 j 13:46	3°♏26'58	
	-10337 Mar 11 j 08:49	15°♏	
retrograde	-10337 May 26 j 23:24	23°♏13'11	
opposition	-10337 Jul 25 j 09:48	18°♏08'20	-2°19'21
min. Earth dist.	-10337 Jul 24 j 14:24	18°♏14'58	4.08829 AU
	-10337 Aug 19 j 07:53	15°℞♏	
direct	-10337 Sep 21 j 19:02	13°♏08'55	
	-10337 Oct 25 j 10:43	15°♏	
	-10336 Jan 16 j 06:45	0°♐	
evening set	-10336 Jan 26 j 08:07	2°♐17'13	
conjunction	-10336 Feb 09 j 00:54	5°♐26'16	-1°39'40
minimum elong	-10336 Feb 09 j 00:53	5°♐26'15	1°40'10
max. Earth dist.	-10336 Feb 10 j 03:06	5°♐41'22	6.11381 AU
morning rise	-10336 Feb 22 j 18:22	8°♐35'31	
retrograde	-10336 Jun 29 j 08:07	27°♐45'10	
opposition	-10336 Aug 27 j 09:43	22°♐42'31	-2°23'56
min. Earth dist.	-10336 Aug 26 j 21:35	22°♐46'40	4.14916 AU
direct	-10336 Oct 25 j 14:23	17°♐40'02	
	-10335 Jan 31 j 06:11	0°♑	
evening set	-10335 Mar 02 j 19:00	6°♑40'14	
conjunction	-10335 Mar 16 j 11:18	9°♑46'00	-1°25'42
minimum elong	-10335 Mar 16 j 11:23	9°♑46'03	1°26'17
max. Earth dist.	-10335 Mar 16 j 20:12	9°♑51'03	6.18677 AU
morning rise	-10335 Mar 30 j 02:17	12°♑50'57	
	-10335 Jul 05 j 02:51	0°♒	
retrograde	-10335 Aug 01 j 10:23	1°♒12'44	
	-10335 Aug 28 j 12:42	30°℞♑	
opposition	-10335 Sep 29 j 11:02	26°♑13'45	-1°39'57
min. Earth dist.	-10335 Sep 29 j 11:30	26°♑13'35	4.22655 AU
direct	-10335 Nov 28 j 21:55	21°♑09'37	
	-10334 Feb 18 j 12:33	0°♒	
evening set	-10334 Apr 06 j 19:14	9°♒51'55	
conjunction	-10334 Apr 20 j 07:36	12°♒53'03	-0°43'44
minimum elong	-10334 Apr 20 j 07:40	12°♒53'05	0°44'12
max. Earth dist.	-10334 Apr 19 j 22:27	12°♒47'56	6.26338 AU
	-10334 Apr 29 j 18:32	15°♒	
morning rise	-10334 May 03 j 16:54	15°♒52'35	
	-10334 Jul 16 j 06:14	0°♓	
retrograde	-10334 Sep 02 j 09:46	3°♓33'24	
	-10334 Oct 21 j 08:52	30°℞♒	
opposition	-10334 Oct 31 j 20:24	28°♒38'07	-0°25'55
min. Earth dist.	-10334 Nov 01 j 07:22	28°♒34'30	4.29526 AU
direct	-10333 Jan 01 j 09:56	23°♒34'10	
asc. node	-10333 Mar 06 j 02:00	29°♒07'01	
	-10333 Mar 11 j 12:10	0°♓	
evening set	-10333 May 10 j 05:20	11°♓57'37	
max. Earth dist.	-10333 May 22 j 09:18	14°♓39'42	6.31955 AU
conjunction	-10333 May 23 j 09:39	14°♓53'15	0°10'56
minimum elong	-10333 May 23 j 09:38	14°♓53'14	0°10'43
behind sun begin	-10333 May 23 j 03:25	14°♓49'48	
behind sun end	-10333 May 23 j 15:51	14°♓56'41	
morning rise	-10333 Jun 05 j 10:32	17°♓47'06	
	-10333 Aug 06 j 01:47	0°♈	
retrograde	-10333 Oct 04 j 01:21	5°♈06'07	
opposition	-10333 Dec 03 j 01:44	0°♈13'34	0°54'07
min. Earth dist.	-10333 Dec 03 j 21:41	0°♈07'08	4.33490 AU
	-10333 Dec 04 j 19:46	30°℞♓	

Attention, astronomical year style is used: The year -10332 in astronomical counting style is the year 10333 BCE in historical counting style.

direct	-10332 Feb 03 j 10:42	25°♓11'27	
	-10332 Apr 02 j 14:50	0°♈	
evening set	-10332 Jun 10 j 07:55	13°♈21'14	
max. Earth dist.	-10332 Jun 21 j 19:57	15°♈54'49	6.33916 AU
conjunction	-10332 Jun 23 j 02:36	16°♈11'55	1°01'33
minimum elong	-10332 Jun 23 j 02:31	16°♈11'52	1°01'40
morning rise	-10332 Jul 05 j 18:14	19°♈01'08	
	-10332 Aug 28 j 20:20	0°♉	
retrograde	-10332 Nov 03 j 21:20	6°♉21'45	
opposition	-10331 Jan 03 j 15:14	1°♉30'08	1°57'50
min. Earth dist.	-10331 Jan 04 j 12:37	1°♉23'19	4.33453 AU
	-10331 Jan 15 j 14:57	30°℞♈	
direct	-10331 Mar 07 j 02:21	26°♈30'51	
	-10331 Apr 25 j 18:34	0°♉	
evening set	-10331 Jul 11 j 15:49	14°♉34'39	
	-10331 Jul 13 j 13:08	15°♉	
max. Earth dist.	-10331 Jul 22 j 23:07	17°♉07'05	6.31766 AU
conjunction	-10331 Jul 24 j 02:46	17°♉22'41	1°34'13
minimum elong	-10331 Jul 24 j 02:42	17°♉22'39	1°34'36
morning rise	-10331 Aug 05 j 12:01	20°♉09'58	
	-10331 Sep 21 j 13:38	0°♊	
retrograde	-10331 Dec 06 j 15:42	7°♊53'20	
opposition	-10330 Feb 05 j 22:29	3°♊00'50	2°27'41
min. Earth dist.	-10330 Feb 06 j 16:26	2°♊55'09	4.29419 AU
	-10330 Mar 03 j 13:58	30°℞♉	
direct	-10330 Apr 08 j 22:16	28°♉04'37	
	-10330 May 14 j 21:27	0°♊	
evening set	-10330 Aug 11 j 20:53	16°♊10'09	
max. Earth dist.	-10330 Aug 23 j 10:54	18°♊48'39	6.26078 AU
conjunction	-10330 Aug 24 j 05:40	18°♊59'22	1°39'24
minimum elong	-10330 Aug 24 j 05:41	18°♊59'23	1°39'58
morning rise	-10330 Sep 05 j 14:48	21°♊48'52	
	-10330 Oct 13 j 10:33	0°♋	
retrograde	-10329 Jan 09 j 14:39	10°♋10'05	
opposition	-10329 Mar 12 j 03:53	5°♋14'54	2°13'17
min. Earth dist.	-10329 Mar 12 j 11:14	5°♋12'34	4.22458 AU
direct	-10329 May 12 j 02:24	0°♋21'05	
evening set	-10329 Sep 12 j 16:41	18°♋35'30	
conjunction	-10329 Sep 25 j 06:23	21°♋29'57	1°13'57
minimum elong	-10329 Sep 25 j 06:28	21°♋30'00	1°14'30
max. Earth dist.	-10329 Sep 25 j 04:50	21°♋29'03	6.18477 AU
morning rise	-10329 Oct 07 j 21:59	24°♋25'36	
	-10329 Nov 01 j 17:59	0°♌	
retrograde	-10328 Feb 13 j 21:33	13°♌30'15	
opposition	-10328 Apr 15 j 05:57	8°♌31'23	1°15'14
min. Earth dist.	-10328 Apr 15 j 01:25	8°♌32'51	4.14693 AU
direct	-10328 Jun 13 j 23:13	3°♌38'32	
	-10328 Sep 13 j 01:46	15°♌	
evening set	-10328 Oct 14 j 20:56	22°♌07'56	
conjunction	-10328 Oct 27 j 19:52	25°♌09'38	0°23'34
minimum elong	-10328 Oct 27 j 19:54	25°♌09'40	0°23'57
max. Earth dist.	-10328 Oct 28 j 10:34	25°♌18'14	6.11317 AU
morning rise	-10328 Nov 09 j 22:21	28°♌13'15	
	-10328 Nov 17 j 15:09	0°♍	
retrograde	-10327 Mar 20 j 22:35	17°♍54'06	
desc. node	-10327 Apr 04 j 05:40	17°♍34'39	
opposition	-10327 May 20 j 19:12	12°♍51'32	-0°10'35
min. Earth dist.	-10327 May 20 j 02:44	12°♍57'00	4.08702 AU
direct	-10327 Jul 18 j 10:31	7°♍57'43	
evening set	-10327 Nov 18 j 20:02	26°♍45'50	
conjunction	-10327 Dec 02 j 04:35	29°♍53'34	-0°36'05
minimum elong	-10327 Dec 02 j 04:31	29°♍53'32	0°36'01
	-10327 Dec 02 j 15:32	0°♎	
max. Earth dist.	-10327 Dec 03 j 10:13	0°♎10'58	6.07059 AU
morning rise	-10327 Dec 15 j 16:27	3°♎03'07	
retrograde	-10326 Apr 26 j 05:39	22°♎59'29	
min. Earth dist.	-10326 Jun 24 j 09:55	18°♎01'42	4.06661 AU
opposition	-10326 Jun 25 j 06:35	17°♎54'42	-1°34'06
direct	-10326 Aug 22 j 11:18	12°♎58'14	
	-10326 Dec 16 j 12:07	0°♏	
evening set	-10326 Dec 25 j 08:17	2°♏02'13	
conjunction	-10325 Jan 07 j 22:51	5°♏12'16	-1°23'09
minimum elong	-10325 Jan 07 j 22:46	5°♏12'12	1°23'26
max. Earth dist.	-10325 Jan 09 j 07:35	5°♏31'20	6.07308 AU
morning rise	-10325 Jan 21 j 15:48	8°♏23'27	
	-10325 Feb 20 j 02:34	15°♏	
retrograde	-10325 May 31 j 17:21	28°♏06'22	
min. Earth dist.	-10325 Jul 29 j 07:30	23°♏08'17	4.09323 AU
opposition	-10325 Jul 30 j 02:43	23°♏01'42	-2°23'08
direct	-10325 Sep 26 j 12:37	18°♏01'49	
	-10325 Dec 29 j 22:53	0°♐	
evening set	-10324 Jan 31 j 09:26	7°♐10'35	
conjunction	-10324 Feb 14 j 02:21	10°♐19'24	-1°39'46
minimum elong	-10324 Feb 14 j 02:21	10°♐19'24	1°40'19
max. Earth dist.	-10324 Feb 15 j 01:52	10°♐32'55	6.12031 AU
morning rise	-10324 Feb 27 j 19:44	13°♐28'17	
	-10324 May 24 j 21:19	0°♑	
retrograde	-10324 Jul 04 j 00:28	2°♑32'43	
	-10324 Aug 12 j 21:06	30°℞♐	
opposition	-10324 Sep 01 j 00:27	27°♐30'30	-2°20'27
min. Earth dist.	-10324 Aug 31 j 14:50	27°♐33'46	4.15654 AU
direct	-10324 Oct 30 j 09:30	22°♐27'41	
	-10323 Jan 11 j 17:03	0°♑	
evening set	-10323 Mar 07 j 17:20	11°♑26'51	
conjunction	-10323 Mar 21 j 09:31	14°♑32'15	-1°21'14
minimum elong	-10323 Mar 21 j 09:36	14°♑32'18	1°21'48
max. Earth dist.	-10323 Mar 21 j 16:57	14°♑36'27	6.19463 AU
morning rise	-10323 Apr 03 j 23:54	17°♑36'39	
	-10323 Jun 03 j 19:39	0°♒	
retrograde	-10323 Aug 05 j 21:46	5°♒53'05	
opposition	-10323 Oct 03 j 23:49	0°♒54'37	-1°30'54
min. Earth dist.	-10323 Oct 04 j 00:53	0°♒54'16	4.23426 AU
	-10323 Oct 10 j 19:24	30°℞♑	
direct	-10323 Dec 03 j 13:27	25°♑50'25	
	-10322 Jan 26 j 07:37	0°♒	
evening set	-10322 Apr 11 j 13:31	14°♒30'57	
	-10322 Apr 13 j 17:48	15°♒	
conjunction	-10322 Apr 25 j 00:53	17°♒31'26	-0°36'27
minimum elong	-10322 Apr 25 j 00:57	17°♒31'28	0°36'53
max. Earth dist.	-10322 Apr 24 j 12:42	17°♒24'37	6.27054 AU
morning rise	-10322 May 08 j 09:21	20°♒30'19	
	-10322 Jun 22 j 21:19	0°♓	
retrograde	-10322 Sep 06 j 21:30	8°♓07'24	
opposition	-10322 Nov 05 j 08:43	3°♓12'33	-0°14'30
min. Earth dist.	-10322 Nov 05 j 21:44	3°♓08'16	4.30128 AU
	-10322 Dec 01 j 21:40	30°℞♒	
direct	-10321 Jan 06 j 02:49	28°♒08'44	
asc. node	-10321 Jan 14 j 02:56	28°♒14'41	
	-10321 Feb 10 j 14:45	0°♓	
evening set	-10321 May 14 j 19:03	16°♓30'14	
conjunction	-10321 May 27 j 22:14	19°♓25'11	0°18'38
minimum elong	-10321 May 27 j 22:12	19°♓25'10	0°18'27
max. Earth dist.	-10321 May 26 j 21:48	19°♓11'35	6.32396 AU

Attention, astronomical year style is used: The year -10321 in astronomical counting style is the year 10322 BCE in historical counting style.

morning rise	-10321 Jun 09 j 21:44	22°♓18'19	
	-10321 Jul 16 j 07:15	0°♈	
retrograde	-10321 Oct 08 j 10:40	9°♈36'08	
opposition	-10321 Dec 07 j 14:34	4°♈43'45	1°04'31
min. Earth dist.	-10321 Dec 08 j 09:56	4°♈37'31	4.33755 AU
	-10320 Jan 24 j 22:01	30°℞♓	
direct	-10320 Feb 07 j 23:51	29°♓41'56	
	-10320 Feb 22 j 04:08	0°♈	
evening set	-10320 Jun 14 j 18:12	17°♈50'09	
max. Earth dist.	-10320 Jun 26 j 04:56	20°♈23'09	6.33960 AU
conjunction	-10320 Jun 27 j 11:29	20°♈40'13	1°07'29
minimum elong	-10320 Jun 27 j 11:24	20°♈40'10	1°07'38
morning rise	-10320 Jul 10 j 01:59	23°♈28'54	
	-10320 Aug 09 j 11:33	0°♉	
retrograde	-10320 Nov 08 j 10:24	10°♉50'59	
opposition	-10319 Jan 08 j 05:48	5°♉59'20	2°04'21
min. Earth dist.	-10319 Jan 09 j 03:45	5°♉52'22	4.33262 AU
direct	-10319 Mar 11 j 17:28	1°♉00'26	
	-10319 Jun 27 j 13:16	15°♉	
evening set	-10319 Jul 16 j 00:14	19°♉03'25	
max. Earth dist.	-10319 Jul 27 j 07:02	21°♉35'48	6.31318 AU
conjunction	-10319 Jul 28 j 10:29	21°♉51'17	1°36'44
minimum elong	-10319 Jul 28 j 10:26	21°♉51'16	1°37'09
morning rise	-10319 Aug 09 j 19:20	24°♉38'33	
	-10319 Sep 03 j 07:10	0°♊	
retrograde	-10319 Dec 11 j 06:14	12°♊25'46	
opposition	-10318 Feb 10 j 15:07	7°♊32'56	2°28'25
min. Earth dist.	-10318 Feb 11 j 07:14	7°♊27'49	4.28743 AU
direct	-10318 Apr 13 j 11:18	2°♊37'03	
evening set	-10318 Aug 16 j 05:44	20°♊42'57	
conjunction	-10318 Aug 28 j 14:51	23°♊32'37	1°37'40
minimum elong	-10318 Aug 28 j 14:54	23°♊32'39	1°38'14
max. Earth dist.	-10318 Aug 27 j 22:50	23°♊23'27	6.25223 AU
morning rise	-10318 Sep 10 j 00:22	26°♊22'40	
	-10318 Sep 26 j 04:00	0°♋	
retrograde	-10317 Jan 14 j 10:59	14°♋49'21	
opposition	-10317 Mar 16 j 23:24	9°♋53'44	2°07'38
min. Earth dist.	-10317 Mar 17 j 06:12	9°♋51'34	4.21458 AU
direct	-10317 May 16 j 18:43	5°♋00'08	
evening set	-10317 Sep 17 j 04:41	23°♋16'05	
conjunction	-10317 Sep 29 j 19:21	26°♋11'27	1°08'12
minimum elong	-10317 Sep 29 j 19:26	26°♋11'29	1°08'45
max. Earth dist.	-10317 Sep 29 j 18:32	26°♋10'59	6.17423 AU
morning rise	-10317 Oct 12 j 12:28	29°♋08'11	
	-10317 Oct 16 j 06:34	0°♌	
	-10316 Jan 02 j 05:52	15°♌	
retrograde	-10316 Feb 18 j 19:08	18°♌18'35	
	-10316 Apr 06 j 23:12	15°℞♌	
opposition	-10316 Apr 20 j 03:30	13°♌19'10	1°04'27
min. Earth dist.	-10316 Apr 19 j 20:32	13°♌21'26	4.13653 AU
direct	-10316 Jun 18 j 15:58	8°♌26'17	
	-10316 Aug 24 j 05:58	15°♌	
evening set	-10316 Oct 19 j 14:32	26°♌58'28	
conjunction	-10316 Nov 01 j 15:02	0°♍01'14	0°15'24
minimum elong	-10316 Nov 01 j 15:03	0°♍01'15	0°15'44
behind sun begin	-10316 Nov 01 j 13:16	0°♍00'12	
behind sun end	-10316 Nov 01 j 16:51	0°♍02'18	
	-10316 Nov 01 j 12:55	0°♍	
max. Earth dist.	-10316 Nov 02 j 08:47	0°♍11'38	6.10399 AU
morning rise	-10316 Nov 14 j 18:51	3°♍05'53	
desc. node	-10315 Feb 12 j 14:55	20°♍16'05	
retrograde	-10315 Mar 26 j 00:57	22°♍50'56	
opposition	-10315 May 25 j 17:46	17°♍47'59	-0°23'06
min. Earth dist.	-10315 May 25 j 01:24	17°♍53'26	4.07975 AU
direct	-10315 Jul 23 j 07:29	12°♍53'53	
	-10315 Nov 16 j 06:38	0°♎	
evening set	-10315 Nov 23 j 20:12	1°♎45'22	
conjunction	-10315 Dec 07 j 05:47	4°♎53'46	-0°43'53
minimum elong	-10315 Dec 07 j 05:42	4°♎53'44	0°43'52
max. Earth dist.	-10315 Dec 08 j 11:36	5°♎11'16	6.06577 AU
morning rise	-10315 Dec 20 j 18:50	8°♎03'59	
retrograde	-10314 May 01 j 05:52	28°♎01'15	
min. Earth dist.	-10314 Jun 29 j 06:53	23°♎03'42	4.06495 AU
opposition	-10314 Jun 30 j 04:30	22°♎56'22	-1°43'38
direct	-10314 Aug 27 j 07:28	17°♎59'28	
	-10314 Nov 28 j 20:55	0°♏	
evening set	-10314 Dec 30 j 12:48	7°♏06'03	
conjunction	-10313 Jan 13 j 03:58	10°♏16'16	-1°27'35
minimum elong	-10313 Jan 13 j 03:53	10°♏16'13	1°27'54
max. Earth dist.	-10313 Jan 14 j 11:51	10°♏34'51	6.07452 AU
morning rise	-10313 Jan 26 j 21:15	13°♏27'29	
	-10313 Feb 02 j 14:11	15°♏	
	-10313 Apr 21 j 18:14	0°♐	
retrograde	-10313 Jun 05 j 16:05	3°♐07'33	
	-10313 Jul 20 j 08:26	30°℞♏	
opposition	-10313 Aug 03 j 23:01	28°♏03'07	-2°26'00
min. Earth dist.	-10313 Aug 03 j 05:22	28°♏09'10	4.09763 AU
direct	-10313 Oct 01 j 11:33	23°♏02'48	
	-10313 Dec 09 j 10:01	0°♐	
evening set	-10312 Feb 05 j 14:16	12°♐12'05	
conjunction	-10312 Feb 19 j 07:27	15°♐20'42	-1°39'11
minimum elong	-10312 Feb 19 j 07:29	15°♐20'42	1°39'44
max. Earth dist.	-10312 Feb 20 j 06:37	15°♐33'59	6.12749 AU
morning rise	-10312 Mar 04 j 00:34	18°♐29'10	
	-10312 Apr 27 j 16:55	0°♑	
retrograde	-10312 Jul 08 j 18:09	7°♑27'44	
opposition	-10312 Sep 05 j 17:59	2°♑26'05	-2°15'55
min. Earth dist.	-10312 Sep 05 j 08:44	2°♑29'13	4.16601 AU
	-10312 Sep 24 j 10:45	30°℞♐	
direct	-10312 Nov 04 j 05:49	27°♐23'05	
	-10312 Dec 15 j 12:11	0°♑	
evening set	-10311 Mar 12 j 18:43	16°♑20'21	
conjunction	-10311 Mar 26 j 10:19	19°♑25'07	-1°16'08
minimum elong	-10311 Mar 26 j 10:25	19°♑25'10	1°16'42
max. Earth dist.	-10311 Mar 26 j 14:31	19°♑27'29	6.20599 AU
morning rise	-10311 Apr 09 j 00:14	22°♑28'49	
	-10311 May 13 j 21:11	0°♒	
retrograde	-10311 Aug 10 j 12:21	10°♒38'38	
opposition	-10311 Oct 08 j 14:57	5°♒40'43	-1°21'09
min. Earth dist.	-10311 Oct 08 j 17:51	5°♒39'44	4.24651 AU
direct	-10311 Dec 08 j 10:10	0°♒36'29	
	-10310 Mar 27 j 23:14	15°♒	
evening set	-10310 Apr 16 j 08:34	19°♒13'20	
conjunction	-10310 Apr 29 j 19:06	22°♒12'56	-0°28'55
minimum elong	-10310 Apr 29 j 19:09	22°♒12'58	0°29'19
max. Earth dist.	-10310 Apr 29 j 06:57	22°♒06'09	6.28310 AU
morning rise	-10310 May 13 j 02:14	25°♒10'48	
	-10310 Jun 04 j 06:58	0°♓	
retrograde	-10310 Sep 11 j 07:03	12°♓42'32	
opposition	-10310 Nov 09 j 21:34	7°♓48'07	-0°03'03
min. Earth dist.	-10310 Nov 10 j 10:31	7°♓43'53	4.31312 AU
asc. node	-10310 Nov 24 j 14:40	5°♓55'18	
direct	-10309 Jan 10 j 18:12	2°♓44'33	
evening set	-10309 May 19 j 07:59	21°♓01'56	

Attention, astronomical year style is used: The year -10309 in astronomical counting style is the year 10310 BCE in historical counting style.

max. Earth dist.	-10309 May 31 j 07:00	23°♓41'04	6.33415 AU
conjunction	-10309 Jun 01 j 09:32	23°♓55'49	0°26'07
minimum elong	-10309 Jun 01 j 09:29	23°♓55'48	0°26'00
morning rise	-10309 Jun 14 j 07:45	26°♓47'59	
	-10309 Jun 28 j 23:38	0°♈	
retrograde	-10309 Oct 12 j 20:38	14°♈03'03	
opposition	-10309 Dec 12 j 02:19	9°♈10'53	1°14'17
min. Earth dist.	-10309 Dec 12 j 23:10	9°♈04'10	4.34536 AU
direct	-10308 Feb 12 j 14:32	4°♈09'23	
evening set	-10308 Jun 19 j 01:58	22°♈14'17	
max. Earth dist.	-10308 Jun 30 j 11:50	24°♈46'44	6.34423 AU
conjunction	-10308 Jul 01 j 18:04	25°♈03'37	1°12'52
minimum elong	-10308 Jul 01 j 17:59	25°♈03'34	1°13'03
morning rise	-10308 Jul 14 j 07:20	27°♈51'36	
	-10308 Jul 24 j 00:25	0°♉	
	-10308 Oct 31 j 13:34	15°♉	
retrograde	-10308 Nov 12 j 18:33	15°♉14'03	
	-10308 Nov 25 j 00:52	15°℞♉	
opposition	-10307 Jan 12 j 17:29	10°♉22'20	2°09'54
min. Earth dist.	-10307 Jan 13 j 14:28	10°♉15'40	4.33391 AU
direct	-10307 Mar 16 j 03:20	5°♉23'49	
	-10307 Jun 10 j 12:48	15°♉	
evening set	-10307 Jul 20 j 05:19	23°♉25'06	
max. Earth dist.	-10307 Jul 31 j 11:50	25°♉57'28	6.31083 AU
conjunction	-10307 Aug 01 j 14:52	26°♉12'44	1°38'36
minimum elong	-10307 Aug 01 j 14:50	26°♉12'43	1°39'03
morning rise	-10307 Aug 13 j 23:20	28°♉59'55	
	-10307 Aug 18 j 10:41	0°♊	
retrograde	-10307 Dec 15 j 19:39	16°♊50'35	
opposition	-10306 Feb 15 j 04:40	11°♊57'29	2°28'14
min. Earth dist.	-10306 Feb 15 j 21:21	11°♊52'12	4.28142 AU
direct	-10306 Apr 17 j 23:22	7°♊01'54	
evening set	-10306 Aug 20 j 11:11	25°♊08'06	
conjunction	-10306 Sep 01 j 20:38	27°♊58'16	1°35'24
minimum elong	-10306 Sep 01 j 20:41	27°♊58'18	1°35'58
max. Earth dist.	-10306 Sep 01 j 04:51	27°♊49'13	6.24305 AU
	-10306 Sep 10 j 17:03	0°♋	
morning rise	-10306 Sep 14 j 06:52	0°♋49'00	
retrograde	-10305 Jan 19 j 02:04	19°♋21'30	
opposition	-10305 Mar 21 j 15:24	14°♋25'24	2°01'24
min. Earth dist.	-10305 Mar 21 j 20:14	14°♋23'52	4.20286 AU
direct	-10305 May 21 j 05:41	9°♋31'58	
evening set	-10305 Sep 21 j 14:12	27°♋50'26	
	-10305 Sep 30 j 21:35	0°♌	
conjunction	-10305 Oct 04 j 06:08	0°♌46'54	1°02'11
minimum elong	-10305 Oct 04 j 06:13	0°♌46'57	1°02'43
max. Earth dist.	-10305 Oct 04 j 07:44	0°♌47'49	6.16118 AU
morning rise	-10305 Oct 17 j 00:31	3°♌44'48	
	-10305 Dec 08 j 17:33	15°♌	
retrograde	-10304 Feb 23 j 17:22	23°♌01'58	
opposition	-10304 Apr 24 j 22:41	18°♌02'04	0°53'30
min. Earth dist.	-10304 Apr 24 j 15:32	18°♌04'23	4.12304 AU
	-10304 May 20 j 02:04	15°℞♌	
direct	-10304 Jun 23 j 08:10	13°♌09'05	
	-10304 Jul 27 j 04:26	15°♌	
	-10304 Oct 16 j 17:09	0°♍	
evening set	-10304 Oct 24 j 07:00	1°♍45'30	
conjunction	-10304 Nov 06 j 08:53	4°♍49'27	0°07'18
minimum elong	-10304 Nov 06 j 08:53	4°♍49'28	0°07'36
behind sun begin	-10304 Nov 06 j 01:28	4°♍45'08	
behind sun end	-10304 Nov 06 j 16:18	4°♍53'48	
max. Earth dist.	-10304 Nov 07 j 03:45	5°♍00'32	6.09146 AU
morning rise	-10304 Nov 19 j 14:22	7°♍55'22	
desc. node	-10304 Dec 24 j 18:16	15°♍47'29	
retrograde	-10303 Mar 31 j 00:49	27°♍45'44	
opposition	-10303 May 30 j 15:08	22°♍42'26	-0°35'17
min. Earth dist.	-10303 May 29 j 20:52	22°♍48'32	4.06962 AU
direct	-10303 Jul 28 j 00:45	17°♍48'02	
	-10303 Oct 30 j 02:43	0°♎	
evening set	-10303 Nov 28 j 20:17	6°♎44'03	
conjunction	-10303 Dec 12 j 06:58	9°♎53'14	-0°51'16
minimum elong	-10303 Dec 12 j 06:53	9°♎53'11	0°51'19
max. Earth dist.	-10303 Dec 13 j 13:56	10°♎11'25	6.05890 AU
morning rise	-10303 Dec 25 j 20:57	13°♎04'07	
	-10302 Mar 22 j 15:28	0°♏	
retrograde	-10302 May 06 j 06:32	3°♏02'53	
	-10302 Jun 19 j 16:35	30°℞♎	
min. Earth dist.	-10302 Jul 04 j 04:52	28°♎05'07	4.06220 AU
opposition	-10302 Jul 05 j 02:14	27°♎57'50	-1°52'20
direct	-10302 Sep 01 j 05:39	23°♎00'27	
	-10302 Nov 08 j 14:27	0°♏	
evening set	-10301 Jan 04 j 17:40	12°♏09'48	
	-10301 Jan 16 j 22:49	15°♏	
conjunction	-10301 Jan 18 j 09:28	15°♏20'10	-1°31'18
minimum elong	-10301 Jan 18 j 09:23	15°♏20'07	1°31'40
max. Earth dist.	-10301 Jan 19 j 18:35	15°♏39'26	6.07610 AU
morning rise	-10301 Feb 01 j 02:56	18°♏31'21	
	-10301 Mar 26 j 17:07	0°♐	
retrograde	-10301 Jun 10 j 13:34	8°♐07'43	
opposition	-10301 Aug 08 j 18:44	3°♐03'31	-2°27'43
min. Earth dist.	-10301 Aug 08 j 01:04	3°♐09'34	4.10352 AU
	-10301 Sep 01 j 21:20	30°℞♏	
direct	-10301 Oct 06 j 08:53	28°♏02'46	
	-10301 Nov 10 j 05:09	0°♐	
evening set	-10300 Feb 10 j 18:38	17°♐11'33	
conjunction	-10300 Feb 24 j 11:40	20°♐19'43	-1°37'52
minimum elong	-10300 Feb 24 j 11:42	20°♐19'44	1°38'25
max. Earth dist.	-10300 Feb 25 j 07:56	20°♐31'20	6.13685 AU
morning rise	-10300 Mar 09 j 04:40	23°♐27'41	
	-10300 Apr 07 j 20:13	0°♑	
retrograde	-10300 Jul 13 j 10:37	12°♑19'20	
opposition	-10300 Sep 10 j 10:35	7°♑18'02	-2°10'27
min. Earth dist.	-10300 Sep 10 j 02:51	7°♑20'40	4.17752 AU
direct	-10300 Nov 09 j 03:28	2°♑14'40	
evening set	-10299 Mar 17 j 17:48	21°♑08'54	
conjunction	-10299 Mar 31 j 09:04	24°♑12'57	-1°10'35
minimum elong	-10299 Mar 31 j 09:09	24°♑13'01	1°11'08
max. Earth dist.	-10299 Mar 31 j 12:28	24°♑14'53	6.21864 AU
morning rise	-10299 Apr 13 j 22:02	27°♑15'47	
	-10299 Apr 26 j 06:22	0°♒	
	-10299 Aug 01 j 06:37	15°♒	
retrograde	-10299 Aug 15 j 00:25	15°♒18'44	
	-10299 Aug 28 j 16:38	15°℞♒	
opposition	-10299 Oct 13 j 04:21	10°♒21'19	-1°11'00
min. Earth dist.	-10299 Oct 13 j 08:20	10°♒20'00	4.25872 AU
direct	-10299 Dec 13 j 03:15	5°♒17'05	
	-10298 Mar 09 j 21:55	15°♒	
evening set	-10298 Apr 21 j 01:41	23°♒50'20	
conjunction	-10298 May 04 j 10:58	26°♒49'03	-0°21'17
minimum elong	-10298 May 04 j 11:00	26°♒49'04	0°21'40
max. Earth dist.	-10298 May 03 j 19:09	26°♒40'14	6.29372 AU
morning rise	-10298 May 17 j 17:05	29°♒46'02	
	-10298 May 18 j 18:19	0°♓	

Attention, astronomical year style is used: The year -10298 in astronomical counting style is the year 10299 BCE in historical counting style.

retrograde	-10298 Sep 15 j 17:23	17°♓13'31	
asc. node	-10298 Oct 05 j 00:16	16°♓37'15	
opposition	-10298 Nov 14 j 09:22	12°♓19'29	0°08'20
min. Earth dist.	-10298 Nov 15 j 00:17	12°♓14'36	4.32128 AU
direct	-10297 Jan 15 j 09:35	7°♓16'04	
evening set	-10297 May 23 j 19:42	25°♓30'53	
conjunction	-10297 Jun 05 j 20:03	28°♓24'01	0°33'28
minimum elong	-10297 Jun 05 j 20:00	28°♓23'59	0°33'24
max. Earth dist.	-10297 Jun 04 j 17:28	28°♓09'14	6.33914 AU
	-10297 Jun 13 j 00:41	0°♈	
morning rise	-10297 Jun 18 j 16:46	1°♈15'24	
retrograde	-10297 Oct 17 j 05:41	18°♈29'51	
opposition	-10297 Dec 16 j 14:27	13°♈37'53	1°23'44
min. Earth dist.	-10297 Dec 17 j 11:15	13°♈31'13	4.34699 AU
direct	-10296 Feb 17 j 02:16	8°♈36'49	
evening set	-10296 Jun 23 j 10:40	26°♈40'38	
max. Earth dist.	-10296 Jul 04 j 17:46	29°♈11'47	6.34211 AU
conjunction	-10296 Jul 06 j 01:25	29°♈29'30	1°17'56
minimum elong	-10296 Jul 06 j 01:20	29°♈29'27	1°18'09
	-10296 Jul 08 j 07:58	0°♉	
morning rise	-10296 Jul 18 j 13:50	2°♉17'10	
	-10296 Sep 21 j 04:58	15°♉	
retrograde	-10296 Nov 17 j 08:46	19°♉42'34	
	-10295 Jan 16 j 03:05	15°℞♉	
opposition	-10295 Jan 17 j 08:06	14°♉50'48	2°14'57
min. Earth dist.	-10295 Jan 18 j 05:53	14°♉43'53	4.32831 AU
direct	-10295 Mar 20 j 17:23	9°♉52'42	
	-10295 May 20 j 12:38	15°♉	
evening set	-10295 Jul 24 j 13:24	27°♉54'32	
	-10295 Aug 02 j 19:52	0°♊	
conjunction	-10295 Aug 05 j 22:40	0°♊42'21	1°39'59
minimum elong	-10295 Aug 05 j 22:38	0°♊42'20	1°40'28
max. Earth dist.	-10295 Aug 04 j 21:00	0°♊27'49	6.30210 AU
morning rise	-10295 Aug 18 j 06:53	3°♊29'48	
retrograde	-10295 Dec 20 j 11:37	21°♊26'04	
opposition	-10294 Feb 19 j 22:32	16°♊32'41	2°27'15
min. Earth dist.	-10294 Feb 20 j 13:13	16°♊28'01	4.27033 AU
direct	-10294 Apr 22 j 12:29	11°♊37'32	
evening set	-10294 Aug 24 j 21:39	29°♊45'40	
	-10294 Aug 25 j 22:45	0°♋	
conjunction	-10294 Sep 06 j 07:37	2°♋36'36	1°32'28
minimum elong	-10294 Sep 06 j 07:41	2°♋36'38	1°33'03
max. Earth dist.	-10294 Sep 05 j 18:00	2°♋28'46	6.23061 AU
morning rise	-10294 Sep 18 j 18:40	5°♋28'13	
retrograde	-10293 Jan 24 j 01:34	24°♋07'40	
opposition	-10293 Mar 26 j 13:19	19°♋11'09	1°54'03
min. Earth dist.	-10293 Mar 26 j 17:12	19°♋09'54	4.18987 AU
direct	-10293 May 26 j 00:24	14°♋17'56	
	-10293 Sep 14 j 15:47	0°♌	
evening set	-10293 Sep 26 j 05:22	2°♌39'11	
conjunction	-10293 Oct 08 j 22:36	5°♌36'45	0°55'27
minimum elong	-10293 Oct 08 j 22:41	5°♌36'48	0°55'57
max. Earth dist.	-10293 Oct 09 j 02:52	5°♌39'14	6.14919 AU
morning rise	-10293 Oct 21 j 18:34	8°♌35'53	
	-10293 Nov 19 j 06:52	15°♌	
retrograde	-10292 Feb 28 j 18:51	27°♌59'01	
opposition	-10292 Apr 29 j 23:00	22°♌58'40	0°41'37
min. Earth dist.	-10292 Apr 29 j 13:03	23°♌01'55	4.11338 AU
direct	-10292 Jun 28 j 03:37	18°♌05'43	
	-10292 Sep 29 j 08:08	0°♍	
evening set	-10292 Oct 29 j 04:36	6°♍44'52	
desc. node	-10292 Nov 03 j 00:35	7°♍52'42	
conjunction	-10292 Nov 11 j 07:51	9°♍49'42	-0°01'17
minimum elong	-10292 Nov 11 j 07:50	9°♍49'42	0°01'01
behind sun begin	-10292 Nov 10 j 23:38	9°♍44'54	
behind sun end	-10292 Nov 11 j 16:02	9°♍54'30	
max. Earth dist.	-10292 Nov 12 j 05:24	10°♍02'22	6.08523 AU
morning rise	-10292 Nov 24 j 14:41	12°♍56'30	
	-10291 Feb 20 j 21:42	0°♎	
retrograde	-10291 Apr 05 j 03:45	2°♎49'16	
	-10291 May 18 j 07:02	30°℞♍	
opposition	-10291 Jun 04 j 15:20	27°♍45'34	-0°47'33
min. Earth dist.	-10291 Jun 03 j 20:11	27°♍51'59	4.06760 AU
direct	-10291 Aug 01 j 23:51	22°♍50'50	
	-10291 Oct 10 j 01:00	0°♎	
evening set	-10291 Dec 03 j 22:50	11°♎48'20	
conjunction	-10291 Dec 17 j 10:29	14°♎57'46	-0°58'24
minimum elong	-10291 Dec 17 j 10:23	14°♎57'43	0°58'30
max. Earth dist.	-10291 Dec 18 j 19:54	15°♎17'22	6.06129 AU
morning rise	-10291 Dec 31 j 01:09	18°♎08'48	
	-10290 Feb 24 j 04:41	0°♏	
retrograde	-10290 May 11 j 05:50	8°♏04'46	
opposition	-10290 Jul 09 j 23:30	2°♏59'41	-2°00'08
min. Earth dist.	-10290 Jul 09 j 01:51	3°♏07'04	4.06905 AU
	-10290 Aug 02 j 15:28	30°℞♎	
direct	-10290 Sep 06 j 02:59	28°♎01'53	
	-10290 Oct 10 j 18:08	0°♏	
	-10290 Dec 31 j 09:36	15°♏	
evening set	-10289 Jan 09 j 21:12	17°♏10'24	
conjunction	-10289 Jan 23 j 13:07	20°♏20'22	-1°34'19
minimum elong	-10289 Jan 23 j 13:03	20°♏20'19	1°34'43
max. Earth dist.	-10289 Jan 24 j 19:51	20°♏38'11	6.08634 AU
morning rise	-10289 Feb 06 j 06:47	23°♏31'04	
	-10289 Mar 07 j 06:42	0°♐	
retrograde	-10289 Jun 15 j 06:26	13°♐00'40	
opposition	-10289 Aug 13 j 11:22	7°♐56'42	-2°28'18
min. Earth dist.	-10289 Aug 12 j 18:49	8°♐02'22	4.11606 AU
direct	-10289 Oct 11 j 05:36	2°♐55'27	
evening set	-10288 Feb 15 j 18:27	22°♐01'26	
conjunction	-10288 Feb 29 j 11:31	25°♐08'59	-1°35'55
minimum elong	-10288 Feb 29 j 11:34	25°♐09'00	1°36'29
max. Earth dist.	-10288 Mar 01 j 06:19	25°♐19'43	6.15065 AU
morning rise	-10288 Mar 14 j 03:56	28°♐16'06	
	-10288 Mar 21 j 20:19	0°♑	
retrograde	-10288 Jul 17 j 23:11	16°♑59'50	
opposition	-10288 Sep 14 j 22:40	11°♑59'04	-2°04'20
min. Earth dist.	-10288 Sep 14 j 17:01	12°♑00'59	4.19106 AU
direct	-10288 Nov 13 j 19:50	6°♑55'27	
evening set	-10287 Mar 22 j 12:01	25°♑46'16	
conjunction	-10287 Apr 05 j 02:36	28°♑49'35	-1°04'49
minimum elong	-10287 Apr 05 j 02:42	28°♑49'39	1°05'20
max. Earth dist.	-10287 Apr 05 j 01:29	28°♑48'58	6.23075 AU
	-10287 Apr 10 j 07:48	0°♒	
morning rise	-10287 Apr 18 j 14:57	1°♒51'38	
	-10287 Jun 23 j 18:32	15°♒	
retrograde	-10287 Aug 19 j 08:19	19°♒48'35	
	-10287 Oct 16 j 12:38	15°℞♒	
opposition	-10287 Oct 17 j 13:42	14°♒51'39	-1°00'51
min. Earth dist.	-10287 Oct 17 j 19:46	14°♒49'38	4.26836 AU
direct	-10287 Dec 17 j 16:19	9°♒47'20	
	-10286 Feb 16 j 20:25	15°♒	
evening set	-10286 Apr 25 j 14:19	28°♒18'08	
	-10286 May 03 j 05:58	0°♓	
conjunction	-10286 May 08 j 22:41	1°♓16'11	-0°13'49

Attention, astronomical year style is used: The year -10286 in astronomical counting style is the year 10287 BCE in historical counting style.

minimum elong	-10286 May 08 j 22:43	1°♓16'12	0°14'10
behind sun begin	-10286 May 08 j 18:51	1°♓14'03	
behind sun end	-10286 May 09 j 02:34	1°♓18'20	
max. Earth dist.	-10286 May 08 j 05:07	1°♓06'24	6.30028 AU
morning rise	-10286 May 22 j 03:34	4°♓12'27	
asc. node	-10286 Aug 16 j 12:33	19°♓45'24	
retrograde	-10286 Sep 20 j 00:49	21°♓37'33	
opposition	-10286 Nov 18 j 18:33	16°♓43'54	0°19'18
min. Earth dist.	-10286 Nov 19 j 10:52	16°♓38'36	4.32427 AU
direct	-10285 Jan 19 j 20:31	11°♓40'45	
evening set	-10285 May 28 j 04:59	29°♓54'43	
	-10285 May 28 j 14:33	0°♈	
max. Earth dist.	-10285 Jun 08 j 22:28	2°♈30'56	6.33817 AU
conjunction	-10285 Jun 10 j 03:56	2°♈47'20	0°40'26
minimum elong	-10285 Jun 10 j 03:53	2°♈47'18	0°40'24
morning rise	-10285 Jun 22 j 23:38	5°♈38'16	
retrograde	-10285 Oct 21 j 16:07	22°♈54'17	
opposition	-10285 Dec 21 j 01:56	18°♈02'26	1°32'34
min. Earth dist.	-10285 Dec 21 j 23:45	17°♈55'26	4.34245 AU
direct	-10284 Feb 21 j 14:08	13°♈01'41	
	-10284 Jun 22 j 18:52	0°♉	
evening set	-10284 Jun 27 j 18:45	1°♉06'22	
max. Earth dist.	-10284 Jul 09 j 02:37	3°♉38'15	6.33430 AU
conjunction	-10284 Jul 10 j 08:42	3°♉55'07	1°22'29
minimum elong	-10284 Jul 10 j 08:37	3°♉55'04	1°22'46
morning rise	-10284 Jul 22 j 20:09	6°♉42'43	
	-10284 Aug 31 j 00:28	15°♉	
retrograde	-10284 Nov 21 j 21:50	24°♉12'50	
opposition	-10283 Jan 21 j 23:28	19°♉20'57	2°19'11
min. Earth dist.	-10283 Jan 22 j 20:00	19°♉14'26	4.31803 AU
	-10283 Mar 05 j 02:27	15°℞♉	
direct	-10283 Mar 25 j 05:51	14°♉23'20	
	-10283 Apr 14 j 10:11	15°♉	
	-10283 Jul 17 j 23:06	0°♊	
evening set	-10283 Jul 28 j 22:39	2°♊26'59	
max. Earth dist.	-10283 Aug 09 j 06:46	5°♊01'04	6.29005 AU
conjunction	-10283 Aug 10 j 07:31	5°♊15'07	1°40'43
minimum elong	-10283 Aug 10 j 07:30	5°♊15'07	1°41'13
morning rise	-10283 Aug 22 j 15:54	8°♊03'06	
retrograde	-10283 Dec 25 j 08:04	26°♊06'00	
opposition	-10282 Feb 24 j 18:45	21°♊12'12	2°25'16
min. Earth dist.	-10282 Feb 25 j 08:12	21°♊07'56	4.25735 AU
direct	-10282 Apr 27 j 05:55	16°♊17'24	
	-10282 Aug 09 j 12:32	0°♋	
evening set	-10282 Aug 29 j 09:45	4°♋27'37	
conjunction	-10282 Sep 10 j 20:33	7°♋19'25	1°28'50
minimum elong	-10282 Sep 10 j 20:37	7°♋19'27	1°29'26
max. Earth dist.	-10282 Sep 10 j 10:34	7°♋13'39	6.21795 AU
morning rise	-10282 Sep 23 j 08:31	10°♋11'59	
retrograde	-10281 Jan 29 j 00:48	28°♋57'58	
opposition	-10281 Mar 31 j 12:55	24°♋00'55	1°45'46
min. Earth dist.	-10281 Mar 31 j 13:54	24°♋00'35	4.17850 AU
direct	-10281 May 30 j 19:05	19°♋07'53	
	-10281 Aug 28 j 03:47	0°♌	
evening set	-10281 Sep 30 j 22:26	7°♌31'03	
conjunction	-10281 Oct 13 j 16:53	10°♌29'36	0°48'14
minimum elong	-10281 Oct 13 j 16:58	10°♌29'38	0°48'43
max. Earth dist.	-10281 Oct 13 j 23:53	10°♌33'41	6.14002 AU
morning rise	-10281 Oct 26 j 14:22	13°♌29'48	
	-10281 Nov 02 j 02:49	15°♌	
	-10280 Jan 20 j 04:36	0°♍	
retrograde	-10280 Mar 04 j 21:42	2°♍57'29	
	-10280 Apr 18 j 19:51	30°℞♌	
opposition	-10280 May 04 j 23:52	27°♌56'31	0°29'18
min. Earth dist.	-10280 May 04 j 12:15	28°♌00'20	4.10689 AU
direct	-10280 Jul 03 j 01:39	23°♌03'23	
	-10280 Sep 09 j 08:44	0°♍	
desc. node	-10280 Sep 12 j 07:33	0°♍32'45	
evening set	-10280 Nov 03 j 02:49	11°♍44'13	
conjunction	-10280 Nov 16 j 07:27	14°♍49'47	-0°09'49
minimum elong	-10280 Nov 16 j 07:26	14°♍49'46	0°09'36
behind sun begin	-10280 Nov 16 j 00:38	14°♍45'48	
behind sun end	-10280 Nov 16 j 14:13	14°♍53'44	
max. Earth dist.	-10280 Nov 17 j 08:19	15°♍04'22	6.08191 AU
morning rise	-10280 Nov 29 j 15:33	17°♍57'16	
	-10279 Jan 24 j 20:33	0°♎	
retrograde	-10279 Apr 10 j 05:42	7°♎51'04	
opposition	-10279 Jun 09 j 15:01	2°♎47'03	-0°59'28
min. Earth dist.	-10279 Jun 08 j 19:06	2°♎53'45	4.06787 AU
	-10279 Jul 01 j 17:00	30°℞♍	
direct	-10279 Aug 06 j 21:35	27°♍52'01	
	-10279 Sep 11 j 22:27	0°♎	
evening set	-10279 Dec 09 j 01:17	16°♎50'30	
conjunction	-10279 Dec 22 j 13:32	20°♎00'03	-1°05'07
minimum elong	-10279 Dec 22 j 13:26	19°♎59'59	1°05'15
max. Earth dist.	-10279 Dec 23 j 22:03	20°♎19'05	6.06473 AU
morning rise	-10278 Jan 05 j 04:56	23°♎11'09	
	-10278 Feb 04 j 11:33	0°♏	
retrograde	-10278 May 16 j 03:13	13°♏04'10	
opposition	-10278 Jul 14 j 19:51	7°♏59'07	-2°07'05
min. Earth dist.	-10278 Jul 13 j 22:18	8°♏06'28	4.07552 AU
direct	-10278 Sep 11 j 00:55	3°♏00'49	
	-10278 Dec 13 j 22:07	15°♏	
evening set	-10277 Jan 15 j 00:22	22°♏09'04	
conjunction	-10277 Jan 28 j 16:43	25°♏18'46	-1°36'41
minimum elong	-10277 Jan 28 j 16:40	25°♏18'44	1°37'08
max. Earth dist.	-10277 Jan 29 j 23:15	25°♏36'26	6.09527 AU
morning rise	-10277 Feb 11 j 10:12	28°♏28'58	
	-10277 Feb 18 j 01:32	0°♐	
retrograde	-10277 Jun 20 j 01:10	17°♐52'31	
opposition	-10277 Aug 18 j 03:47	12°♐48'58	-2°27'58
min. Earth dist.	-10277 Aug 17 j 13:12	12°♐53'58	4.12665 AU
direct	-10277 Oct 16 j 01:30	7°♐47'23	
evening set	-10276 Feb 20 j 18:42	26°♐51'32	
conjunction	-10276 Mar 05 j 11:33	29°♐58'33	-1°33'21
minimum elong	-10276 Mar 05 j 11:37	29°♐58'35	1°33'57
	-10276 Mar 05 j 14:06	0°♑	
max. Earth dist.	-10276 Mar 06 j 02:48	0°♑07'14	6.16194 AU
morning rise	-10276 Mar 19 j 03:43	3°♑05'04	
retrograde	-10276 Jul 22 j 11:14	21°♑42'01	
opposition	-10276 Sep 19 j 11:40	16°♑41'47	-1°57'27
min. Earth dist.	-10276 Sep 19 j 07:20	16°♑43'15	4.20206 AU
direct	-10276 Nov 18 j 12:05	11°♑37'59	
	-10275 Mar 25 j 07:47	0°♒	
evening set	-10275 Mar 27 j 07:04	0°♒26'20	
conjunction	-10275 Apr 09 j 21:05	3°♒29'01	-0°58'35
minimum elong	-10275 Apr 09 j 21:10	3°♒29'04	0°59'06
max. Earth dist.	-10275 Apr 09 j 17:27	3°♒26'59	6.24086 AU
morning rise	-10275 Apr 23 j 08:33	6°♒30'20	
	-10275 Jun 02 j 09:28	15°♒	
retrograde	-10275 Aug 23 j 19:03	24°♒22'13	
opposition	-10275 Oct 22 j 00:55	19°♒25'51	-0°50'13
min. Earth dist.	-10275 Oct 22 j 09:11	19°♒23'06	4.27659 AU
	-10275 Dec 02 j 01:50	15°℞♒	

Attention, astronomical year style is used: The year -10275 in astronomical counting style is the year 10276 BCE in historical counting style.

direct	-10275 Dec 22 j 07:23	14°♒21'39	
	-10274 Jan 11 j 17:26	15°♒	
	-10274 Apr 17 j 04:56	0°♓	
evening set	-10274 Apr 30 j 04:36	2°♓50'22	
conjunction	-10274 May 13 j 11:51	5°♓47'44	-0°06'09
minimum elong	-10274 May 13 j 11:51	5°♓47'45	0°06'27
behind sun begin	-10274 May 13 j 04:11	5°♓43'30	
behind sun end	-10274 May 13 j 19:31	5°♓51'59	
max. Earth dist.	-10274 May 12 j 15:34	5°♓36'27	6.30602 AU
morning rise	-10274 May 26 j 15:37	8°♓43'19	
asc. node	-10274 Jun 26 j 12:02	15°♓19'05	
retrograde	-10274 Sep 24 j 09:43	26°♓06'26	
opposition	-10274 Nov 23 j 05:43	21°♓13'08	0°30'23
min. Earth dist.	-10274 Nov 23 j 22:56	21°♓07'32	4.32734 AU
direct	-10273 Jan 24 j 09:17	16°♓10'15	
	-10273 May 12 j 09:28	0°♈	
evening set	-10273 Jun 01 j 15:46	4°♈23'16	
max. Earth dist.	-10273 Jun 13 j 08:22	6°♈59'06	6.33843 AU
conjunction	-10273 Jun 14 j 13:28	7°♈15'19	0°47'19
minimum elong	-10273 Jun 14 j 13:24	7°♈15'17	0°47'19
morning rise	-10273 Jun 27 j 07:49	10°♈05'43	
retrograde	-10273 Oct 26 j 03:04	27°♈22'59	
opposition	-10273 Dec 25 j 15:08	22°♈31'18	1°41'04
min. Earth dist.	-10273 Dec 26 j 13:08	22°♈24'16	4.34011 AU
direct	-10272 Feb 26 j 03:38	17°♈31'04	
	-10272 Jun 06 j 07:13	0°♉	
evening set	-10272 Jul 02 j 03:46	5°♉35'37	
max. Earth dist.	-10272 Jul 13 j 10:00	8°♉06'54	6.32945 AU
conjunction	-10272 Jul 14 j 16:36	8°♉24'05	1°26'40
minimum elong	-10272 Jul 14 j 16:31	8°♉24'02	1°26'59
morning rise	-10272 Jul 27 j 03:25	11°♉11'34	
	-10272 Aug 13 j 11:13	15°♉	
retrograde	-10272 Nov 26 j 12:31	28°♉45'32	
opposition	-10271 Jan 26 j 15:48	23°♉53'28	2°22'41
min. Earth dist.	-10271 Jan 27 j 11:25	23°♉47'15	4.31130 AU
direct	-10271 Mar 29 j 20:30	18°♉56'17	
	-10271 Jul 01 j 00:10	0°♊	
evening set	-10271 Aug 02 j 07:42	7°♊00'22	
conjunction	-10271 Aug 14 j 16:33	9°♊48'45	1°40'55
minimum elong	-10271 Aug 14 j 16:33	9°♊48'45	1°41'25
max. Earth dist.	-10271 Aug 13 j 19:08	9°♊36'34	6.28212 AU
morning rise	-10271 Aug 27 j 00:51	12°♊37'02	
	-10271 Dec 07 j 21:48	0°♋	
retrograde	-10271 Dec 30 j 01:38	0°♋44'59	
	-10270 Jan 21 j 06:56	30°℞♊	
opposition	-10270 Mar 01 j 13:54	25°♊50'50	2°22'23
min. Earth dist.	-10270 Mar 02 j 01:27	25°♊47'10	4.24881 AU
direct	-10270 May 01 j 21:43	20°♊56'23	
	-10270 Jul 22 j 14:37	0°♋	
evening set	-10270 Sep 02 j 20:57	9°♋07'15	
conjunction	-10270 Sep 15 j 08:19	11°♋59'41	1°24'44
minimum elong	-10270 Sep 15 j 08:24	11°♋59'44	1°25'19
max. Earth dist.	-10270 Sep 14 j 23:48	11°♋54'46	6.20952 AU
morning rise	-10270 Sep 27 j 21:23	14°♋53'05	
	-10270 Dec 14 j 03:09	0°♌	
retrograde	-10269 Feb 02 j 22:36	3°♌44'04	
	-10269 Mar 26 j 19:22	30°℞♋	
opposition	-10269 Apr 05 j 10:07	28°♋46'25	1°36'55
min. Earth dist.	-10269 Apr 05 j 09:10	28°♋46'43	4.17054 AU
direct	-10269 Jun 04 j 12:45	23°♋53'25	
	-10269 Aug 07 j 23:24	0°♌	
evening set	-10269 Oct 05 j 13:08	12°♌17'37	
	-10269 Oct 17 j 03:51	15°♌	
conjunction	-10269 Oct 18 j 09:02	15°♌17'02	0°40'52
minimum elong	-10269 Oct 18 j 09:06	15°♌17'05	0°41'19
max. Earth dist.	-10269 Oct 18 j 19:36	15°♌23'12	6.13342 AU
morning rise	-10269 Oct 31 j 07:51	18°♌18'10	
	-10269 Dec 25 j 03:42	0°♍	
retrograde	-10268 Mar 09 j 21:17	7°♍49'18	
opposition	-10268 May 09 j 21:27	2°♍47'51	0°17'06
min. Earth dist.	-10268 May 09 j 08:48	2°♍52'01	4.10211 AU
	-10268 Jun 01 j 13:06	30°℞♌	
direct	-10268 Jul 07 j 20:08	27°♌54'33	
desc. node	-10268 Jul 24 j 08:58	28°♌21'59	
	-10268 Aug 12 j 17:54	0°♍	
evening set	-10268 Nov 07 j 22:41	16°♍36'49	
conjunction	-10268 Nov 21 j 04:20	19°♍42'59	-0°18'03
minimum elong	-10268 Nov 21 j 04:18	19°♍42'57	0°17'53
max. Earth dist.	-10268 Nov 22 j 05:09	19°♍57'32	6.07920 AU
morning rise	-10268 Dec 04 j 13:46	22°♍51'06	
	-10267 Jan 05 j 08:14	0°♎	
retrograde	-10267 Apr 15 j 02:51	12°♎45'38	
opposition	-10267 Jun 14 j 10:58	7°♎41'19	-1°10'40
min. Earth dist.	-10267 Jun 13 j 14:16	7°♎48'17	4.06752 AU
direct	-10267 Aug 11 j 16:28	2°♎45'49	
evening set	-10267 Dec 14 j 01:10	21°♎45'51	
conjunction	-10267 Dec 27 j 14:20	24°♎55'37	-1°11'12
minimum elong	-10267 Dec 27 j 14:14	24°♎55'34	1°11'22
max. Earth dist.	-10267 Dec 28 j 23:58	25°♎15'17	6.06671 AU
morning rise	-10266 Jan 10 j 06:07	28°♎06'46	
	-10266 Jan 18 j 10:36	0°♏	
	-10266 Apr 07 j 05:24	15°♏	
retrograde	-10266 May 21 j 00:33	17°♏57'18	
	-10266 Jul 03 j 11:26	15°℞♏	
opposition	-10266 Jul 19 j 13:29	12°♏52'19	-2°13'00
min. Earth dist.	-10266 Jul 18 j 17:34	12°♏59'08	4.07973 AU
direct	-10266 Sep 15 j 20:23	7°♏53'33	
	-10266 Nov 24 j 04:43	15°♏	
evening set	-10265 Jan 20 j 01:34	27°♏02'24	
	-10265 Feb 01 j 21:28	0°♐	
conjunction	-10265 Feb 02 j 18:07	0°♐11'56	-1°38'20
minimum elong	-10265 Feb 02 j 18:04	0°♐11'54	1°38'48
max. Earth dist.	-10265 Feb 03 j 22:03	0°♐28'04	6.10114 AU
morning rise	-10265 Feb 16 j 11:46	3°♐21'53	
retrograde	-10265 Jun 24 j 16:11	22°♐40'28	
opposition	-10265 Aug 22 j 18:37	17°♐37'17	-2°26'38
min. Earth dist.	-10265 Aug 22 j 04:45	17°♐42'01	4.13373 AU
direct	-10265 Oct 20 j 18:28	12°♐35'16	
	-10264 Feb 18 j 10:04	0°♑	
evening set	-10264 Feb 25 j 17:51	1°♑38'50	
conjunction	-10264 Mar 10 j 10:36	4°♑45'29	-1°30'11
minimum elong	-10264 Mar 10 j 10:40	4°♑45'32	1°30'45
max. Earth dist.	-10264 Mar 10 j 23:03	4°♑52'35	6.16986 AU
morning rise	-10264 Mar 24 j 02:21	7°♑51'29	
retrograde	-10264 Jul 27 j 01:03	26°♑22'54	
opposition	-10264 Sep 24 j 00:31	21°♑23'12	-1°49'52
min. Earth dist.	-10264 Sep 23 j 22:44	21°♑23'49	4.20994 AU
direct	-10264 Nov 23 j 05:37	16°♑19'15	
	-10263 Mar 08 j 16:32	0°♒	
evening set	-10263 Apr 01 j 02:12	5°♒06'01	
conjunction	-10263 Apr 14 j 15:40	8°♒08'12	-0°51'58
minimum elong	-10263 Apr 14 j 15:45	8°♒08'15	0°52'28
max. Earth dist.	-10263 Apr 14 j 10:00	8°♒05'02	6.24830 AU

Attention, astronomical year style is used: The year -10263 in astronomical counting style is the year 10264 BCE in historical counting style.

morning rise	-10263 Apr 28 j 02:18	11°♒08'53	
	-10263 May 15 j 15:30	15°♒	
retrograde	-10263 Aug 28 j 04:27	28°♒56'30	
opposition	-10263 Oct 26 j 12:42	24°♒00'36	-0°39'13
min. Earth dist.	-10263 Oct 26 j 21:29	23°♒57'41	4.28308 AU
direct	-10263 Dec 26 j 21:30	18°♒56'29	
	-10262 Mar 30 j 22:46	0°♓	
evening set	-10262 May 04 j 19:21	7°♓23'27	
asc. node	-10262 May 05 j 22:01	7°♓38'11	
max. Earth dist.	-10262 May 17 j 03:40	10°♓08'03	6.31125 AU
conjunction	-10262 May 18 j 01:23	10°♓20'08	0°01'44
minimum elong	-10262 May 18 j 01:21	10°♓20'07	0°01'29
behind sun begin	-10262 May 17 j 17:12	10°♓15'36	
behind sun end	-10262 May 18 j 09:30	10°♓24'38	
morning rise	-10262 May 31 j 03:56	13°♓15'00	
	-10262 Sep 09 j 10:17	0°♈	
retrograde	-10262 Sep 28 j 20:38	0°♈36'16	
	-10262 Oct 18 j 05:41	30°℞♓	
opposition	-10262 Nov 27 j 18:04	25°♓43'18	0°41'22
min. Earth dist.	-10262 Nov 28 j 12:35	25°♓37'18	4.33090 AU
direct	-10261 Jan 29 j 00:44	20°♓40'44	
	-10261 Apr 24 j 13:44	0°♈	
evening set	-10261 Jun 06 j 02:40	8°♈52'08	
conjunction	-10261 Jun 18 j 23:02	11°♈43'33	0°53'58
minimum elong	-10261 Jun 18 j 22:57	11°♈43'30	0°54'02
max. Earth dist.	-10261 Jun 17 j 17:16	11°♈26'58	6.33981 AU
morning rise	-10261 Jul 01 j 16:11	14°♈33'22	
	-10261 Sep 25 j 18:50	0°♉	
retrograde	-10261 Oct 30 j 13:32	1°♉51'28	
	-10261 Dec 04 j 17:25	30°℞♈	
opposition	-10261 Dec 30 j 04:44	26°♈59'46	1°48'59
min. Earth dist.	-10261 Dec 31 j 02:05	26°♈52'58	4.33942 AU
direct	-10260 Mar 01 j 16:45	21°♈59'55	
	-10260 May 18 j 21:31	0°♉	
evening set	-10260 Jul 06 j 12:23	10°♉03'33	
max. Earth dist.	-10260 Jul 17 j 19:40	12°♉35'35	6.32648 AU
conjunction	-10260 Jul 19 j 00:20	12°♉51'42	1°30'20
minimum elong	-10260 Jul 19 j 00:16	12°♉51'40	1°30'41
	-10260 Jul 28 j 12:39	15°♉	
morning rise	-10260 Jul 31 j 10:17	15°♉38'57	
	-10260 Oct 14 j 23:15	0°♊	
retrograde	-10260 Dec 01 j 02:30	3°♊16'05	
	-10259 Jan 18 j 09:48	30°℞♉	
opposition	-10259 Jan 31 j 07:34	28°♉23'52	2°25'19
min. Earth dist.	-10259 Feb 01 j 02:47	28°♉17'47	4.30613 AU
direct	-10259 Apr 03 j 10:59	23°♉27'06	
	-10259 Jun 11 j 13:51	0°♊	
evening set	-10259 Aug 06 j 15:56	11°♊31'06	
max. Earth dist.	-10259 Aug 18 j 03:14	14°♊07'34	6.27484 AU
conjunction	-10259 Aug 19 j 00:35	14°♊19'43	1°40'30
minimum elong	-10259 Aug 19 j 00:35	14°♊19'43	1°41'03
morning rise	-10259 Aug 31 j 09:14	17°♊08'25	
	-10259 Nov 03 j 03:36	0°♋	
retrograde	-10258 Jan 03 j 19:20	5°♋21'27	
opposition	-10258 Mar 06 j 08:18	0°♋26'51	2°18'41
min. Earth dist.	-10258 Mar 06 j 18:04	0°♋23'45	4.23977 AU
	-10258 Mar 09 j 20:46	30°℞♊	
direct	-10258 May 06 j 12:13	25°♊32'38	
	-10258 Jun 30 j 16:45	0°♋	
evening set	-10258 Sep 07 j 07:12	13°♋44'37	
conjunction	-10258 Sep 19 j 19:35	16°♋37'53	1°20'08
minimum elong	-10258 Sep 19 j 19:40	16°♋37'55	1°20'42
max. Earth dist.	-10258 Sep 19 j 14:27	16°♋34'55	6.19959 AU
morning rise	-10258 Oct 02 j 09:36	19°♋32'10	
	-10258 Nov 20 j 07:57	0°♌	
retrograde	-10257 Feb 07 j 20:55	8°♌28'54	
opposition	-10257 Apr 10 j 06:51	3°♌30'46	1°27'29
min. Earth dist.	-10257 Apr 10 j 04:54	3°♌31'24	4.16031 AU
	-10257 May 10 j 17:25	30°℞♋	
direct	-10257 Jun 09 j 05:29	28°♋37'52	
	-10257 Jul 08 j 11:34	0°♌	
	-10257 Oct 01 j 04:51	15°♌	
evening set	-10257 Oct 10 j 04:29	17°♌04'21	
conjunction	-10257 Oct 23 j 01:34	20°♌04'46	0°33'13
minimum elong	-10257 Oct 23 j 01:38	20°♌04'48	0°33'40
max. Earth dist.	-10257 Oct 23 j 12:41	20°♌11'16	6.12380 AU
morning rise	-10257 Nov 05 j 02:04	23°♌07'02	
	-10257 Dec 05 j 18:02	0°♍	
retrograde	-10256 Mar 14 j 19:56	12°♍42'56	
opposition	-10256 May 14 j 19:14	7°♍40'59	0°04'43
min. Earth dist.	-10256 May 14 j 04:44	7°♍45'46	4.09385 AU
desc. node	-10256 Jun 04 j 12:35	5°♍05'22	
direct	-10256 Jul 12 j 14:13	2°♍47'27	
evening set	-10256 Nov 12 j 20:07	21°♍32'54	
conjunction	-10256 Nov 26 j 03:11	24°♍39'54	-0°26'14
minimum elong	-10256 Nov 26 j 03:09	24°♍39'53	0°26'07
max. Earth dist.	-10256 Nov 27 j 06:40	24°♍56'02	6.07306 AU
morning rise	-10256 Dec 09 j 13:39	27°♍48'47	
	-10256 Dec 19 j 00:39	0°♎	
retrograde	-10255 Apr 20 j 04:51	17°♎45'22	
opposition	-10255 Jun 19 j 08:52	12°♎40'51	-1°21'32
min. Earth dist.	-10255 Jun 18 j 12:46	12°♎47'38	4.06414 AU
direct	-10255 Aug 16 j 14:04	7°♎44'56	
evening set	-10255 Dec 19 j 03:56	26°♎47'48	
conjunction	-10254 Jan 01 j 17:43	29°♎57'52	-1°16'52
minimum elong	-10254 Jan 01 j 17:37	29°♎57'49	1°17'07
	-10254 Jan 01 j 21:21	0°♏	
max. Earth dist.	-10254 Jan 03 j 02:25	0°♏16'58	6.06608 AU
morning rise	-10254 Jan 15 j 10:12	3°♏09'16	
	-10254 Mar 11 j 17:13	15°♏	
retrograde	-10254 May 25 j 22:06	22°♏58'02	
opposition	-10254 Jul 24 j 09:38	17°♏53'11	-2°18'07
min. Earth dist.	-10254 Jul 23 j 13:22	18°♏00'07	4.08217 AU
	-10254 Aug 15 j 23:30	15°℞♏	
direct	-10254 Sep 20 j 16:44	12°♏53'56	
	-10254 Oct 26 j 15:41	15°♏	
	-10253 Jan 16 j 04:22	0°♐	
evening set	-10253 Jan 25 j 06:08	2°♐04'06	
conjunction	-10253 Feb 07 j 22:57	5°♐13'30	-1°39'20
minimum elong	-10253 Feb 07 j 22:56	5°♐13'29	1°39'49
max. Earth dist.	-10253 Feb 09 j 01:19	5°♐28'43	6.10636 AU
morning rise	-10253 Feb 21 j 16:33	8°♐23'10	
retrograde	-10253 Jun 29 j 12:05	27°♐36'48	
opposition	-10253 Aug 27 j 12:32	22°♐34'03	-2°24'16
min. Earth dist.	-10253 Aug 27 j 00:46	22°♐38'04	4.14120 AU
direct	-10253 Oct 25 j 16:22	17°♐31'43	
	-10252 Jan 31 j 19:52	0°♑	
evening set	-10252 Mar 01 j 19:56	6°♑34'16	
conjunction	-10252 Mar 15 j 12:36	9°♑40'31	-1°26'19
minimum elong	-10252 Mar 15 j 12:41	9°♑40'33	1°26'53
max. Earth dist.	-10252 Mar 16 j 00:04	9°♑47'01	6.17927 AU
morning rise	-10252 Mar 29 j 03:50	12°♑45'55	
	-10252 Jul 04 j 16:51	0°♒	
retrograde	-10252 Jul 31 j 14:54	1°♒11'00	

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

	-10252 Aug 27 j 09:52	30°℞♑	
opposition	-10252 Sep 28 j 16:00	26°♑11'52	-1°41'23
min. Earth dist.	-10252 Sep 28 j 14:24	26°♑12'24	4.22059 AU
direct	-10252 Nov 28 j 00:10	21°♑07'51	
	-10251 Feb 17 j 18:05	0°♒	
evening set	-10251 Apr 05 j 23:12	9°♒51'42	
conjunction	-10251 Apr 19 j 11:41	12°♒53'04	-0°44'56
minimum elong	-10251 Apr 19 j 11:46	12°♒53'06	0°45'24
max. Earth dist.	-10251 Apr 19 j 03:32	12°♒48'30	6.25976 AU
	-10251 Apr 28 j 22:29	15°♒	
morning rise	-10251 May 02 j 21:27	15°♒52'54	
	-10251 Jul 15 j 08:02	0°♓	
retrograde	-10251 Sep 01 j 17:00	3°♓34'57	
	-10251 Oct 20 j 19:08	30°℞♒	
opposition	-10251 Oct 31 j 02:23	28°♒39'30	-0°27'55
min. Earth dist.	-10251 Oct 31 j 13:00	28°♒35'59	4.29435 AU
direct	-10251 Dec 31 j 16:34	23°♒35'32	
	-10250 Mar 10 j 13:49	0°♓	
asc. node	-10250 Mar 15 j 11:46	0°♓50'20	
evening set	-10250 May 09 j 10:15	11°♓58'39	
conjunction	-10250 May 22 j 15:02	14°♓54'22	0°09'29
minimum elong	-10250 May 22 j 15:01	14°♓54'21	0°09'16
behind sun begin	-10250 May 22 j 08:12	14°♓50'35	
behind sun end	-10250 May 22 j 21:50	14°♓58'08	
max. Earth dist.	-10250 May 21 j 17:14	14°♓42'15	6.32157 AU
morning rise	-10250 Jun 04 j 16:08	17°♓48'14	
	-10250 Aug 05 j 06:13	0°♈	
retrograde	-10250 Oct 03 j 04:36	5°♈06'03	
opposition	-10250 Dec 02 j 06:13	0°♈13'19	0°51'59
min. Earth dist.	-10250 Dec 03 j 00:19	0°♈07'28	4.33963 AU
	-10250 Dec 03 j 23:24	30°℞♓	
direct	-10249 Feb 02 j 14:20	25°♓11'03	
	-10249 Apr 02 j 21:31	0°♈	
evening set	-10249 Jun 10 j 12:24	13°♈18'59	
max. Earth dist.	-10249 Jun 22 j 01:08	15°♈52'42	6.34619 AU
conjunction	-10249 Jun 23 j 07:14	16°♈09'28	1°00'11
minimum elong	-10249 Jun 23 j 07:09	16°♈09'26	1°00'18
morning rise	-10249 Jul 05 j 23:07	18°♈58'29	
	-10249 Aug 29 j 10:32	0°♉	
retrograde	-10249 Nov 03 j 23:40	6°♉15'57	
opposition	-10248 Jan 03 j 16:57	1°♉24'19	1°56'02
min. Earth dist.	-10248 Jan 04 j 15:13	1°♉17'14	4.34295 AU
	-10248 Jan 14 j 21:21	30°℞♈	
direct	-10248 Mar 06 j 06:28	26°♈24'50	
	-10248 Apr 25 j 16:52	0°♉	
evening set	-10248 Jul 10 j 18:21	14°♉26'01	
	-10248 Jul 13 j 07:10	15°♉	
max. Earth dist.	-10248 Jul 22 j 00:18	16°♉57'23	6.32662 AU
conjunction	-10248 Jul 23 j 05:25	17°♉13'45	1°33'23
minimum elong	-10248 Jul 23 j 05:21	17°♉13'43	1°33'45
morning rise	-10248 Aug 04 j 14:46	20°♉00'43	
	-10248 Sep 21 j 15:31	0°♊	
retrograde	-10248 Dec 05 j 13:01	7°♊40'13	
opposition	-10247 Feb 04 j 20:44	2°♊47'44	2°26'59
min. Earth dist.	-10247 Feb 05 j 14:43	2°♊42'02	4.30291 AU
	-10247 Feb 28 j 08:57	30°℞♉	
direct	-10247 Apr 07 j 21:17	27°♉51'17	
	-10247 May 16 j 00:48	0°♊	
evening set	-10247 Aug 10 j 21:12	15°♊54'40	
max. Earth dist.	-10247 Aug 22 j 10:36	18°♊32'29	6.26853 AU
conjunction	-10247 Aug 23 j 05:57	18°♊43'32	1°39'31
minimum elong	-10247 Aug 23 j 05:58	18°♊43'33	1°40'05
morning rise	-10247 Sep 04 j 14:45	21°♊32'35	
	-10247 Oct 13 j 21:00	0°♋	
retrograde	-10246 Jan 08 j 11:04	9°♋50'25	
opposition	-10246 Mar 10 j 23:35	4°♋55'27	2°14'15
min. Earth dist.	-10246 Mar 11 j 09:19	4°♋52'21	4.23059 AU
direct	-10246 May 11 j 00:40	0°♋01'28	
evening set	-10246 Sep 11 j 15:06	18°♋14'53	
conjunction	-10246 Sep 24 j 04:18	21°♋09'00	1°15'11
minimum elong	-10246 Sep 24 j 04:23	21°♋09'03	1°15'44
max. Earth dist.	-10246 Sep 23 j 23:06	21°♋05'59	6.18843 AU
morning rise	-10246 Oct 06 j 19:41	24°♋04'21	
	-10246 Nov 02 j 07:25	0°♌	
retrograde	-10245 Feb 12 j 15:08	13°♌07'19	
opposition	-10245 Apr 15 j 00:41	8°♌08'40	1°17'45
min. Earth dist.	-10245 Apr 14 j 20:43	8°♌09'58	4.14791 AU
direct	-10245 Jun 13 j 18:20	3°♌15'46	
	-10245 Sep 14 j 17:00	15°♌	
evening set	-10245 Oct 14 j 17:57	21°♌45'41	
conjunction	-10245 Oct 27 j 16:38	24°♌47'19	0°25'33
minimum elong	-10245 Oct 27 j 16:41	24°♌47'21	0°25'56
max. Earth dist.	-10245 Oct 28 j 06:41	24°♌55'32	6.11154 AU
morning rise	-10245 Nov 09 j 18:30	27°♌50'46	
	-10245 Nov 19 j 02:27	0°♍	
retrograde	-10244 Mar 19 j 20:15	17°♍32'31	
desc. node	-10244 Apr 16 j 18:33	16°♍19'13	
opposition	-10244 May 19 j 15:36	12°♍30'10	-0°07'29
min. Earth dist.	-10244 May 19 j 01:03	12°♍35'00	4.08278 AU
direct	-10244 Jul 17 j 08:03	7°♍36'27	
evening set	-10244 Nov 17 j 17:17	26°♍26'21	
conjunction	-10244 Dec 01 j 01:29	29°♍34'16	-0°34'08
minimum elong	-10244 Dec 01 j 01:25	29°♍34'14	0°34'03
max. Earth dist.	-10244 Dec 02 j 05:17	29°♍50'36	6.06425 AU
	-10244 Dec 02 j 21:17	0°♎	
morning rise	-10244 Dec 14 j 13:18	2°♎44'04	
retrograde	-10243 Apr 25 j 04:20	22°♎43'27	
min. Earth dist.	-10243 Jun 23 j 08:16	17°♎46'04	4.05883 AU
opposition	-10243 Jun 24 j 05:49	17°♎38'46	-1°31'42
direct	-10243 Aug 21 j 08:36	12°♎42'28	
	-10243 Dec 16 j 10:23	0°♏	
evening set	-10243 Dec 24 j 07:09	1°♏49'01	
conjunction	-10242 Jan 06 j 21:41	4°♏59'27	-1°21'55
minimum elong	-10242 Jan 06 j 21:36	4°♏59'24	1°22'12
max. Earth dist.	-10242 Jan 08 j 06:43	5°♏18'45	6.06468 AU
morning rise	-10242 Jan 20 j 14:36	8°♏11'03	
	-10242 Feb 19 j 22:51	15°♏	
retrograde	-10242 May 30 j 21:00	27°♏58'03	
min. Earth dist.	-10242 Jul 28 j 10:32	22°♏59'52	4.08488 AU
opposition	-10242 Jul 29 j 05:41	22°♏53'18	-2°22'09
direct	-10242 Sep 25 j 15:02	17°♏53'35	
	-10242 Dec 29 j 12:54	0°♐	
evening set	-10241 Jan 30 j 10:33	7°♐04'37	
conjunction	-10241 Feb 13 j 03:41	10°♐13'51	-1°39'33
minimum elong	-10241 Feb 13 j 03:41	10°♐13'51	1°40'05
max. Earth dist.	-10241 Feb 14 j 06:09	10°♐29'06	6.11291 AU
morning rise	-10241 Feb 26 j 21:09	13°♐23'09	
	-10241 May 25 j 08:56	0°♑	
retrograde	-10241 Jul 04 j 05:21	2°♑30'54	
	-10241 Aug 12 j 20:25	30°℞♐	
opposition	-10241 Sep 01 j 05:49	27°♐28'32	-2°20'51
min. Earth dist.	-10241 Aug 31 j 18:10	27°♐32'31	4.15081 AU
direct	-10241 Oct 30 j 12:19	22°♐25'54	
	-10240 Jan 11 j 23:22	0°♑	

Attention, astronomical year style is used: The year -10240 in astronomical counting style is the year 10241 BCE in historical counting style.

evening set	-10240 Mar 06 j 20:53	11°♑26'18	
conjunction	-10240 Mar 20 j 13:04	14°♑31'54	-1°21'52
minimum elong	-10240 Mar 20 j 13:09	14°♑31'56	1°22'27
max. Earth dist.	-10240 Mar 20 j 21:10	14°♑36'29	6.19094 AU
morning rise	-10240 Apr 03 j 03:51	17°♑36'35	
	-10240 Jun 02 j 22:29	0°♒	
retrograde	-10240 Aug 05 j 04:39	5°♒54'40	
opposition	-10240 Oct 03 j 06:13	0°♒55'59	-1°32'20
min. Earth dist.	-10240 Oct 03 j 06:50	0°♒55'47	4.23277 AU
	-10240 Oct 10 j 05:38	30°℞♑	
direct	-10240 Dec 02 j 20:06	25°♑51'49	
	-10239 Jan 25 j 08:24	0°♒	
evening set	-10239 Apr 10 j 18:00	14°♒32'11	
	-10239 Apr 12 j 20:06	15°♒	
conjunction	-10239 Apr 24 j 05:46	17°♒32'45	-0°37'41
minimum elong	-10239 Apr 24 j 05:50	17°♒32'47	0°38'07
max. Earth dist.	-10239 Apr 23 j 20:46	17°♒27'43	6.27140 AU
morning rise	-10239 May 07 j 14:18	20°♒31'39	
	-10239 Jun 22 j 00:07	0°♓	
retrograde	-10239 Sep 06 j 01:58	8°♓08'27	
opposition	-10239 Nov 04 j 14:13	3°♓13'27	-0°16'34
min. Earth dist.	-10239 Nov 05 j 01:20	3°♓09'48	4.30429 AU
	-10239 Dec 01 j 06:28	30°℞♒	
direct	-10238 Jan 05 j 06:57	28°♒09'39	
asc. node	-10238 Jan 23 j 17:03	28°♒40'29	
	-10238 Feb 09 j 16:19	0°♓	
evening set	-10238 May 13 j 23:24	16°♓29'44	
max. Earth dist.	-10238 May 26 j 01:57	19°♓10'49	6.32884 AU
conjunction	-10238 May 27 j 02:41	19°♓24'34	0°17'07
minimum elong	-10238 May 27 j 02:39	19°♓24'33	0°16'57
morning rise	-10238 Jun 09 j 02:37	22°♓17'38	
	-10238 Jul 15 j 14:51	0°♈	
retrograde	-10238 Oct 07 j 15:16	9°♈33'36	
opposition	-10238 Dec 06 j 18:01	4°♈41'09	1°02'17
min. Earth dist.	-10238 Dec 07 j 14:02	4°♈34'41	4.34374 AU
	-10237 Jan 23 j 00:48	30°℞♓	
direct	-10237 Feb 07 j 04:51	29°♓39'11	
	-10237 Feb 22 j 09:02	0°♈	
evening set	-10237 Jun 14 j 21:23	17°♈45'25	
max. Earth dist.	-10237 Jun 26 j 08:56	20°♈18'33	6.34659 AU
conjunction	-10237 Jun 27 j 15:04	20°♈35'21	1°06'07
minimum elong	-10237 Jun 27 j 14:59	20°♈35'18	1°06'16
morning rise	-10237 Jul 10 j 05:42	23°♈23'51	
	-10237 Aug 10 j 02:37	0°♉	
retrograde	-10237 Nov 08 j 09:49	10°♉43'05	
opposition	-10236 Jan 08 j 06:08	5°♉51'26	2°02'38
min. Earth dist.	-10236 Jan 09 j 03:32	5°♉44'38	4.33989 AU
direct	-10236 Mar 10 j 17:27	0°♉52'23	
	-10236 Jun 27 j 08:46	15°♉	
evening set	-10236 Jul 15 j 02:06	18°♉53'33	
max. Earth dist.	-10236 Jul 26 j 07:55	21°♉25'08	6.32017 AU
conjunction	-10236 Jul 27 j 12:24	21°♉41'11	1°36'00
minimum elong	-10236 Jul 27 j 12:20	21°♉41'10	1°36'25
morning rise	-10236 Aug 08 j 21:16	24°♉28'12	
	-10236 Sep 03 j 05:47	0°♊	
retrograde	-10236 Dec 10 j 05:47	12°♊12'28	
opposition	-10235 Feb 09 j 13:10	7°♊19'46	2°27'57
min. Earth dist.	-10235 Feb 10 j 07:25	7°♊13'59	4.29350 AU
direct	-10235 Apr 12 j 11:47	2°♊23'42	
evening set	-10235 Aug 15 j 06:04	20°♊28'30	
conjunction	-10235 Aug 27 j 15:05	23°♊17'57	1°37'55
minimum elong	-10235 Aug 27 j 15:07	23°♊17'58	1°38'30
max. Earth dist.	-10235 Aug 26 j 20:37	23°♊07'23	6.25691 AU
morning rise	-10235 Sep 09 j 00:31	26°♊07'45	
	-10235 Sep 26 j 07:39	0°♋	
retrograde	-10234 Jan 13 j 06:27	14°♋32'15	
opposition	-10234 Mar 15 j 19:47	9°♋36'49	2°08'49
min. Earth dist.	-10234 Mar 16 j 02:54	9°♋34'33	4.21766 AU
direct	-10234 May 15 j 15:15	4°♋43'07	
evening set	-10234 Sep 16 j 04:01	22°♋59'06	
conjunction	-10234 Sep 28 j 18:27	25°♋54'17	1°09'30
minimum elong	-10234 Sep 28 j 18:32	25°♋54'19	1°10'03
max. Earth dist.	-10234 Sep 28 j 16:55	25°♋53'23	6.17556 AU
morning rise	-10234 Oct 11 j 11:02	28°♋50'45	
	-10234 Oct 16 j 11:36	0°♌	
	-10233 Jan 03 j 10:55	15°♌	
retrograde	-10233 Feb 17 j 17:03	18°♌00'27	
	-10233 Apr 04 j 07:59	15°℞♌	
opposition	-10233 Apr 20 j 00:14	13°♌01'18	1°06'59
min. Earth dist.	-10233 Apr 19 j 19:15	13°♌02'56	4.13617 AU
direct	-10233 Jun 18 j 14:48	8°♌08'28	
	-10233 Aug 25 j 19:36	15°♌	
evening set	-10233 Oct 19 j 13:17	26°♌41'24	
conjunction	-10233 Nov 01 j 13:18	29°♌44'03	0°17'20
minimum elong	-10233 Nov 01 j 13:20	29°♌44'05	0°17'40
max. Earth dist.	-10233 Nov 02 j 05:28	29°♌53'32	6.10234 AU
	-10233 Nov 02 j 16:29	0°♍	
morning rise	-10233 Nov 14 j 16:51	2°♍48'38	
desc. node	-10232 Feb 25 j 17:16	21°♍20'20	
retrograde	-10232 Mar 24 j 22:07	22°♍34'18	
opposition	-10232 May 24 j 15:58	17°♍31'32	-0°20'08
min. Earth dist.	-10232 May 23 j 22:46	17°♍37'16	4.07746 AU
direct	-10232 Jul 22 j 04:48	12°♍37'35	
	-10232 Nov 16 j 08:12	0°♎	
evening set	-10232 Nov 22 j 18:34	1°♎29'43	
conjunction	-10232 Dec 06 j 03:53	4°♎38'07	-0°42'01
minimum elong	-10232 Dec 06 j 03:49	4°♎38'04	0°41'59
max. Earth dist.	-10232 Dec 07 j 10:01	4°♎55'49	6.06333 AU
morning rise	-10232 Dec 19 j 16:37	7°♎48'19	
retrograde	-10231 Apr 30 j 05:23	27°♎46'51	
min. Earth dist.	-10231 Jun 28 j 07:04	22°♎49'13	4.06260 AU
opposition	-10231 Jun 29 j 04:31	22°♎41'55	-1°41'18
direct	-10231 Aug 26 j 08:14	17°♎45'09	
	-10231 Nov 28 j 22:22	0°♏	
evening set	-10231 Dec 29 j 10:52	6°♏51'41	
conjunction	-10230 Jan 12 j 01:56	10°♏01'56	-1°26'24
minimum elong	-10230 Jan 12 j 01:51	10°♏01'52	1°26'43
max. Earth dist.	-10230 Jan 13 j 11:56	10°♏21'44	6.07261 AU
morning rise	-10230 Jan 25 j 19:03	13°♏13'11	
	-10230 Feb 02 j 12:54	15°♏	
	-10230 Apr 22 j 10:48	0°♐	
retrograde	-10230 Jun 04 j 16:09	2°♐54'20	
	-10230 Jul 17 j 14:45	30°℞♏	
opposition	-10230 Aug 02 j 24:00	27°♏49'45	-2°25'02
min. Earth dist.	-10230 Aug 02 j 04:58	27°♏56'16	4.09636 AU
direct	-10230 Sep 30 j 11:03	22°♏49'35	
	-10230 Dec 09 j 15:11	0°♐	
evening set	-10229 Feb 04 j 12:09	11°♐58'09	
conjunction	-10229 Feb 18 j 05:06	15°♐06'43	-1°39'05
minimum elong	-10229 Feb 18 j 05:07	15°♐06'44	1°39'37
max. Earth dist.	-10229 Feb 19 j 03:58	15°♐19'51	6.12659 AU
morning rise	-10229 Mar 03 j 22:26	18°♐15'17	
	-10229 Apr 28 j 21:18	0°♑	

Attention, astronomical year style is used: The year -10229 in astronomical counting style is the year 10230 BCE in historical counting style.

retrograde	-10229 Jul 08 j 18:34	7°♉14'51	
opposition	-10229 Sep 05 j 19:09	2°♉12'53	-2°16'34
min. Earth dist.	-10229 Sep 05 j 09:41	2°♉16'07	4.16520 AU
	-10229 Sep 22 j 15:47	30°℞♐	
direct	-10229 Nov 04 j 07:00	27°♐09'50	
	-10229 Dec 17 j 07:05	0°♉	
evening set	-10228 Mar 11 j 16:39	16°♉06'33	
conjunction	-10228 Mar 25 j 08:34	19°♉11'26	-1°17'05
minimum elong	-10228 Mar 25 j 08:40	19°♉11'29	1°17'39
max. Earth dist.	-10228 Mar 25 j 14:55	19°♉15'01	6.20497 AU
morning rise	-10228 Apr 07 j 22:31	22°♉15'13	
	-10228 May 13 j 22:30	0°♒	
retrograde	-10228 Aug 09 j 13:13	10°♒26'05	
opposition	-10228 Oct 07 j 15:51	5°♒27'57	-1°23'07
min. Earth dist.	-10228 Oct 07 j 18:02	5°♒27'14	4.24500 AU
direct	-10228 Dec 07 j 09:19	0°♒23'43	
	-10227 Mar 27 j 21:55	15°♒	
evening set	-10227 Apr 15 j 07:45	19°♒00'49	
conjunction	-10227 Apr 28 j 18:27	22°♒00'37	-0°30'32
minimum elong	-10227 Apr 28 j 18:30	22°♒00'38	0°30'56
max. Earth dist.	-10227 Apr 28 j 04:52	21°♒53'02	6.28082 AU
morning rise	-10227 May 12 j 02:09	24°♒58'45	
	-10227 Jun 04 j 05:41	0°♓	
retrograde	-10227 Sep 10 j 09:30	12°♓31'44	
opposition	-10227 Nov 08 j 22:39	7°♓37'09	-0°05'36
min. Earth dist.	-10227 Nov 09 j 12:16	7°♓32'40	4.31019 AU
asc. node	-10227 Dec 05 j 23:18	4°♓22'03	
direct	-10226 Jan 09 j 18:53	2°♓33'25	
evening set	-10226 May 18 j 08:44	20°♓51'59	
max. Earth dist.	-10226 May 30 j 09:31	23°♓32'06	6.33080 AU
conjunction	-10226 May 31 j 10:57	23°♓46'14	0°24'24
minimum elong	-10226 May 31 j 10:55	23°♓46'13	0°24'16
morning rise	-10226 Jun 13 j 09:29	26°♓38'42	
	-10226 Jun 28 j 18:38	0°♈	
retrograde	-10226 Oct 11 j 22:13	13°♈54'52	
opposition	-10226 Dec 11 j 03:30	9°♈02'39	1°11'58
min. Earth dist.	-10226 Dec 11 j 23:45	8°♈56'08	4.34183 AU
direct	-10225 Feb 11 j 13:46	4°♈01'04	
evening set	-10225 Jun 19 j 04:58	22°♈07'41	
conjunction	-10225 Jul 01 j 21:22	24°♈57'19	1°11'32
minimum elong	-10225 Jul 01 j 21:17	24°♈57'16	1°11'43
max. Earth dist.	-10225 Jun 30 j 13:33	24°♈39'32	6.34080 AU
morning rise	-10225 Jul 14 j 11:10	27°♈45'39	
	-10225 Jul 24 j 15:01	0°♉	
	-10225 Nov 03 j 07:07	15°♉	
retrograde	-10225 Nov 12 j 23:12	15°♉08'47	
	-10225 Nov 22 j 14:05	15°℞♉	
opposition	-10224 Jan 12 j 19:26	10°♉17'08	2°08'27
min. Earth dist.	-10224 Jan 13 j 17:38	10°♉10'05	4.33080 AU
direct	-10224 Mar 15 j 06:00	5°♉18'30	
	-10224 Jun 10 j 01:30	15°♉	
evening set	-10224 Jul 19 j 09:52	23°♉21'28	
conjunction	-10224 Jul 31 j 19:49	26°♉09'21	1°37'59
minimum elong	-10224 Jul 31 j 19:46	26°♉09'19	1°38'26
max. Earth dist.	-10224 Jul 30 j 16:58	25°♉54'11	6.30844 AU
morning rise	-10224 Aug 13 j 04:23	28°♉56'42	
	-10224 Aug 17 j 21:26	0°♊	
retrograde	-10224 Dec 14 j 21:49	16°♊47'25	
opposition	-10223 Feb 14 j 07:05	11°♊54'27	2°27'58
min. Earth dist.	-10223 Feb 14 j 22:55	11°♊49'26	4.28015 AU
direct	-10223 Apr 17 j 00:43	6°♊58'51	
evening set	-10223 Aug 19 j 16:46	25°♊06'08	
max. Earth dist.	-10223 Aug 31 j 10:28	27°♊47'18	6.24309 AU
conjunction	-10223 Sep 01 j 02:09	27°♊56'18	1°35'38
minimum elong	-10223 Sep 01 j 02:11	27°♊56'20	1°36'12
	-10223 Sep 10 j 01:56	0°♋	
morning rise	-10223 Sep 13 j 12:15	0°♋46'59	
retrograde	-10222 Jan 18 j 06:13	19°♋18'40	
opposition	-10222 Mar 20 j 18:07	14°♋22'46	2°02'22
min. Earth dist.	-10222 Mar 20 j 23:56	14°♋20'55	4.20422 AU
direct	-10222 May 20 j 10:33	9°♋29'19	
evening set	-10222 Sep 20 j 19:17	27°♋47'47	
	-10222 Sep 30 j 07:14	0°♌	
conjunction	-10222 Oct 03 j 10:54	0°♌44'01	1°03'13
minimum elong	-10222 Oct 03 j 10:59	0°♌44'04	1°03'46
max. Earth dist.	-10222 Oct 03 j 12:17	0°♌44'49	6.16384 AU
morning rise	-10222 Oct 16 j 04:59	3°♌41'40	
	-10222 Dec 08 j 05:37	15°♌	
retrograde	-10221 Feb 22 j 18:06	22°♌57'01	
opposition	-10221 Apr 25 j 00:52	17°♌57'20	0°55'32
min. Earth dist.	-10221 Apr 24 j 16:48	17°♌59'58	4.12706 AU
	-10221 May 19 j 10:27	15°℞♌	
direct	-10221 Jun 23 j 10:35	13°♌04'29	
	-10221 Jul 28 j 01:44	15°♌	
	-10221 Oct 17 j 06:26	0°♍	
evening set	-10221 Oct 24 j 10:03	1°♍39'30	
conjunction	-10221 Nov 06 j 11:27	4°♍43'01	0°08'54
minimum elong	-10221 Nov 06 j 11:28	4°♍43'02	0°09'12
behind sun begin	-10221 Nov 06 j 04:33	4°♍39'00	
behind sun end	-10221 Nov 06 j 18:22	4°♍47'04	
max. Earth dist.	-10221 Nov 07 j 06:33	4°♍54'14	6.09645 AU
morning rise	-10221 Nov 19 j 16:22	7°♍48'29	
desc. node	-10220 Jan 04 j 20:16	17°♍54'52	
retrograde	-10220 Mar 30 j 01:33	27°♍36'40	
opposition	-10220 May 29 j 16:29	22°♍33'27	-0°32'43
min. Earth dist.	-10220 May 28 j 22:36	22°♍39'25	4.07507 AU
direct	-10220 Jul 27 j 04:04	17°♍39'11	
	-10220 Oct 29 j 22:51	0°♎	
evening set	-10220 Nov 27 j 20:13	6°♎32'43	
conjunction	-10220 Dec 11 j 06:32	9°♎41'29	-0°49'37
minimum elong	-10220 Dec 11 j 06:27	9°♎41'26	0°49'40
max. Earth dist.	-10220 Dec 12 j 14:38	10°♎00'18	6.06445 AU
morning rise	-10220 Dec 24 j 20:05	12°♎51'57	
	-10219 Mar 23 j 09:28	0°♏	
retrograde	-10219 May 05 j 05:09	2°♏48'42	
	-10219 Jun 16 j 18:13	30°℞♎	
min. Earth dist.	-10219 Jul 03 j 04:27	27°♎51'07	4.06737 AU
opposition	-10219 Jul 04 j 02:12	27°♎43'44	-1°50'12
direct	-10219 Aug 31 j 05:12	22°♎46'34	
	-10219 Nov 08 j 22:06	0°♏	
evening set	-10218 Jan 03 j 14:43	11°♏53'17	
conjunction	-10218 Jan 17 j 06:02	15°♏03'17	-1°30'17
minimum elong	-10218 Jan 17 j 05:58	15°♏03'14	1°30'39
	-10218 Jan 17 j 00:23	15°♏	
max. Earth dist.	-10218 Jan 18 j 13:41	15°♏21'42	6.08026 AU
morning rise	-10218 Jan 30 j 23:27	18°♏14'14	
	-10218 Mar 27 j 03:36	0°♐	
retrograde	-10218 Jun 09 j 10:46	7°♐49'56	
opposition	-10218 Aug 07 j 17:43	2°♐45'38	-2°26'59
min. Earth dist.	-10218 Aug 06 j 23:57	2°♐51'43	4.10623 AU
	-10218 Aug 29 j 03:53	30°℞♏	
direct	-10218 Oct 05 j 08:22	27°♏45'00	
	-10218 Nov 11 j 19:44	0°♐	
evening set	-10217 Feb 09 j 13:45	16°♐52'05	

Attention, astronomical year style is used: The year -10217 in astronomical counting style is the year 10218 BCE in historical counting style.

conjunction	-10217 Feb 23 j 06:53	20°♐00'12	-1°37'59
minimum elong	-10217 Feb 23 j 06:55	20°♐00'13	1°38'32
max. Earth dist.	-10217 Feb 24 j 04:35	20°♐12'38	6.13799 AU
morning rise	-10217 Mar 08 j 23:45	23°♐08'06	
	-10217 Apr 09 j 04:45	0°♑	
retrograde	-10217 Jul 13 j 09:36	12°♑00'36	
opposition	-10217 Sep 10 j 09:11	6°♑59'12	-2°11'28
min. Earth dist.	-10217 Sep 10 j 01:30	7°♑01'49	4.17698 AU
direct	-10217 Nov 09 j 00:52	1°♑55'56	
evening set	-10216 Mar 16 j 13:33	20°♑50'03	
conjunction	-10216 Mar 30 j 04:54	23°♑54'16	-1°11'47
minimum elong	-10216 Mar 30 j 04:59	23°♑54'19	1°12'20
max. Earth dist.	-10216 Mar 30 j 06:55	23°♑55'24	6.21622 AU
morning rise	-10216 Apr 12 j 18:19	26°♑57'21	
	-10216 Apr 26 j 12:10	0°♒	
	-10216 Aug 09 j 07:58	15°♒	
retrograde	-10216 Aug 13 j 23:38	15°♒02'11	
	-10216 Aug 18 j 14:53	15°℞♒	
opposition	-10216 Oct 12 j 03:15	10°♒04'35	-1°13'18
min. Earth dist.	-10216 Oct 12 j 07:23	10°♒03'12	4.25478 AU
direct	-10216 Dec 12 j 00:41	5°♒00'15	
	-10215 Mar 10 j 04:32	15°♒	
evening set	-10215 Apr 19 j 23:25	23°♒34'58	
conjunction	-10215 May 03 j 09:15	26°♒34'05	-0°23'04
minimum elong	-10215 May 03 j 09:17	26°♒34'06	0°23'27
max. Earth dist.	-10215 May 02 j 18:15	26°♒25'43	6.28864 AU
morning rise	-10215 May 16 j 15:41	29°♒31'27	
	-10215 May 18 j 19:18	0°♓	
retrograde	-10215 Sep 14 j 18:29	17°♓01'08	
asc. node	-10215 Oct 16 j 23:38	15°♓22'54	
opposition	-10215 Nov 13 j 09:17	12°♓07'00	0°05'39
min. Earth dist.	-10215 Nov 14 j 00:06	12°♓02'09	4.31547 AU
direct	-10214 Jan 14 j 07:37	7°♓03'32	
evening set	-10214 May 22 j 20:16	25°♓20'35	
conjunction	-10214 Jun 04 j 21:03	28°♓14'11	0°31'43
minimum elong	-10214 Jun 04 j 21:00	28°♓14'09	0°31'39
max. Earth dist.	-10214 Jun 03 j 16:52	27°♓58'30	6.33300 AU
	-10214 Jun 12 j 19:19	0°♈	
morning rise	-10214 Jun 17 j 18:30	1°♈06'04	
retrograde	-10214 Oct 16 j 09:09	18°♈22'24	
opposition	-10214 Dec 15 j 15:42	13°♈30'22	1°21'30
min. Earth dist.	-10214 Dec 16 j 13:00	13°♈23'31	4.34114 AU
direct	-10213 Feb 16 j 03:00	8°♈29'08	
evening set	-10213 Jun 23 j 13:57	26°♈35'23	
max. Earth dist.	-10213 Jul 04 j 23:11	29°♈07'46	6.33726 AU
conjunction	-10213 Jul 06 j 05:22	29°♈24'40	1°16'42
minimum elong	-10213 Jul 06 j 05:17	29°♈24'37	1°16'55
	-10213 Jul 08 j 20:29	0°♉	
morning rise	-10213 Jul 18 j 18:01	2°♉12'41	
	-10213 Sep 21 j 19:08	15°♉	
retrograde	-10213 Nov 17 j 11:14	19°♉38'57	
	-10212 Jan 15 j 18:06	15°℞♉	
opposition	-10212 Jan 17 j 10:20	14°♉47'15	2°13'40
min. Earth dist.	-10212 Jan 18 j 07:18	14°♉40'35	4.32506 AU
direct	-10212 Mar 19 j 18:48	9°♉49'06	
	-10212 May 20 j 00:09	15°♉	
evening set	-10212 Jul 23 j 18:43	27°♉52'27	
	-10212 Aug 02 j 04:43	0°♊	
max. Earth dist.	-10212 Aug 04 j 01:54	0°♊25'35	6.30092 AU
conjunction	-10212 Aug 05 j 04:01	0°♊40'23	1°39'29
minimum elong	-10212 Aug 05 j 03:59	0°♊40'22	1°39'58
morning rise	-10212 Aug 17 j 12:29	3°♊27'57	
retrograde	-10212 Dec 19 j 15:44	21°♊23'36	
opposition	-10211 Feb 19 j 01:19	16°♊30'16	2°27'07
min. Earth dist.	-10211 Feb 19 j 16:18	16°♊25'30	4.27147 AU
direct	-10211 Apr 21 j 17:05	11°♊35'00	
evening set	-10211 Aug 24 j 02:49	29°♊43'00	
	-10211 Aug 25 j 08:38	0°♋	
conjunction	-10211 Sep 05 j 12:48	2°♋33'46	1°32'49
minimum elong	-10211 Sep 05 j 12:52	2°♋33'48	1°33'24
max. Earth dist.	-10211 Sep 05 j 00:13	2°♋26'32	6.23411 AU
morning rise	-10211 Sep 17 j 23:36	5°♋25'09	
retrograde	-10210 Jan 23 j 01:43	24°♋02'05	
opposition	-10210 Mar 25 j 14:53	19°♋05'40	1°55'12
min. Earth dist.	-10210 Mar 25 j 18:03	19°♋04'39	4.19560 AU
direct	-10210 May 25 j 02:50	14°♋12'25	
	-10210 Sep 14 j 07:45	0°♌	
evening set	-10210 Sep 25 j 08:44	2°♌31'47	
conjunction	-10210 Oct 08 j 01:26	5°♌28'50	0°56'41
minimum elong	-10210 Oct 08 j 01:31	5°♌28'53	0°57'11
max. Earth dist.	-10210 Oct 08 j 05:14	5°♌31'02	6.15632 AU
morning rise	-10210 Oct 20 j 20:54	8°♌27'25	
	-10210 Nov 19 j 02:07	15°♌	
retrograde	-10209 Feb 27 j 17:36	27°♌47'01	
opposition	-10209 Apr 29 j 22:38	22°♌46'43	0°43'58
min. Earth dist.	-10209 Apr 29 j 13:21	22°♌49'46	4.12097 AU
direct	-10209 Jun 28 j 05:54	17°♌53'43	
	-10209 Sep 30 j 10:10	0°♍	
evening set	-10209 Oct 29 j 04:12	6°♍30'03	
conjunction	-10209 Nov 11 j 06:59	9°♍34'20	0°00'36
minimum elong	-10209 Nov 11 j 06:58	9°♍34'20	0°00'53
behind sun begin	-10209 Nov 10 j 22:46	9°♍29'33	
behind sun end	-10209 Nov 11 j 15:10	9°♍39'06	
max. Earth dist.	-10209 Nov 12 j 04:46	9°♍47'07	6.09243 AU
desc. node	-10209 Nov 15 j 04:06	10°♍28'57	
morning rise	-10209 Nov 24 j 13:12	12°♍40'32	
	-10208 Feb 23 j 07:34	0°♎	
retrograde	-10208 Apr 04 j 00:16	2°♎30'20	
	-10208 May 14 j 12:06	30°℞♍	
opposition	-10208 Jun 03 j 13:09	27°♍26'45	-0°44'42
min. Earth dist.	-10208 Jun 02 j 18:30	27°♍33'00	4.07360 AU
direct	-10208 Jul 31 j 22:22	22°♍32'10	
	-10208 Oct 10 j 17:19	0°♎	
evening set	-10208 Dec 02 j 19:02	11°♎27'10	
conjunction	-10208 Dec 16 j 06:06	14°♎36'12	-0°56'39
minimum elong	-10208 Dec 16 j 06:01	14°♎36'09	0°56'44
max. Earth dist.	-10208 Dec 17 j 13:15	14°♎54'27	6.06532 AU
morning rise	-10208 Dec 29 j 20:31	17°♎46'56	
	-10207 Feb 25 j 00:20	0°♏	
retrograde	-10207 May 10 j 00:56	7°♏42'07	
opposition	-10207 Jul 08 j 20:34	2°♏37'04	-1°58'04
min. Earth dist.	-10207 Jul 07 j 23:07	2°♏44'23	4.07058 AU
	-10207 Jul 29 j 03:54	30°℞♎	
direct	-10207 Sep 05 j 00:30	27°♎39'24	
	-10207 Oct 12 j 22:17	0°♏	
	-10207 Dec 31 j 21:08	15°♏	
evening set	-10206 Jan 08 j 15:25	16°♏46'57	
conjunction	-10206 Jan 22 j 07:20	19°♏56'55	-1°33'26
minimum elong	-10206 Jan 22 j 07:16	19°♏56'53	1°33'50
max. Earth dist.	-10206 Jan 23 j 15:05	20°♏15'21	6.08549 AU
morning rise	-10206 Feb 05 j 00:43	23°♏07'36	
	-10206 Mar 07 j 20:14	0°♐	
retrograde	-10206 Jun 14 j 05:08	12°♐38'56	
opposition	-10206 Aug 12 j 09:17	7°♐34'58	-2°27'55

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

min. Earth dist.	-10206 Aug 11 j 17:17	7°♐40'27	4.11300 AU
direct	-10206 Oct 10 j 02:33	2°♐33'57	
evening set	-10205 Feb 14 j 13:28	21°♐40'39	
conjunction	-10205 Feb 28 j 06:30	24°♐48'27	-1°36'14
minimum elong	-10205 Feb 28 j 06:33	24°♐48'28	1°36'47
max. Earth dist.	-10205 Mar 01 j 00:38	24°♐58'49	6.14566 AU
morning rise	-10205 Mar 13 j 23:17	27°♐55'56	
	-10205 Mar 23 j 03:22	0°♑	
retrograde	-10205 Jul 17 j 22:13	16°♑42'52	
opposition	-10205 Sep 14 j 22:07	11°♑41'58	-2°05'35
min. Earth dist.	-10205 Sep 14 j 15:42	11°♑44'09	4.18488 AU
direct	-10205 Nov 13 j 16:54	6°♑38'27	
evening set	-10204 Mar 21 j 09:36	25°♑31'18	
conjunction	-10204 Apr 04 j 00:34	28°♑35'03	-1°06'02
minimum elong	-10204 Apr 04 j 00:39	28°♑35'06	1°06'34
max. Earth dist.	-10204 Apr 04 j 00:34	28°♑35'04	6.22410 AU
	-10204 Apr 10 j 07:22	0°♒	
morning rise	-10204 Apr 17 j 13:14	1°♒37'32	
	-10204 Jun 24 j 01:46	15°♒	
retrograde	-10204 Aug 18 j 11:24	19°♒37'40	
	-10204 Oct 14 j 04:54	15°℞♒	
opposition	-10204 Oct 16 j 15:03	14°♒40'38	-1°03'03
min. Earth dist.	-10204 Oct 16 j 21:02	14°♒38'38	4.26182 AU
direct	-10204 Dec 16 j 16:08	9°♒36'24	
	-10203 Feb 16 j 22:29	15°♒	
evening set	-10203 Apr 24 j 14:59	28°♒09'22	
	-10203 May 02 j 22:07	0°♓	
conjunction	-10203 May 07 j 23:47	1°♓07'51	-0°15'26
minimum elong	-10203 May 07 j 23:49	1°♓07'52	0°15'46
behind sun begin	-10203 May 07 j 22:40	1°♓07'13	
behind sun end	-10203 May 08 j 00:57	1°♓08'30	
max. Earth dist.	-10203 May 07 j 06:28	0°♓58'11	6.29440 AU
morning rise	-10203 May 21 j 05:13	4°♓04'34	
asc. node	-10203 Aug 27 j 05:51	20°♓41'06	
retrograde	-10203 Sep 19 j 04:04	21°♓31'49	
opposition	-10203 Nov 17 j 21:10	16°♓38'03	0°16'57
min. Earth dist.	-10203 Nov 18 j 12:38	16°♓33'00	4.31967 AU
direct	-10202 Jan 18 j 21:21	11°♓34'50	
evening set	-10202 May 27 j 08:04	29°♓50'23	
	-10202 May 28 j 01:29	0°♈	
max. Earth dist.	-10202 Jun 08 j 04:02	2°♈28'00	6.33542 AU
conjunction	-10202 Jun 09 j 07:33	2°♈43'20	0°38'55
minimum elong	-10202 Jun 09 j 07:30	2°♈43'18	0°38'53
morning rise	-10202 Jun 22 j 03:34	5°♈34'33	
retrograde	-10202 Oct 20 j 19:38	22°♈51'01	
opposition	-10202 Dec 20 j 04:42	17°♈59'09	1°30'37
min. Earth dist.	-10202 Dec 21 j 02:02	17°♈52'19	4.34164 AU
direct	-10201 Feb 20 j 16:53	12°♈58'23	
	-10201 Jun 23 j 04:21	0°♉	
evening set	-10201 Jun 27 j 23:07	1°♉03'31	
max. Earth dist.	-10201 Jul 09 j 06:20	3°♉35'01	6.33549 AU
conjunction	-10201 Jul 10 j 13:16	3°♉52'20	1°21'25
minimum elong	-10201 Jul 10 j 13:11	3°♉52'18	1°21'42
morning rise	-10201 Jul 23 j 01:08	6°♉40'03	
	-10201 Aug 31 j 11:23	15°♉	
retrograde	-10201 Nov 22 j 00:26	24°♉08'55	
opposition	-10200 Jan 22 j 01:28	19°♉17'02	2°18'05
min. Earth dist.	-10200 Jan 22 j 21:56	19°♉10'33	4.32112 AU
	-10200 Mar 03 j 02:38	15°℞♉	
direct	-10200 Mar 24 j 08:53	14°♉19'17	
	-10200 Apr 14 j 15:16	15°♉	
	-10200 Jul 17 j 11:26	0°♊	
evening set	-10200 Jul 28 j 02:36	2°♊22'15	
conjunction	-10200 Aug 09 j 11:41	5°♊10'16	1°40'24
minimum elong	-10200 Aug 09 j 11:40	5°♊10'15	1°40'53
max. Earth dist.	-10200 Aug 08 j 12:16	4°♊56'59	6.29493 AU
morning rise	-10200 Aug 21 j 19:52	7°♊58'00	
retrograde	-10200 Dec 24 j 07:18	25°♊58'10	
opposition	-10199 Feb 23 j 18:55	21°♊04'31	2°25'23
min. Earth dist.	-10199 Feb 24 j 08:21	21°♊00'15	4.26367 AU
direct	-10199 Apr 26 j 07:35	16°♊09'38	
	-10199 Aug 09 j 07:29	0°♋	
evening set	-10199 Aug 28 j 12:14	4°♋18'11	
conjunction	-10199 Sep 09 j 22:37	7°♋09'33	1°29'28
minimum elong	-10199 Sep 09 j 22:41	7°♋09'35	1°30'03
max. Earth dist.	-10199 Sep 09 j 10:52	7°♋02'47	6.22504 AU
morning rise	-10199 Sep 22 j 10:21	10°♋01'42	
retrograde	-10198 Jan 27 j 22:20	28°♋44'13	
opposition	-10198 Mar 30 j 10:47	23°♋47'16	1°47'23
min. Earth dist.	-10198 Mar 30 j 12:32	23°♋46'42	4.18564 AU
direct	-10198 May 29 j 19:16	18°♋54'06	
	-10198 Aug 28 j 08:23	0°♌	
evening set	-10198 Sep 29 j 21:59	7°♌15'16	
conjunction	-10198 Oct 12 j 16:06	10°♌13'20	0°49'48
minimum elong	-10198 Oct 12 j 16:10	10°♌13'23	0°50'16
max. Earth dist.	-10198 Oct 12 j 22:53	10°♌17'17	6.14657 AU
morning rise	-10198 Oct 25 j 12:55	13°♌12'59	
	-10198 Nov 02 j 06:55	15°♌	
	-10197 Jan 21 j 15:47	0°♍	
retrograde	-10197 Mar 04 j 17:19	2°♍37'36	
	-10197 Apr 15 j 20:14	30°℞♌	
opposition	-10197 May 04 j 20:04	27°♌36'50	0°32'08
min. Earth dist.	-10197 May 04 j 09:34	27°♌40'17	4.11221 AU
direct	-10197 Jul 02 j 23:12	22°♌43'44	
	-10197 Sep 11 j 02:41	0°♍	
desc. node	-10197 Sep 25 j 14:36	2°♍50'35	
evening set	-10197 Nov 02 j 23:25	11°♍22'48	
conjunction	-10197 Nov 16 j 03:22	14°♍27'56	-0°07'46
minimum elong	-10197 Nov 16 j 03:20	14°♍27'55	0°07'34
behind sun begin	-10197 Nov 15 j 19:53	14°♍23'34	
behind sun end	-10197 Nov 16 j 10:47	14°♍32'16	
max. Earth dist.	-10197 Nov 17 j 01:24	14°♍40'52	6.08530 AU
morning rise	-10197 Nov 29 j 11:03	17°♍35'03	
	-10196 Jan 26 j 17:30	0°♎	
retrograde	-10196 Apr 08 j 23:26	7°♎27'46	
opposition	-10196 Jun 08 j 10:44	2°♎23'48	-0°56'30
min. Earth dist.	-10196 Jun 07 j 15:08	2°♎30'23	4.06875 AU
	-10196 Jun 27 j 03:18	30°℞♍	
direct	-10196 Aug 05 j 18:00	27°♍28'48	
	-10196 Sep 14 j 01:33	0°♎	
evening set	-10196 Dec 07 j 19:51	16°♎26'44	
conjunction	-10196 Dec 21 j 07:59	19°♎36'15	-1°03'23
minimum elong	-10196 Dec 21 j 07:53	19°♎36'12	1°03'30
max. Earth dist.	-10196 Dec 22 j 16:58	19°♎55'34	6.06312 AU
morning rise	-10195 Jan 03 j 22:58	22°♎47'18	
	-10195 Feb 05 j 01:36	0°♏	
retrograde	-10195 May 15 j 01:16	12°♏41'49	
opposition	-10195 Jul 13 j 16:54	7°♏36'47	-2°05'15
min. Earth dist.	-10195 Jul 12 j 20:31	7°♏43'44	4.07136 AU
direct	-10195 Sep 09 j 21:57	2°♏38'37	
	-10195 Dec 14 j 10:07	15°♏	
evening set	-10194 Jan 13 j 19:26	21°♏47'56	
conjunction	-10194 Jan 27 j 11:36	24°♏57'53	-1°35'58

Attention, astronomical year style is used: The year -10194 in astronomical counting style is the year 10195 BCE in historical counting style.

minimum elong	-10194 Jan 27 j 11:33	24°♏57'51	1°36'25	
max. Earth dist.	-10194 Jan 28 j 17:11	25°♏15'01	6.08888 AU	
morning rise	-10194 Feb 10 j 05:18	28°♏08'27		
	-10194 Feb 18 j 08:22	0°♐		
retrograde	-10194 Jun 18 j 23:40	17°♐35'36		
min. Earth dist.	-10194 Aug 16 j 11:39	12°♐37'16	4.11881 AU	
opposition	-10194 Aug 17 j 03:15	12°♐31'55	-2°27'51	
direct	-10194 Oct 14 j 22:34	7°♐30'27		
evening set	-10193 Feb 19 j 16:12	26°♐37'00		
conjunction	-10193 Mar 05 j 09:17	29°♐44'29	-1°33'45	
minimum elong	-10193 Mar 05 j 09:20	29°♐44'31	1°34'21	
max. Earth dist.	-10193 Mar 06 j 01:33	29°♐53'47	6.15355 AU	
	-10193 Mar 06 j 12:27	0°♑		
morning rise	-10193 Mar 19 j 01:41	2°♑51'28		
retrograde	-10193 Jul 22 j 15:17	21°♑32'30		
opposition	-10193 Sep 19 j 14:05	16°♑32'07	-1°58'45	
min. Earth dist.	-10193 Sep 19 j 09:46	16°♑33'35	4.19404 AU	
direct	-10193 Nov 18 j 13:26	11°♑28'25		
	-10192 Mar 24 j 21:46	0°♒		
evening set	-10192 Mar 26 j 08:04	0°♒19'08		
conjunction	-10192 Apr 08 j 22:28	3°♒22'16	-0°59'45	
minimum elong	-10192 Apr 08 j 22:33	3°♒22'19	1°00'16	
max. Earth dist.	-10192 Apr 08 j 20:51	3°♒21'22	6.23411 AU	
morning rise	-10192 Apr 22 j 10:20	6°♒24'02		
	-10192 Jun 01 j 22:47	15°♒		
retrograde	-10192 Aug 22 j 22:34	24°♒18'31		
opposition	-10192 Oct 21 j 04:59	19°♒21'57	-0°52'14	
min. Earth dist.	-10192 Oct 21 j 11:16	19°♒19'51	4.27204 AU	
	-10192 Nov 30 j 05:05	15°℞♒		
direct	-10192 Dec 21 j 09:08	14°♒17'46		
	-10191 Jan 11 j 20:30	15°♒		
	-10191 Apr 16 j 13:37	0°♓		
evening set	-10191 Apr 29 j 08:07	2°♓47'35		
conjunction	-10191 May 12 j 15:38	5°♓45'09	-0°07'39	
minimum elong	-10191 May 12 j 15:39	5°♓45'09	0°07'56	
behind sun begin	-10191 May 12 j 08:22	5°♓41'07		
behind sun end	-10191 May 12 j 22:56	5°♓49'11		
max. Earth dist.	-10191 May 11 j 21:11	5°♓34'52	6.30437 AU	
morning rise	-10191 May 25 j 19:47	8°♓40'56		
asc. node	-10191 Jul 06 j 14:59	17°♓25'54		
retrograde	-10191 Sep 23 j 14:57	26°♓04'16		
opposition	-10191 Nov 22 j 09:58	21°♓10'50	0°28'08	
min. Earth dist.	-10191 Nov 23 j 02:42	21°♓05'24	4.32862 AU	
direct	-10190 Jan 23 j 14:14	16°♓07'55		
	-10190 May 11 j 18:49	0°♈		
evening set	-10190 May 31 j 19:39	4°♈20'03		
conjunction	-10190 Jun 13 j 17:43	7°♈12'05	0°45'50	
minimum elong	-10190 Jun 13 j 17:38	7°♈12'03	0°45'50	
max. Earth dist.	-10190 Jun 12 j 13:19	6°♈56'18	6.34249 AU	
morning rise	-10190 Jun 26 j 12:25	10°♈02'28		
retrograde	-10190 Oct 25 j 04:29	27°♈17'39		
opposition	-10190 Dec 24 j 17:15	22°♈25'49	1°39'03	
min. Earth dist.	-10190 Dec 25 j 14:16	22°♈19'06	4.34652 AU	
direct	-10189 Feb 25 j 05:57	17°♈25'23		
	-10189 Jun 06 j 23:41	0°♉		
evening set	-10189 Jul 02 j 06:33	5°♉27'52		
conjunction	-10189 Jul 14 j 19:38	8°♉16'06	1°25'35	
minimum elong	-10189 Jul 14 j 19:34	8°♉16'03	1°25'54	
max. Earth dist.	-10189 Jul 13 j 14:12	7°♉59'36	6.33765 AU	
morning rise	-10189 Jul 27 j 06:27	11°♉03'17		
	-10189 Aug 14 j 06:37	15°♉		
retrograde	-10189 Nov 26 j 11:15	28°♉33'35		

opposition	-10188 Jan 26 j 14:44	23°♉41'36	2°21'32	
min. Earth dist.	-10188 Jan 27 j 11:08	23°♉35'09	4.32036 AU	
direct	-10188 Mar 28 j 21:46	18°♉44'15		
	-10188 Jul 01 j 03:31	0°♊		
evening set	-10188 Aug 01 j 08:22	6°♊45'52		
conjunction	-10188 Aug 13 j 17:02	9°♊33'51	1°40'41	
minimum elong	-10188 Aug 13 j 17:01	9°♊33'51	1°41'12	
max. Earth dist.	-10188 Aug 12 j 17:00	9°♊20'13	6.29110 AU	
morning rise	-10188 Aug 26 j 01:21	12°♊21'46		
	-10188 Dec 12 j 03:31	0°♋		
retrograde	-10188 Dec 28 j 21:05	0°♋25'51		
	-10187 Jan 14 j 15:37	30°℞♊		
opposition	-10187 Feb 28 j 09:43	25°♊31'49	2°22'48	
min. Earth dist.	-10187 Feb 28 j 22:07	25°♊27'52	4.25691 AU	
direct	-10187 Apr 30 j 19:12	20°♊37'09		
	-10187 Jul 23 j 05:57	0°♋		
evening set	-10187 Sep 01 j 19:02	8°♋46'15		
conjunction	-10187 Sep 14 j 06:17	11°♋38'20	1°25'38	
minimum elong	-10187 Sep 14 j 06:21	11°♋38'22	1°26'14	
max. Earth dist.	-10187 Sep 13 j 21:07	11°♋33'03	6.21607 AU	
morning rise	-10187 Sep 26 j 18:48	14°♋31'16		
	-10187 Dec 15 j 21:31	0°♌		
retrograde	-10186 Feb 01 j 16:45	3°♌19'23		
	-10186 Mar 22 j 05:28	30°℞♋		
opposition	-10186 Apr 04 j 04:00	28°♋22'02	1°39'04	
min. Earth dist.	-10186 Apr 04 j 05:04	28°♋21'41	4.17495 AU	
direct	-10186 Jun 03 j 08:21	23°♋29'00		
	-10186 Aug 09 j 04:08	0°♌		
evening set	-10186 Oct 04 j 09:22	11°♌52'38		
conjunction	-10186 Oct 17 j 04:38	14°♌51'45	0°42'45	
minimum elong	-10186 Oct 17 j 04:42	14°♌51'47	0°43'13	
max. Earth dist.	-10186 Oct 17 j 11:35	14°♌55'48	6.13520 AU	
	-10186 Oct 17 j 18:46	15°♌		
morning rise	-10186 Oct 30 j 03:06	17°♌52'36		
	-10186 Dec 26 j 07:06	0°♍		
retrograde	-10185 Mar 09 j 13:54	7°♍23'10		
opposition	-10185 May 09 j 15:22	2°♍21'55	0°20'19	
min. Earth dist.	-10185 May 09 j 03:17	2°♍25'54	4.10104 AU	
	-10185 May 28 j 10:21	30°℞♌		
direct	-10185 Jul 07 j 14:24	27°♌28'40		
desc. node	-10185 Aug 07 j 14:25	29°♌02'58		
	-10185 Aug 16 j 05:04	0°♍		
evening set	-10185 Nov 07 j 17:41	16°♍11'49		
conjunction	-10185 Nov 20 j 23:10	19°♍18'01	-0°15'52	
minimum elong	-10185 Nov 20 j 23:08	19°♍18'00	0°15'42	
behind sun begin	-10185 Nov 20 j 21:27	19°♍17'01		
behind sun end	-10185 Nov 21 j 00:49	19°♍19'00		
max. Earth dist.	-10185 Nov 22 j 00:01	19°♍32'37	6.07560 AU	
morning rise	-10185 Dec 04 j 08:04	22°♍26'08		
	-10184 Jan 07 j 00:20	0°♎		
retrograde	-10184 Apr 14 j 00:19	12°♎22'42		
min. Earth dist.	-10184 Jun 12 j 11:57	7°♎25'04	4.06165 AU	
opposition	-10184 Jun 13 j 07:17	7°♎18'33	-1°07'44	
direct	-10184 Aug 10 j 13:09	2°♎23'14		
evening set	-10184 Dec 12 j 21:02	21°♎25'16		
conjunction	-10184 Dec 26 j 09:56	24°♎35'20	-1°09'34	
minimum elong	-10184 Dec 26 j 09:50	24°♎35'16	1°09'44	
max. Earth dist.	-10184 Dec 27 j 18:18	24°♎54'17	6.05915 AU	
morning rise	-10183 Jan 09 j 01:51	27°♎46'53		
	-10183 Jan 18 j 16:32	0°♏		
	-10183 Apr 08 j 09:08	15°♏		
retrograde	-10183 May 19 j 23:12	17°♏41'11		

Attention, astronomical year style is used: The year -10183 in astronomical counting style is the year 10184 BCE in historical counting style.

	-10183 Jun 30 j 06:14	15°℞♏	
opposition	-10183 Jul 18 j 12:57	12°♏36'12	-2°11'26
min. Earth dist.	-10183 Jul 17 j 15:44	12°♏43'27	4.07127 AU
direct	-10183 Sep 14 j 17:39	7°♏37'36	
	-10183 Nov 24 j 11:32	15°♏	
evening set	-10182 Jan 18 j 23:31	26°♏48'59	
conjunction	-10182 Feb 01 j 16:09	29°♏58'56	-1°37'46
minimum elong	-10182 Feb 01 j 16:07	29°♏58'54	1°38'13
	-10182 Feb 01 j 18:00	0°♐	
max. Earth dist.	-10182 Feb 02 j 21:20	0°♐15'50	6.09267 AU
morning rise	-10182 Feb 15 j 09:53	3°♐09'20	
retrograde	-10182 Jun 23 j 20:08	22°♐32'01	
opposition	-10182 Aug 21 j 21:25	17°♐28'40	-2°26'39
min. Earth dist.	-10182 Aug 21 j 07:28	17°♐33'26	4.12594 AU
direct	-10182 Oct 19 j 20:18	12°♐26'49	
	-10181 Feb 17 j 22:34	0°♑	
evening set	-10181 Feb 24 j 18:23	1°♑32'19	
conjunction	-10181 Mar 10 j 11:25	4°♑39'21	-1°30'37
minimum elong	-10181 Mar 10 j 11:29	4°♑39'24	1°31'11
max. Earth dist.	-10181 Mar 11 j 02:44	4°♑48'05	6.16343 AU
morning rise	-10181 Mar 24 j 03:24	7°♑45'45	
retrograde	-10181 Jul 27 j 04:31	26°♑19'56	
opposition	-10181 Sep 24 j 05:00	21°♑20'01	-1°51'07
min. Earth dist.	-10181 Sep 24 j 00:58	21°♑21'23	4.20545 AU
direct	-10181 Nov 23 j 07:32	16°♑16'08	
	-10180 Mar 07 j 23:54	0°♒	
evening set	-10180 Mar 31 j 04:59	5°♒03'44	
conjunction	-10180 Apr 13 j 18:34	8°♒06'05	-0°53'07
minimum elong	-10180 Apr 13 j 18:39	8°♒06'08	0°53'37
max. Earth dist.	-10180 Apr 13 j 13:54	8°♒03'28	6.24607 AU
morning rise	-10180 Apr 27 j 05:38	11°♒07'00	
	-10180 May 14 j 22:11	15°♒	
retrograde	-10180 Aug 27 j 10:21	28°♒55'29	
opposition	-10180 Oct 25 j 17:37	23°♒59'23	-0°41'14
min. Earth dist.	-10180 Oct 26 j 02:13	23°♒56'31	4.28303 AU
direct	-10180 Dec 26 j 03:08	18°♒55'15	
	-10179 Mar 30 j 05:20	0°♓	
evening set	-10179 May 03 j 22:43	7°♓21'37	
max. Earth dist.	-10179 May 16 j 09:37	10°♓07'29	6.31335 AU
asc. node	-10179 May 16 j 01:43	10°♓03'04	
conjunction	-10179 May 17 j 05:11	10°♓18'21	0°00'09
minimum elong	-10179 May 17 j 05:10	10°♓18'21	0°00'06
behind sun begin	-10179 May 16 j 21:20	10°♓14'01	
behind sun end	-10179 May 17 j 13:00	10°♓22'41	
morning rise	-10179 May 30 j 07:57	13°♓13'14	
	-10179 Sep 09 j 08:06	0°♈	
retrograde	-10179 Sep 27 j 22:46	0°♈33'32	
	-10179 Oct 16 j 15:09	30°℞♓	
opposition	-10179 Nov 26 j 21:30	25°♓40'24	0°39'04
min. Earth dist.	-10179 Nov 27 j 14:22	25°♓34'55	4.33492 AU
direct	-10178 Jan 28 j 03:10	20°♓37'44	
	-10178 Apr 24 j 00:43	0°♈	
evening set	-10178 Jun 05 j 05:49	8°♈47'36	
max. Earth dist.	-10178 Jun 16 j 20:58	11°♈22'30	6.34548 AU
conjunction	-10178 Jun 18 j 02:24	11°♈38'53	0°52'29
minimum elong	-10178 Jun 18 j 02:19	11°♈38'51	0°52'32
morning rise	-10178 Jun 30 j 19:51	14°♈28'36	
	-10178 Sep 26 j 00:05	0°♉	
retrograde	-10178 Oct 29 j 15:26	1°♉44'15	
	-10178 Dec 02 j 13:11	30°℞♈	
opposition	-10178 Dec 29 j 05:47	26°♈52'33	1°47'00
min. Earth dist.	-10178 Dec 30 j 04:00	26°♈45'28	4.34604 AU
direct	-10177 Mar 01 j 19:48	21°♈52'30	
	-10177 May 19 j 17:25	0°♉	
evening set	-10177 Jul 06 j 14:18	9°♉54'13	
max. Earth dist.	-10177 Jul 17 j 20:19	12°♉25'17	6.33348 AU
conjunction	-10177 Jul 19 j 02:27	12°♉42'11	1°29'20
minimum elong	-10177 Jul 19 j 02:23	12°♉42'09	1°29'41
	-10177 Jul 29 j 08:15	15°♉	
morning rise	-10177 Jul 31 j 12:36	15°♉29'14	
	-10177 Oct 16 j 13:06	0°♊	
retrograde	-10177 Dec 01 j 00:12	3°♊03'17	
	-10176 Jan 16 j 12:50	30°℞♉	
opposition	-10176 Jan 31 j 05:48	28°♉11'05	2°24'22
min. Earth dist.	-10176 Feb 01 j 00:58	28°♉05'01	4.31298 AU
direct	-10176 Apr 02 j 09:34	23°♉14'06	
	-10176 Jun 11 j 21:24	0°♊	
evening set	-10176 Aug 05 j 16:17	11°♊16'32	
max. Earth dist.	-10176 Aug 17 j 03:24	13°♊52'36	6.28108 AU
conjunction	-10176 Aug 18 j 00:59	14°♊04'54	1°40'25
minimum elong	-10176 Aug 18 j 00:59	14°♊04'54	1°40'58
morning rise	-10176 Aug 30 j 09:22	16°♊53'16	
	-10176 Nov 03 j 21:08	0°♋	
retrograde	-10175 Jan 02 j 16:27	5°♋03'26	
opposition	-10175 Mar 05 j 04:35	0°♋09'03	2°19'20
min. Earth dist.	-10175 Mar 05 j 16:21	0°♋05'19	4.24484 AU
	-10175 Mar 06 j 09:04	30°℞♊	
direct	-10175 May 05 j 10:42	25°♊14'43	
	-10175 Jul 01 j 14:49	0°♋	
evening set	-10175 Sep 06 j 06:15	13°♋25'56	
conjunction	-10175 Sep 18 j 18:14	16°♋18'53	1°21'09
minimum elong	-10175 Sep 18 j 18:18	16°♋18'56	1°21'43
max. Earth dist.	-10175 Sep 18 j 09:53	16°♋14'04	6.20306 AU
morning rise	-10175 Oct 01 j 08:03	19°♋12'55	
	-10175 Nov 21 j 00:12	0°♌	
retrograde	-10174 Feb 06 j 15:19	8°♌07'55	
opposition	-10174 Apr 09 j 02:10	3°♌10'01	1°29'44
min. Earth dist.	-10174 Apr 09 j 00:33	3°♌10'32	4.16204 AU
	-10174 May 05 j 20:13	30°℞♋	
direct	-10174 Jun 08 j 01:17	28°♋17'05	
	-10174 Jul 10 j 22:55	0°♌	
	-10174 Oct 01 j 14:36	15°♌	
evening set	-10174 Oct 09 j 02:16	16°♌43'48	
conjunction	-10174 Oct 21 j 23:07	19°♌44'05	0°35'05
minimum elong	-10174 Oct 21 j 23:11	19°♌44'07	0°35'31
max. Earth dist.	-10174 Oct 22 j 10:14	19°♌50'35	6.12394 AU
morning rise	-10174 Nov 03 j 22:58	22°♌46'06	
	-10174 Dec 06 j 05:59	0°♍	
retrograde	-10173 Mar 14 j 17:25	12°♍21'56	
opposition	-10173 May 14 j 15:42	7°♍20'15	0°07'47
min. Earth dist.	-10173 May 14 j 02:40	7°♍24'33	4.09266 AU
desc. node	-10173 Jun 17 j 21:50	3°♍26'42	
direct	-10173 Jul 12 j 12:03	2°♍26'52	
evening set	-10173 Nov 12 j 17:18	21°♍12'53	
conjunction	-10173 Nov 25 j 23:52	24°♍19'48	-0°24'11
minimum elong	-10173 Nov 25 j 23:49	24°♍19'46	0°24'04
max. Earth dist.	-10173 Nov 27 j 02:01	24°♍35'10	6.07104 AU
morning rise	-10173 Dec 09 j 10:10	27°♍28'41	
	-10173 Dec 20 j 07:56	0°♎	
retrograde	-10172 Apr 19 j 01:21	17°♎26'16	
min. Earth dist.	-10172 Jun 17 j 09:26	12°♎29'04	4.06188 AU
opposition	-10172 Jun 18 j 06:52	12°♎21'50	-1°18'47
direct	-10172 Aug 15 j 10:54	7°♎26'08	
evening set	-10172 Dec 18 j 00:45	26°♎29'13	

Attention, astronomical year style is used: The year -10171 in astronomical counting style is the year 10172 BCE in historical counting style.

conjunction	-10172 Dec 31 j 14:22	29°♎39'18	-1°15'21
minimum elong	-10172 Dec 31 j 14:16	29°♎39'15	1°15'36
max. Earth dist.	-10171 Jan 02 j 00:02	29°♎59'00	6.06404 AU
	-10171 Jan 02 j 01:45	0°♏	
morning rise	-10171 Jan 14 j 06:36	2°♏50'43	
	-10171 Mar 12 j 04:45	15°♏	
retrograde	-10171 May 24 j 21:25	22°♏40'48	
opposition	-10171 Jul 23 j 09:05	17°♏35'51	-2°16'37
min. Earth dist.	-10171 Jul 22 j 12:59	17°♏42'43	4.08045 AU
	-10171 Aug 12 j 09:49	15°℞♏	
direct	-10171 Sep 19 j 16:44	12°♏36'45	
	-10171 Oct 28 j 02:07	15°♏	
	-10170 Jan 16 j 08:09	0°♐	
evening set	-10170 Jan 24 j 02:39	1°♐46'29	
conjunction	-10170 Feb 06 j 19:27	4°♐55'55	-1°38'51
minimum elong	-10170 Feb 06 j 19:26	4°♐55'54	1°39'21
max. Earth dist.	-10170 Feb 08 j 00:01	5°♐12'24	6.10511 AU
morning rise	-10170 Feb 20 j 13:01	8°♐05'38	
retrograde	-10170 Jun 28 j 10:28	27°♐20'20	
opposition	-10170 Aug 26 j 12:22	22°♐17'22	-2°24'26
min. Earth dist.	-10170 Aug 25 j 22:56	22°♐21'58	4.14046 AU
direct	-10170 Oct 24 j 14:17	17°♐15'09	
	-10169 Feb 01 j 01:20	0°♑	
evening set	-10169 Mar 01 j 16:33	6°♑17'01	
conjunction	-10169 Mar 15 j 09:07	9°♑23'15	-1°26'59
minimum elong	-10169 Mar 15 j 09:11	9°♑23'18	1°27'34
max. Earth dist.	-10169 Mar 15 j 20:13	9°♑29'33	6.17864 AU
morning rise	-10169 Mar 29 j 00:39	12°♑28'46	
	-10169 Jul 08 j 00:11	0°♒	
retrograde	-10169 Jul 31 j 14:56	0°♒54'53	
	-10169 Aug 24 j 01:40	30°℞♑	
opposition	-10169 Sep 28 j 15:44	25°♑55'29	-1°43'05
min. Earth dist.	-10169 Sep 28 j 14:35	25°♑55'52	4.21970 AU
direct	-10169 Nov 28 j 00:04	20°♑51'24	
	-10168 Feb 19 j 02:31	0°♒	
evening set	-10168 Apr 04 j 20:23	9°♒35'09	
conjunction	-10168 Apr 18 j 09:21	12°♒36'43	-0°46'28
minimum elong	-10168 Apr 18 j 09:25	12°♒36'45	0°46'56
max. Earth dist.	-10168 Apr 18 j 02:48	12°♒33'03	6.25828 AU
	-10168 Apr 29 j 01:22	15°♒	
morning rise	-10168 May 01 j 19:17	15°♒36'43	
	-10168 Jul 16 j 04:26	0°♓	
retrograde	-10168 Aug 31 j 15:48	3°♓19'50	
	-10168 Oct 17 j 18:25	30°℞♒	
opposition	-10168 Oct 30 j 01:39	28°♒24'14	-0°30'30
min. Earth dist.	-10168 Oct 30 j 11:21	28°♒21'02	4.29221 AU
direct	-10168 Dec 30 j 13:46	23°♒20'12	
	-10167 Mar 10 j 23:46	0°♓	
asc. node	-10167 Mar 27 j 15:09	3°♓00'40	
evening set	-10167 May 08 j 09:04	11°♓44'12	
conjunction	-10167 May 21 j 14:08	14°♓40'11	0°07'39
minimum elong	-10167 May 21 j 14:07	14°♓40'11	0°07'25
behind sun begin	-10167 May 21 j 06:43	14°♓36'05	
behind sun end	-10167 May 21 j 21:31	14°♓44'16	
max. Earth dist.	-10167 May 20 j 14:46	14°♓27'11	6.31871 AU
morning rise	-10167 Jun 03 j 15:51	17°♓34'24	
	-10167 Aug 05 j 15:59	0°♈	
retrograde	-10167 Oct 02 j 06:35	4°♈53'21	
opposition	-10167 Dec 01 j 05:49	0°♈00'34	0°49'23
	-10167 Dec 01 j 07:34	30°℞♓	
min. Earth dist.	-10167 Dec 02 j 01:11	29°♓54'18	4.33618 AU
direct	-10166 Feb 01 j 14:13	24°♓58'09	
	-10166 Apr 03 j 05:41	0°♈	
evening set	-10166 Jun 09 j 12:57	13°♈07'43	
max. Earth dist.	-10166 Jun 21 j 02:23	15°♈41'51	6.34236 AU
conjunction	-10166 Jun 22 j 08:28	15°♈58'37	0°58'37
minimum elong	-10166 Jun 22 j 08:23	15°♈58'35	0°58'43
morning rise	-10166 Jul 05 j 00:44	18°♈47'59	
	-10166 Aug 29 j 11:44	0°♉	
retrograde	-10166 Nov 03 j 00:02	6°♉06'24	
opposition	-10165 Jan 02 j 16:50	1°♉14'47	1°54'11
min. Earth dist.	-10165 Jan 03 j 14:28	1°♉07'53	4.33911 AU
	-10165 Jan 12 j 14:09	30°℞♈	
direct	-10165 Mar 06 j 04:26	26°♈15'10	
	-10165 Apr 26 j 20:50	0°♉	
evening set	-10165 Jul 10 j 21:08	14°♉18'25	
	-10165 Jul 13 j 23:32	15°♉	
max. Earth dist.	-10165 Jul 22 j 02:59	16°♉49'49	6.32313 AU
conjunction	-10165 Jul 23 j 08:29	17°♉06'26	1°32'29
minimum elong	-10165 Jul 23 j 08:25	17°♉06'23	1°32'51
morning rise	-10165 Aug 04 j 18:06	19°♉53'39	
	-10165 Sep 22 j 09:20	0°♊	
retrograde	-10165 Dec 05 j 16:35	7°♊33'39	
opposition	-10164 Feb 04 j 21:35	2°♊41'20	2°26'18
min. Earth dist.	-10164 Feb 05 j 16:53	2°♊35'13	4.30001 AU
	-10164 Feb 27 j 09:01	30°℞♉	
direct	-10164 Apr 06 j 23:13	27°♉44'47	
	-10164 May 16 j 01:38	0°♊	
evening set	-10164 Aug 10 j 01:20	15°♊49'52	
conjunction	-10164 Aug 22 j 10:09	18°♊38'52	1°39'29
minimum elong	-10164 Aug 22 j 10:11	18°♊38'53	1°40'02
max. Earth dist.	-10164 Aug 21 j 13:50	18°♊27'16	6.26653 AU
morning rise	-10164 Sep 03 j 19:04	21°♊28'02	
	-10164 Oct 13 j 09:58	0°♋	
retrograde	-10163 Jan 07 j 12:17	9°♋45'42	
opposition	-10163 Mar 10 j 01:03	4°♋50'52	2°14'52
min. Earth dist.	-10163 Mar 10 j 09:51	4°♋48'04	4.22990 AU
	-10163 May 04 j 07:55	30°℞♊	
direct	-10163 May 10 j 01:20	29°♊56'52	
	-10163 May 15 j 19:33	0°♋	
evening set	-10163 Sep 10 j 19:37	18°♋11'05	
conjunction	-10163 Sep 23 j 08:44	21°♋05'07	1°16'00
minimum elong	-10163 Sep 23 j 08:48	21°♋05'10	1°16'33
max. Earth dist.	-10163 Sep 23 j 04:43	21°♋02'48	6.18915 AU
morning rise	-10163 Oct 05 j 23:41	24°♋00'17	
	-10163 Nov 01 j 18:59	0°♌	
retrograde	-10162 Feb 11 j 17:45	13°♌02'10	
opposition	-10162 Apr 14 j 02:31	8°♌03'43	1°19'32
min. Earth dist.	-10162 Apr 13 j 23:29	8°♌04'42	4.15006 AU
direct	-10162 Jun 12 j 22:24	3°♌10'52	
	-10162 Sep 14 j 06:25	15°♌	
evening set	-10162 Oct 13 j 21:22	21°♌40'09	
conjunction	-10162 Oct 26 j 19:30	24°♌41'26	0°27'02
minimum elong	-10162 Oct 26 j 19:33	24°♌41'28	0°27'25
max. Earth dist.	-10162 Oct 27 j 08:58	24°♌49'18	6.11492 AU
morning rise	-10162 Nov 08 j 21:04	27°♌44'34	
	-10162 Nov 18 j 15:52	0°♍	
retrograde	-10161 Mar 19 j 19:22	17°♍24'20	
desc. node	-10161 Apr 27 j 16:58	15°♍06'58	
opposition	-10161 May 19 j 16:48	12°♍22'07	-0°04'59
min. Earth dist.	-10161 May 19 j 00:58	12°♍27'22	4.08734 AU
direct	-10161 Jul 17 j 09:30	7°♍28'31	
evening set	-10161 Nov 17 j 18:00	26°♍16'22	
conjunction	-10161 Dec 01 j 01:47	29°♍23'50	-0°32'25

Attention, astronomical year style is used: The year -10161 in astronomical counting style is the year 10162 BCE in historical counting style.

minimum elong	-10161 Dec 01 j 01:44	29°♍23'48	0°32'20	
max. Earth dist.	-10161 Dec 02 j 06:27	29°♍40'41	6.06958 AU	
	-10161 Dec 03 j 15:21	0°♎		
morning rise	-10161 Dec 14 j 13:03	2°♎33'11		
retrograde	-10160 Apr 24 j 03:31	22°♎30'29		
min. Earth dist.	-10160 Jun 22 j 09:01	17°♎32'55	4.06429 AU	
opposition	-10160 Jun 23 j 06:05	17°♎25'47	-1°29'18	
direct	-10160 Aug 20 j 10:42	12°♎29'37		
	-10160 Dec 16 j 11:10	0°♏		
evening set	-10160 Dec 23 j 04:40	1°♏33'18		
conjunction	-10159 Jan 05 j 18:54	4°♏43'21	-1°20'38	
minimum elong	-10159 Jan 05 j 18:48	4°♏43'18	1°20'55	
max. Earth dist.	-10159 Jan 07 j 04:58	5°♏03'14	6.06984 AU	
morning rise	-10159 Jan 19 j 11:31	7°♏54'36		
	-10159 Feb 20 j 03:19	15°♏		
retrograde	-10159 May 29 j 18:04	27°♏40'05		
min. Earth dist.	-10159 Jul 27 j 08:32	22°♏42'09	4.08929 AU	
opposition	-10159 Jul 28 j 04:33	22°♏35'18	-2°20'53	
direct	-10159 Sep 24 j 12:54	17°♏35'46		
	-10159 Dec 29 j 21:48	0°♐		
evening set	-10158 Jan 29 j 05:41	6°♐44'18		
conjunction	-10158 Feb 11 j 22:28	9°♐53'16	-1°39'17	
minimum elong	-10158 Feb 11 j 22:27	9°♐53'16	1°39'49	
max. Earth dist.	-10158 Feb 12 j 23:36	10°♐07'44	6.11603 AU	
morning rise	-10158 Feb 25 j 15:59	13°♐02'25		
	-10158 May 27 j 05:09	0°♑		
retrograde	-10158 Jul 03 j 02:30	2°♑10'10		
	-10158 Aug 08 j 17:05	30°℞♐		
opposition	-10158 Aug 31 j 03:52	27°♐07'37	-2°21'20	
min. Earth dist.	-10158 Aug 30 j 16:36	27°♐11'28	4.15233 AU	
direct	-10158 Oct 29 j 10:44	22°♐05'01		
	-10157 Jan 12 j 17:37	0°♑		
evening set	-10157 Mar 06 j 15:10	11°♑04'17		
conjunction	-10157 Mar 20 j 07:37	14°♑09'56	-1°22'48	
minimum elong	-10157 Mar 20 j 07:42	14°♑09'59	1°23'22	
max. Earth dist.	-10157 Mar 20 j 17:12	14°♑15'22	6.19077 AU	
morning rise	-10157 Apr 02 j 22:25	17°♑14'41		
	-10157 Jun 04 j 21:33	0°♒		
retrograde	-10157 Aug 05 j 02:18	5°♒33'56		
opposition	-10157 Oct 03 j 03:50	0°♒35'07	-1°34'23	
min. Earth dist.	-10157 Oct 03 j 03:58	0°♒35'05	4.23095 AU	
	-10157 Oct 07 j 12:31	30°℞♑		
direct	-10157 Dec 02 j 15:44	25°♑30'57		
	-10156 Jan 27 j 13:26	0°♒		
evening set	-10156 Apr 09 j 13:46	14°♒11'52		
	-10156 Apr 13 j 04:16	15°♒		
conjunction	-10156 Apr 23 j 01:44	17°♒12'42	-0°39'25	
minimum elong	-10156 Apr 23 j 01:48	17°♒12'44	0°39'51	
max. Earth dist.	-10156 Apr 22 j 14:51	17°♒06'37	6.26789 AU	
morning rise	-10156 May 06 j 10:52	20°♒11'57		
	-10156 Jun 22 j 14:10	0°♓		
retrograde	-10156 Sep 05 j 01:58	7°♓50'40		
opposition	-10156 Nov 03 j 12:31	2°♓55'31	-0°19'21	
min. Earth dist.	-10156 Nov 04 j 00:32	2°♓51'33	4.29944 AU	
	-10156 Nov 27 j 06:30	30°℞♒		
direct	-10155 Jan 04 j 04:33	27°♒51'33		
asc. node	-10155 Feb 05 j 05:43	29°♒23'02		
	-10155 Feb 11 j 10:15	0°♓		
evening set	-10155 May 12 j 21:26	16°♓13'32		
max. Earth dist.	-10155 May 25 j 01:42	18°♓55'38	6.32310 AU	
conjunction	-10155 May 26 j 01:26	19°♓08'51	0°15'13	
minimum elong	-10155 May 26 j 01:25	19°♓08'50	0°15'02	
behind sun begin	-10155 May 25 j 22:33	19°♓07'15		
behind sun end	-10155 May 26 j 04:17	19°♓10'25		
morning rise	-10155 Jun 08 j 01:44	22°♓02'21		
	-10155 Jul 15 j 20:21	0°♈		
retrograde	-10155 Oct 06 j 15:09	9°♈20'19		
opposition	-10155 Dec 05 j 17:16	4°♈27'48	0°59'43	
min. Earth dist.	-10155 Dec 06 j 12:37	4°♈21'33	4.33761 AU	
	-10154 Jan 17 j 15:30	30°℞♓		
direct	-10154 Feb 06 j 01:42	29°♓25'45		
	-10154 Feb 25 j 15:54	0°♈		
evening set	-10154 Jun 13 j 22:33	17°♈34'30		
max. Earth dist.	-10154 Jun 25 j 09:04	20°♈07'16	6.34064 AU	
conjunction	-10154 Jun 26 j 16:37	20°♈24'53	1°04'36	
minimum elong	-10154 Jun 26 j 16:32	20°♈24'50	1°04'45	
morning rise	-10154 Jul 09 j 07:53	23°♈13'51		
	-10154 Aug 09 j 23:45	0°♉		
retrograde	-10154 Nov 07 j 13:27	10°♉34'35		
opposition	-10153 Jan 07 j 06:50	5°♉42'59	2°00'57	
min. Earth dist.	-10153 Jan 08 j 05:15	5°♉35'51	4.33463 AU	
direct	-10153 Mar 10 j 18:34	0°♉43'48		
	-10153 Jun 28 j 00:20	15°♉		
evening set	-10153 Jul 15 j 05:39	18°♉47'18		
conjunction	-10153 Jul 27 j 16:24	21°♉35'17	1°35'13	
minimum elong	-10153 Jul 27 j 16:21	21°♉35'15	1°35'37	
max. Earth dist.	-10153 Jul 26 j 12:31	21°♉19'33	6.31629 AU	
morning rise	-10153 Aug 09 j 01:29	24°♉22'32		
	-10153 Sep 03 j 20:22	0°♊		
retrograde	-10153 Dec 10 j 07:11	12°♊07'11		
opposition	-10152 Feb 09 j 14:47	7°♊14'35	2°27'26	
min. Earth dist.	-10152 Feb 10 j 07:45	7°♊09'13	4.29163 AU	
direct	-10152 Apr 11 j 12:17	2°♊18'31		
evening set	-10152 Aug 14 j 10:52	20°♊24'23		
conjunction	-10152 Aug 26 j 19:49	23°♊13'48	1°38'00	
minimum elong	-10152 Aug 26 j 19:51	23°♊13'49	1°38'34	
max. Earth dist.	-10152 Aug 26 j 02:07	23°♊03'40	6.25738 AU	
morning rise	-10152 Sep 08 j 05:08	26°♊03'32		
	-10152 Sep 25 j 19:59	0°♋		
retrograde	-10151 Jan 12 j 09:30	14°♋26'47		
opposition	-10151 Mar 14 j 21:34	9°♋31'30	2°09'34	
min. Earth dist.	-10151 Mar 15 j 05:21	9°♋29'01	4.22048 AU	
direct	-10151 May 14 j 19:27	4°♋37'45		
evening set	-10151 Sep 15 j 08:00	22°♋52'57		
conjunction	-10151 Sep 27 j 22:05	25°♋47'48	1°10'27	
minimum elong	-10151 Sep 27 j 22:10	25°♋47'51	1°11'00	
max. Earth dist.	-10151 Sep 27 j 20:23	25°♋46'49	6.18044 AU	
morning rise	-10151 Oct 10 j 14:21	28°♋43'54		
	-10151 Oct 16 j 02:57	0°♌		
	-10150 Jan 03 j 17:12	15°♌		
retrograde	-10150 Feb 16 j 15:09	17°♌50'37		
	-10150 Apr 01 j 23:02	15°℞♌		
opposition	-10150 Apr 19 j 00:23	12°♌51'37	1°08'59	
min. Earth dist.	-10150 Apr 18 j 18:30	12°♌53'31	4.14272 AU	
direct	-10150 Jun 17 j 15:37	7°♌58'47		
	-10150 Aug 25 j 20:42	15°♌		
evening set	-10150 Oct 18 j 14:19	26°♌29'23		
conjunction	-10150 Oct 31 j 13:48	29°♌31'28	0°19'00	
minimum elong	-10150 Oct 31 j 13:50	29°♌31'30	0°19'21	
max. Earth dist.	-10150 Nov 01 j 05:59	29°♌40'57	6.10959 AU	
	-10150 Nov 02 j 14:29	0°♍		
morning rise	-10150 Nov 13 j 16:39	2°♍35'27		
desc. node	-10149 Mar 08 j 16:14	21°♍53'15		
retrograde	-10149 Mar 24 j 19:51	22°♍17'54		

Attention, astronomical year style is used: The year -10149 in astronomical counting style is the year 10150 BCE in historical counting style.

opposition	-10149 May 24 j 14:22	17°♍15'13	-0°17'21
min. Earth dist.	-10149 May 23 j 22:12	17°♍20'36	4.08433 AU
direct	-10149 Jul 22 j 05:48	12°♍21'19	
	-10149 Nov 17 j 14:11	0°♎	
evening set	-10149 Nov 22 j 15:40	1°♎10'37	
conjunction	-10149 Dec 06 j 00:30	4°♎18'34	-0°40'09
minimum elong	-10149 Dec 06 j 00:26	4°♎18'31	0°40'08
max. Earth dist.	-10149 Dec 07 j 06:35	4°♎36'13	6.06904 AU
morning rise	-10149 Dec 19 j 12:45	7°♎28'19	
retrograde	-10148 Apr 29 j 01:01	27°♎24'59	
min. Earth dist.	-10148 Jun 27 j 04:05	22°♎27'27	4.06651 AU
opposition	-10148 Jun 28 j 01:33	22°♎20'11	-1°38'52
direct	-10148 Aug 25 j 04:46	17°♎23'37	
	-10148 Nov 29 j 12:07	0°♏	
evening set	-10148 Dec 28 j 05:21	6°♏28'18	
conjunction	-10147 Jan 10 j 19:58	9°♏38'19	-1°25'11
minimum elong	-10147 Jan 10 j 19:53	9°♏38'16	1°25'30
max. Earth dist.	-10147 Jan 12 j 03:58	9°♏56'57	6.07423 AU
morning rise	-10147 Jan 24 j 12:59	12°♏49'27	
	-10147 Feb 03 j 00:29	15°♏	
	-10147 Apr 24 j 09:53	0°♐	
retrograde	-10147 Jun 03 j 11:49	2°♐31'13	
	-10147 Jul 13 j 06:33	30°℞♏	
opposition	-10147 Aug 01 j 20:58	27°♏26'38	-2°24'04
min. Earth dist.	-10147 Aug 01 j 02:21	27°♏33'01	4.09548 AU
direct	-10147 Sep 29 j 08:14	22°♏26'38	
	-10147 Dec 10 j 12:37	0°♐	
evening set	-10146 Feb 03 j 05:59	11°♐35'07	
conjunction	-10146 Feb 16 j 23:06	14°♐43'51	-1°39'02
minimum elong	-10146 Feb 16 j 23:06	14°♐43'52	1°39'34
max. Earth dist.	-10146 Feb 17 j 23:19	14°♐57'47	6.12358 AU
morning rise	-10146 Mar 02 j 16:18	17°♐52'34	
	-10146 Apr 29 j 16:16	0°♑	
retrograde	-10146 Jul 07 j 17:32	6°♑54'44	
opposition	-10146 Sep 04 j 17:22	1°♑52'43	-2°17'24
min. Earth dist.	-10146 Sep 04 j 07:43	1°♑56'01	4.16050 AU
	-10146 Sep 18 j 20:37	30°℞♐	
direct	-10146 Nov 03 j 03:18	26°♐49'52	
	-10146 Dec 18 j 17:33	0°♑	
evening set	-10145 Mar 11 j 12:27	15°♑48'01	
conjunction	-10145 Mar 25 j 04:29	18°♑53'14	-1°18'07
minimum elong	-10145 Mar 25 j 04:34	18°♑53'17	1°18'41
max. Earth dist.	-10145 Mar 25 j 09:51	18°♑56'16	6.19894 AU
morning rise	-10145 Apr 07 j 18:56	21°♑57'28	
	-10145 May 15 j 04:54	0°♒	
retrograde	-10145 Aug 09 j 13:52	10°♒11'35	
opposition	-10145 Oct 07 j 15:43	5°♒13'18	-1°25'11
min. Earth dist.	-10145 Oct 07 j 17:41	5°♒12'38	4.23842 AU
direct	-10145 Dec 07 j 07:27	0°♒09'03	
	-10144 Mar 27 j 20:35	15°♒	
evening set	-10144 Apr 14 j 06:33	18°♒48'25	
conjunction	-10144 Apr 27 j 17:48	21°♒48'41	-0°32'08
minimum elong	-10144 Apr 27 j 17:51	21°♒48'42	0°32'33
max. Earth dist.	-10144 Apr 27 j 06:03	21°♒42'07	6.27441 AU
morning rise	-10144 May 11 j 01:48	24°♒47'15	
	-10144 Jun 04 j 02:33	0°♓	
retrograde	-10144 Sep 09 j 11:59	12°♓22'46	
opposition	-10144 Nov 08 j 00:00	7°♓28'07	-0°08'03
min. Earth dist.	-10144 Nov 08 j 12:50	7°♓23'54	4.30450 AU
asc. node	-10144 Dec 16 j 21:46	3°♓12'30	
direct	-10143 Jan 08 j 18:10	2°♓24'25	
evening set	-10143 May 17 j 10:27	20°♓44'54	
max. Earth dist.	-10143 May 29 j 10:57	23°♓25'01	6.32631 AU
conjunction	-10143 May 30 j 13:01	23°♓39'31	0°22'46
minimum elong	-10143 May 30 j 12:59	23°♓39'30	0°22'38
morning rise	-10143 Jun 12 j 12:12	26°♓32'24	
	-10143 Jun 28 j 08:46	0°♈	
retrograde	-10143 Oct 11 j 02:20	13°♈49'46	
opposition	-10143 Dec 10 j 05:46	8°♈57'28	1°09'47
min. Earth dist.	-10143 Dec 11 j 02:03	8°♈50'55	4.33896 AU
direct	-10142 Feb 10 j 15:41	3°♈55'44	
evening set	-10142 Jun 18 j 08:22	22°♈03'25	
max. Earth dist.	-10142 Jun 29 j 19:33	24°♈36'39	6.33992 AU
conjunction	-10142 Jul 01 j 01:22	24°♈53'18	1°10'16
minimum elong	-10142 Jul 01 j 01:17	24°♈53'16	1°10'27
morning rise	-10142 Jul 13 j 15:21	27°♈41'47	
	-10142 Jul 24 j 02:22	0°♉	
	-10142 Nov 05 j 04:40	15°♉	
retrograde	-10142 Nov 12 j 00:43	15°♉04'24	
	-10142 Nov 18 j 20:44	15°℞♉	
opposition	-10141 Jan 11 j 21:14	10°♉12'45	2°07'01
min. Earth dist.	-10141 Jan 12 j 18:28	10°♉06'00	4.33198 AU
direct	-10141 Mar 15 j 07:26	5°♉14'02	
	-10141 Jun 10 j 14:06	15°♉	
evening set	-10141 Jul 19 j 13:57	23°♉16'53	
conjunction	-10141 Jul 31 j 23:53	26°♉04'41	1°37'24
minimum elong	-10141 Jul 31 j 23:50	26°♉04'40	1°37'51
max. Earth dist.	-10141 Jul 30 j 20:22	25°♉49'09	6.31158 AU
morning rise	-10141 Aug 13 j 08:40	28°♉51'59	
	-10141 Aug 18 j 10:19	0°♊	
retrograde	-10141 Dec 14 j 23:29	16°♊40'35	
opposition	-10140 Feb 14 j 07:47	11°♊47'39	2°27'40
min. Earth dist.	-10140 Feb 15 j 00:25	11°♊42'23	4.28496 AU
direct	-10140 Apr 16 j 03:53	6°♊51'54	
evening set	-10140 Aug 18 j 19:35	24°♊57'55	
conjunction	-10140 Aug 31 j 04:57	27°♊47'49	1°35'57
minimum elong	-10140 Aug 31 j 04:59	27°♊47'50	1°36'30
max. Earth dist.	-10140 Aug 30 j 13:32	27°♊38'59	6.24923 AU
	-10140 Sep 09 j 19:55	0°♋	
morning rise	-10140 Sep 12 j 14:46	0°♋38'07	
retrograde	-10139 Jan 17 j 03:00	19°♋06'30	
opposition	-10139 Mar 19 j 16:41	14°♋10'43	2°03'30
min. Earth dist.	-10139 Mar 19 j 22:14	14°♋08'57	4.21132 AU
direct	-10139 May 19 j 10:13	9°♋17'11	
evening set	-10139 Sep 19 j 19:52	27°♋33'37	
	-10139 Sep 30 j 08:32	0°♌	
conjunction	-10139 Oct 02 j 11:00	0°♌29'20	1°04'31
minimum elong	-10139 Oct 02 j 11:05	0°♌29'23	1°05'03
max. Earth dist.	-10139 Oct 02 j 11:15	0°♌29'29	6.17108 AU
morning rise	-10139 Oct 15 j 04:35	3°♌26'26	
	-10139 Dec 08 j 16:45	15°♌	
retrograde	-10138 Feb 21 j 14:21	22°♌38'23	
opposition	-10138 Apr 23 j 21:29	17°♌38'48	0°58'03
min. Earth dist.	-10138 Apr 23 j 14:45	17°♌41'00	4.13360 AU
	-10138 May 15 j 09:54	15°℞♌	
direct	-10138 Jun 22 j 10:02	12°♌45'52	
	-10138 Jul 29 j 20:03	15°♌	
	-10138 Oct 17 j 15:35	0°♍	
evening set	-10138 Oct 23 j 07:18	1°♍18'44	
conjunction	-10138 Nov 05 j 08:13	4°♍21'47	0°10'52
minimum elong	-10138 Nov 05 j 08:14	4°♍21'48	0°11'11
behind sun begin	-10138 Nov 05 j 02:11	4°♍18'16	
behind sun end	-10138 Nov 05 j 14:18	4°♍25'20	

Attention, astronomical year style is used: The year -10138 in astronomical counting style is the year 10139 BCE in historical counting style.

max. Earth dist.	-10138 Nov 06 j 02:42	4°♍32'36	6.10170 AU
morning rise	-10138 Nov 18 j 12:33	7°♍26'45	
desc. node	-10137 Jan 17 j 07:05	20°♍06'08	
retrograde	-10137 Mar 29 j 19:45	27°♍12'44	
opposition	-10137 May 29 j 11:57	22°♍09'39	-0°29'37
min. Earth dist.	-10137 May 28 j 18:40	22°♍15'24	4.07847 AU
direct	-10137 Jul 26 j 23:59	17°♍15'27	
	-10137 Oct 31 j 15:39	0°♎	
evening set	-10137 Nov 27 j 14:48	6°♎07'33	
conjunction	-10137 Dec 11 j 00:36	9°♎16'02	-0°47'40
minimum elong	-10137 Dec 11 j 00:31	9°♎15'59	0°47'42
max. Earth dist.	-10137 Dec 12 j 06:20	9°♎33'29	6.06551 AU
morning rise	-10137 Dec 24 j 13:53	12°♎26'20	
	-10136 Mar 25 j 16:37	0°♏	
retrograde	-10136 May 03 j 23:31	2°♏23'23	
	-10136 Jun 11 j 23:37	30°℞♎	
opposition	-10136 Jul 02 j 22:02	27°♎18'23	-1°47'50
min. Earth dist.	-10136 Jul 02 j 00:42	27°♎25'39	4.06568 AU
direct	-10136 Aug 30 j 01:27	22°♎21'18	
	-10136 Nov 09 j 23:13	0°♏	
evening set	-10135 Jan 02 j 08:21	11°♏28'10	
conjunction	-10135 Jan 15 j 23:44	14°♏38'22	-1°29'11
minimum elong	-10135 Jan 15 j 23:39	14°♏38'19	1°29'33
max. Earth dist.	-10135 Jan 17 j 08:27	14°♏57'25	6.07614 AU
	-10135 Jan 17 j 12:54	15°♏	
morning rise	-10135 Jan 29 j 16:55	17°♏49'28	
	-10135 Mar 28 j 01:01	0°♐	
retrograde	-10135 Jun 08 j 09:36	7°♐27'59	
opposition	-10135 Aug 06 j 15:32	2°♐23'38	-2°26'19
min. Earth dist.	-10135 Aug 05 j 22:09	2°♐29'35	4.09996 AU
	-10135 Aug 24 j 21:41	30°℞♏	
direct	-10135 Oct 04 j 04:46	27°♏23'10	
	-10135 Nov 13 j 17:08	0°♐	
evening set	-10134 Feb 08 j 09:07	16°♐32'03	
conjunction	-10134 Feb 22 j 02:14	19°♐40'33	-1°38'04
minimum elong	-10134 Feb 22 j 02:15	19°♐40'34	1°38'37
max. Earth dist.	-10134 Feb 22 j 23:17	19°♐52'37	6.13006 AU
morning rise	-10134 Mar 07 j 19:29	22°♐48'56	
	-10134 Apr 09 j 11:36	0°♑	
retrograde	-10134 Jul 12 j 09:44	11°♑45'38	
opposition	-10134 Sep 09 j 09:37	6°♑44'04	-2°12'26
min. Earth dist.	-10134 Sep 09 j 00:59	6°♑47'00	4.16836 AU
direct	-10134 Nov 07 j 22:55	1°♑40'54	
evening set	-10133 Mar 16 j 12:13	20°♑37'43	
conjunction	-10133 Mar 30 j 03:58	23°♑42'27	-1°12'48
minimum elong	-10133 Mar 30 j 04:04	23°♑42'30	1°13'21
max. Earth dist.	-10133 Mar 30 j 07:59	23°♑44'43	6.20796 AU
morning rise	-10133 Apr 12 j 17:41	26°♑46'02	
	-10133 Apr 27 j 07:43	0°♒	
retrograde	-10133 Aug 14 j 04:11	14°♒54'31	
opposition	-10133 Oct 12 j 06:07	9°♒56'48	-1°15'14
min. Earth dist.	-10133 Oct 12 j 09:37	9°♒55'38	4.24774 AU
direct	-10133 Dec 12 j 01:51	4°♒52'36	
	-10132 Mar 09 j 19:16	15°♒	
evening set	-10132 Apr 19 j 01:26	23°♒29'22	
conjunction	-10132 May 02 j 11:39	26°♒28'52	-0°24'32
minimum elong	-10132 May 02 j 11:41	26°♒28'53	0°24'55
max. Earth dist.	-10132 May 01 j 21:43	26°♒21'05	6.28359 AU
morning rise	-10132 May 15 j 18:38	29°♒26'39	
	-10132 May 18 j 06:50	0°♓	
retrograde	-10132 Sep 13 j 22:45	16°♓58'02	
asc. node	-10132 Oct 27 j 01:32	14°♓09'02	
opposition	-10132 Nov 12 j 13:19	12°♓03'44	0°03'24
min. Earth dist.	-10132 Nov 13 j 02:46	11°♓59'19	4.31302 AU
direct	-10131 Jan 13 j 10:08	7°♓00'14	
evening set	-10131 May 21 j 23:58	25°♓17'44	
max. Earth dist.	-10131 Jun 02 j 23:47	27°♓57'21	6.33366 AU
conjunction	-10131 Jun 04 j 01:12	28°♓11'30	0°30'12
minimum elong	-10131 Jun 04 j 01:09	28°♓11'28	0°30'08
	-10131 Jun 12 j 04:18	0°♈	
morning rise	-10131 Jun 16 j 22:53	1°♈03'28	
retrograde	-10131 Oct 15 j 12:28	18°♈19'03	
opposition	-10131 Dec 14 j 18:53	13°♈26'56	1°19'23
min. Earth dist.	-10131 Dec 15 j 15:14	13°♈20'25	4.34464 AU
direct	-10130 Feb 15 j 06:29	8°♈25'40	
evening set	-10130 Jun 22 j 17:36	26°♈30'35	
max. Earth dist.	-10130 Jul 04 j 02:16	29°♈02'29	6.34321 AU
conjunction	-10130 Jul 05 j 09:09	29°♈19'45	1°15'27
minimum elong	-10130 Jul 05 j 09:04	29°♈19'42	1°15'41
	-10130 Jul 08 j 09:12	0°♉	
morning rise	-10130 Jul 17 j 22:11	2°♉07'39	
	-10130 Sep 21 j 16:11	15°♉	
retrograde	-10130 Nov 16 j 12:03	19°♉31'05	
	-10129 Jan 13 j 17:46	15°℞♉	
opposition	-10129 Jan 16 j 10:56	14°♉39'20	2°12'12
min. Earth dist.	-10129 Jan 17 j 08:05	14°♉32'37	4.33276 AU
direct	-10129 Mar 19 j 20:57	9°♉40'59	
	-10129 May 21 j 00:16	15°♉	
evening set	-10129 Jul 23 j 20:34	27°♉42'07	
	-10129 Aug 03 j 01:25	0°♊	
max. Earth dist.	-10129 Aug 04 j 04:40	0°♊15'24	6.30967 AU
conjunction	-10129 Aug 05 j 06:04	0°♊29'46	1°38'56
minimum elong	-10129 Aug 05 j 06:03	0°♊29'45	1°39'25
morning rise	-10129 Aug 17 j 14:21	3°♊16'57	
retrograde	-10129 Dec 19 j 11:57	21°♊08'41	
opposition	-10128 Feb 18 j 22:42	16°♊15'30	2°26'57
min. Earth dist.	-10128 Feb 19 j 14:07	16°♊10'37	4.28045 AU
direct	-10128 Apr 20 j 16:15	11°♊20'08	
evening set	-10128 Aug 23 j 02:21	29°♊25'51	
	-10128 Aug 25 j 14:17	0°♋	
conjunction	-10128 Sep 04 j 11:56	2°♋16'09	1°33'20
minimum elong	-10128 Sep 04 j 11:59	2°♋16'11	1°33'55
max. Earth dist.	-10128 Sep 03 j 20:45	2°♋07'27	6.24237 AU
morning rise	-10128 Sep 16 j 22:30	5°♋07'04	
retrograde	-10127 Jan 21 j 20:32	23°♋40'30	
opposition	-10127 Mar 24 j 09:41	18°♋44'15	1°56'47
min. Earth dist.	-10127 Mar 24 j 14:26	18°♋42'44	4.20232 AU
direct	-10127 May 24 j 00:08	13°♋50'51	
	-10127 Sep 14 j 21:00	0°♌	
evening set	-10127 Sep 24 j 05:39	2°♌08'50	
conjunction	-10127 Oct 06 j 22:03	5°♌05'32	0°58'17
minimum elong	-10127 Oct 06 j 22:08	5°♌05'34	0°58'47
max. Earth dist.	-10127 Oct 07 j 00:35	5°♌07'00	6.16095 AU
morning rise	-10127 Oct 19 j 16:55	8°♌03'41	
	-10127 Nov 19 j 19:17	15°♌	
retrograde	-10126 Feb 26 j 11:11	27°♌21'16	
opposition	-10126 Apr 28 j 16:18	22°♌21'16	0°46'57
min. Earth dist.	-10126 Apr 28 j 08:27	22°♌23'50	4.12316 AU
direct	-10126 Jun 27 j 00:18	17°♌28'19	
	-10126 Oct 01 j 04:43	0°♍	
evening set	-10126 Oct 27 j 23:24	6°♍04'31	
conjunction	-10126 Nov 10 j 01:34	9°♍08'36	0°02'50
minimum elong	-10126 Nov 10 j 01:33	9°♍08'35	0°03'07

Attention, astronomical year style is used: The year -10126 in astronomical counting style is the year 10127 BCE in historical counting style.

behind sun begin	-10126 Nov 09 j 17:25	9°♍03'50	
behind sun end	-10126 Nov 10 j 09:42	9°♍13'21	
max. Earth dist.	-10126 Nov 10 j 20:14	9°♍19'32	6.09190 AU
morning rise	-10126 Nov 23 j 07:25	12°♍14'38	
desc. node	-10126 Nov 28 j 16:09	13°♍29'19	
	-10125 Feb 25 j 19:45	0°♎	
retrograde	-10125 Apr 03 j 17:53	2°♎05'05	
	-10125 May 10 j 11:43	30°℞♍	
opposition	-10125 Jun 03 j 07:56	27°♍01'38	-0°41'30
min. Earth dist.	-10125 Jun 02 j 13:50	27°♍07'42	4.07029 AU
direct	-10125 Jul 31 j 17:22	22°♍07'07	
	-10125 Oct 12 j 16:19	0°♎	
evening set	-10125 Dec 02 j 13:35	11°♎03'21	
conjunction	-10125 Dec 16 j 00:37	14°♎12'35	-0°54'44
minimum elong	-10125 Dec 16 j 00:31	14°♎12'32	0°54'49
max. Earth dist.	-10125 Dec 17 j 08:31	14°♎31'19	6.05980 AU
morning rise	-10125 Dec 29 j 14:41	17°♎23'29	
	-10124 Feb 26 j 19:09	0°♏	
retrograde	-10124 May 08 j 23:52	7°♏21'40	
opposition	-10124 Jul 07 j 18:12	2°♏16'40	-1°55'56
min. Earth dist.	-10124 Jul 06 j 21:26	2°♏23'44	4.06334 AU
	-10124 Jul 25 j 03:52	30°℞♎	
direct	-10124 Sep 03 j 21:41	27°♎19'11	
	-10124 Oct 14 j 12:51	0°♏	
	-10123 Jan 01 j 01:21	15°♏	
evening set	-10123 Jan 07 j 11:45	16°♏28'54	
conjunction	-10123 Jan 21 j 03:30	19°♏39'13	-1°32'28
minimum elong	-10123 Jan 21 j 03:26	19°♏39'11	1°32'53
max. Earth dist.	-10123 Jan 22 j 10:38	19°♏57'20	6.07714 AU
morning rise	-10123 Feb 03 j 21:10	22°♏50'23	
	-10123 Mar 07 j 23:25	0°♐	
retrograde	-10123 Jun 13 j 04:59	12°♐25'46	
opposition	-10123 Aug 11 j 10:00	7°♐21'39	-2°27'27
min. Earth dist.	-10123 Aug 10 j 16:37	7°♐27'36	4.10445 AU
direct	-10123 Oct 09 j 01:11	2°♐20'44	
evening set	-10122 Feb 13 j 12:22	21°♐29'49	
conjunction	-10122 Feb 27 j 05:36	24°♐38'02	-1°36'22
minimum elong	-10122 Feb 27 j 05:38	24°♐38'03	1°36'56
max. Earth dist.	-10122 Feb 28 j 01:43	24°♐49'34	6.13777 AU
morning rise	-10122 Mar 12 j 22:31	27°♐45'57	
	-10122 Mar 22 j 20:10	0°♑	
retrograde	-10122 Jul 17 j 02:59	16°♑36'27	
opposition	-10122 Sep 14 j 01:35	11°♑35'19	-2°06'32
min. Earth dist.	-10122 Sep 13 j 18:51	11°♑37'37	4.17825 AU
direct	-10122 Nov 12 j 19:19	6°♑31'53	
evening set	-10121 Mar 21 j 11:07	25°♑26'15	
conjunction	-10121 Apr 04 j 02:23	28°♑30'20	-1°07'01
minimum elong	-10121 Apr 04 j 02:29	28°♑30'23	1°07'33
max. Earth dist.	-10121 Apr 04 j 04:25	28°♑31'28	6.21914 AU
	-10121 Apr 10 j 17:32	0°♒	
morning rise	-10121 Apr 17 j 15:24	1°♒33'09	
	-10121 Jun 24 j 13:20	15°♒	
retrograde	-10121 Aug 18 j 14:45	19°♒35'10	
	-10121 Oct 14 j 01:08	15°℞♒	
opposition	-10121 Oct 16 j 19:27	14°♒37'52	-1°04'54
min. Earth dist.	-10121 Oct 16 j 23:37	14°♒36'28	4.25893 AU
direct	-10121 Dec 16 j 18:35	9°♒33'35	
	-10120 Feb 17 j 08:08	15°♒	
evening set	-10120 Apr 23 j 18:19	28°♒06'57	
	-10120 May 02 j 05:51	0°♓	
max. Earth dist.	-10120 May 06 j 11:37	0°♓56'47	6.29382 AU
conjunction	-10120 May 07 j 03:23	1°♓05'34	-0°16'52
minimum elong	-10120 May 07 j 03:24	1°♓05'34	0°17'13
morning rise	-10120 May 20 j 09:08	4°♓02'25	
asc. node	-10120 Sep 06 j 04:55	21°♓15'12	
retrograde	-10120 Sep 18 j 08:56	21°♓29'37	
opposition	-10120 Nov 17 j 01:15	16°♓35'41	0°14'42
min. Earth dist.	-10120 Nov 17 j 16:29	16°♓30'43	4.32117 AU
direct	-10119 Jan 18 j 02:16	11°♓32'23	
evening set	-10119 May 26 j 11:39	29°♓47'04	
	-10119 May 27 j 11:06	0°♈	
max. Earth dist.	-10119 Jun 07 j 08:15	2°♈24'52	6.33879 AU
conjunction	-10119 Jun 08 j 11:29	2°♈40'00	0°37'24
minimum elong	-10119 Jun 08 j 11:26	2°♈39'58	0°37'21
morning rise	-10119 Jun 21 j 07:53	5°♈31'13	
retrograde	-10119 Oct 19 j 21:16	22°♈46'01	
opposition	-10119 Dec 19 j 06:55	17°♈54'00	1°28'31
min. Earth dist.	-10119 Dec 20 j 03:34	17°♈47'23	4.34657 AU
direct	-10118 Feb 19 j 19:09	12°♈53'01	
	-10118 Jun 22 j 19:31	0°♉	
evening set	-10118 Jun 27 j 02:01	0°♉56'38	
max. Earth dist.	-10118 Jul 08 j 10:31	3°♉28'34	6.34162 AU
conjunction	-10118 Jul 09 j 16:30	3°♉45'21	1°20'14
minimum elong	-10118 Jul 09 j 16:25	3°♉45'18	1°20'30
morning rise	-10118 Jul 22 j 04:26	6°♉32'52	
	-10118 Aug 31 j 07:26	15°♉	
retrograde	-10118 Nov 21 j 00:09	23°♉58'52	
opposition	-10117 Jan 21 j 01:06	19°♉07'03	2°16'45
min. Earth dist.	-10117 Jan 21 j 22:18	19°♉00'21	4.32781 AU
	-10117 Feb 28 j 13:41	15°℞♉	
direct	-10117 Mar 24 j 10:24	14°♉09'08	
	-10117 Apr 17 j 05:49	15°♉	
	-10117 Jul 18 j 10:01	0°♊	
evening set	-10117 Jul 28 j 04:13	2°♊10'26	
max. Earth dist.	-10117 Aug 08 j 11:15	4°♊43'30	6.30154 AU
conjunction	-10117 Aug 09 j 13:13	4°♊58'12	1°39'59
minimum elong	-10117 Aug 09 j 13:12	4°♊58'11	1°40'28
morning rise	-10117 Aug 21 j 21:32	7°♊45'41	
retrograde	-10117 Dec 24 j 04:41	25°♊42'48	
opposition	-10116 Feb 23 j 16:13	20°♊49'14	2°25'28
min. Earth dist.	-10116 Feb 24 j 06:29	20°♊44'43	4.26965 AU
direct	-10116 Apr 25 j 06:18	15°♊54'09	
	-10116 Aug 09 j 13:18	0°♋	
evening set	-10116 Aug 27 j 12:06	4°♋01'35	
conjunction	-10116 Sep 08 j 22:28	6°♋52'42	1°30'06
minimum elong	-10116 Sep 08 j 22:32	6°♋52'44	1°30'41
max. Earth dist.	-10116 Sep 08 j 10:26	6°♋45'46	6.22999 AU
morning rise	-10116 Sep 21 j 09:46	9°♋44'29	
retrograde	-10115 Jan 26 j 18:30	28°♋24'37	
opposition	-10115 Mar 29 j 06:42	23°♋27'57	1°49'06
min. Earth dist.	-10115 Mar 29 j 10:01	23°♋26'53	4.18922 AU
direct	-10115 May 28 j 16:38	18°♋34'45	
	-10115 Aug 28 j 20:05	0°♌	
evening set	-10115 Sep 28 j 20:36	6°♌55'39	
conjunction	-10115 Oct 11 j 14:10	9°♌53'26	0°51'24
minimum elong	-10115 Oct 11 j 14:14	9°♌53'28	0°51'53
max. Earth dist.	-10115 Oct 11 j 17:57	9°♌55'38	6.14845 AU
morning rise	-10115 Oct 24 j 10:40	12°♌52'50	
	-10115 Nov 02 j 15:57	15°♌	
	-10114 Jan 23 j 12:28	0°♍	
retrograde	-10114 Mar 03 j 12:22	2°♍16'38	
	-10114 Apr 11 j 13:21	30°℞♌	
opposition	-10114 May 03 j 16:03	27°♌16'06	0°35'00
min. Earth dist.	-10114 May 03 j 05:52	27°♌19'27	4.11236 AU

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

direct	-10114 Jul 01 j 19:48	22°♌23'05		
	-10114 Sep 11 j 19:58	0°♍		
desc. node	-10114 Oct 08 j 00:10	5°♍22'53		
evening set	-10114 Nov 01 j 20:47	11°♍02'36		
conjunction	-10114 Nov 15 j 00:31	14°♍07'41	-0°05'44	
minimum elong	-10114 Nov 15 j 00:30	14°♍07'40	0°05'31	
behind sun begin	-10114 Nov 14 j 16:36	14°♍03'03		
behind sun end	-10114 Nov 15 j 08:24	14°♍12'17		
max. Earth dist.	-10114 Nov 15 j 23:16	14°♍21'02	6.08422 AU	
morning rise	-10114 Nov 28 j 07:39	17°♍14'40		
	-10113 Jan 27 j 10:18	0°♎		
retrograde	-10113 Apr 08 j 21:44	7°♎08'04		
opposition	-10113 Jun 08 j 08:21	2°♎04'21	-0°53'34	
min. Earth dist.	-10113 Jun 07 j 13:30	2°♎10'40	4.06690 AU	
	-10113 Jun 24 j 07:33	30°℞♍		
direct	-10113 Aug 05 j 16:09	27°♍09'36		
	-10113 Sep 16 j 12:31	0°♎		
evening set	-10113 Dec 07 j 16:51	16°♎07'54		
conjunction	-10113 Dec 21 j 04:34	19°♎17'25	-1°01'39	
minimum elong	-10113 Dec 21 j 04:29	19°♎17'21	1°01'46	
max. Earth dist.	-10113 Dec 22 j 12:40	19°♎36'13	6.06100 AU	
morning rise	-10112 Jan 03 j 19:33	22°♎28'32		
	-10112 Feb 06 j 08:46	0°♏		
retrograde	-10112 May 13 j 22:34	12°♏24'20		
opposition	-10112 Jul 12 j 15:53	7°♏19'18	-2°03'17	
min. Earth dist.	-10112 Jul 11 j 17:57	7°♏26'47	4.06944 AU	
direct	-10112 Sep 08 j 19:48	2°♏21'21		
	-10112 Dec 14 j 15:38	15°♏		
evening set	-10111 Jan 12 j 16:09	21°♏30'33		
conjunction	-10111 Jan 26 j 08:17	24°♏40'32	-1°35'08	
minimum elong	-10111 Jan 26 j 08:13	24°♏40'30	1°35'34	
max. Earth dist.	-10111 Jan 27 j 15:27	24°♏58'37	6.08753 AU	
morning rise	-10111 Feb 09 j 01:49	27°♏51'09		
	-10111 Feb 18 j 11:24	0°♐		
retrograde	-10111 Jun 18 j 00:02	17°♐19'31		
min. Earth dist.	-10111 Aug 15 j 11:44	12°♐21'02	4.11796 AU	
opposition	-10111 Aug 16 j 03:16	12°♐15'43	-2°27'28	
direct	-10111 Oct 13 j 22:36	7°♐14'24		
evening set	-10110 Feb 18 j 12:42	26°♐20'12		
conjunction	-10110 Mar 04 j 05:49	29°♐27'42	-1°34'04	
minimum elong	-10110 Mar 04 j 05:52	29°♐27'44	1°34'39	
max. Earth dist.	-10110 Mar 04 j 23:59	29°♐38'04	6.15310 AU	
	-10110 Mar 06 j 14:24	0°♑		
morning rise	-10110 Mar 17 j 22:19	2°♑34'45		
retrograde	-10110 Jul 21 j 13:13	21°♑16'40		
opposition	-10110 Sep 18 j 13:47	16°♑16'02	-1°59'58	
min. Earth dist.	-10110 Sep 18 j 07:53	16°♑18'02	4.19385 AU	
direct	-10110 Nov 17 j 11:05	11°♑12'23		
evening set	-10109 Mar 26 j 04:57	0°♒02'31		
	-10109 Mar 26 j 00:26	0°♒		
conjunction	-10109 Apr 08 j 19:26	3°♒05'43	-1°01'03	
minimum elong	-10109 Apr 08 j 19:32	3°♒05'46	1°01'34	
max. Earth dist.	-10109 Apr 08 j 17:33	3°♒04'39	6.23378 AU	
morning rise	-10109 Apr 22 j 07:40	6°♒07'36		
	-10109 Jun 03 j 06:04	15°♒		
retrograde	-10109 Aug 22 j 22:57	24°♒02'52		
opposition	-10109 Oct 21 j 04:14	19°♒06'07	-0°54'37	
min. Earth dist.	-10109 Oct 21 j 11:23	19°♒03'45	4.27114 AU	
	-10109 Nov 26 j 09:44	15°℞♒		
direct	-10109 Dec 21 j 08:42	14°♒01'52		
	-10108 Jan 15 j 13:34	15°♒		
	-10108 Apr 16 j 16:28	0°♓		
evening set	-10108 Apr 28 j 05:51	2°♓31'53		
conjunction	-10108 May 11 j 13:55	5°♓29'43	-0°09'28	
minimum elong	-10108 May 11 j 13:56	5°♓29'44	0°09'45	
behind sun begin	-10108 May 11 j 07:16	5°♓26'02		
behind sun end	-10108 May 11 j 20:36	5°♓33'25		
max. Earth dist.	-10108 May 10 j 19:53	5°♓19'41	6.30259 AU	
morning rise	-10108 May 24 j 18:25	8°♓25'45		
asc. node	-10108 Jul 18 j 21:43	19°♓35'41		
retrograde	-10108 Sep 22 j 13:26	25°♓49'59		
opposition	-10108 Nov 21 j 08:53	20°♓56'26	0°25'26	
min. Earth dist.	-10108 Nov 22 j 00:57	20°♓51'12	4.32602 AU	
direct	-10107 Jan 22 j 11:18	15°♓53'22		
	-10107 May 11 j 19:40	0°♈		
evening set	-10107 May 30 j 19:06	4°♈06'45		
conjunction	-10107 Jun 12 j 17:35	6°♈59'07	0°44'06	
minimum elong	-10107 Jun 12 j 17:31	6°♈59'05	0°44'06	
max. Earth dist.	-10107 Jun 11 j 12:31	6°♈42'55	6.33923 AU	
morning rise	-10107 Jun 25 j 12:48	9°♈49'49		
retrograde	-10107 Oct 24 j 05:54	27°♈05'57		
opposition	-10107 Dec 23 j 16:34	22°♈14'09	1°36'52	
min. Earth dist.	-10107 Dec 24 j 14:49	22°♈07'02	4.34270 AU	
direct	-10106 Feb 24 j 05:50	17°♈13'34		
	-10106 Jun 06 j 20:36	0°♉		
evening set	-10106 Jul 01 j 08:02	5°♉17'57		
conjunction	-10106 Jul 13 j 21:34	8°♉06'32	1°24'25	
minimum elong	-10106 Jul 13 j 21:30	8°♉06'30	1°24'44	
max. Earth dist.	-10106 Jul 12 j 14:31	7°♉49'08	6.33346 AU	
morning rise	-10106 Jul 26 j 08:50	10°♉54'04		
	-10106 Aug 14 j 01:52	15°♉		
retrograde	-10106 Nov 25 j 12:04	28°♉25'10		
opposition	-10105 Jan 25 j 14:40	23°♉33'13	2°20'28	
min. Earth dist.	-10105 Jan 26 j 10:49	23°♉26'50	4.31625 AU	
direct	-10105 Mar 28 j 20:32	18°♉35'42		
	-10105 Jul 01 j 19:57	0°♊		
evening set	-10105 Aug 01 j 11:45	6°♊39'28		
conjunction	-10105 Aug 13 j 20:41	9°♊27'42	1°40'22	
minimum elong	-10105 Aug 13 j 20:41	9°♊27'42	1°40'52	
max. Earth dist.	-10105 Aug 12 j 21:20	9°♊14'26	6.28750 AU	
morning rise	-10105 Aug 26 j 04:58	12°♊15'46		
	-10105 Dec 14 j 03:46	0°♋		
retrograde	-10105 Dec 29 j 00:06	0°♋20'16		
	-10104 Jan 12 j 19:36	30°℞♊		
opposition	-10104 Feb 28 j 10:57	25°♊26'24	2°23'01	
min. Earth dist.	-10104 Feb 29 j 00:13	25°♊22'12	4.25415 AU	
direct	-10104 Apr 29 j 21:17	20°♊31'42		
	-10104 Jul 22 j 19:00	0°♋		
evening set	-10104 Aug 31 j 23:35	8°♋42'18		
conjunction	-10104 Sep 13 j 10:36	11°♋34'23	1°26'11	
minimum elong	-10104 Sep 13 j 10:40	11°♋34'25	1°26'47	
max. Earth dist.	-10104 Sep 13 j 00:00	11°♋28'16	6.21436 AU	
morning rise	-10104 Sep 25 j 23:08	14°♋27'20		
	-10104 Dec 15 j 13:08	0°♌		
retrograde	-10103 Jan 31 j 18:22	3°♌15'13		
	-10103 Mar 20 j 18:04	30°℞♋		
opposition	-10103 Apr 03 j 06:01	28°♋17'57	1°40'29	
min. Earth dist.	-10103 Apr 03 j 06:11	28°♋17'54	4.17461 AU	
direct	-10103 Jun 02 j 10:20	23°♋24'54		
	-10103 Aug 08 j 16:51	0°♌		
evening set	-10103 Oct 03 j 13:40	11°♌48'54		
conjunction	-10103 Oct 16 j 08:46	14°♌47'51	0°44'01	
minimum elong	-10103 Oct 16 j 08:50	14°♌47'53	0°44'28	

Attention, astronomical year style is used: The year -10103 in astronomical counting style is the year 10104 BCE in historical counting style.

max. Earth dist.	-10103 Oct 16 j 17:29	14°♌52'56	6.13631 AU
	-10103 Oct 17 j 05:34	15°♌	
morning rise	-10103 Oct 29 j 06:40	17°♌48'26	
	-10103 Dec 25 j 20:15	0°♍	
retrograde	-10102 Mar 08 j 16:30	7°♍17'47	
opposition	-10102 May 08 j 17:42	2°♍16'41	0°22'32
min. Earth dist.	-10102 May 08 j 06:08	2°♍20'29	4.10365 AU
	-10102 May 26 j 18:42	30°℞♌	
direct	-10102 Jul 06 j 18:31	27°♌23'32	
	-10102 Aug 16 j 01:58	0°♍	
desc. node	-10102 Aug 17 j 01:17	0°♍07'17	
evening set	-10102 Nov 06 j 20:23	16°♍05'25	
conjunction	-10102 Nov 20 j 01:13	19°♍11'13	-0°14'15
minimum elong	-10102 Nov 20 j 01:11	19°♍11'12	0°14'05
behind sun begin	-10102 Nov 19 j 21:08	19°♍08'49	
behind sun end	-10102 Nov 20 j 05:15	19°♍13'34	
max. Earth dist.	-10102 Nov 21 j 01:23	19°♍25'24	6.07939 AU
morning rise	-10102 Dec 03 j 09:49	22°♍18'59	
	-10101 Jan 06 j 16:10	0°♎	
retrograde	-10101 Apr 13 j 23:25	12°♎13'39	
opposition	-10101 Jun 13 j 08:54	7°♎09'31	-1°05'20
min. Earth dist.	-10101 Jun 12 j 12:02	7°♎16'32	4.06642 AU
direct	-10101 Aug 10 j 14:50	2°♎14'20	
evening set	-10101 Dec 12 j 20:38	21°♎13'46	
conjunction	-10101 Dec 26 j 09:14	24°♎23'25	-1°08'08
minimum elong	-10101 Dec 26 j 09:08	24°♎23'22	1°08'19
max. Earth dist.	-10101 Dec 27 j 18:49	24°♎43'05	6.06448 AU
morning rise	-10100 Jan 09 j 00:39	27°♎34'32	
	-10100 Jan 19 j 13:17	0°♏	
	-10100 Apr 09 j 06:03	15°♏	
retrograde	-10100 May 18 j 22:43	17°♏27'05	
	-10100 Jun 27 j 05:57	15°℞♏	
opposition	-10100 Jul 17 j 13:27	12°♏22'01	-2°09'46
min. Earth dist.	-10100 Jul 16 j 16:45	12°♏29'05	4.07649 AU
direct	-10100 Sep 13 j 19:37	7°♏23'33	
	-10100 Nov 24 j 19:17	15°♏	
evening set	-10099 Jan 17 j 20:20	26°♏32'00	
conjunction	-10099 Jan 31 j 12:43	29°♏41'37	-1°37'09
minimum elong	-10099 Jan 31 j 12:40	29°♏41'36	1°37'37
	-10099 Feb 01 j 20:29	0°♐	
max. Earth dist.	-10099 Feb 01 j 18:53	29°♏59'05	6.09725 AU
morning rise	-10099 Feb 14 j 06:16	2°♐51'45	
retrograde	-10099 Jun 22 j 16:57	22°♐13'29	
opposition	-10099 Aug 20 j 20:24	17°♐10'01	-2°26'33
min. Earth dist.	-10099 Aug 20 j 05:18	17°♐15'11	4.12958 AU
direct	-10099 Oct 18 j 18:00	12°♐08'19	
	-10098 Feb 18 j 06:15	0°♑	
evening set	-10098 Feb 23 j 13:34	1°♑11'45	
conjunction	-10098 Mar 09 j 06:24	4°♑18'37	-1°31'10
minimum elong	-10098 Mar 09 j 06:28	4°♑18'39	1°31'45
max. Earth dist.	-10098 Mar 09 j 20:40	4°♑26'44	6.16566 AU
morning rise	-10098 Mar 22 j 22:32	7°♑24'57	
retrograde	-10098 Jul 26 j 02:56	25°♑59'32	
opposition	-10098 Sep 23 j 03:13	20°♑59'26	-1°52'41
min. Earth dist.	-10098 Sep 23 j 00:05	21°♑00'30	4.20606 AU
direct	-10098 Nov 22 j 06:03	15°♑55'34	
	-10097 Mar 09 j 10:48	0°♒	
evening set	-10097 Mar 31 j 00:10	4°♒42'40	
conjunction	-10097 Apr 13 j 14:11	7°♒45'11	-0°54'38
minimum elong	-10097 Apr 13 j 14:16	7°♒45'14	0°55'09
max. Earth dist.	-10097 Apr 13 j 10:36	7°♒43'10	6.24492 AU
morning rise	-10097 Apr 27 j 01:25	10°♒46'15	
	-10097 May 16 j 08:44	15°♒	
retrograde	-10097 Aug 27 j 07:45	28°♒36'03	
opposition	-10097 Oct 25 j 15:26	23°♒39'49	-0°43'52
min. Earth dist.	-10097 Oct 25 j 23:22	23°♒37'11	4.28031 AU
direct	-10097 Dec 25 j 22:40	18°♒35'38	
	-10096 Mar 30 j 15:53	0°♓	
evening set	-10096 May 02 j 19:54	7°♓03'11	
max. Earth dist.	-10096 May 15 j 05:18	9°♓48'21	6.30917 AU
conjunction	-10096 May 16 j 02:40	10°♓00'15	-0°01'48
minimum elong	-10096 May 16 j 02:39	10°♓00'14	0°02'04
behind sun begin	-10096 May 15 j 18:30	9°♓55'43	
behind sun end	-10096 May 16 j 10:48	10°♓04'46	
asc. node	-10096 May 28 j 19:09	12°♓49'30	
morning rise	-10096 May 29 j 06:05	12°♓55'32	
	-10096 Sep 13 j 12:18	0°♈	
retrograde	-10096 Sep 26 j 23:56	0°♈17'38	
	-10096 Oct 10 j 10:26	30°℞♓	
opposition	-10096 Nov 25 j 20:10	25°♓24'27	0°36'20
min. Earth dist.	-10096 Nov 26 j 14:25	25°♓18'31	4.32960 AU
direct	-10095 Jan 27 j 01:49	20°♓21'38	
	-10095 Apr 24 j 06:38	0°♈	
evening set	-10095 Jun 04 j 05:26	8°♈33'48	
max. Earth dist.	-10095 Jun 15 j 21:18	11°♈09'13	6.33947 AU
conjunction	-10095 Jun 17 j 02:44	11°♈25'36	0°50'48
minimum elong	-10095 Jun 17 j 02:40	11°♈25'34	0°50'50
morning rise	-10095 Jun 29 j 20:38	14°♈15'46	
	-10095 Sep 26 j 23:29	0°♉	
retrograde	-10095 Oct 28 j 15:49	1°♉33'13	
	-10095 Nov 29 j 14:59	30°℞♈	
opposition	-10095 Dec 28 j 05:28	26°♈41'32	1°44'59
min. Earth dist.	-10095 Dec 29 j 02:59	26°♈34'39	4.33996 AU
direct	-10094 Feb 28 j 17:14	21°♈41'23	
	-10094 May 19 j 15:52	0°♉	
evening set	-10094 Jul 05 j 16:53	9°♉45'52	
max. Earth dist.	-10094 Jul 16 j 23:11	12°♉17'15	6.32799 AU
conjunction	-10094 Jul 18 j 05:24	12°♉34'14	1°28'18
minimum elong	-10094 Jul 18 j 05:20	12°♉34'12	1°28'38
	-10094 Jul 29 j 01:09	15°♉	
morning rise	-10094 Jul 30 j 15:55	15°♉21'39	
	-10094 Oct 16 j 12:50	0°♊	
retrograde	-10094 Nov 30 j 04:12	2°♊56'54	
	-10093 Jan 14 j 16:42	30°℞♉	
opposition	-10093 Jan 30 j 07:04	28°♉04'52	2°23'29
min. Earth dist.	-10093 Jan 31 j 03:15	27°♉58'28	4.30857 AU
direct	-10093 Apr 02 j 11:38	23°♉07'50	
	-10093 Jun 12 j 12:45	0°♊	
evening set	-10093 Aug 05 j 20:52	11°♊12'24	
max. Earth dist.	-10093 Aug 17 j 07:34	13°♊48'21	6.27833 AU
conjunction	-10093 Aug 18 j 05:41	14°♊00'57	1°40'13
minimum elong	-10093 Aug 18 j 05:41	14°♊00'57	1°40'45
morning rise	-10093 Aug 30 j 14:14	16°♊49'29	
	-10093 Nov 04 j 10:33	0°♋	
retrograde	-10092 Jan 02 j 18:19	4°♋59'38	
opposition	-10092 Mar 04 j 06:40	0°♋05'21	2°19'41
	-10092 Mar 04 j 23:31	30°℞♊	
min. Earth dist.	-10092 Mar 04 j 17:08	0°♋02'02	4.24431 AU
direct	-10092 May 04 j 11:58	25°♊11'01	
	-10092 Jul 01 j 03:43	0°♋	
evening set	-10092 Sep 05 j 11:13	13°♋22'47	
conjunction	-10092 Sep 17 j 23:07	16°♋15'37	1°21'48
minimum elong	-10092 Sep 17 j 23:12	16°♋15'40	1°22'22
max. Earth dist.	-10092 Sep 17 j 16:32	16°♋11'49	6.20490 AU

Attention, astronomical year style is used: The year -10092 in astronomical counting style is the year 10093 BCE in historical counting style.

morning rise	-10092 Sep 30 j 12:31	19°♋09'25	
	-10092 Nov 20 j 12:48	0°♌	
retrograde	-10091 Feb 05 j 17:55	8°♌02'43	
opposition	-10091 Apr 08 j 04:04	3°♌04'57	1°31'16
min. Earth dist.	-10091 Apr 08 j 03:11	3°♌05'14	4.16606 AU
	-10091 May 04 j 02:09	30°℞♋	
direct	-10091 Jun 07 j 05:35	28°♋12'02	
	-10091 Jul 10 j 22:46	0°♌	
	-10091 Oct 01 j 05:00	15°♌	
evening set	-10091 Oct 08 j 05:37	16°♌37'22	
conjunction	-10091 Oct 21 j 01:53	19°♌37'10	0°36'29
minimum elong	-10091 Oct 21 j 01:56	19°♌37'12	0°36'55
max. Earth dist.	-10091 Oct 21 j 12:11	19°♌43'11	6.12951 AU
morning rise	-10091 Nov 03 j 01:23	22°♌38'45	
	-10091 Dec 05 j 23:11	0°♍	
retrograde	-10090 Mar 13 j 15:08	12°♍11'36	
opposition	-10090 May 13 j 15:57	7°♍10'00	0°10'15
min. Earth dist.	-10090 May 13 j 01:54	7°♍14'38	4.09914 AU
desc. node	-10090 Jun 28 j 01:22	2°♍35'05	
direct	-10090 Jul 11 j 12:59	2°♍16'41	
evening set	-10090 Nov 11 j 17:02	21°♍00'01	
conjunction	-10090 Nov 24 j 23:10	24°♍06'25	-0°22'25
minimum elong	-10090 Nov 24 j 23:07	24°♍06'24	0°22'18
max. Earth dist.	-10090 Nov 26 j 01:46	24°♍22'03	6.07749 AU
morning rise	-10090 Dec 08 j 08:47	27°♍14'44	
	-10090 Dec 20 j 07:21	0°♎	
retrograde	-10089 Apr 18 j 23:37	17°♎09'54	
min. Earth dist.	-10089 Jun 17 j 09:24	12°♎12'21	4.06723 AU
opposition	-10089 Jun 18 j 05:42	12°♎05'30	-1°16'14
direct	-10089 Aug 15 j 11:48	7°♎09'54	
evening set	-10089 Dec 17 j 21:06	26°♎10'28	
conjunction	-10089 Dec 31 j 10:22	29°♎20'14	-1°13'56
minimum elong	-10089 Dec 31 j 10:16	29°♎20'11	1°14'10
max. Earth dist.	-10088 Jan 01 j 19:51	29°♎39'48	6.06772 AU
	-10088 Jan 03 j 06:25	0°♏	
morning rise	-10088 Jan 14 j 02:20	2°♏31'23	
	-10088 Mar 12 j 19:55	15°♏	
retrograde	-10088 May 23 j 17:47	22°♏20'50	
min. Earth dist.	-10088 Jul 21 j 10:22	17°♏22'57	4.08208 AU
opposition	-10088 Jul 22 j 07:00	17°♏15'54	-2°15'09
	-10088 Aug 08 j 12:42	15°℞♏	
direct	-10088 Sep 18 j 13:04	12°♏17'00	
	-10088 Oct 29 j 16:46	15°♏	
	-10087 Jan 16 j 15:39	0°♐	
evening set	-10087 Jan 22 j 21:33	1°♐25'39	
conjunction	-10087 Feb 05 j 14:05	4°♐35'02	-1°38'25
minimum elong	-10087 Feb 05 j 14:03	4°♐35'01	1°38'55
max. Earth dist.	-10087 Feb 06 j 16:58	4°♐50'33	6.10450 AU
morning rise	-10087 Feb 19 j 07:43	7°♐44'48	
retrograde	-10087 Jun 27 j 08:45	27°♐01'10	
opposition	-10087 Aug 25 j 10:56	21°♐58'06	-2°24'42
min. Earth dist.	-10087 Aug 24 j 22:07	22°♐02'29	4.13770 AU
direct	-10087 Oct 23 j 12:46	16°♐55'59	
	-10086 Feb 01 j 08:35	0°♑	
evening set	-10086 Feb 28 j 11:59	5°♑58'27	
conjunction	-10086 Mar 14 j 04:53	9°♑04'59	-1°27'42
minimum elong	-10086 Mar 14 j 04:57	9°♑05'01	1°28'16
max. Earth dist.	-10086 Mar 14 j 17:40	9°♑12'15	6.17419 AU
morning rise	-10086 Mar 27 j 20:29	12°♑10'46	
	-10086 Jul 10 j 14:36	0°♒	
retrograde	-10086 Jul 30 j 15:01	0°♒39'43	
	-10086 Aug 19 j 12:29	30°℞♑	
opposition	-10086 Sep 27 j 15:29	25°♑40'12	-1°44'48
min. Earth dist.	-10086 Sep 27 j 13:26	25°♑40'53	4.21419 AU
direct	-10086 Nov 26 j 21:18	20°♑36'12	
	-10085 Feb 19 j 06:19	0°♒	
evening set	-10085 Apr 04 j 18:35	9°♒21'43	
conjunction	-10085 Apr 18 j 07:46	12°♒23'41	-0°47'55
minimum elong	-10085 Apr 18 j 07:50	12°♒23'43	0°48'23
max. Earth dist.	-10085 Apr 18 j 00:06	12°♒19'23	6.25214 AU
	-10085 Apr 29 j 22:59	15°♒	
morning rise	-10085 May 01 j 18:20	15°♒24'09	
	-10085 Jul 17 j 12:57	0°♓	
retrograde	-10085 Aug 31 j 19:02	3°♓10'01	
	-10085 Oct 16 j 11:42	30°℞♒	
opposition	-10085 Oct 30 j 02:58	28°♒14'15	-0°32'52
min. Earth dist.	-10085 Oct 30 j 13:03	28°♒10'55	4.28608 AU
direct	-10085 Dec 30 j 14:15	23°♒10'08	
	-10084 Mar 10 j 21:30	0°♓	
asc. node	-10084 Apr 07 j 13:29	5°♓13'15	
evening set	-10084 May 07 j 10:06	11°♓36'13	
conjunction	-10084 May 20 j 15:51	14°♓32'40	0°06'01
minimum elong	-10084 May 20 j 15:50	14°♓32'39	0°05'47
behind sun begin	-10084 May 20 j 08:04	14°♓28'21	
behind sun end	-10084 May 20 j 23:36	14°♓36'58	
max. Earth dist.	-10084 May 19 j 18:27	14°♓20'45	6.31326 AU
morning rise	-10084 Jun 02 j 17:53	17°♓27'16	
	-10084 Aug 05 j 10:19	0°♈	
retrograde	-10084 Oct 01 j 09:17	4°♈47'57	
	-10084 Nov 29 j 16:58	30°℞♓	
opposition	-10084 Nov 30 j 08:13	29°♓55'03	0°47'06
min. Earth dist.	-10084 Dec 01 j 02:12	29°♓49'14	4.33190 AU
direct	-10083 Jan 31 j 14:16	24°♓52'35	
	-10083 Apr 02 j 21:03	0°♈	
evening set	-10083 Jun 08 j 16:26	13°♈03'38	
max. Earth dist.	-10083 Jun 20 j 05:39	15°♈37'45	6.33969 AU
conjunction	-10083 Jun 21 j 12:15	15°♈54'49	0°57'14
minimum elong	-10083 Jun 21 j 12:10	15°♈54'46	0°57'20
morning rise	-10083 Jul 04 j 05:05	18°♈44'28	
	-10083 Aug 28 j 23:56	0°♉	
retrograde	-10083 Nov 02 j 05:06	6°♉03'10	
opposition	-10082 Jan 01 j 19:40	1°♉11'30	1°52'31
min. Earth dist.	-10082 Jan 02 j 17:55	1°♉04'24	4.33819 AU
	-10082 Jan 11 j 05:57	30°℞♈	
direct	-10082 Mar 05 j 08:09	26°♈11'43	
	-10082 Apr 26 j 09:43	0°♉	
evening set	-10082 Jul 10 j 01:41	14°♉15'28	
	-10082 Jul 13 j 09:22	15°♉	
max. Earth dist.	-10082 Jul 21 j 08:45	16°♉47'27	6.32413 AU
conjunction	-10082 Jul 22 j 13:26	17°♉03'35	1°31'41
minimum elong	-10082 Jul 22 j 13:22	17°♉03'33	1°32'03
morning rise	-10082 Aug 03 j 23:12	19°♉50'50	
	-10082 Sep 21 j 21:24	0°♊	
retrograde	-10082 Dec 04 j 17:35	7°♊29'29	
opposition	-10081 Feb 03 j 23:28	2°♊37'10	2°25'38
min. Earth dist.	-10081 Feb 04 j 17:37	2°♊31'25	4.30296 AU
	-10081 Feb 25 j 19:17	30°℞♉	
direct	-10081 Apr 07 j 00:40	27°♉40'31	
	-10081 May 16 j 20:31	0°♊	
evening set	-10081 Aug 10 j 05:43	15°♊44'58	
conjunction	-10081 Aug 22 j 14:27	18°♊33'45	1°39'29
minimum elong	-10081 Aug 22 j 14:28	18°♊33'46	1°40'02
max. Earth dist.	-10081 Aug 21 j 18:24	18°♊22'19	6.27121 AU
morning rise	-10081 Sep 03 j 23:11	21°♊22'40	

Attention, astronomical year style is used: The year -10081 in astronomical counting style is the year 10082 BCE in historical counting style.

	-10081 Oct 14 j 02:16	0°♋	
retrograde	-10080 Jan 07 j 13:43	9°♋37'38	
opposition	-10080 Mar 09 j 01:39	4°♋42'55	2°15'30
min. Earth dist.	-10080 Mar 09 j 11:41	4°♋39'43	4.23587 AU
	-10080 Apr 28 j 07:02	30°℞♊	
direct	-10080 May 09 j 04:54	29°♊48'47	
	-10080 May 20 j 01:54	0°♋	
evening set	-10080 Sep 09 j 22:05	18°♋01'19	
conjunction	-10080 Sep 22 j 10:51	20°♋54'55	1°16'56
minimum elong	-10080 Sep 22 j 10:56	20°♋54'58	1°17'29
max. Earth dist.	-10080 Sep 22 j 05:45	20°♋51'58	6.19586 AU
morning rise	-10080 Oct 05 j 01:30	23°♋49'38	
	-10080 Nov 01 j 17:39	0°♌	
retrograde	-10079 Feb 10 j 14:02	12°♌48'08	
opposition	-10079 Apr 13 j 00:55	7°♌49'48	1°21'33
min. Earth dist.	-10079 Apr 12 j 21:30	7°♌50'55	4.15703 AU
direct	-10079 Jun 11 j 21:35	2°♌56'54	
	-10079 Sep 14 j 11:07	15°♌	
evening set	-10079 Oct 12 j 20:59	21°♌24'02	
conjunction	-10079 Oct 25 j 18:39	24°♌24'48	0°28'46
minimum elong	-10079 Oct 25 j 18:42	24°♌24'50	0°29'09
max. Earth dist.	-10079 Oct 26 j 07:34	24°♌32'21	6.12135 AU
morning rise	-10079 Nov 07 j 19:31	27°♌27'22	
	-10079 Nov 18 j 20:50	0°♍	
retrograde	-10078 Mar 18 j 16:03	17°♍04'22	
desc. node	-10078 May 09 j 08:59	13°♍14'34	
opposition	-10078 May 18 j 13:43	12°♍02'17	-0°02'05
min. Earth dist.	-10078 May 17 j 23:28	12°♍07'00	4.09240 AU
direct	-10078 Jul 16 j 09:04	7°♍08'41	
evening set	-10078 Nov 16 j 14:23	25°♍54'36	
conjunction	-10078 Nov 29 j 21:40	29°♍01'43	-0°30'27
minimum elong	-10078 Nov 29 j 21:37	29°♍01'41	0°30'21
max. Earth dist.	-10078 Dec 01 j 01:30	29°♍18'03	6.07278 AU
	-10078 Dec 04 j 00:59	0°♎	
morning rise	-10078 Dec 13 j 08:30	2°♎10'44	
retrograde	-10077 Apr 23 j 22:43	22°♎07'08	
min. Earth dist.	-10077 Jun 22 j 05:31	17°♎09'38	4.06526 AU
opposition	-10077 Jun 23 j 02:32	17°♎02'32	-1°26'40
direct	-10077 Aug 20 j 06:29	12°♎06'30	
	-10077 Dec 17 j 23:07	0°♏	
evening set	-10077 Dec 22 j 23:13	1°♏09'28	
conjunction	-10076 Jan 05 j 13:06	4°♏19'28	-1°19'15
minimum elong	-10076 Jan 05 j 13:00	4°♏19'25	1°19'31
max. Earth dist.	-10076 Jan 06 j 21:19	4°♏38'17	6.06833 AU
morning rise	-10076 Jan 19 j 05:38	7°♏30'45	
	-10076 Feb 21 j 17:52	15°♏	
retrograde	-10076 May 28 j 14:51	27°♏18'01	
min. Earth dist.	-10076 Jul 26 j 06:43	22°♏19'48	4.08519 AU
opposition	-10076 Jul 27 j 02:07	22°♏13'10	-2°19'40
direct	-10076 Sep 23 j 10:29	17°♏13'45	
	-10076 Dec 30 j 09:10	0°♐	
evening set	-10075 Jan 28 j 00:41	6°♐23'22	
conjunction	-10075 Feb 10 j 17:40	9°♐32'40	-1°39'01
minimum elong	-10075 Feb 10 j 17:40	9°♐32'39	1°39'33
max. Earth dist.	-10075 Feb 11 j 20:19	9°♐48'01	6.10984 AU
morning rise	-10075 Feb 24 j 11:09	12°♐42'08	
	-10075 May 28 j 18:28	0°♑	
retrograde	-10075 Jul 02 j 03:11	1°♑53'32	
	-10075 Aug 05 j 03:49	30°℞♐	
opposition	-10075 Aug 30 j 03:40	26°♐50'56	-2°21'51
min. Earth dist.	-10075 Aug 29 j 16:01	26°♐54'54	4.14470 AU
direct	-10075 Oct 28 j 08:09	21°♐48'31	

	-10074 Jan 13 j 00:47	0°♑	
evening set	-10074 Mar 05 j 13:02	10°♑50'13	
conjunction	-10074 Mar 19 j 05:35	13°♑56'20	-1°23'34
minimum elong	-10074 Mar 19 j 05:40	13°♑56'23	1°24'09
max. Earth dist.	-10074 Mar 19 j 14:31	14°♑01'24	6.18229 AU
morning rise	-10074 Apr 01 j 20:55	17°♑01'39	
	-10074 Jun 04 j 23:41	0°♒	
retrograde	-10074 Aug 04 j 05:34	5°♒24'59	
opposition	-10074 Oct 02 j 06:13	0°♒26'00	-1°36'05
min. Earth dist.	-10074 Oct 02 j 05:53	0°♒26'07	4.22263 AU
	-10074 Oct 05 j 11:26	30°℞♑	
direct	-10074 Dec 01 j 16:22	25°♑21'54	
	-10073 Jan 27 j 12:18	0°♒	
evening set	-10073 Apr 09 j 15:04	14°♒05'32	
	-10073 Apr 13 j 16:51	15°♒	
conjunction	-10073 Apr 23 j 03:36	17°♒06'53	-0°40'46
minimum elong	-10073 Apr 23 j 03:40	17°♒06'55	0°41'12
max. Earth dist.	-10073 Apr 22 j 19:23	17°♒02'17	6.26075 AU
morning rise	-10073 May 06 j 13:02	20°♒06'36	
	-10073 Jun 23 j 02:03	0°♓	
retrograde	-10073 Sep 05 j 07:08	7°♓48'02	
opposition	-10073 Nov 03 j 16:39	2°♓52'49	-0°21'30
min. Earth dist.	-10073 Nov 04 j 03:19	2°♓49'18	4.29420 AU
	-10073 Nov 26 j 23:52	30°℞♒	
direct	-10072 Jan 04 j 06:35	27°♒48'56	
	-10072 Feb 11 j 22:12	0°♓	
asc. node	-10072 Feb 16 j 00:16	0°♓27'38	
evening set	-10072 May 12 j 01:36	16°♓12'27	
max. Earth dist.	-10072 May 24 j 06:17	18°♓54'55	6.32038 AU
conjunction	-10072 May 25 j 05:53	19°♓08'03	0°13'44
minimum elong	-10072 May 25 j 05:51	19°♓08'02	0°13'33
behind sun begin	-10072 May 25 j 01:24	19°♓05'34	
behind sun end	-10072 May 25 j 10:19	19°♓10'30	
morning rise	-10072 Jun 07 j 06:46	22°♓01'51	
	-10072 Jul 15 j 02:01	0°♈	
retrograde	-10072 Oct 05 j 21:08	9°♈20'21	
opposition	-10072 Dec 04 j 21:52	4°♈27'43	0°57'38
min. Earth dist.	-10072 Dec 05 j 16:49	4°♈21'36	4.33765 AU
	-10071 Jan 16 j 18:38	30°℞♓	
direct	-10071 Feb 05 j 06:10	29°♓25'35	
	-10071 Feb 24 j 20:42	0°♈	
evening set	-10071 Jun 13 j 03:26	17°♈34'07	
conjunction	-10071 Jun 25 j 22:01	20°♈24'34	1°03'19
minimum elong	-10071 Jun 25 j 21:56	20°♈24'31	1°03'27
max. Earth dist.	-10071 Jun 24 j 17:00	20°♈08'23	6.34360 AU
morning rise	-10071 Jul 08 j 13:24	23°♈13'30	
	-10071 Aug 09 j 06:47	0°♉	
retrograde	-10071 Nov 06 j 15:32	10°♉32'23	
opposition	-10070 Jan 06 j 09:36	5°♉40'45	1°59'18
min. Earth dist.	-10070 Jan 07 j 06:50	5°♉34'00	4.34010 AU
direct	-10070 Mar 09 j 21:19	0°♉41'28	
	-10070 Jun 27 j 11:08	15°♉	
evening set	-10070 Jul 14 j 09:49	18°♉43'17	
conjunction	-10070 Jul 26 j 20:32	21°♉31'00	1°34'27
minimum elong	-10070 Jul 26 j 20:29	21°♉30'58	1°34'51
max. Earth dist.	-10070 Jul 25 j 15:48	21°♉14'49	6.32365 AU
morning rise	-10070 Aug 08 j 05:48	24°♉18'01	
	-10070 Sep 03 j 10:30	0°♊	
retrograde	-10070 Dec 09 j 08:01	11°♊59'11	
opposition	-10069 Feb 08 j 14:53	7°♊06'38	2°26'48
min. Earth dist.	-10069 Feb 09 j 09:06	7°♊00'52	4.29998 AU
direct	-10069 Apr 11 j 15:10	2°♊10'21	

Attention, astronomical year style is used: The year -10069 in astronomical counting style is the year 10070 BCE in historical counting style.

evening set	-10069 Aug 14 j 12:42	20°♊13'56	
conjunction	-10069 Aug 26 j 21:38	23°♊02'59	1°38'08
minimum elong	-10069 Aug 26 j 21:40	23°♊03'00	1°38'41
max. Earth dist.	-10069 Aug 26 j 03:17	22°♊52'30	6.26594 AU
morning rise	-10069 Sep 08 j 06:41	25°♊52'16	
	-10069 Sep 26 j 19:04	0°♋	
retrograde	-10068 Jan 12 j 04:39	14°♋11'36	
opposition	-10068 Mar 13 j 18:38	9°♋16'27	2°10'29
min. Earth dist.	-10068 Mar 14 j 02:41	9°♋13'53	4.22856 AU
direct	-10068 May 13 j 17:48	4°♋22'37	
evening set	-10068 Sep 14 j 07:19	22°♋35'49	
conjunction	-10068 Sep 26 j 20:58	25°♋30'12	1°11'39
minimum elong	-10068 Sep 26 j 21:03	25°♋30'15	1°12'12
max. Earth dist.	-10068 Sep 26 j 17:23	25°♋28'07	6.18720 AU
morning rise	-10068 Oct 09 j 12:45	28°♋25'48	
	-10068 Oct 16 j 09:22	0°♌	
	-10067 Jan 05 j 09:52	15°♌	
retrograde	-10067 Feb 15 j 10:45	17°♌29'36	
	-10067 Mar 28 j 16:31	15°℞♌	
opposition	-10067 Apr 17 j 19:40	12°♌30'47	1°11'27
min. Earth dist.	-10067 Apr 17 j 15:51	12°♌32'02	4.14736 AU
direct	-10067 Jun 16 j 13:48	7°♌37'51	
	-10067 Aug 26 j 16:19	15°♌	
evening set	-10067 Oct 17 j 11:12	26°♌07'30	
conjunction	-10067 Oct 30 j 10:15	29°♌09'17	0°20'59
minimum elong	-10067 Oct 30 j 10:18	29°♌09'18	0°21'19
max. Earth dist.	-10067 Oct 31 j 00:46	29°♌17'46	6.11180 AU
	-10067 Nov 03 j 00:53	0°♍	
morning rise	-10067 Nov 12 j 12:38	2°♍12'57	
desc. node	-10066 Mar 21 j 09:11	21°♍54'04	
retrograde	-10066 Mar 23 j 14:31	21°♍54'33	
opposition	-10066 May 23 j 09:38	16°♍52'05	-0°14'13
min. Earth dist.	-10066 May 22 j 18:10	16°♍57'13	4.08396 AU
direct	-10066 Jul 21 j 00:52	11°♍58'16	
	-10066 Nov 18 j 01:01	0°♎	
evening set	-10066 Nov 21 j 11:14	0°♎47'52	
conjunction	-10066 Dec 04 j 19:38	3°♎55'46	-0°38'08
minimum elong	-10066 Dec 04 j 19:34	3°♎55'43	0°38'07
max. Earth dist.	-10066 Dec 05 j 23:29	4°♎12'07	6.06612 AU
morning rise	-10066 Dec 18 j 07:38	7°♎05'32	
retrograde	-10065 Apr 28 j 21:28	27°♎04'05	
opposition	-10065 Jun 27 j 22:46	21°♎59'17	-1°36'22
min. Earth dist.	-10065 Jun 27 j 01:46	22°♎06'24	4.06117 AU
direct	-10065 Aug 25 j 02:05	17°♎02'48	
	-10065 Nov 30 j 20:49	0°♏	
evening set	-10065 Dec 28 j 01:24	6°♏09'04	
conjunction	-10064 Jan 10 j 16:08	9°♏19'26	-1°23'55
minimum elong	-10064 Jan 10 j 16:03	9°♏19'22	1°24'13
max. Earth dist.	-10064 Jan 12 j 01:38	9°♏38'59	6.06727 AU
morning rise	-10064 Jan 24 j 09:00	12°♏30'53	
	-10064 Feb 04 j 04:46	15°♏	
	-10064 Apr 25 j 13:46	0°♐	
retrograde	-10064 Jun 02 j 13:14	2°♐16'12	
	-10064 Jul 10 j 02:48	30°℞♏	
opposition	-10064 Jul 31 j 21:09	27°♏11'34	-2°23'05
min. Earth dist.	-10064 Jul 31 j 02:26	27°♏17'58	4.08755 AU
direct	-10064 Sep 28 j 06:54	22°♏11'43	
	-10064 Dec 10 j 17:32	0°♐	
evening set	-10063 Feb 02 j 04:32	11°♐22'27	
conjunction	-10063 Feb 15 j 21:34	14°♐31'35	-1°38'51
minimum elong	-10063 Feb 15 j 21:35	14°♐31'35	1°39'23
max. Earth dist.	-10063 Feb 16 j 21:34	14°♐45'23	6.11528 AU
morning rise	-10063 Mar 01 j 15:11	17°♐40'48	
	-10063 Apr 29 j 14:22	0°♑	
retrograde	-10063 Jul 06 j 20:06	6°♑46'49	
opposition	-10063 Sep 03 j 20:25	1°♑44'34	-2°17'56
min. Earth dist.	-10063 Sep 03 j 09:35	1°♑48'16	4.15268 AU
	-10063 Sep 16 j 21:45	30°℞♐	
direct	-10063 Nov 02 j 04:34	26°♐41'45	
	-10063 Dec 18 j 18:02	0°♑	
evening set	-10062 Mar 10 j 13:37	15°♑41'57	
conjunction	-10062 Mar 24 j 06:00	18°♑47'34	-1°18'50
minimum elong	-10062 Mar 24 j 06:05	18°♑47'37	1°19'25
max. Earth dist.	-10062 Mar 24 j 14:00	18°♑52'06	6.19237 AU
morning rise	-10062 Apr 06 j 20:39	21°♑52'11	
	-10062 May 14 j 16:03	0°♒	
retrograde	-10062 Aug 08 j 19:52	10°♒09'01	
opposition	-10062 Oct 06 j 20:37	5°♒10'31	-1°26'44
min. Earth dist.	-10062 Oct 06 j 21:47	5°♒10'08	4.23348 AU
direct	-10062 Dec 06 j 11:00	0°♒06'18	
	-10061 Mar 28 j 03:27	15°♒	
evening set	-10061 Apr 14 j 10:09	18°♒46'43	
conjunction	-10061 Apr 27 j 21:41	21°♒47'14	-0°33'24
minimum elong	-10061 Apr 27 j 21:44	21°♒47'16	0°33'49
max. Earth dist.	-10061 Apr 27 j 10:44	21°♒41'07	6.27133 AU
morning rise	-10061 May 11 j 06:09	24°♒46'06	
	-10061 Jun 04 j 08:58	0°♓	
retrograde	-10061 Sep 09 j 17:04	12°♓22'34	
opposition	-10061 Nov 08 j 05:11	7°♓27'40	-0°10'06
min. Earth dist.	-10061 Nov 08 j 17:01	7°♓23'46	4.30345 AU
asc. node	-10061 Dec 27 j 04:03	2°♓39'05	
direct	-10060 Jan 08 j 22:20	2°♓23'51	
evening set	-10060 May 16 j 15:09	20°♓44'20	
conjunction	-10060 May 29 j 18:08	23°♓39'04	0°21'19
minimum elong	-10060 May 29 j 18:06	23°♓39'03	0°21'11
max. Earth dist.	-10060 May 28 j 18:17	23°♓25'48	6.32744 AU
morning rise	-10060 Jun 11 j 17:31	26°♓31'59	
	-10060 Jun 27 j 15:09	0°♈	
retrograde	-10060 Oct 10 j 06:37	13°♈48'33	
opposition	-10060 Dec 09 j 10:00	8°♈56'09	1°07'43
min. Earth dist.	-10060 Dec 10 j 05:36	8°♈49'50	4.34193 AU
direct	-10059 Feb 09 j 20:08	3°♈54'21	
evening set	-10059 Jun 17 j 12:58	22°♈00'58	
max. Earth dist.	-10059 Jun 28 j 23:13	24°♈33'33	6.34437 AU
conjunction	-10059 Jun 30 j 06:07	24°♈50'47	1°09'01
minimum elong	-10059 Jun 30 j 06:02	24°♈50'44	1°09'12
morning rise	-10059 Jul 12 j 20:32	27°♈39'14	
	-10059 Jul 23 j 12:28	0°♉	
retrograde	-10059 Nov 11 j 03:27	14°♉59'42	
opposition	-10058 Jan 10 j 23:26	10°♉08'01	2°05'29
min. Earth dist.	-10058 Jan 11 j 21:05	10°♉01'07	4.33747 AU
direct	-10058 Mar 14 j 10:49	5°♉09'04	
	-10058 Jun 10 j 05:13	15°♉	
evening set	-10058 Jul 18 j 17:29	23°♉10'31	
max. Earth dist.	-10058 Jul 30 j 00:46	25°♉43'00	6.31766 AU
conjunction	-10058 Jul 31 j 03:42	25°♉58'11	1°36'44
minimum elong	-10058 Jul 31 j 03:39	25°♉58'10	1°37'11
morning rise	-10058 Aug 12 j 12:22	28°♉45'14	
	-10058 Aug 18 j 02:21	0°♊	
retrograde	-10058 Dec 13 j 22:25	16°♊30'56	
opposition	-10057 Feb 13 j 07:27	11°♊38'09	2°27'15
min. Earth dist.	-10057 Feb 14 j 00:23	11°♊32'47	4.29113 AU
direct	-10057 Apr 16 j 04:46	6°♊42'17	

Attention, astronomical year style is used: The year -10057 in astronomical counting style is the year 10058 BCE in historical counting style.

evening set	-10057 Aug 18 j 21:47	24°♊47'02	
conjunction	-10057 Aug 31 j 06:51	27°♊36'37	1°36'12
minimum elong	-10057 Aug 31 j 06:53	27°♊36'38	1°36'46
max. Earth dist.	-10057 Aug 30 j 13:03	27°♊26'26	6.25485 AU
	-10057 Sep 10 j 17:46	0°♋	
morning rise	-10057 Sep 12 j 16:33	0°♋26'37	
retrograde	-10056 Jan 17 j 01:33	18°♋52'26	
opposition	-10056 Mar 18 j 14:45	13°♋56'50	2°04'37
min. Earth dist.	-10056 Mar 18 j 21:45	13°♋54'36	4.21584 AU
direct	-10056 May 18 j 10:26	9°♋03'11	
evening set	-10056 Sep 18 j 20:13	27°♋18'58	
	-10056 Sep 30 j 10:17	0°♌	
conjunction	-10056 Oct 01 j 11:09	0°♌14'26	1°05'45
minimum elong	-10056 Oct 01 j 11:14	0°♌14'29	1°06'17
max. Earth dist.	-10056 Oct 01 j 10:31	0°♌14'04	6.17421 AU
morning rise	-10056 Oct 14 j 04:16	3°♌11'14	
	-10056 Dec 09 j 02:44	15°♌	
retrograde	-10055 Feb 20 j 11:36	22°♌21'42	
opposition	-10055 Apr 22 j 18:55	17°♌22'26	1°00'29
min. Earth dist.	-10055 Apr 22 j 13:03	17°♌24'21	4.13523 AU
	-10055 May 11 j 20:43	15°℞♌	
direct	-10055 Jun 21 j 07:53	12°♌29'36	
	-10055 Jul 31 j 02:29	15°♌	
	-10055 Oct 17 j 18:44	0°♍	
evening set	-10055 Oct 22 j 06:35	1°♍02'36	
conjunction	-10055 Nov 04 j 06:58	4°♍05'28	0°12'43
minimum elong	-10055 Nov 04 j 06:59	4°♍05'28	0°13'02
behind sun begin	-10055 Nov 04 j 02:02	4°♍02'35	
behind sun end	-10055 Nov 04 j 11:55	4°♍08'22	
max. Earth dist.	-10055 Nov 04 j 23:10	4°♍14'57	6.10174 AU
morning rise	-10055 Nov 17 j 10:55	7°♍10'16	
desc. node	-10054 Jan 28 j 22:26	21°♍57'35	
retrograde	-10054 Mar 28 j 17:11	26°♍56'29	
opposition	-10054 May 28 j 10:18	21°♍53'36	-0°26'46
min. Earth dist.	-10054 May 27 j 17:14	21°♍59'18	4.07715 AU
direct	-10054 Jul 25 j 22:50	16°♍59'36	
	-10054 Oct 31 j 18:31	0°♎	
evening set	-10054 Nov 26 j 13:08	5°♎52'13	
conjunction	-10054 Dec 09 j 22:46	9°♎00'43	-0°45'53
minimum elong	-10054 Dec 09 j 22:42	9°♎00'40	0°45'54
max. Earth dist.	-10054 Dec 11 j 06:01	9°♎19'04	6.06354 AU
morning rise	-10054 Dec 23 j 11:37	12°♎10'59	
	-10053 Mar 27 j 17:39	0°♏	
retrograde	-10053 May 04 j 00:02	2°♏09'18	
	-10053 Jun 09 j 21:36	30°℞♎	
opposition	-10053 Jul 02 j 22:08	27°♎04'26	-1°45'37
min. Earth dist.	-10053 Jul 02 j 00:50	27°♎11'40	4.06367 AU
direct	-10053 Aug 30 j 01:26	22°♎07'38	
	-10053 Nov 11 j 03:22	0°♏	
evening set	-10052 Jan 02 j 06:37	11°♏14'33	
conjunction	-10052 Jan 15 j 21:39	14°♏24'44	-1°28'05
minimum elong	-10052 Jan 15 j 21:34	14°♏24'41	1°28'26
max. Earth dist.	-10052 Jan 17 j 06:09	14°♏43'39	6.07441 AU
	-10052 Jan 18 j 10:14	15°♏	
morning rise	-10052 Jan 29 j 14:57	17°♏35'57	
	-10052 Mar 28 j 04:04	0°♐	
retrograde	-10052 Jun 07 j 08:55	7°♐15'43	
opposition	-10052 Aug 05 j 16:36	2°♐11'15	-2°25'26
min. Earth dist.	-10052 Aug 04 j 21:46	2°♐17'42	4.09884 AU
	-10052 Aug 22 j 06:14	30°℞♏	
direct	-10052 Oct 03 j 05:02	27°♏10'57	
	-10052 Nov 14 j 08:22	0°♐	

evening set	-10051 Feb 07 j 07:10	16°♐19'15	
conjunction	-10051 Feb 21 j 00:18	19°♐27'45	-1°38'00
minimum elong	-10051 Feb 21 j 00:20	19°♐27'46	1°38'33
max. Earth dist.	-10051 Feb 21 j 23:32	19°♐41'05	6.12974 AU
morning rise	-10051 Mar 06 j 17:28	22°♐36'08	
	-10051 Apr 09 j 10:15	0°♑	
retrograde	-10051 Jul 11 j 11:31	11°♑33'40	
opposition	-10051 Sep 08 j 10:55	6°♑31'53	-2°13'06
min. Earth dist.	-10051 Sep 08 j 02:14	6°♑34'51	4.16864 AU
direct	-10051 Nov 06 j 23:53	1°♑28'48	
evening set	-10050 Mar 15 j 10:10	20°♑24'36	
conjunction	-10050 Mar 29 j 02:01	23°♑29'20	-1°13'45
minimum elong	-10050 Mar 29 j 02:07	23°♑29'23	1°14'18
max. Earth dist.	-10050 Mar 29 j 06:56	23°♑32'07	6.20844 AU
morning rise	-10050 Apr 11 j 15:59	26°♑32'59	
	-10050 Apr 27 j 06:07	0°♒	
retrograde	-10050 Aug 13 j 03:02	14°♒41'52	
opposition	-10050 Oct 11 j 06:32	9°♒43'52	-1°17'12
min. Earth dist.	-10050 Oct 11 j 09:04	9°♒43'01	4.24814 AU
direct	-10050 Dec 11 j 00:44	4°♒39'34	
	-10049 Mar 10 j 20:58	15°♒	
evening set	-10049 Apr 18 j 23:49	23°♒15'52	
conjunction	-10049 May 02 j 10:19	26°♒15'28	-0°26'10
minimum elong	-10049 May 02 j 10:22	26°♒15'29	0°26'33
max. Earth dist.	-10049 May 01 j 20:32	26°♒07'46	6.28352 AU
morning rise	-10049 May 15 j 17:38	29°♒13'22	
	-10049 May 19 j 05:58	0°♓	
retrograde	-10049 Sep 13 j 23:35	16°♓45'08	
asc. node	-10049 Nov 08 j 13:46	12°♓21'52	
opposition	-10049 Nov 12 j 13:04	11°♓50'42	0°00'49
min. Earth dist.	-10049 Nov 13 j 03:18	11°♓46'02	4.31208 AU
direct	-10048 Jan 13 j 10:13	6°♓47'05	
evening set	-10048 May 20 j 23:23	25°♓05'02	
max. Earth dist.	-10048 Jun 01 j 22:21	27°♓44'11	6.33161 AU
conjunction	-10048 Jun 03 j 01:05	27°♓59'03	0°28'26
minimum elong	-10048 Jun 03 j 01:03	27°♓59'01	0°28'22
	-10048 Jun 12 j 02:39	0°♈	
morning rise	-10048 Jun 15 j 23:18	0°♈51'18	
retrograde	-10048 Oct 14 j 12:24	18°♈07'33	
opposition	-10048 Dec 13 j 18:27	13°♈15'19	1°17'02
min. Earth dist.	-10048 Dec 14 j 15:01	13°♈08'42	4.34161 AU
direct	-10047 Feb 14 j 05:10	8°♈13'48	
evening set	-10047 Jun 21 j 18:47	26°♈20'17	
max. Earth dist.	-10047 Jul 03 j 04:11	28°♈52'37	6.33948 AU
conjunction	-10047 Jul 04 j 10:53	29°♈09'48	1°14'07
minimum elong	-10047 Jul 04 j 10:48	29°♈09'45	1°14'20
	-10047 Jul 08 j 04:39	0°♉	
morning rise	-10047 Jul 17 j 00:12	1°♉57'59	
	-10047 Sep 21 j 18:37	15°♉	
retrograde	-10047 Nov 15 j 13:23	19°♉22'10	
	-10046 Jan 11 j 13:50	15°℞♉	
opposition	-10046 Jan 15 j 10:59	14°♉30'30	2°10'46
min. Earth dist.	-10046 Jan 16 j 08:57	14°♉23'31	4.32848 AU
direct	-10046 Mar 18 j 21:20	9°♉31'59	
	-10046 May 20 j 22:46	15°♉	
evening set	-10046 Jul 22 j 23:53	27°♉35'17	
	-10046 Aug 02 j 16:29	0°♊	
max. Earth dist.	-10046 Aug 03 j 05:48	0°♊07'32	6.30511 AU
conjunction	-10046 Aug 04 j 09:32	0°♊23'13	1°38'22
minimum elong	-10046 Aug 04 j 09:30	0°♊23'12	1°38'50
morning rise	-10046 Aug 16 j 18:11	3°♊10'42	

Attention, astronomical year style is used: The year -10046 in astronomical counting style is the year 10047 BCE in historical counting style.

retrograde	-10046 Dec 18 j 14:42	21°♊03'15	
opposition	-10045 Feb 18 j 00:02	16°♊10'08	2°26'47
min. Earth dist.	-10045 Feb 18 j 15:49	16°♊05'07	4.27598 AU
direct	-10045 Apr 20 j 17:36	11°♊14'35	
evening set	-10045 Aug 23 j 07:11	29°♊22'30	
	-10045 Aug 26 j 00:56	0°♋	
conjunction	-10045 Sep 04 j 16:58	2°♋13'00	1°33'36
minimum elong	-10045 Sep 04 j 17:00	2°♋13'02	1°34'10
max. Earth dist.	-10045 Sep 04 j 02:42	2°♋04'49	6.23851 AU
morning rise	-10045 Sep 17 j 03:19	5°♋04'01	
retrograde	-10044 Jan 22 j 00:13	23°♋37'55	
opposition	-10044 Mar 23 j 12:34	18°♋41'52	1°57'47
min. Earth dist.	-10044 Mar 23 j 17:30	18°♋40'17	4.19952 AU
direct	-10044 May 23 j 03:17	13°♋48'28	
	-10044 Sep 14 j 04:43	0°♌	
evening set	-10044 Sep 23 j 11:30	2°♌07'47	
conjunction	-10044 Oct 06 j 03:32	5°♌04'25	0°59'15
minimum elong	-10044 Oct 06 j 03:37	5°♌04'28	0°59'45
max. Earth dist.	-10044 Oct 06 j 05:01	5°♌05'17	6.15939 AU
morning rise	-10044 Oct 18 j 22:16	8°♌02'32	
	-10044 Nov 19 j 02:25	15°♌	
retrograde	-10043 Feb 25 j 14:22	27°♌19'56	
opposition	-10043 Apr 27 j 20:08	22°♌20'00	0°48'48
min. Earth dist.	-10043 Apr 27 j 11:31	22°♌22'49	4.12302 AU
direct	-10043 Jun 26 j 04:44	17°♌27'04	
	-10043 Sep 30 j 12:10	0°♍	
evening set	-10043 Oct 27 j 04:28	6°♍03'12	
conjunction	-10043 Nov 09 j 06:27	9°♍07'06	0°04'14
minimum elong	-10043 Nov 09 j 06:27	9°♍07'06	0°04'30
behind sun begin	-10043 Nov 08 j 22:26	9°♍02'25	
behind sun end	-10043 Nov 09 j 14:27	9°♍11'47	
max. Earth dist.	-10043 Nov 10 j 03:13	9°♍19'17	6.09333 AU
morning rise	-10043 Nov 22 j 11:45	12°♍12'52	
desc. node	-10043 Dec 07 j 07:53	15°♍37'38	
	-10042 Feb 25 j 09:07	0°♎	
retrograde	-10042 Apr 02 j 21:58	2°♎02'11	
	-10042 May 09 j 04:53	30°℞♍	
opposition	-10042 Jun 02 j 12:08	26°♍58'51	-0°39'19
min. Earth dist.	-10042 Jun 01 j 18:00	27°♍04'54	4.07326 AU
direct	-10042 Jul 30 j 22:35	22°♍04'30	
	-10042 Oct 12 j 03:35	0°♎	
evening set	-10042 Dec 01 j 16:39	10°♎58'55	
conjunction	-10042 Dec 15 j 03:05	14°♎07'45	-0°53'21
minimum elong	-10042 Dec 15 j 03:00	14°♎07'42	0°53'26
max. Earth dist.	-10042 Dec 16 j 10:27	14°♎26'09	6.06392 AU
morning rise	-10042 Dec 28 j 16:58	17°♎18'20	
	-10041 Feb 26 j 10:29	0°♏	
retrograde	-10041 May 09 j 00:23	7°♏14'51	
opposition	-10041 Jul 07 j 21:24	2°♏09'49	-1°54'08
min. Earth dist.	-10041 Jul 06 j 23:05	2°♏17'24	4.06826 AU
	-10041 Jul 24 j 09:09	30°℞♎	
direct	-10041 Sep 04 j 00:52	27°♎12'28	
	-10041 Oct 15 j 14:09	0°♏	
	-10040 Jan 01 j 17:55	15°♏	
evening set	-10040 Jan 07 j 11:54	16°♏19'24	
conjunction	-10040 Jan 21 j 03:28	19°♏29'22	-1°31'38
minimum elong	-10040 Jan 21 j 03:24	19°♏29'20	1°32'03
max. Earth dist.	-10040 Jan 22 j 12:04	19°♏48'19	6.08248 AU
morning rise	-10040 Feb 03 j 20:45	22°♏40'10	
	-10040 Mar 07 j 19:20	0°♐	
retrograde	-10040 Jun 12 j 06:27	12°♐14'08	
opposition	-10040 Aug 10 j 11:50	7°♐09'56	-2°26'50
min. Earth dist.	-10040 Aug 09 j 18:55	7°♐15'43	4.10951 AU
direct	-10040 Oct 08 j 03:52	2°♐09'10	
evening set	-10039 Feb 12 j 10:11	21°♐15'32	
conjunction	-10039 Feb 26 j 03:17	24°♐23'30	-1°36'31
minimum elong	-10039 Feb 26 j 03:19	24°♐23'31	1°37'06
max. Earth dist.	-10039 Feb 27 j 00:06	24°♐35'25	6.14199 AU
morning rise	-10039 Mar 11 j 20:11	27°♐31'13	
	-10039 Mar 22 j 20:25	0°♑	
retrograde	-10039 Jul 16 j 01:05	16°♑21'11	
opposition	-10039 Sep 13 j 01:47	11°♑19'54	-2°07'30
min. Earth dist.	-10039 Sep 12 j 17:57	11°♑22'34	4.18139 AU
direct	-10039 Nov 11 j 17:58	6°♑16'33	
evening set	-10038 Mar 20 j 07:55	25°♑09'24	
conjunction	-10038 Apr 02 j 23:12	28°♑13'25	-1°08'11
minimum elong	-10038 Apr 02 j 23:18	28°♑13'28	1°08'43
max. Earth dist.	-10038 Apr 03 j 00:32	28°♑14'10	6.22083 AU
	-10038 Apr 10 j 20:28	0°♒	
morning rise	-10038 Apr 16 j 12:29	1°♒16'17	
	-10038 Jun 25 j 07:36	15°♒	
retrograde	-10038 Aug 17 j 15:13	19°♒18'49	
	-10038 Oct 10 j 22:54	15°℞♒	
opposition	-10038 Oct 15 j 18:49	14°♒21'24	-1°07'07
min. Earth dist.	-10038 Oct 16 j 00:05	14°♒19'38	4.25898 AU
direct	-10038 Dec 15 j 18:02	9°♒17'06	
	-10037 Feb 17 j 23:10	15°♒	
evening set	-10037 Apr 23 j 15:47	27°♒50'33	
	-10037 May 03 j 08:43	0°♓	
max. Earth dist.	-10037 May 06 j 09:33	0°♓40'37	6.29204 AU
conjunction	-10037 May 07 j 01:21	0°♓49'25	-0°18'38
minimum elong	-10037 May 07 j 01:23	0°♓49'26	0°18'58
morning rise	-10037 May 20 j 07:28	3°♓46'31	
retrograde	-10037 Sep 18 j 07:44	21°♓14'58	
asc. node	-10037 Sep 19 j 04:08	21°♓14'53	
opposition	-10037 Nov 17 j 00:17	16°♓20'56	0°12'02
min. Earth dist.	-10037 Nov 17 j 15:07	16°♓16'05	4.31785 AU
direct	-10036 Jan 17 j 23:16	11°♓17'33	
evening set	-10036 May 25 j 11:14	29°♓33'53	
	-10036 May 27 j 10:31	0°♈	
max. Earth dist.	-10036 Jun 06 j 07:24	2°♈11'34	6.33422 AU
conjunction	-10036 Jun 07 j 11:31	2°♈27'13	0°35'40
minimum elong	-10036 Jun 07 j 11:28	2°♈27'11	0°35'37
morning rise	-10036 Jun 20 j 08:26	5°♈18'51	
retrograde	-10036 Oct 18 j 23:34	22°♈35'15	
opposition	-10036 Dec 18 j 06:57	17°♈43'18	1°26'18
min. Earth dist.	-10036 Dec 19 j 04:50	17°♈36'17	4.34106 AU
direct	-10035 Feb 18 j 19:15	12°♈42'13	
	-10035 Jun 22 j 12:43	0°♉	
evening set	-10035 Jun 26 j 04:06	0°♉48'23	
max. Earth dist.	-10035 Jul 07 j 11:37	3°♉19'56	6.33560 AU
conjunction	-10035 Jul 08 j 19:06	3°♉37'34	1°19'01
minimum elong	-10035 Jul 08 j 19:01	3°♉37'31	1°19'17
morning rise	-10035 Jul 21 j 07:33	6°♉25'32	
	-10035 Aug 31 j 00:24	15°♉	
retrograde	-10035 Nov 20 j 02:40	23°♉53'11	
opposition	-10034 Jan 20 j 02:26	19°♉01'26	2°15'33
min. Earth dist.	-10034 Jan 20 j 23:18	18°♉54'48	4.32196 AU
	-10034 Feb 26 j 06:39	15°℞♉	
direct	-10034 Mar 23 j 10:17	14°♉03'23	
	-10034 Apr 17 j 14:26	15°♉	
	-10034 Jul 17 j 20:20	0°♊	
evening set	-10034 Jul 27 j 08:55	2°♊07'28	

Attention, astronomical year style is used: The year -10034 in astronomical counting style is the year 10035 BCE in historical counting style.

conjunction	-10034 Aug 08 j 18:16	4°♊55'34	1°39'32
minimum elong	-10034 Aug 08 j 18:15	4°♊55'33	1°40'01
max. Earth dist.	-10034 Aug 07 j 17:22	4°♊41'27	6.29656 AU
morning rise	-10034 Aug 21 j 02:37	7°♊43'18	
retrograde	-10034 Dec 23 j 09:26	25°♊41'20	
opposition	-10033 Feb 22 j 19:10	20°♊48'00	2°25'26
min. Earth dist.	-10033 Feb 23 j 09:54	20°♊43'19	4.26617 AU
direct	-10033 Apr 25 j 09:51	15°♊52'54	
	-10033 Aug 09 j 18:51	0°♋	
evening set	-10033 Aug 27 j 18:22	4°♋02'03	
conjunction	-10033 Sep 09 j 04:32	6°♋53'11	1°30'27
minimum elong	-10033 Sep 09 j 04:36	6°♋53'13	1°31'02
max. Earth dist.	-10033 Sep 08 j 15:34	6°♋45'43	6.22838 AU
morning rise	-10033 Sep 21 j 15:53	9°♋45'01	
retrograde	-10032 Jan 26 j 22:02	28°♋24'46	
opposition	-10032 Mar 28 j 10:26	23°♋28'10	1°50'11
min. Earth dist.	-10032 Mar 28 j 12:39	23°♋27'28	4.18983 AU
direct	-10032 May 27 j 20:16	18°♋34'57	
	-10032 Aug 28 j 01:23	0°♌	
evening set	-10032 Sep 28 j 02:20	6°♌55'42	
conjunction	-10032 Oct 10 j 19:45	9°♌53'16	0°52'28
minimum elong	-10032 Oct 10 j 19:50	9°♌53'19	0°52'56
max. Earth dist.	-10032 Oct 11 j 01:38	9°♌56'41	6.15122 AU
morning rise	-10032 Oct 23 j 15:44	12°♌52'21	
	-10032 Nov 01 j 22:03	15°♌	
	-10031 Jan 22 j 23:19	0°♍	
retrograde	-10031 Mar 02 j 15:31	2°♍14'08	
	-10031 Apr 10 j 07:16	30°℞♌	
opposition	-10031 May 02 j 19:21	27°♌13'42	0°36'59
min. Earth dist.	-10031 May 02 j 09:41	27°♌16'52	4.11694 AU
direct	-10031 Jul 01 j 01:00	22°♌20'42	
	-10031 Sep 11 j 07:06	0°♍	
desc. node	-10031 Oct 17 j 04:50	7°♍33'32	
evening set	-10031 Nov 01 j 00:17	10°♍58'13	
conjunction	-10031 Nov 14 j 03:22	14°♍02'48	-0°04'13
minimum elong	-10031 Nov 14 j 03:20	14°♍02'47	0°04'00
behind sun begin	-10031 Nov 13 j 19:15	13°♍58'03	
behind sun end	-10031 Nov 14 j 11:26	14°♍07'30	
max. Earth dist.	-10031 Nov 15 j 00:58	14°♍15'27	6.08974 AU
morning rise	-10031 Nov 27 j 10:09	17°♍09'19	
	-10030 Jan 27 j 03:08	0°♎	
retrograde	-10030 Apr 07 j 20:42	7°♎00'04	
opposition	-10030 Jun 07 j 10:03	1°♎56'21	-0°51'11
min. Earth dist.	-10030 Jun 06 j 14:13	2°♎02'59	4.07256 AU
	-10030 Jun 22 j 07:44	30°℞♍	
direct	-10030 Aug 04 j 18:30	27°♍01'38	
	-10030 Sep 16 j 16:35	0°♎	
evening set	-10030 Dec 06 j 16:44	15°♎57'13	
conjunction	-10030 Dec 20 j 04:09	19°♎06'20	-1°00'11
minimum elong	-10030 Dec 20 j 04:03	19°♎06'16	1°00'18
max. Earth dist.	-10030 Dec 21 j 12:59	19°♎25'34	6.06602 AU
morning rise	-10029 Jan 02 j 18:34	22°♎17'01	
	-10029 Feb 06 j 06:28	0°♏	
retrograde	-10029 May 13 j 22:45	12°♏11'22	
opposition	-10029 Jul 12 j 16:34	7°♏06'17	-2°01'32
min. Earth dist.	-10029 Jul 11 j 19:43	7°♏13'24	4.07295 AU
direct	-10029 Sep 08 j 21:46	2°♏08'26	
	-10029 Dec 15 j 16:32	15°♏	
evening set	-10028 Jan 12 j 13:38	21°♏15'39	
conjunction	-10028 Jan 26 j 05:33	24°♏25'28	-1°34'25
minimum elong	-10028 Jan 26 j 05:30	24°♏25'26	1°34'51
max. Earth dist.	-10028 Jan 27 j 12:35	24°♏43'27	6.08912 AU
morning rise	-10028 Feb 08 j 23:03	27°♏36'00	
	-10028 Feb 19 j 11:24	0°♐	
retrograde	-10028 Jun 16 j 22:34	17°♐04'48	
min. Earth dist.	-10028 Aug 14 j 11:09	12°♐06'31	4.11758 AU
opposition	-10028 Aug 15 j 03:32	12°♐00'55	-2°27'11
direct	-10028 Oct 12 j 20:58	6°♐59'44	
evening set	-10027 Feb 17 j 10:00	26°♐05'13	
conjunction	-10027 Mar 03 j 03:02	29°♐12'48	-1°34'25
minimum elong	-10027 Mar 03 j 03:05	29°♐12'50	1°35'00
max. Earth dist.	-10027 Mar 03 j 20:06	29°♐22'33	6.15081 AU
	-10027 Mar 06 j 13:40	0°♑	
morning rise	-10027 Mar 16 j 19:44	2°♑20'01	
retrograde	-10027 Jul 20 j 15:11	21°♑04'04	
opposition	-10027 Sep 17 j 14:59	16°♑03'18	-2°01'13
min. Earth dist.	-10027 Sep 17 j 09:53	16°♑05'01	4.18996 AU
direct	-10027 Nov 16 j 12:03	10°♑59'41	
evening set	-10026 Mar 25 j 03:46	29°♑50'55	
	-10026 Mar 25 j 20:01	0°♒	
conjunction	-10026 Apr 07 j 18:44	2°♒54'29	-1°02'15
minimum elong	-10026 Apr 07 j 18:49	2°♒54'32	1°02'46
max. Earth dist.	-10026 Apr 07 j 18:19	2°♒54'15	6.22874 AU
morning rise	-10026 Apr 21 j 07:11	5°♒56'43	
	-10026 Jun 03 j 03:07	15°♒	
retrograde	-10026 Aug 22 j 00:56	23°♒54'32	
opposition	-10026 Oct 20 j 06:25	18°♒57'38	-0°56'44
min. Earth dist.	-10026 Oct 20 j 12:20	18°♒55'40	4.26559 AU
	-10026 Nov 23 j 16:03	15°℞♒	
direct	-10026 Dec 20 j 08:17	13°♒53'22	
	-10025 Jan 16 j 09:32	15°♒	
	-10025 Apr 17 j 06:31	0°♓	
evening set	-10025 Apr 28 j 07:36	2°♓25'18	
conjunction	-10025 May 11 j 15:58	5°♓23'31	-0°10'59
minimum elong	-10025 May 11 j 15:59	5°♓23'32	0°11'17
behind sun begin	-10025 May 11 j 10:02	5°♓20'13	
behind sun end	-10025 May 11 j 21:57	5°♓26'50	
max. Earth dist.	-10025 May 10 j 21:08	5°♓13'01	6.29707 AU
morning rise	-10025 May 24 j 21:06	8°♓19'59	
asc. node	-10025 Jul 30 j 04:21	21°♓18'47	
retrograde	-10025 Sep 22 j 19:21	25°♓46'16	
opposition	-10025 Nov 21 j 12:29	20°♓52'37	0°23'13
min. Earth dist.	-10025 Nov 22 j 05:12	20°♓47'09	4.32098 AU
direct	-10024 Jan 22 j 14:50	15°♓49'27	
	-10024 May 11 j 04:11	0°♈	
evening set	-10024 May 29 j 23:14	4°♈04'37	
conjunction	-10024 Jun 11 j 22:20	6°♈57'22	0°42'42
minimum elong	-10024 Jun 11 j 22:16	6°♈57'19	0°42'42
max. Earth dist.	-10024 Jun 10 j 18:15	6°♈41'43	6.33518 AU
morning rise	-10024 Jun 24 j 17:54	9°♈48'24	
retrograde	-10024 Oct 23 j 10:06	27°♈05'27	
opposition	-10024 Dec 22 j 20:43	22°♈13'35	1°35'07
min. Earth dist.	-10024 Dec 23 j 17:38	22°♈06'53	4.34007 AU
direct	-10023 Feb 23 j 08:09	17°♈12'53	
	-10023 Jun 06 j 01:48	0°♉	
evening set	-10023 Jun 30 j 14:00	5°♉18'23	
max. Earth dist.	-10023 Jul 11 j 21:21	7°♉50'03	6.33264 AU
conjunction	-10023 Jul 13 j 03:49	8°♉07'09	1°23'29
minimum elong	-10023 Jul 13 j 03:44	8°♉07'06	1°23'47
morning rise	-10023 Jul 25 j 15:21	10°♉54'49	
	-10023 Aug 13 j 06:58	15°♉	
retrograde	-10023 Nov 24 j 17:57	28°♉25'22	
opposition	-10022 Jan 24 j 18:44	23°♉33'30	2°19'31
min. Earth dist.	-10022 Jan 25 j 15:39	23°♉26'52	4.31718 AU

Attention, astronomical year style is used: The year -10022 in astronomical counting style is the year 10023 BCE in historical counting style.

direct	-10022 Mar 28 j 02:04	18°♉35'52	
	-10022 Jul 01 j 01:26	0°♊	
evening set	-10022 Jul 31 j 18:05	6°♊39'41	
max. Earth dist.	-10022 Aug 12 j 03:04	9°♊14'13	6.29012 AU
conjunction	-10022 Aug 13 j 03:05	9°♊27'52	1°40'06
minimum elong	-10022 Aug 13 j 03:05	9°♊27'51	1°40'36
morning rise	-10022 Aug 25 j 11:29	12°♊15'50	
	-10022 Dec 14 j 00:09	0°♋	
retrograde	-10022 Dec 28 j 02:14	0°♋18'25	
	-10021 Jan 11 j 05:29	30°℞♊	
opposition	-10021 Feb 27 j 13:54	25°♊24'37	2°23'11
min. Earth dist.	-10021 Feb 28 j 02:17	25°♊20'41	4.25839 AU
direct	-10021 Apr 30 j 00:13	20°♊29'49	
	-10021 Jul 23 j 04:52	0°♋	
evening set	-10021 Sep 01 j 04:47	8°♋39'25	
conjunction	-10021 Sep 13 j 15:40	11°♋31'11	1°26'45
minimum elong	-10021 Sep 13 j 15:44	11°♋31'14	1°27'20
max. Earth dist.	-10021 Sep 13 j 06:08	11°♋25'41	6.21990 AU
morning rise	-10021 Sep 26 j 03:44	14°♋23'45	
	-10021 Dec 16 j 09:24	0°♌	
retrograde	-10020 Jan 31 j 20:25	3°♌08'45	
	-10020 Mar 18 j 21:55	30°℞♋	
opposition	-10020 Apr 02 j 07:32	28°♋11'39	1°41'54
min. Earth dist.	-10020 Apr 02 j 09:02	28°♋11'10	4.18094 AU
direct	-10020 Jun 01 j 14:32	23°♋18'34	
	-10020 Aug 08 j 12:01	0°♌	
evening set	-10020 Oct 02 j 16:39	11°♌40'42	
conjunction	-10020 Oct 15 j 11:10	14°♌39'09	0°45'22
minimum elong	-10020 Oct 15 j 11:15	14°♌39'12	0°45'50
max. Earth dist.	-10020 Oct 15 j 18:01	14°♌43'09	6.14276 AU
	-10020 Oct 16 j 22:55	15°♌	
morning rise	-10020 Oct 28 j 08:44	17°♌39'16	
	-10020 Dec 25 j 21:12	0°♍	
retrograde	-10019 Mar 07 j 13:43	7°♍05'35	
opposition	-10019 May 07 j 17:13	2°♍04'37	0°25'00
min. Earth dist.	-10019 May 07 j 05:15	2°♍08'33	4.10960 AU
	-10019 May 24 j 01:51	30°℞♌	
direct	-10019 Jul 05 j 18:38	27°♌11'30	
	-10019 Aug 16 j 18:17	0°♍	
desc. node	-10019 Aug 27 j 17:01	1°♍32'18	
evening set	-10019 Nov 05 j 20:07	15°♍51'22	
conjunction	-10019 Nov 19 j 00:34	18°♍56'44	-0°12'27
minimum elong	-10019 Nov 19 j 00:32	18°♍56'43	0°12'17
behind sun begin	-10019 Nov 18 j 19:05	18°♍53'32	
behind sun end	-10019 Nov 19 j 05:59	18°♍59'54	
max. Earth dist.	-10019 Nov 20 j 00:44	19°♍10'55	6.08423 AU
morning rise	-10019 Dec 02 j 08:29	22°♍04'02	
	-10018 Jan 06 j 19:59	0°♎	
retrograde	-10018 Apr 12 j 22:16	11°♎57'00	
opposition	-10018 Jun 12 j 07:39	6°♎52'59	-1°02'42
min. Earth dist.	-10018 Jun 11 j 12:19	6°♎59'29	4.06940 AU
direct	-10018 Aug 09 j 15:34	1°♎57'53	
evening set	-10018 Dec 11 j 17:45	20°♎55'55	
conjunction	-10018 Dec 25 j 05:57	24°♎05'23	-1°06'37
minimum elong	-10018 Dec 25 j 05:52	24°♎05'20	1°06'48
max. Earth dist.	-10018 Dec 26 j 14:45	24°♎24'35	6.06530 AU
morning rise	-10017 Jan 07 j 21:11	27°♎16'23	
	-10017 Jan 19 j 17:34	0°♏	
	-10017 Apr 11 j 17:26	15°♏	
retrograde	-10017 May 18 j 20:25	17°♏09'26	
	-10017 Jun 24 j 14:36	15°℞♏	
opposition	-10017 Jul 17 j 12:21	12°♏04'24	-2°08'09
min. Earth dist.	-10017 Jul 16 j 15:11	12°♏11'38	4.07500 AU
direct	-10017 Sep 13 j 16:48	7°♏06'06	
	-10017 Nov 26 j 06:11	15°♏	
evening set	-10016 Jan 17 j 16:59	26°♏14'44	
conjunction	-10016 Jan 31 j 09:12	29°♏24'29	-1°36'33
minimum elong	-10016 Jan 31 j 09:09	29°♏24'28	1°37'00
max. Earth dist.	-10016 Feb 01 j 13:52	29°♏41'05	6.09347 AU
	-10016 Feb 02 j 22:31	0°♐	
morning rise	-10016 Feb 14 j 02:50	2°♐34'49	
retrograde	-10016 Jun 21 j 17:38	21°♐59'19	
opposition	-10016 Aug 19 j 20:56	16°♐55'46	-2°26'32
min. Earth dist.	-10016 Aug 19 j 06:36	17°♐00'40	4.12371 AU
direct	-10016 Oct 17 j 18:14	11°♐54'09	
	-10015 Feb 18 j 02:42	0°♑	
evening set	-10015 Feb 22 j 11:53	0°♑59'26	
conjunction	-10015 Mar 08 j 05:03	4°♑06'44	-1°31'37
minimum elong	-10015 Mar 08 j 05:06	4°♑06'46	1°32'12
max. Earth dist.	-10015 Mar 08 j 21:01	4°♑15'50	6.15831 AU
morning rise	-10015 Mar 21 j 21:17	7°♑13'29	
retrograde	-10015 Jul 25 j 06:12	25°♑51'51	
opposition	-10015 Sep 22 j 06:01	20°♑51'40	-1°54'00
min. Earth dist.	-10015 Sep 22 j 01:46	20°♑53'06	4.19808 AU
direct	-10015 Nov 21 j 05:59	15°♑47'55	
	-10014 Mar 08 j 22:40	0°♒	
evening set	-10014 Mar 30 j 01:50	4°♒37'40	
conjunction	-10014 Apr 12 j 16:02	7°♒40'39	-0°55'47
minimum elong	-10014 Apr 12 j 16:07	7°♒40'42	0°56'17
max. Earth dist.	-10014 Apr 12 j 11:50	7°♒38'18	6.23697 AU
morning rise	-10014 Apr 26 j 03:53	10°♒42'17	
	-10014 May 15 j 17:46	15°♒	
retrograde	-10014 Aug 26 j 14:45	28°♒35'25	
opposition	-10014 Oct 24 j 20:31	23°♒39'02	-0°45'47
min. Earth dist.	-10014 Oct 25 j 04:27	23°♒36'24	4.27329 AU
direct	-10014 Dec 25 j 02:55	18°♒34'51	
	-10013 Mar 30 j 18:42	0°♓	
evening set	-10013 May 03 j 00:41	7°♓04'40	
conjunction	-10013 May 16 j 08:04	10°♓02'10	-0°03'11
minimum elong	-10013 May 16 j 08:03	10°♓02'10	0°03'26
behind sun begin	-10013 May 15 j 23:58	9°♓57'40	
behind sun end	-10013 May 16 j 16:09	10°♓06'39	
max. Earth dist.	-10013 May 15 j 13:24	9°♓51'46	6.30395 AU
morning rise	-10013 May 29 j 11:45	12°♓57'49	
asc. node	-10013 Jun 07 j 23:47	15°♓03'08	
	-10013 Sep 12 j 09:42	0°♈	
retrograde	-10013 Sep 27 j 06:04	0°♈21'26	
	-10013 Oct 12 j 03:01	30°℞♓	
opposition	-10013 Nov 26 j 02:12	25°♓28'09	0°34'22
min. Earth dist.	-10013 Nov 26 j 18:36	25°♓22'50	4.32674 AU
direct	-10012 Jan 27 j 05:44	20°♓25'21	
	-10012 Apr 23 j 03:54	0°♈	
evening set	-10012 Jun 03 j 12:15	8°♈38'17	
max. Earth dist.	-10012 Jun 15 j 04:28	11°♈13'55	6.33937 AU
conjunction	-10012 Jun 16 j 09:43	11°♈30'13	0°49'32
minimum elong	-10012 Jun 16 j 09:39	11°♈30'11	0°49'34
morning rise	-10012 Jun 29 j 04:05	14°♈20'32	
	-10012 Sep 25 j 12:57	0°♉	
retrograde	-10012 Oct 27 j 23:16	1°♉37'17	
	-10012 Nov 29 j 14:16	30°℞♈	
opposition	-10012 Dec 27 j 11:13	26°♈45'31	1°43'19
min. Earth dist.	-10012 Dec 28 j 09:02	26°♈38'33	4.34250 AU
direct	-10011 Feb 28 j 00:09	21°♈45'13	
	-10011 May 18 j 14:36	0°♉	

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

evening set	-10011 Jul 04 j 23:27	9°♉48'45		
max. Earth dist.	-10011 Jul 16 j 07:08	12°♉20'41	6.33291 AU	
conjunction	-10011 Jul 17 j 12:19	12°♉37'03	1°27'25	
minimum elong	-10011 Jul 17 j 12:15	12°♉37'01	1°27'45	
	-10011 Jul 28 j 03:21	15°♉		
morning rise	-10011 Jul 29 j 22:55	15°♉24'19		
	-10011 Oct 15 j 16:21	0°♊		
retrograde	-10011 Nov 29 j 06:21	2°♊56'51		
	-10010 Jan 13 j 20:01	30°℞♉		
opposition	-10010 Jan 29 j 10:26	28°♉04'46	2°22'33	
min. Earth dist.	-10010 Jan 30 j 05:35	27°♉58'42	4.31539 AU	
direct	-10010 Apr 01 j 15:02	23°♉07'33		
	-10010 Jun 11 j 20:14	0°♊		
evening set	-10010 Aug 05 j 02:02	11°♊10'08		
conjunction	-10010 Aug 17 j 10:45	13°♊58'19	1°40'02	
minimum elong	-10010 Aug 17 j 10:45	13°♊58'19	1°40'34	
max. Earth dist.	-10010 Aug 16 j 12:27	13°♊45'39	6.28626 AU	
morning rise	-10010 Aug 29 j 19:07	16°♊46'28		
	-10010 Nov 04 j 03:42	0°♋		
retrograde	-10009 Jan 01 j 19:41	4°♋52'52		
opposition	-10009 Mar 04 j 07:24	29°♊58'41	2°20'00	
	-10009 Mar 04 j 03:17	30°℞♊		
min. Earth dist.	-10009 Mar 04 j 19:40	29°♊54'48	4.25244 AU	
direct	-10009 May 04 j 16:00	25°♊04'10		
	-10009 Jul 02 j 01:46	0°♋		
evening set	-10009 Sep 05 j 13:48	13°♋13'43		
conjunction	-10009 Sep 18 j 01:21	16°♋06'06	1°22'33	
minimum elong	-10009 Sep 18 j 01:25	16°♋06'08	1°23'07	
max. Earth dist.	-10009 Sep 17 j 16:42	16°♋01'07	6.21242 AU	
morning rise	-10009 Sep 30 j 14:28	18°♋59'25		
	-10009 Nov 21 j 14:52	0°♌		
retrograde	-10008 Feb 05 j 14:02	7°♌49'15		
opposition	-10008 Apr 07 j 02:20	2°♌51'38	1°33'04	
min. Earth dist.	-10008 Apr 07 j 01:37	2°♌51'51	4.17238 AU	
	-10008 Apr 30 j 20:27	30°℞♋		
direct	-10008 Jun 06 j 04:41	27°♋58'36		
	-10008 Jul 12 j 02:14	0°♌		
	-10008 Oct 01 j 06:55	15°♌		
evening set	-10008 Oct 07 j 05:35	16°♌22'22		
conjunction	-10008 Oct 20 j 01:28	19°♌21'47	0°38'06	
minimum elong	-10008 Oct 20 j 01:32	19°♌21'49	0°38'32	
max. Earth dist.	-10008 Oct 20 j 10:38	19°♌27'08	6.13398 AU	
morning rise	-10008 Nov 02 j 00:21	22°♌22'55		
	-10008 Dec 06 j 04:56	0°♍		
retrograde	-10007 Mar 12 j 13:10	11°♍53'57		
opposition	-10007 May 12 j 13:28	6°♍52'31	0°13'02	
min. Earth dist.	-10007 May 12 j 01:33	6°♍56'27	4.10116 AU	
desc. node	-10007 Jul 09 j 12:07	1°♍59'17		
direct	-10007 Jul 10 j 12:58	1°♍59'11		
evening set	-10007 Nov 10 j 15:02	20°♍42'04		
conjunction	-10007 Nov 23 j 20:43	23°♍48'19	-0°20'30	
minimum elong	-10007 Nov 23 j 20:41	23°♍48'17	0°20'22	
max. Earth dist.	-10007 Nov 24 j 21:43	24°♍02'59	6.07699 AU	
morning rise	-10007 Dec 07 j 06:02	26°♍56'30		
	-10007 Dec 20 j 12:24	0°♎		
retrograde	-10006 Apr 17 j 21:04	16°♎52'14		
min. Earth dist.	-10006 Jun 16 j 07:46	11°♎54'48	4.06434 AU	
opposition	-10006 Jun 17 j 04:05	11°♎47'58	-1°13'37	
direct	-10006 Aug 14 j 09:05	6°♎52'30		
evening set	-10006 Dec 16 j 18:44	25°♎53'55		
conjunction	-10006 Dec 30 j 07:45	29°♎03'49	-1°12'29	
minimum elong	-10006 Dec 30 j 07:39	29°♎03'46	1°12'42	
max. Earth dist.	-10006 Dec 31 j 15:58	29°♎22'41	6.06277 AU	
	-10005 Jan 03 j 07:44	0°♏		
morning rise	-10005 Jan 12 j 23:39	2°♏15'11		
	-10005 Mar 14 j 02:46	15°♏		
retrograde	-10005 May 23 j 18:29	22°♏07'32		
min. Earth dist.	-10005 Jul 21 j 11:43	17°♏09'25	4.07540 AU	
opposition	-10005 Jul 22 j 07:53	17°♏02'31	-2°13'45	
	-10005 Aug 06 j 17:53	15°℞♏		
direct	-10005 Sep 18 j 13:55	12°♏03'44		
	-10005 Oct 31 j 09:10	15°♏		
	-10004 Jan 17 j 11:01	0°♐		
evening set	-10004 Jan 22 j 20:40	1°♐14'18		
conjunction	-10004 Feb 05 j 13:26	4°♐24'06	-1°37'56	
minimum elong	-10004 Feb 05 j 13:25	4°♐24'04	1°38'25	
max. Earth dist.	-10004 Feb 06 j 18:28	4°♐40'53	6.09693 AU	
morning rise	-10004 Feb 19 j 07:05	7°♐34'16		
retrograde	-10004 Jun 26 j 13:09	26°♐54'21		
opposition	-10004 Aug 24 j 14:37	21°♐51'11	-2°24'47	
min. Earth dist.	-10004 Aug 24 j 00:54	21°♐55'52	4.12996 AU	
direct	-10004 Oct 22 j 14:07	16°♐49'14		
	-10003 Jan 31 j 20:21	0°♑		
evening set	-10003 Feb 27 j 13:57	5°♑53'51		
conjunction	-10003 Mar 13 j 06:51	9°♑00'44	-1°28'08	
minimum elong	-10003 Mar 13 j 06:56	9°♑00'47	1°28'42	
max. Earth dist.	-10003 Mar 13 j 19:31	9°♑07'57	6.16684 AU	
morning rise	-10003 Mar 26 j 22:56	12°♑07'00		
	-10003 Jul 10 j 00:26	0°♒		
retrograde	-10003 Jul 29 j 21:21	0°♒39'14		
	-10003 Aug 18 j 15:24	30°℞♑		
opposition	-10003 Sep 26 j 21:27	25°♑39'29	-1°45'58	
min. Earth dist.	-10003 Sep 26 j 18:46	25°♑40'23	4.20787 AU	
direct	-10003 Nov 26 j 02:14	20°♑35'30		
	-10002 Feb 18 j 10:09	0°♒		
evening set	-10002 Apr 03 j 22:59	9°♒22'39		
conjunction	-10002 Apr 17 j 12:38	12°♒24'57	-0°48'57	
minimum elong	-10002 Apr 17 j 12:42	12°♒25'00	0°49'25	
max. Earth dist.	-10002 Apr 17 j 07:52	12°♒22'16	6.24746 AU	
	-10002 Apr 29 j 01:15	15°♒		
morning rise	-10002 Apr 30 j 23:23	15°♒25'44		
	-10002 Jul 16 j 10:28	0°♓		
retrograde	-10002 Aug 31 j 02:18	3°♓13'20		
	-10002 Oct 16 j 05:15	30°℞♒		
opposition	-10002 Oct 29 j 09:47	28°♒17'25	-0°34'37	
min. Earth dist.	-10002 Oct 29 j 18:32	28°♒14'32	4.28323 AU	
direct	-10002 Dec 29 j 19:23	23°♒13'19		
	-10001 Mar 10 j 19:16	0°♓		
asc. node	-10001 Apr 17 j 00:47	7°♓11'40		
evening set	-10001 May 07 j 16:22	11°♓40'00		
conjunction	-10001 May 20 j 22:18	14°♓36'35	0°04'44	
minimum elong	-10001 May 20 j 22:18	14°♓36'35	0°04'31	
behind sun begin	-10001 May 20 j 14:20	14°♓32'10		
behind sun end	-10001 May 21 j 06:16	14°♓41'00		
max. Earth dist.	-10001 May 20 j 00:40	14°♓24'33	6.31230 AU	
morning rise	-10001 Jun 03 j 00:53	17°♓31'25		
	-10001 Aug 05 j 06:41	0°♈		
retrograde	-10001 Oct 01 j 17:01	4°♈52'10		
opposition	-10001 Nov 30 j 14:53	29°♓59'09	0°45'13	
	-10001 Nov 30 j 12:14	30°℞♓		
min. Earth dist.	-10001 Dec 01 j 08:51	29°♓53'19	4.33275 AU	
direct	-10000 Jan 31 j 21:02	24°♓56'33		
	-10000 Apr 01 j 17:07	0°♈		
evening set	-10000 Jun 07 j 23:00	13°♈07'11		

Attention, astronomical year style is used: The year -10000 in astronomical counting style is the year 10001 BCE in historical counting style.

conjunction	-10000 Jun 20 j 19:17	15°♈58'26	0°56'01
minimum elong	-10000 Jun 20 j 19:12	15°♈58'23	0°56'07
max. Earth dist.	-10000 Jun 19 j 14:43	15°♈42'31	6.34232 AU
morning rise	-10000 Jul 03 j 12:13	18°♈48'04	
	-10000 Aug 27 j 23:58	0°♉	
retrograde	-10000 Nov 01 j 09:35	6°♉05'21	
opposition	-9999 Jan 01 j 00:44	1°♉13'39	1°50'56
min. Earth dist.	-9999 Jan 01 j 22:01	1°♉06'52	4.34226 AU
	-9999 Jan 10 j 18:12	30°℞♈	
direct	-9999 Mar 04 j 12:49	26°♈13'48	
	-9999 Apr 25 j 10:03	0°♉	
evening set	-9999 Jul 09 j 07:55	14°♉16'26	
	-9999 Jul 12 j 13:58	15°♉	
conjunction	-9999 Jul 21 j 19:41	17°♉04'25	1°30'52
minimum elong	-9999 Jul 21 j 19:37	17°♉04'23	1°31'14
max. Earth dist.	-9999 Jul 20 j 13:49	16°♉47'38	6.32921 AU
morning rise	-9999 Aug 03 j 05:42	19°♉51'33	
	-9999 Sep 21 j 04:03	0°♊	
retrograde	-9999 Dec 03 j 21:50	7°♊27'47	
opposition	-9998 Feb 03 j 02:29	2°♊35'32	2°24'52
min. Earth dist.	-9998 Feb 03 j 22:00	2°♊29'21	4.30846 AU
	-9998 Feb 24 j 16:16	30°℞♉	
direct	-9998 Apr 06 j 05:46	27°♉38'42	
	-9998 May 16 j 07:45	0°♊	
evening set	-9998 Aug 09 j 10:33	15°♊41'56	
conjunction	-9998 Aug 21 j 19:22	18°♊30'32	1°39'24
minimum elong	-9998 Aug 21 j 19:23	18°♊30'32	1°39'58
max. Earth dist.	-9998 Aug 20 j 22:37	18°♊18'43	6.27664 AU
morning rise	-9998 Sep 03 j 03:57	21°♊19'10	
	-9998 Oct 13 j 15:24	0°♋	
retrograde	-9997 Jan 06 j 13:23	9°♋31'32	
opposition	-9997 Mar 09 j 02:39	4°♋36'58	2°16'01
min. Earth dist.	-9997 Mar 09 j 12:42	4°♋33'46	4.24083 AU
	-9997 Apr 25 j 17:42	30°℞♊	
direct	-9997 May 09 j 06:30	29°♊42'47	
	-9997 May 22 j 19:40	0°♋	
evening set	-9997 Sep 10 j 01:27	17°♋54'25	
conjunction	-9997 Sep 22 j 13:53	20°♋47'43	1°17'45
minimum elong	-9997 Sep 22 j 13:58	20°♋47'46	1°18'19
max. Earth dist.	-9997 Sep 22 j 07:24	20°♋43'58	6.19984 AU
morning rise	-9997 Oct 05 j 04:09	23°♋42'07	
	-9997 Nov 02 j 10:51	0°♌	
retrograde	-9996 Feb 10 j 14:57	12°♌38'51	
opposition	-9996 Apr 12 j 01:08	7°♌40'43	1°23'23
min. Earth dist.	-9996 Apr 11 j 23:29	7°♌41'15	4.15954 AU
direct	-9996 Jun 11 j 00:16	2°♌47'48	
	-9996 Sep 14 j 06:20	15°♌	
evening set	-9996 Oct 11 j 22:57	21°♌14'44	
conjunction	-9996 Oct 24 j 20:15	24°♌15'19	0°30'18
minimum elong	-9996 Oct 24 j 20:19	24°♌15'20	0°30'41
max. Earth dist.	-9996 Oct 25 j 07:52	24°♌22'06	6.12231 AU
morning rise	-9996 Nov 06 j 20:45	27°♌17'41	
	-9996 Nov 18 j 15:00	0°♍	
retrograde	-9995 Mar 17 j 16:07	16°♍54'15	
opposition	-9995 May 17 j 14:09	11°♍52'26	0°00'27
min. Earth dist.	-9995 May 17 j 00:01	11°♍57'07	4.09198 AU
desc. node	-9995 May 19 j 13:58	11°♍36'39	
direct	-9995 Jul 15 j 09:01	6°♍59'01	
evening set	-9995 Nov 15 j 15:32	25°♍45'22	
conjunction	-9995 Nov 28 j 22:25	28°♍52'24	-0°28'45
minimum elong	-9995 Nov 28 j 22:22	28°♍52'22	0°28'40
max. Earth dist.	-9995 Nov 30 j 01:02	29°♍08'02	6.07124 AU
	-9995 Dec 03 j 17:29	0°♎	
morning rise	-9995 Dec 12 j 08:56	2°♎01'21	
retrograde	-9994 Apr 22 j 23:58	21°♎58'52	
min. Earth dist.	-9994 Jun 21 j 07:34	17°♎01'27	4.06304 AU
opposition	-9994 Jun 22 j 04:34	16°♎54'21	-1°24'25
direct	-9994 Aug 19 j 08:50	11°♎58'32	
	-9994 Dec 17 j 13:13	0°♏	
evening set	-9994 Dec 21 j 23:54	1°♏01'49	
conjunction	-9993 Jan 04 j 13:45	4°♏11'53	-1°18'01
minimum elong	-9993 Jan 04 j 13:39	4°♏11'50	1°18'17
max. Earth dist.	-9993 Jan 06 j 00:18	4°♏32'05	6.06623 AU
morning rise	-9993 Jan 18 j 06:01	7°♏23'13	
	-9993 Feb 21 j 07:58	15°♏	
retrograde	-9993 May 28 j 18:31	27°♏11'47	
min. Earth dist.	-9993 Jul 26 j 09:25	22°♏13'49	4.08375 AU
opposition	-9993 Jul 27 j 05:34	22°♏06'56	-2°18'26
direct	-9993 Sep 23 j 13:10	17°♏07'44	
	-9993 Dec 30 j 22:17	0°♐	
evening set	-9992 Jan 28 j 01:36	6°♐16'56	
conjunction	-9992 Feb 10 j 18:19	9°♐26'11	-1°38'38
minimum elong	-9992 Feb 10 j 18:18	9°♐26'10	1°39'10
max. Earth dist.	-9992 Feb 11 j 21:02	9°♐41'35	6.10918 AU
morning rise	-9992 Feb 24 j 11:58	12°♐35'44	
	-9992 May 28 j 18:42	0°♑	
retrograde	-9992 Jul 01 j 05:27	1°♑47'53	
	-9992 Aug 03 j 09:07	30°℞♐	
opposition	-9992 Aug 29 j 07:22	26°♐45'03	-2°21'59
min. Earth dist.	-9992 Aug 28 j 18:38	26°♐49'25	4.14494 AU
direct	-9992 Oct 27 j 11:32	21°♐42'41	
	-9991 Jan 12 j 15:42	0°♑	
evening set	-9991 Mar 04 j 13:33	10°♑43'19	
conjunction	-9991 Mar 18 j 06:14	13°♑49'23	-1°24'08
minimum elong	-9991 Mar 18 j 06:19	13°♑49'26	1°24'43
max. Earth dist.	-9991 Mar 18 j 17:36	13°♑55'50	6.18340 AU
morning rise	-9991 Mar 31 j 21:31	16°♑54'38	
	-9991 Jun 04 j 18:28	0°♒	
retrograde	-9991 Aug 03 j 08:52	5°♒18'06	
opposition	-9991 Oct 01 j 09:17	0°♒18'53	-1°37'29
min. Earth dist.	-9991 Oct 01 j 08:34	0°♒19'07	4.22423 AU
	-9991 Oct 03 j 17:20	30°℞♑	
direct	-9991 Nov 30 j 18:46	25°♑14'45	
	-9990 Jan 27 j 09:27	0°♒	
evening set	-9990 Apr 08 j 15:25	13°♒57'08	
	-9990 Apr 13 j 08:18	15°♒	
conjunction	-9990 Apr 22 j 04:05	16°♒58'27	-0°42'06
minimum elong	-9990 Apr 22 j 04:09	16°♒58'30	0°42'32
max. Earth dist.	-9990 Apr 21 j 19:24	16°♒53'36	6.26220 AU
morning rise	-9990 May 05 j 13:56	19°♒58'14	
	-9990 Jun 22 j 21:59	0°♓	
retrograde	-9990 Sep 04 j 08:31	7°♓39'33	
opposition	-9990 Nov 02 j 18:28	2°♓44'03	-0°23'45
min. Earth dist.	-9990 Nov 03 j 05:11	2°♓40'30	4.29512 AU
	-9990 Nov 24 j 17:01	30°℞♒	
direct	-9989 Jan 03 j 07:44	27°♒39'58	
	-9989 Feb 12 j 07:46	0°♓	
asc. node	-9989 Feb 26 j 14:27	1°♓48'32	
evening set	-9989 May 12 j 02:19	16°♓03'07	
max. Earth dist.	-9989 May 24 j 08:07	18°♓46'05	6.32042 AU
conjunction	-9989 May 25 j 07:05	18°♓58'52	0°12'06
minimum elong	-9989 May 25 j 07:03	18°♓58'51	0°11'55
behind sun begin	-9989 May 25 j 01:28	18°♓55'45	
behind sun end	-9989 May 25 j 12:39	19°♓01'57	

Attention, astronomical year style is used: The year -9989 in astronomical counting style is the year 9990 BCE in historical counting style.

morning rise	-9989 Jun 07 j 08:13	21°♓52'47		
	-9989 Jul 15 j 22:31	0°♈		
retrograde	-9989 Oct 05 j 22:36	9°♈11'20		
opposition	-9989 Dec 04 j 22:48	4°♈18'37	0°55'17	
min. Earth dist.	-9989 Dec 05 j 18:08	4°♈12'22	4.33655 AU	
	-9988 Jan 14 j 07:13	30°℞♓		
direct	-9988 Feb 05 j 06:49	29°♓16'19		
	-9988 Feb 27 j 10:05	0°♈		
evening set	-9988 Jun 12 j 05:23	17°♈25'38		
max. Earth dist.	-9988 Jun 23 j 16:47	19°♈58'46	6.34120 AU	
conjunction	-9988 Jun 25 j 00:16	20°♈16'20	1°01'54	
minimum elong	-9988 Jun 25 j 00:11	20°♈16'17	1°02'02	
morning rise	-9988 Jul 07 j 16:15	23°♈05'34		
	-9988 Aug 09 j 01:09	0°♉		
retrograde	-9988 Nov 05 j 18:21	10°♉25'00		
opposition	-9987 Jan 05 j 10:45	5°♉33'19	1°57'39	
min. Earth dist.	-9987 Jan 06 j 09:11	5°♉26'10	4.33655 AU	
direct	-9987 Mar 08 j 22:35	0°♉33'45		
	-9987 Jun 27 j 01:51	15°♉		
evening set	-9987 Jul 13 j 13:23	18°♉37'30		
max. Earth dist.	-9987 Jul 24 j 19:57	21°♉09'24	6.31922 AU	
conjunction	-9987 Jul 26 j 00:39	21°♉25'35	1°33'40	
minimum elong	-9987 Jul 26 j 00:36	21°♉25'33	1°34'04	
morning rise	-9987 Aug 07 j 10:02	24°♉12'52		
	-9987 Sep 03 j 00:04	0°♊		
retrograde	-9987 Dec 08 j 10:34	11°♊54'55		
opposition	-9986 Feb 07 j 16:51	7°♊02'28	2°26'16	
min. Earth dist.	-9986 Feb 08 j 11:16	6°♊56'39	4.29505 AU	
direct	-9986 Apr 10 j 16:45	2°♊06'04		
evening set	-9986 Aug 13 j 18:27	20°♊12'08		
max. Earth dist.	-9986 Aug 25 j 07:13	22°♊49'55	6.26081 AU	
conjunction	-9986 Aug 26 j 03:20	23°♊01'25	1°38'08	
minimum elong	-9986 Aug 26 j 03:22	23°♊01'26	1°38'41	
morning rise	-9986 Sep 07 j 12:32	25°♊50'56		
	-9986 Sep 26 j 02:43	0°♋		
retrograde	-9985 Jan 11 j 10:19	14°♋11'25		
opposition	-9985 Mar 13 j 22:31	9°♋16'24	2°11'06	
min. Earth dist.	-9985 Mar 14 j 07:23	9°♋13'34	4.22363 AU	
direct	-9985 May 13 j 22:31	4°♋22'26		
evening set	-9985 Sep 14 j 14:25	22°♋37'56		
conjunction	-9985 Sep 27 j 04:05	25°♋32'28	1°12'20	
minimum elong	-9985 Sep 27 j 04:10	25°♋32'31	1°12'54	
max. Earth dist.	-9985 Sep 27 j 01:02	25°♋30'42	6.18301 AU	
morning rise	-9985 Oct 09 j 19:40	28°♋28'11		
	-9985 Oct 16 j 11:53	0°♌		
	-9984 Jan 05 j 05:22	15°♌		
retrograde	-9984 Feb 15 j 16:31	17°♌32'46		
	-9984 Mar 28 j 10:13	15°℞♌		
opposition	-9984 Apr 17 j 01:21	12°♌34'08	1°12'53	
min. Earth dist.	-9984 Apr 16 j 21:00	12°♌35'33	4.14449 AU	
direct	-9984 Jun 15 j 19:02	7°♌41'17		
	-9984 Aug 25 j 15:12	15°♌		
evening set	-9984 Oct 16 j 19:00	26°♌12'04		
conjunction	-9984 Oct 29 j 17:41	29°♌13'48	0°22'06	
minimum elong	-9984 Oct 29 j 17:44	29°♌13'49	0°22'27	
max. Earth dist.	-9984 Oct 30 j 07:54	29°♌22'07	6.11038 AU	
	-9984 Nov 02 j 00:31	0°♍		
morning rise	-9984 Nov 11 j 19:50	2°♍17'24		
retrograde	-9983 Mar 22 j 20:30	21°♍59'03		
desc. node	-9983 Mar 28 j 16:39	21°♍55'46		
opposition	-9983 May 22 j 16:27	16°♍56'39	-0°12'23	
min. Earth dist.	-9983 May 22 j 00:22	17°♍01'59	4.08410 AU	
direct	-9983 Jul 20 j 08:32	12°♍02'56		
	-9983 Nov 17 j 00:36	0°♎		
evening set	-9983 Nov 20 j 17:56	0°♎52'01		
conjunction	-9983 Dec 04 j 02:08	3°♎59'44	-0°36'55	
minimum elong	-9983 Dec 04 j 02:04	3°♎59'41	0°36'53	
max. Earth dist.	-9983 Dec 05 j 08:23	4°♎17'30	6.06795 AU	
morning rise	-9983 Dec 17 j 13:40	7°♎09'15		
retrograde	-9982 Apr 28 j 03:50	27°♎06'49		
min. Earth dist.	-9982 Jun 26 j 08:08	22°♎09'21	4.06463 AU	
opposition	-9982 Jun 27 j 05:37	22°♎02'05	-1°34'40	
direct	-9982 Aug 24 j 09:18	17°♎05'50		
	-9982 Nov 29 j 23:22	0°♏		
evening set	-9982 Dec 27 j 06:02	6°♏09'54		
conjunction	-9981 Jan 09 j 20:16	9°♏19'53	-1°23'00	
minimum elong	-9981 Jan 09 j 20:11	9°♏19'50	1°23'18	
max. Earth dist.	-9981 Jan 11 j 05:28	9°♏39'14	6.07185 AU	
morning rise	-9981 Jan 23 j 13:05	12°♏31'04		
	-9981 Feb 03 j 08:39	15°♏		
	-9981 Apr 25 j 21:37	0°♐		
retrograde	-9981 Jun 02 j 16:17	2°♐14'54		
	-9981 Jul 10 j 02:55	30°℞♏		
min. Earth dist.	-9981 Jul 31 j 06:44	27°♏16'59	4.09279 AU	
opposition	-9981 Aug 01 j 02:40	27°♏10'10	-2°22'09	
direct	-9981 Sep 28 j 12:39	22°♏10'27		
	-9981 Dec 11 j 02:25	0°♐		
evening set	-9980 Feb 02 j 06:30	11°♐18'22		
conjunction	-9980 Feb 15 j 23:29	14°♐27'11	-1°38'40	
minimum elong	-9980 Feb 15 j 23:30	14°♐27'11	1°39'12	
max. Earth dist.	-9980 Feb 17 j 01:14	14°♐41'59	6.12077 AU	
morning rise	-9980 Feb 29 j 16:49	17°♐36'05		
	-9980 Apr 29 j 04:55	0°♑		
retrograde	-9980 Jul 06 j 00:07	6°♑40'52		
opposition	-9980 Sep 03 j 00:19	1°♑38'32	-2°18'17	
min. Earth dist.	-9980 Sep 02 j 13:48	1°♑42'08	4.15777 AU	
	-9980 Sep 15 j 06:44	30°℞♐		
direct	-9980 Nov 01 j 08:41	26°♐35'52		
	-9980 Dec 18 j 15:27	0°♑		
evening set	-9979 Mar 09 j 13:42	15°♑33'36		
conjunction	-9979 Mar 23 j 06:02	18°♑39'01	-1°19'36	
minimum elong	-9979 Mar 23 j 06:07	18°♑39'04	1°20'10	
max. Earth dist.	-9979 Mar 23 j 13:59	18°♑43'31	6.19642 AU	
morning rise	-9979 Apr 05 j 20:50	21°♑43'30		
	-9979 May 14 j 10:33	0°♒		
retrograde	-9979 Aug 07 j 20:18	9°♒59'54		
opposition	-9979 Oct 05 j 22:43	5°♒01'15	-1°28'24	
min. Earth dist.	-9979 Oct 05 j 23:20	5°♒01'02	4.23629 AU	
	-9979 Nov 29 j 23:14	30°℞♑		
direct	-9979 Dec 05 j 11:49	29°♑57'02		
	-9979 Dec 11 j 01:15	0°♒		
	-9978 Mar 27 j 22:07	15°♒		
evening set	-9978 Apr 13 j 09:47	18°♒36'24		
conjunction	-9978 Apr 26 j 21:34	21°♒36'57	-0°34'52	
minimum elong	-9978 Apr 26 j 21:37	21°♒36'59	0°35'17	
max. Earth dist.	-9978 Apr 26 j 10:23	21°♒30'42	6.27263 AU	
morning rise	-9978 May 10 j 06:19	24°♒35'53		
	-9978 Jun 04 j 04:54	0°♓		
retrograde	-9978 Sep 08 j 19:21	12°♓12'40		
opposition	-9978 Nov 07 j 06:17	7°♓17'43	-0°12'29	
min. Earth dist.	-9978 Nov 07 j 19:06	7°♓13'30	4.30306 AU	
asc. node	-9977 Jan 06 j 23:05	2°♓13'57		
direct	-9977 Jan 07 j 23:21	2°♓13'51		
evening set	-9977 May 16 j 15:45	20°♓34'50		

Attention, astronomical year style is used: The year -9977 in astronomical counting style is the year 9978 BCE in historical counting style.

conjunction	-9977 May 29 j 19:12	23°♓29'51	0°19'39
minimum elong	-9977 May 29 j 19:10	23°♓29'50	0°19'32
max. Earth dist.	-9977 May 28 j 17:39	23°♓15'39	6.32519 AU
morning rise	-9977 Jun 11 j 19:07	26°♓23'05	
	-9977 Jun 28 j 09:17	0°♈	
retrograde	-9977 Oct 10 j 08:22	13°♈40'41	
opposition	-9977 Dec 09 j 11:07	8°♈48'13	1°05'28
min. Earth dist.	-9977 Dec 10 j 07:07	8°♈41'46	4.33812 AU
direct	-9976 Feb 09 j 20:08	3°♈46'15	
evening set	-9976 Jun 16 j 15:33	21°♈54'50	
max. Earth dist.	-9976 Jun 28 j 02:27	24°♈27'51	6.33942 AU
conjunction	-9976 Jun 29 j 09:16	24°♈45'04	1°07'42
minimum elong	-9976 Jun 29 j 09:11	24°♈45'02	1°07'52
morning rise	-9976 Jul 11 j 24:00	27°♈33'53	
	-9976 Jul 23 j 01:37	0°♉	
retrograde	-9976 Nov 10 j 07:01	14°♉55'48	
opposition	-9975 Jan 10 j 01:36	10°♉04'12	2°04'01
min. Earth dist.	-9975 Jan 10 j 23:56	9°♉57'06	4.33176 AU
direct	-9975 Mar 13 j 12:52	5°♉05'10	
	-9975 Jun 09 j 14:06	15°♉	
evening set	-9975 Jul 17 j 22:44	23°♉09'20	
max. Earth dist.	-9975 Jul 29 j 04:05	25°♉40'57	6.31168 AU
conjunction	-9975 Jul 30 j 09:11	25°♉57'22	1°36'04
minimum elong	-9975 Jul 30 j 09:08	25°♉57'21	1°36'31
morning rise	-9975 Aug 11 j 18:18	28°♉44'48	
	-9975 Aug 17 j 08:50	0°♊	
retrograde	-9975 Dec 13 j 03:53	16°♊31'57	
opposition	-9974 Feb 12 j 11:16	11°♊39'15	2°26'54
min. Earth dist.	-9974 Feb 13 j 04:28	11°♊33'48	4.28555 AU
direct	-9974 Apr 15 j 08:26	6°♊43'16	
evening set	-9974 Aug 18 j 05:05	24°♊50'35	
conjunction	-9974 Aug 30 j 14:25	27°♊40'25	1°36'17
minimum elong	-9974 Aug 30 j 14:27	27°♊40'26	1°36'51
max. Earth dist.	-9974 Aug 29 j 21:55	27°♊30'58	6.25042 AU
	-9974 Sep 09 j 18:18	0°♋	
morning rise	-9974 Sep 11 j 23:59	0°♋30'35	
retrograde	-9973 Jan 16 j 07:49	18°♋57'02	
opposition	-9973 Mar 18 j 20:18	14°♋01'36	2°05'16
min. Earth dist.	-9973 Mar 19 j 03:04	13°♋59'27	4.21322 AU
direct	-9973 May 18 j 16:07	9°♋07'58	
evening set	-9973 Sep 19 j 04:34	27°♋24'52	
	-9973 Sep 30 j 08:17	0°♌	
conjunction	-9973 Oct 01 j 19:08	0°♌20'15	1°06'29
minimum elong	-9973 Oct 01 j 19:13	0°♌20'18	1°07'01
max. Earth dist.	-9973 Oct 01 j 18:00	0°♌19'35	6.17358 AU
morning rise	-9973 Oct 14 j 12:08	3°♌16'58	
	-9973 Dec 08 j 21:46	15°♌	
retrograde	-9972 Feb 20 j 17:21	22°♌26'45	
opposition	-9972 Apr 22 j 01:06	17°♌27'29	1°01'58
min. Earth dist.	-9972 Apr 21 j 18:26	17°♌29'39	4.13666 AU
	-9972 May 11 j 21:21	15°℞♌	
direct	-9972 Jun 20 j 14:54	12°♌34'35	
	-9972 Jul 29 j 17:20	15°♌	
	-9972 Oct 16 j 18:40	0°♍	
evening set	-9972 Oct 21 j 13:46	1°♍06'48	
conjunction	-9972 Nov 03 j 13:56	4°♍09'23	0°13'56
minimum elong	-9972 Nov 03 j 13:57	4°♍09'24	0°14'14
behind sun begin	-9972 Nov 03 j 10:01	4°♍07'06	
behind sun end	-9972 Nov 03 j 17:54	4°♍11'42	
max. Earth dist.	-9972 Nov 04 j 08:08	4°♍20'02	6.10498 AU
morning rise	-9972 Nov 16 j 17:21	7°♍13'48	
desc. node	-9971 Feb 05 j 17:38	23°♍15'33	
retrograde	-9971 Mar 27 j 22:08	26°♍57'55	
opposition	-9971 May 27 j 15:48	21°♍55'04	-0°24'47
min. Earth dist.	-9971 May 26 j 22:55	22°♍00'41	4.08169 AU
direct	-9971 Jul 25 j 05:37	17°♍01'06	
	-9971 Oct 30 j 24:00	0°♎	
evening set	-9971 Nov 25 j 17:44	5°♎51'23	
conjunction	-9971 Dec 09 j 02:45	8°♎59'26	-0°44'33
minimum elong	-9971 Dec 09 j 02:40	8°♎59'23	0°44'35
max. Earth dist.	-9971 Dec 10 j 08:38	9°♎16'58	6.06841 AU
morning rise	-9971 Dec 22 j 15:21	12°♎09'19	
	-9970 Mar 27 j 08:50	0°♏	
retrograde	-9970 May 03 j 01:36	2°♏05'37	
	-9970 Jun 08 j 11:28	30°℞♎	
min. Earth dist.	-9970 Jul 01 j 04:07	27°♎08'12	4.06805 AU
opposition	-9970 Jul 02 j 02:17	27°♎00'40	-1°43'51
direct	-9970 Aug 29 j 05:58	22°♎03'54	
	-9970 Nov 10 j 16:32	0°♏	
evening set	-9969 Jan 01 j 08:07	11°♏08'27	
conjunction	-9969 Jan 14 j 23:01	14°♏18'23	-1°27'12
minimum elong	-9969 Jan 14 j 22:56	14°♏18'20	1°27'34
max. Earth dist.	-9969 Jan 16 j 08:18	14°♏37'46	6.07775 AU
	-9969 Jan 17 j 22:31	15°♏	
morning rise	-9969 Jan 28 j 15:56	17°♏29'18	
	-9969 Mar 28 j 20:55	0°♐	
retrograde	-9969 Jun 07 j 12:27	7°♐08'36	
opposition	-9969 Aug 05 j 20:06	2°♐04'04	-2°24'44
min. Earth dist.	-9969 Aug 05 j 02:10	2°♐10'12	4.10055 AU
	-9969 Aug 21 j 10:15	30°℞♏	
direct	-9969 Oct 03 j 09:01	27°♏03'52	
	-9969 Nov 15 j 09:46	0°♐	
evening set	-9968 Feb 07 j 07:35	16°♐11'00	
conjunction	-9968 Feb 21 j 00:37	19°♐19'28	-1°38'01
minimum elong	-9968 Feb 21 j 00:38	19°♐19'28	1°38'33
max. Earth dist.	-9968 Feb 21 j 23:34	19°♐32'38	6.12955 AU
morning rise	-9968 Mar 05 j 17:52	22°♐27'54	
	-9968 Apr 09 j 02:25	0°♑	
retrograde	-9968 Jul 10 j 13:22	11°♑26'34	
opposition	-9968 Sep 07 j 14:20	6°♑24'41	-2°13'48
min. Earth dist.	-9968 Sep 07 j 04:44	6°♑27'57	4.16682 AU
direct	-9968 Nov 06 j 01:22	1°♑21'41	
evening set	-9967 Mar 14 j 11:19	20°♑17'54	
conjunction	-9967 Mar 28 j 03:16	23°♑22'49	-1°14'37
minimum elong	-9967 Mar 28 j 03:21	23°♑22'52	1°15'10
max. Earth dist.	-9967 Mar 28 j 07:48	23°♑25'23	6.20520 AU
morning rise	-9967 Apr 10 j 17:30	26°♑26'43	
	-9967 Apr 26 j 18:51	0°♒	
retrograde	-9967 Aug 12 j 08:57	14°♒37'46	
opposition	-9967 Oct 10 j 10:55	9°♒39'39	-1°18'54
min. Earth dist.	-9967 Oct 10 j 14:13	9°♒38'33	4.24389 AU
direct	-9967 Dec 10 j 04:37	4°♒35'23	
	-9966 Mar 10 j 06:43	15°♒	
evening set	-9966 Apr 18 j 02:56	23°♒13'07	
conjunction	-9966 May 01 j 13:56	26°♒13'06	-0°27'30
minimum elong	-9966 May 01 j 13:59	26°♒13'08	0°27'53
max. Earth dist.	-9966 May 01 j 00:49	26°♒05'47	6.27861 AU
morning rise	-9966 May 14 j 21:38	29°♒11'24	
	-9966 May 18 j 13:26	0°♓	
retrograde	-9966 Sep 13 j 04:42	16°♓45'16	
opposition	-9966 Nov 11 j 18:19	11°♓50'42	-0°01'12
min. Earth dist.	-9966 Nov 12 j 07:32	11°♓46'22	4.30714 AU
asc. node	-9966 Nov 17 j 14:04	11°♓05'01	
direct	-9965 Jan 12 j 13:15	6°♓47'02	

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

evening set	-9965 May 21 j 05:11	25°♓06'53	
max. Earth dist.	-9965 Jun 02 j 04:47	27°♓46'31	6.32719 AU
conjunction	-9965 Jun 03 j 07:16	28°♓01'16	0°27'07
minimum elong	-9965 Jun 03 j 07:13	28°♓01'14	0°27'02
	-9965 Jun 12 j 04:39	0°♈	
morning rise	-9965 Jun 16 j 05:54	0°♈53'53	
retrograde	-9965 Oct 14 j 20:29	18°♈11'26	
opposition	-9965 Dec 14 j 00:44	13°♈19'14	1°15'18
min. Earth dist.	-9965 Dec 14 j 21:43	13°♈12'29	4.33803 AU
direct	-9964 Feb 14 j 11:38	8°♈17'41	
evening set	-9964 Jun 21 j 02:28	26°♈25'37	
max. Earth dist.	-9964 Jul 02 j 11:46	28°♈57'58	6.33708 AU
conjunction	-9964 Jul 03 j 18:56	29°♈15'23	1°13'07
minimum elong	-9964 Jul 03 j 18:51	29°♈15'21	1°13'20
	-9964 Jul 07 j 02:42	0°♉	
morning rise	-9964 Jul 16 j 08:40	2°♉03'50	
	-9964 Sep 20 j 10:32	15°♉	
retrograde	-9964 Nov 14 j 20:21	19°♉28'15	
	-9963 Jan 11 j 15:44	15°℞♉	
opposition	-9963 Jan 14 j 17:30	14°♉36'34	2°09'41
min. Earth dist.	-9963 Jan 15 j 14:41	14°♉29'51	4.32760 AU
direct	-9963 Mar 18 j 03:05	9°♉37'58	
	-9963 May 19 j 14:27	15°♉	
evening set	-9963 Jul 22 j 08:32	27°♉41'58	
	-9963 Aug 01 j 13:28	0°♊	
conjunction	-9963 Aug 03 j 18:28	0°♊29'58	1°37'55
minimum elong	-9963 Aug 03 j 18:26	0°♊29'57	1°38'23
max. Earth dist.	-9963 Aug 02 j 16:11	0°♊15'07	6.30594 AU
morning rise	-9963 Aug 16 j 03:04	3°♊17'26	
retrograde	-9963 Dec 17 j 21:30	21°♊08'51	
opposition	-9962 Feb 17 j 06:04	16°♊15'53	2°26'35
min. Earth dist.	-9962 Feb 17 j 22:20	16°♊10'44	4.27845 AU
direct	-9962 Apr 20 j 00:58	11°♊20'19	
evening set	-9962 Aug 22 j 15:33	29°♊27'50	
	-9962 Aug 24 j 23:59	0°♋	
max. Earth dist.	-9962 Sep 03 j 09:27	2°♋09'09	6.24236 AU
conjunction	-9962 Sep 04 j 01:04	2°♋18'07	1°33'50
minimum elong	-9962 Sep 04 j 01:06	2°♋18'08	1°34'25
morning rise	-9962 Sep 16 j 11:24	5°♋08'55	
retrograde	-9961 Jan 21 j 04:25	23°♋40'36	
opposition	-9961 Mar 23 j 17:23	18°♋44'39	1°58'39
min. Earth dist.	-9961 Mar 23 j 21:53	18°♋43'12	4.20451 AU
direct	-9961 May 23 j 08:41	13°♋51'12	
	-9961 Sep 14 j 08:36	0°♌	
evening set	-9961 Sep 23 j 17:59	2°♌09'09	
conjunction	-9961 Oct 06 j 09:50	5°♌05'25	1°00'13
minimum elong	-9961 Oct 06 j 09:55	5°♌05'28	1°00'43
max. Earth dist.	-9961 Oct 06 j 12:28	5°♌06'58	6.16513 AU
morning rise	-9961 Oct 19 j 03:58	8°♌03'05	
	-9961 Nov 19 j 07:58	15°♌	
retrograde	-9960 Feb 25 j 17:39	27°♌17'40	
opposition	-9960 Apr 26 j 23:29	22°♌17'56	0°50'42
min. Earth dist.	-9960 Apr 26 j 16:00	22°♌20'22	4.12899 AU
direct	-9960 Jun 25 j 10:01	17°♌25'02	
	-9960 Sep 29 j 22:45	0°♍	
evening set	-9960 Oct 26 j 08:23	5°♍59'11	
conjunction	-9960 Nov 08 j 09:42	9°♍02'35	0°05'43
minimum elong	-9960 Nov 08 j 09:42	9°♍02'35	0°06'00
behind sun begin	-9960 Nov 08 j 01:55	8°♍58'03	
behind sun end	-9960 Nov 08 j 17:28	9°♍07'08	
max. Earth dist.	-9960 Nov 09 j 04:20	9°♍13'31	6.09878 AU
morning rise	-9960 Nov 21 j 14:41	12°♍07'57	
desc. node	-9960 Dec 16 j 17:47	17°♍50'06	
	-9959 Feb 25 j 12:30	0°♎	
retrograde	-9959 Apr 01 j 21:24	1°♎54'58	
	-9959 May 07 j 02:43	30°℞♍	
opposition	-9959 Jun 01 j 13:59	26°♍51'44	-0°36'57
min. Earth dist.	-9959 May 31 j 19:26	26°♍57'55	4.07756 AU
direct	-9959 Jul 30 j 01:04	21°♍57'27	
	-9959 Oct 11 j 22:05	0°♎	
evening set	-9959 Nov 30 j 17:29	10°♎50'04	
conjunction	-9959 Dec 14 j 03:39	13°♎58'39	-0°51'51
minimum elong	-9959 Dec 14 j 03:34	13°♎58'36	0°51'56
max. Earth dist.	-9959 Dec 15 j 11:26	14°♎17'17	6.06671 AU
morning rise	-9959 Dec 27 j 16:59	17°♎08'54	
	-9958 Feb 26 j 08:17	0°♏	
retrograde	-9958 May 08 j 02:20	7°♏04'57	
opposition	-9958 Jul 06 j 23:07	1°♏59'56	-1°52'19
min. Earth dist.	-9958 Jul 06 j 02:08	2°♏07'05	4.06899 AU
	-9958 Jul 22 j 02:41	30°℞♎	
direct	-9958 Sep 03 j 03:41	27°♎02'43	
	-9958 Oct 15 j 22:11	0°♏	
	-9957 Jan 01 j 11:41	15°♏	
evening set	-9957 Jan 06 j 11:17	16°♏08'53	
conjunction	-9957 Jan 20 j 02:38	19°♏18'51	-1°30'48
minimum elong	-9957 Jan 20 j 02:33	19°♏18'49	1°31'12
max. Earth dist.	-9957 Jan 21 j 10:33	19°♏37'25	6.08100 AU
morning rise	-9957 Feb 02 j 19:56	22°♏29'44	
	-9957 Mar 08 j 13:48	0°♐	
retrograde	-9957 Jun 12 j 07:30	12°♐05'17	
opposition	-9957 Aug 10 j 14:10	7°♐01'00	-2°26'21
min. Earth dist.	-9957 Aug 09 j 20:28	7°♐07'04	4.10596 AU
direct	-9957 Oct 08 j 03:56	2°♐00'22	
evening set	-9956 Feb 12 j 10:23	21°♐07'41	
conjunction	-9956 Feb 26 j 03:30	24°♐15'54	-1°36'39
minimum elong	-9956 Feb 26 j 03:32	24°♐15'55	1°37'13
max. Earth dist.	-9956 Feb 26 j 23:23	24°♐27'18	6.13662 AU
morning rise	-9956 Mar 10 j 20:36	27°♐23'57	
	-9956 Mar 22 j 09:33	0°♑	
retrograde	-9956 Jul 15 j 06:30	16°♑17'05	
opposition	-9956 Sep 12 j 06:12	11°♑15'40	-2°08'21
min. Earth dist.	-9956 Sep 11 j 23:07	11°♑18'05	4.17461 AU
direct	-9956 Nov 10 j 21:50	6°♑12'23	
evening set	-9955 Mar 19 j 10:30	25°♑07'20	
conjunction	-9955 Apr 02 j 02:14	28°♑11'50	-1°09'04
minimum elong	-9955 Apr 02 j 02:19	28°♑11'53	1°09'35
max. Earth dist.	-9955 Apr 02 j 05:13	28°♑13'31	6.21329 AU
	-9955 Apr 10 j 02:00	0°♒	
morning rise	-9955 Apr 15 j 15:45	1°♒15'09	
	-9955 Jun 24 j 09:43	15°♒	
retrograde	-9955 Aug 16 j 21:24	19°♒21'03	
	-9955 Oct 10 j 11:46	15°℞♒	
opposition	-9955 Oct 15 j 01:11	14°♒23'29	-1°08'44
min. Earth dist.	-9955 Oct 15 j 04:55	14°♒22'14	4.25157 AU
direct	-9955 Dec 14 j 21:40	9°♒19'14	
	-9954 Feb 16 j 20:46	15°♒	
evening set	-9954 Apr 22 j 21:48	27°♒55'06	
	-9954 May 02 j 06:16	0°♓	
conjunction	-9954 May 06 j 07:38	0°♓54'23	-0°19'49
minimum elong	-9954 May 06 j 07:40	0°♓54'24	0°20'09
max. Earth dist.	-9954 May 05 j 15:43	0°♓45'30	6.28555 AU
morning rise	-9954 May 19 j 14:20	3°♓51'57	
retrograde	-9954 Sep 17 j 17:58	21°♓22'39	

Attention, astronomical year style is used: The year -9954 in astronomical counting style is the year 9955 BCE in historical counting style.

asc. node	-9954 Sep 27 j 04:41	21°♓13'50		
opposition	-9954 Nov 16 j 08:23	16°♓28'31	0°10'16	
min. Earth dist.	-9954 Nov 16 j 23:23	16°♓23'37	4.31291 AU	
direct	-9953 Jan 17 j 07:21	11°♓25'04		
evening set	-9953 May 25 j 19:37	29°♓42'54		
	-9953 May 27 j 02:34	0°♈		
conjunction	-9953 Jun 07 j 20:26	2°♈36'32	0°34'30	
minimum elong	-9953 Jun 07 j 20:23	2°♈36'30	0°34'27	
max. Earth dist.	-9953 Jun 06 j 18:03	2°♈21'51	6.33146 AU	
morning rise	-9953 Jun 20 j 17:39	5°♈28'24		
retrograde	-9953 Oct 19 j 07:32	22°♈45'10		
opposition	-9953 Dec 18 j 15:21	17°♈53'05	1°24'44	
min. Earth dist.	-9953 Dec 19 j 11:26	17°♈46'38	4.34079 AU	
direct	-9952 Feb 19 j 02:11	12°♈51'55		
	-9952 Jun 21 j 04:31	0°♉		
evening set	-9952 Jun 25 j 13:26	0°♉57'59		
max. Earth dist.	-9952 Jul 06 j 22:14	3°♉30'10	6.33800 AU	
conjunction	-9952 Jul 08 j 04:36	3°♉47'09	1°18'06	
minimum elong	-9952 Jul 08 j 04:31	3°♉47'07	1°18'23	
morning rise	-9952 Jul 20 j 17:15	6°♉35'06		
	-9952 Aug 29 j 15:10	15°♉		
retrograde	-9952 Nov 19 j 11:00	24°♉01'02		
opposition	-9951 Jan 19 j 09:44	19°♉09'16	2°14'29	
min. Earth dist.	-9951 Jan 20 j 07:08	19°♉02'29	4.32659 AU	
	-9951 Feb 27 j 09:41	15°℞♉		
direct	-9951 Mar 22 j 19:26	14°♉11'03		
	-9951 Apr 15 j 03:45	15°♉		
	-9951 Jul 16 j 17:23	0°♊		
evening set	-9951 Jul 26 j 17:24	2°♊13'36		
max. Earth dist.	-9951 Aug 07 j 01:07	4°♊46'57	6.30285 AU	
conjunction	-9951 Aug 08 j 02:46	5°♊01'28	1°39'07	
minimum elong	-9951 Aug 08 j 02:45	5°♊01'27	1°39'37	
morning rise	-9951 Aug 20 j 11:12	7°♊48'57		
retrograde	-9951 Dec 22 j 12:54	25°♊43'47		
opposition	-9950 Feb 21 j 23:49	20°♊50'25	2°25'18	
min. Earth dist.	-9950 Feb 22 j 14:03	20°♊45'54	4.27349 AU	
direct	-9950 Apr 24 j 15:02	15°♊55'08		
	-9950 Aug 09 j 00:18	0°♋		
evening set	-9950 Aug 27 j 00:45	4°♋02'12		
conjunction	-9950 Sep 08 j 10:47	6°♋52'56	1°30'48	
minimum elong	-9950 Sep 08 j 10:51	6°♋52'58	1°31'24	
max. Earth dist.	-9950 Sep 07 j 22:12	6°♋45'42	6.23597 AU	
morning rise	-9950 Sep 20 j 21:40	9°♋44'17		
retrograde	-9949 Jan 26 j 00:48	28°♋20'33		
opposition	-9949 Mar 28 j 12:51	23°♋24'06	1°51'18	
min. Earth dist.	-9949 Mar 28 j 16:55	23°♋22'48	4.19687 AU	
direct	-9949 May 28 j 01:32	18°♋30'47		
	-9949 Aug 28 j 15:47	0°♌		
evening set	-9949 Sep 28 j 06:09	6°♌49'37		
conjunction	-9949 Oct 10 j 23:02	9°♌46'43	0°53'39	
minimum elong	-9949 Oct 10 j 23:06	9°♌46'46	0°54'08	
max. Earth dist.	-9949 Oct 11 j 02:10	9°♌48'33	6.15695 AU	
morning rise	-9949 Oct 23 j 18:43	12°♌45'23		
	-9949 Nov 02 j 13:25	15°♌		
	-9948 Jan 24 j 09:26	0°♍		
retrograde	-9948 Mar 01 j 14:18	2°♍04'43		
	-9948 Apr 07 j 20:31	30°℞♌		
opposition	-9948 May 01 j 20:04	27°♌04'25	0°39'14	
min. Earth dist.	-9948 May 01 j 10:31	27°♌07'33	4.12084 AU	
direct	-9948 Jun 30 j 02:10	22°♌11'24		
	-9948 Sep 11 j 05:51	0°♍		
desc. node	-9948 Oct 27 j 10:14	9°♍57'03		
evening set	-9948 Oct 31 j 01:47	10°♍47'57		
conjunction	-9948 Nov 13 j 04:34	13°♍52'17	-0°02'33	
minimum elong	-9948 Nov 13 j 04:33	13°♍52'16	0°02'19	
behind sun begin	-9948 Nov 12 j 20:22	13°♍47'29		
behind sun end	-9948 Nov 13 j 12:44	13°♍57'03		
max. Earth dist.	-9948 Nov 14 j 01:46	14°♍04'43	6.09149 AU	
morning rise	-9948 Nov 26 j 10:45	16°♍58'31		
	-9947 Jan 27 j 04:27	0°♎		
retrograde	-9947 Apr 06 j 22:28	6°♎48'54		
opposition	-9947 Jun 06 j 11:01	1°♎45'20	-0°48'43	
min. Earth dist.	-9947 Jun 05 j 16:59	1°♎51'22	4.07185 AU	
	-9947 Jun 19 j 21:02	30°℞♍		
direct	-9947 Aug 03 j 21:01	26°♍50'43		
	-9947 Sep 17 j 02:43	0°♎		
evening set	-9947 Dec 05 j 17:09	15°♎46'33		
conjunction	-9947 Dec 19 j 04:13	18°♎55'40	-0°58'42	
minimum elong	-9947 Dec 19 j 04:07	18°♎55'37	0°58'49	
max. Earth dist.	-9947 Dec 20 j 11:52	19°♎14'13	6.06302 AU	
morning rise	-9946 Jan 01 j 18:32	22°♎06'27		
	-9946 Feb 06 j 01:27	0°♏		
retrograde	-9946 May 13 j 00:30	12°♏02'43		
opposition	-9946 Jul 11 j 19:08	6°♏57'42	-1°59'53	
min. Earth dist.	-9946 Jul 10 j 21:35	7°♏05'03	4.06809 AU	
direct	-9946 Sep 07 j 22:23	2°♏00'02		
	-9946 Dec 15 j 07:37	15°♏		
evening set	-9945 Jan 11 j 14:45	21°♏08'42		
conjunction	-9945 Jan 25 j 06:35	24°♏18'47	-1°33'41	
minimum elong	-9945 Jan 25 j 06:32	24°♏18'45	1°34'06	
max. Earth dist.	-9945 Jan 26 j 13:02	24°♏36'28	6.08288 AU	
morning rise	-9945 Feb 08 j 00:10	27°♏29'39		
	-9945 Feb 18 j 23:22	0°♐		
retrograde	-9945 Jun 17 j 04:10	17°♐01'55		
opposition	-9945 Aug 15 j 08:42	11°♐57'55	-2°26'51	
min. Earth dist.	-9945 Aug 14 j 16:43	12°♐03'24	4.11047 AU	
direct	-9945 Oct 13 j 01:46	6°♐56'51		
evening set	-9944 Feb 17 j 13:19	26°♐04'26		
conjunction	-9944 Mar 02 j 06:39	29°♐12'26	-1°34'33	
minimum elong	-9944 Mar 02 j 06:42	29°♐12'28	1°35'08	
max. Earth dist.	-9944 Mar 03 j 02:04	29°♐23'33	6.14355 AU	
	-9944 Mar 05 j 17:48	0°♑		
morning rise	-9944 Mar 15 j 23:26	2°♑20'04		
retrograde	-9944 Jul 19 j 22:38	21°♑07'29		
opposition	-9944 Sep 16 j 22:21	16°♑06'36	-2°01'58	
min. Earth dist.	-9944 Sep 16 j 15:44	16°♑08'51	4.18328 AU	
direct	-9944 Nov 15 j 16:45	11°♑03'07		
evening set	-9943 Mar 24 j 09:50	29°♑56'13		
	-9943 Mar 24 j 16:36	0°♒		
conjunction	-9943 Apr 07 j 00:52	3°♒00'06	-1°03'00	
minimum elong	-9943 Apr 07 j 00:58	3°♒00'09	1°03'31	
max. Earth dist.	-9943 Apr 07 j 00:23	2°♒59'49	6.22309 AU	
morning rise	-9943 Apr 20 j 13:50	6°♒02'44		
	-9943 Jun 01 j 19:52	15°♒		
retrograde	-9943 Aug 21 j 11:10	24°♒02'54		
opposition	-9943 Oct 19 j 15:22	19°♒05'49	-0°58'07	
min. Earth dist.	-9943 Oct 19 j 21:13	19°♒03'52	4.26136 AU	
	-9943 Nov 24 j 17:22	15°℞♒		
direct	-9943 Dec 19 j 17:01	14°♒01'32		
	-9942 Jan 13 j 22:28	15°♒		
	-9942 Apr 15 j 21:37	0°♓		
evening set	-9942 Apr 27 j 15:29	2°♓34'31		
max. Earth dist.	-9942 May 10 j 08:11	5°♓23'59	6.29459 AU	

Attention, astronomical year style is used: The year -9942 in astronomical counting style is the year 9943 BCE in historical counting style.

conjunction	-9942 May 11 j 00:23	5°♓33'01	-0°12'03
minimum elong	-9942 May 11 j 00:24	5°♓33'01	0°12'21
behind sun begin	-9942 May 10 j 19:04	5°♓30'04	
behind sun end	-9942 May 11 j 05:44	5°♓35'59	
morning rise	-9942 May 24 j 05:41	8°♓29'42	
asc. node	-9942 Aug 06 j 11:05	22°♓36'36	
retrograde	-9942 Sep 22 j 03:56	25°♓56'40	
opposition	-9942 Nov 20 j 21:24	21°♓02'55	0°21'35
min. Earth dist.	-9942 Nov 21 j 12:33	20°♓57'58	4.32027 AU
direct	-9941 Jan 21 j 22:05	15°♓59'43	
	-9941 May 10 j 17:27	0°♈	
evening set	-9941 May 30 j 08:21	4°♈14'58	
max. Earth dist.	-9941 Jun 11 j 03:09	6°♈51'57	6.33625 AU
conjunction	-9941 Jun 12 j 07:34	7°♈07'46	0°41'36
minimum elong	-9941 Jun 12 j 07:30	7°♈07'44	0°41'36
morning rise	-9941 Jun 25 j 03:34	9°♈58'55	
retrograde	-9941 Oct 23 j 19:54	27°♈15'10	
opposition	-9941 Dec 23 j 04:59	22°♈23'15	1°33'36
min. Earth dist.	-9941 Dec 24 j 02:36	22°♈16'20	4.34260 AU
direct	-9940 Feb 23 j 17:33	17°♈22'25	
	-9940 Jun 04 j 17:06	0°♉	
evening set	-9940 Jun 29 j 22:49	5°♉27'09	
max. Earth dist.	-9940 Jul 11 j 07:07	7°♉59'10	6.33640 AU
conjunction	-9940 Jul 12 j 12:59	8°♉15'54	1°22'38
minimum elong	-9940 Jul 12 j 12:55	8°♉15'51	1°22'56
morning rise	-9940 Jul 25 j 00:38	11°♉03'29	
	-9940 Aug 12 j 00:37	15°♉	
retrograde	-9940 Nov 23 j 23:30	28°♉32'05	
opposition	-9939 Jan 24 j 01:03	23°♉40'13	2°18'34
min. Earth dist.	-9939 Jan 24 j 21:11	23°♉33'50	4.32184 AU
direct	-9939 Mar 27 j 07:54	18°♉42'26	
	-9939 Jun 29 j 21:48	0°♊	
evening set	-9939 Jul 31 j 02:08	6°♊45'09	
max. Earth dist.	-9939 Aug 11 j 10:43	9°♊19'17	6.29519 AU
conjunction	-9939 Aug 12 j 11:08	9°♊33'08	1°39'47
minimum elong	-9939 Aug 12 j 11:08	9°♊33'08	1°40'18
morning rise	-9939 Aug 24 j 19:28	12°♊20'54	
	-9939 Dec 12 j 05:11	0°♋	
retrograde	-9939 Dec 27 j 08:01	0°♋21'00	
	-9938 Jan 11 j 09:20	30°℞♊	
opposition	-9938 Feb 26 j 18:28	25°♊27'20	2°23'13
min. Earth dist.	-9938 Feb 27 j 08:41	25°♊22'49	4.26326 AU
direct	-9938 Apr 29 j 07:16	20°♊32'23	
	-9938 Jul 22 j 07:19	0°♋	
evening set	-9938 Aug 31 j 11:24	8°♋40'58	
conjunction	-9938 Sep 12 j 22:04	11°♋32'29	1°27'12
minimum elong	-9938 Sep 12 j 22:08	11°♋32'31	1°27'47
max. Earth dist.	-9938 Sep 12 j 10:28	11°♋25'48	6.22407 AU
morning rise	-9938 Sep 25 j 09:59	14°♋24'46	
	-9938 Dec 15 j 15:49	0°♌	
retrograde	-9937 Jan 30 j 21:50	3°♌07'41	
	-9937 Mar 18 j 22:02	30°℞♋	
opposition	-9937 Apr 02 j 10:43	28°♋10'43	1°43'08
min. Earth dist.	-9937 Apr 02 j 12:11	28°♋10'15	4.18411 AU
direct	-9937 Jun 01 j 18:01	23°♋17'35	
	-9937 Aug 08 j 19:48	0°♌	
evening set	-9937 Oct 02 j 21:50	11°♌39'15	
conjunction	-9937 Oct 15 j 16:07	14°♌37'30	0°46'32
minimum elong	-9937 Oct 15 j 16:11	14°♌37'32	0°47'00
max. Earth dist.	-9937 Oct 15 j 22:23	14°♌41'09	6.14463 AU
	-9937 Oct 17 j 06:42	15°♌	
morning rise	-9937 Oct 28 j 13:11	17°♌37'21	
	-9937 Dec 26 j 06:23	0°♍	
retrograde	-9936 Mar 06 j 17:59	7°♍02'49	
opposition	-9936 May 06 j 20:31	2°♍02'03	0°27'05
min. Earth dist.	-9936 May 06 j 10:22	2°♍05'23	4.10989 AU
	-9936 May 22 j 20:33	30°℞♌	
direct	-9936 Jul 05 j 00:09	27°♌08'57	
	-9936 Aug 16 j 06:33	0°♍	
desc. node	-9936 Sep 05 j 14:07	3°♍04'33	
evening set	-9936 Nov 05 j 00:25	15°♍49'04	
conjunction	-9936 Nov 18 j 04:31	18°♍54'21	-0°10'59
minimum elong	-9936 Nov 18 j 04:29	18°♍54'21	0°10'49
behind sun begin	-9936 Nov 17 j 22:13	18°♍50'41	
behind sun end	-9936 Nov 18 j 10:45	18°♍58'00	
max. Earth dist.	-9936 Nov 19 j 03:24	19°♍07'47	6.08312 AU
morning rise	-9936 Dec 01 j 12:14	22°♍01'36	
	-9935 Jan 06 j 03:43	0°♎	
retrograde	-9935 Apr 12 j 01:50	11°♎55'10	
opposition	-9935 Jun 11 j 12:04	6°♎51'19	-1°00'36
min. Earth dist.	-9935 Jun 10 j 16:06	6°♎58'01	4.06735 AU
direct	-9935 Aug 08 j 18:46	1°♎56'25	
evening set	-9935 Dec 10 j 21:46	20°♎55'01	
conjunction	-9935 Dec 24 j 09:44	24°♎04'31	-1°05'23
minimum elong	-9935 Dec 24 j 09:38	24°♎04'27	1°05'33
max. Earth dist.	-9935 Dec 25 j 18:24	24°♎23'40	6.06290 AU
morning rise	-9934 Jan 07 j 00:46	27°♎15'34	
	-9934 Jan 18 j 22:24	0°♏	
	-9934 Apr 10 j 20:45	15°♏	
retrograde	-9934 May 18 j 02:03	17°♏10'06	
	-9934 Jun 23 j 22:41	15°℞♏	
opposition	-9934 Jul 16 j 18:30	12°♏05'02	-2°06'46
min. Earth dist.	-9934 Jul 15 j 21:16	12°♏12'17	4.07278 AU
direct	-9934 Sep 12 j 23:23	7°♏06'55	
	-9934 Nov 25 j 09:10	15°♏	
evening set	-9933 Jan 16 j 21:05	26°♏15'33	
conjunction	-9933 Jan 30 j 13:22	29°♏25'22	-1°35'57
minimum elong	-9933 Jan 30 j 13:19	29°♏25'21	1°36'24
max. Earth dist.	-9933 Jan 31 j 20:55	29°♏43'39	6.09214 AU
	-9933 Feb 02 j 01:09	0°♐	
morning rise	-9933 Feb 13 j 06:53	2°♐35'45	
retrograde	-9933 Jun 22 j 00:10	22°♐01'08	
opposition	-9933 Aug 20 j 03:47	16°♐57'28	-2°26'14
min. Earth dist.	-9933 Aug 19 j 12:07	17°♐02'49	4.12359 AU
direct	-9933 Oct 17 j 23:48	11°♐56'01	
	-9932 Feb 18 j 05:13	0°♑	
evening set	-9932 Feb 22 j 16:06	1°♑00'21	
conjunction	-9932 Mar 07 j 09:04	4°♑07'33	-1°31'49
minimum elong	-9932 Mar 07 j 09:08	4°♑07'35	1°32'24
max. Earth dist.	-9932 Mar 08 j 01:01	4°♑16'38	6.15932 AU
morning rise	-9932 Mar 21 j 01:35	7°♑14'19	
retrograde	-9932 Jul 24 j 11:58	25°♑52'44	
opposition	-9932 Sep 21 j 12:30	20°♑52'17	-1°54'51
min. Earth dist.	-9932 Sep 21 j 07:51	20°♑53'52	4.20002 AU
direct	-9932 Nov 20 j 12:48	15°♑48'30	
	-9931 Mar 08 j 03:32	0°♒	
evening set	-9931 Mar 29 j 05:17	4°♒36'43	
conjunction	-9931 Apr 11 j 19:47	7°♒39'40	-0°56'44
minimum elong	-9931 Apr 11 j 19:52	7°♒39'42	0°57'14
max. Earth dist.	-9931 Apr 11 j 17:53	7°♒38'36	6.23960 AU
morning rise	-9931 Apr 25 j 07:38	10°♒41'11	
	-9931 May 15 j 00:03	15°♒	
retrograde	-9931 Aug 25 j 19:19	28°♒33'45	
opposition	-9931 Oct 24 j 01:28	23°♒37'10	-0°47'34

Attention, astronomical year style is used: The year -9931 in astronomical counting style is the year 9932 BCE in historical counting style.

min. Earth dist.	-9931 Oct 24 j 08:44	23°♒34'45	4.27604 AU
direct	-9931 Dec 24 j 06:53	18°♒32'54	
	-9930 Mar 30 j 03:36	0°♓	
evening set	-9930 May 02 j 03:58	7°♓01'28	
conjunction	-9930 May 15 j 11:29	9°♓58'57	-0°04'35
minimum elong	-9930 May 15 j 11:29	9°♓58'57	0°04'50
behind sun begin	-9930 May 15 j 03:32	9°♓54'33	
behind sun end	-9930 May 15 j 19:26	10°♓03'22	
max. Earth dist.	-9930 May 14 j 15:06	9°♓47'36	6.30612 AU
morning rise	-9930 May 28 j 15:41	12°♓54'41	
asc. node	-9930 Jun 17 j 10:28	17°♓12'33	
	-9930 Sep 12 j 22:31	0°♈	
retrograde	-9930 Sep 26 j 10:35	0°♈17'45	
	-9930 Oct 09 j 21:37	30°℞♓	
opposition	-9930 Nov 25 j 05:42	25°♓24'18	0°32'14
min. Earth dist.	-9930 Nov 25 j 23:17	25°♓18'35	4.32788 AU
direct	-9929 Jan 26 j 09:36	20°♓21'15	
	-9929 Apr 23 j 15:47	0°♈	
evening set	-9929 Jun 03 j 15:42	8°♈34'08	
max. Earth dist.	-9929 Jun 15 j 08:49	11°♈10'09	6.33921 AU
conjunction	-9929 Jun 16 j 13:46	11°♈26'16	0°48'08
minimum elong	-9929 Jun 16 j 13:42	11°♈26'14	0°48'12
morning rise	-9929 Jun 29 j 08:20	14°♈16'43	
	-9929 Sep 26 j 08:59	0°♉	
retrograde	-9929 Oct 28 j 02:10	1°♉33'26	
	-9929 Nov 29 j 01:04	30°℞♈	
opposition	-9929 Dec 27 j 14:00	26°♈41'40	1°41'34
min. Earth dist.	-9929 Dec 28 j 11:51	26°♈34'41	4.34092 AU
direct	-9928 Feb 28 j 01:51	21°♈41'12	
	-9928 May 18 j 01:53	0°♉	
evening set	-9928 Jul 04 j 04:12	9°♉45'59	
max. Earth dist.	-9928 Jul 15 j 09:46	12°♉16'50	6.32991 AU
conjunction	-9928 Jul 16 j 17:16	12°♉34'32	1°26'29
minimum elong	-9928 Jul 16 j 17:12	12°♉34'29	1°26'50
	-9928 Jul 27 j 12:46	15°♉	
morning rise	-9928 Jul 29 j 04:19	15°♉22'05	
	-9928 Oct 15 j 02:48	0°♊	
retrograde	-9928 Nov 28 j 12:15	2°♊55'19	
	-9927 Jan 12 j 18:20	30°℞♉	
opposition	-9927 Jan 28 j 13:50	28°♉03'19	2°21'44
min. Earth dist.	-9927 Jan 29 j 10:52	27°♉56'39	4.31106 AU
direct	-9927 Mar 31 j 19:10	23°♉05'54	
	-9927 Jun 11 j 02:47	0°♊	
evening set	-9927 Aug 04 j 08:28	11°♊10'51	
conjunction	-9927 Aug 16 j 17:31	13°♊59'23	1°39'48
minimum elong	-9927 Aug 16 j 17:31	13°♊59'23	1°40'21
max. Earth dist.	-9927 Aug 15 j 18:16	13°♊46'09	6.28094 AU
morning rise	-9927 Aug 29 j 01:59	16°♊47'47	
	-9927 Nov 03 j 04:27	0°♋	
retrograde	-9926 Jan 01 j 00:41	4°♋55'29	
opposition	-9926 Mar 03 j 12:10	0°♋01'27	2°20'15
	-9926 Mar 03 j 16:43	30°℞♊	
min. Earth dist.	-9926 Mar 04 j 00:10	29°♊57'38	4.24669 AU
direct	-9926 May 03 j 19:44	25°♊06'53	
	-9926 Jun 30 j 23:20	0°♋	
evening set	-9926 Sep 04 j 22:17	13°♋19'14	
conjunction	-9926 Sep 17 j 09:47	16°♋11'51	1°22'59
minimum elong	-9926 Sep 17 j 09:52	16°♋11'53	1°23'33
max. Earth dist.	-9926 Sep 17 j 00:40	16°♋06'34	6.20665 AU
morning rise	-9926 Sep 29 j 22:47	19°♋05'22	
	-9926 Nov 20 j 08:06	0°♌	
retrograde	-9925 Feb 04 j 23:10	7°♌56'50	

opposition	-9925 Apr 07 j 09:40	2°♌59'22	1°34'09
min. Earth dist.	-9925 Apr 07 j 09:51	2°♌59'18	4.16704 AU
	-9925 May 02 j 10:02	30°℞♋	
direct	-9925 Jun 06 j 13:11	28°♋06'21	
	-9925 Jul 11 j 04:36	0°♌	
	-9925 Sep 30 j 23:37	15°♌	
evening set	-9925 Oct 07 j 15:21	16°♌32'19	
conjunction	-9925 Oct 20 j 11:06	19°♌31'53	0°38'58
minimum elong	-9925 Oct 20 j 11:10	19°♌31'55	0°39'24
max. Earth dist.	-9925 Oct 20 j 20:29	19°♌37'22	6.12963 AU
morning rise	-9925 Nov 02 j 09:51	22°♌33'08	
	-9925 Dec 05 j 17:55	0°♍	
retrograde	-9924 Mar 11 j 22:07	12°♍05'17	
opposition	-9924 May 11 j 22:43	7°♍04'00	0°14'30
min. Earth dist.	-9924 May 11 j 09:37	7°♍08'19	4.09839 AU
direct	-9924 Jul 09 j 21:18	2°♍10'48	
desc. node	-9924 Jul 15 j 12:22	2°♍14'00	
evening set	-9924 Nov 10 j 01:18	20°♍54'31	
conjunction	-9924 Nov 23 j 06:41	24°♍00'41	-0°19'29
minimum elong	-9924 Nov 23 j 06:38	24°♍00'40	0°19'22
max. Earth dist.	-9924 Nov 24 j 08:11	24°♍15'40	6.07594 AU
morning rise	-9924 Dec 06 j 15:42	27°♍08'48	
	-9924 Dec 19 j 00:20	0°♎	
retrograde	-9923 Apr 17 j 06:27	17°♎04'40	
opposition	-9923 Jun 16 j 14:20	12°♎00'23	-1°12'10
min. Earth dist.	-9923 Jun 15 j 17:28	12°♎07'25	4.06508 AU
direct	-9923 Aug 13 j 20:11	7°♎05'04	
evening set	-9923 Dec 16 j 03:41	26°♎05'27	
conjunction	-9923 Dec 29 j 16:32	29°♎15'09	-1°11'37
minimum elong	-9923 Dec 29 j 16:26	29°♎15'05	1°11'50
max. Earth dist.	-9923 Dec 31 j 03:29	29°♎35'36	6.06532 AU
	-9922 Jan 01 j 21:12	0°♏	
morning rise	-9922 Jan 12 j 08:05	2°♏26'16	
	-9922 Mar 12 j 11:34	15°♏	
retrograde	-9922 May 23 j 03:28	22°♏17'33	
opposition	-9922 Jul 21 j 17:41	17°♏12'32	-2°12'44
min. Earth dist.	-9922 Jul 20 j 20:33	17°♏19'45	4.07961 AU
	-9922 Aug 07 j 12:29	15°℞♏	
direct	-9922 Sep 17 j 23:35	12°♏13'57	
	-9922 Oct 29 j 11:42	15°♏	
	-9921 Jan 16 j 04:17	0°♐	
evening set	-9921 Jan 22 j 03:34	1°♐21'58	
conjunction	-9921 Feb 04 j 19:55	4°♐31'23	-1°37'33
minimum elong	-9921 Feb 04 j 19:53	4°♐31'21	1°38'02
max. Earth dist.	-9921 Feb 06 j 00:43	4°♐48'01	6.10217 AU
morning rise	-9921 Feb 18 j 13:35	7°♐41'17	
retrograde	-9921 Jun 26 j 19:17	26°♐59'50	
opposition	-9921 Aug 24 j 22:41	21°♐56'31	-2°24'40
min. Earth dist.	-9921 Aug 24 j 08:18	22°♐01'26	4.13569 AU
direct	-9921 Oct 22 j 22:53	16°♐54'37	
	-9920 Jan 31 j 19:10	0°♑	
evening set	-9920 Feb 27 j 18:26	5°♑56'23	
conjunction	-9920 Mar 12 j 11:23	9°♑02'59	-1°28'30
minimum elong	-9920 Mar 12 j 11:27	9°♑03'02	1°29'04
max. Earth dist.	-9920 Mar 13 j 01:55	9°♑11'16	6.17258 AU
morning rise	-9920 Mar 26 j 03:14	12°♑08'57	
	-9920 Jul 09 j 01:06	0°♒	
retrograde	-9920 Jul 29 j 03:26	0°♒39'50	
	-9920 Aug 18 j 00:31	30°℞♑	
opposition	-9920 Sep 26 j 03:29	25°♑39'59	-1°47'01
min. Earth dist.	-9920 Sep 26 j 00:48	25°♑40'54	4.21305 AU
direct	-9920 Nov 25 j 07:58	20°♑36'05	

Attention, astronomical year style is used: The year -9919 in astronomical counting style is the year 9920 BCE in historical counting style.

	-9919 Feb 17 j 15:10	0°♒	
evening set	-9919 Apr 03 j 02:01	9°♒21'00	
conjunction	-9919 Apr 16 j 15:40	12°♒23'09	-0°50'03
minimum elong	-9919 Apr 16 j 15:45	12°♒23'12	0°50'31
max. Earth dist.	-9919 Apr 16 j 09:49	12°♒19'52	6.25141 AU
	-9919 Apr 28 j 07:55	15°♒	
morning rise	-9919 Apr 30 j 02:44	15°♒23'52	
	-9919 Jul 15 j 21:56	0°♓	
retrograde	-9919 Aug 30 j 06:02	3°♓10'50	
	-9919 Oct 15 j 01:01	30°℞♒	
opposition	-9919 Oct 28 j 14:01	28°♒14'46	-0°36'34
min. Earth dist.	-9919 Oct 28 j 23:09	28°♒11'44	4.28573 AU
direct	-9919 Dec 28 j 23:04	23°♒10'32	
	-9918 Mar 10 j 05:19	0°♓	
asc. node	-9918 Apr 26 j 16:44	9°♓23'46	
evening set	-9918 May 06 j 19:11	11°♓36'31	
max. Earth dist.	-9918 May 19 j 04:14	14°♓21'22	6.31314 AU
conjunction	-9918 May 20 j 01:35	14°♓33'15	0°03'16
minimum elong	-9918 May 20 j 01:34	14°♓33'14	0°03'02
behind sun begin	-9918 May 19 j 17:27	14°♓28'45	
behind sun end	-9918 May 20 j 09:40	14°♓37'43	
morning rise	-9918 Jun 02 j 04:21	17°♓28'08	
	-9918 Aug 04 j 19:07	0°♈	
retrograde	-9918 Sep 30 j 20:52	4°♈48'58	
opposition	-9918 Nov 29 j 18:06	29°♓55'55	0°43'04
	-9918 Nov 29 j 05:30	30°℞♓	
min. Earth dist.	-9918 Nov 30 j 12:37	29°♓49'55	4.33179 AU
direct	-9917 Jan 30 j 23:44	24°♓53'13	
	-9917 Apr 02 j 04:25	0°♈	
evening set	-9917 Jun 08 j 03:04	13°♈04'43	
conjunction	-9917 Jun 20 j 23:39	15°♈56'13	0°54'41
minimum elong	-9917 Jun 20 j 23:34	15°♈56'11	0°54'47
max. Earth dist.	-9917 Jun 19 j 16:23	15°♈38'48	6.33952 AU
morning rise	-9917 Jul 03 j 17:09	18°♈46'11	
	-9917 Aug 28 j 08:28	0°♉	
retrograde	-9917 Nov 01 j 15:01	6°♉04'21	
opposition	-9916 Jan 01 j 04:24	1°♉12'38	1°49'20
min. Earth dist.	-9916 Jan 02 j 03:00	1°♉05'25	4.33790 AU
	-9916 Jan 10 j 18:08	30°℞♈	
direct	-9916 Mar 03 j 16:29	26°♈12'34	
	-9916 Apr 24 j 16:22	0°♉	
evening set	-9916 Jul 08 j 13:55	14°♉17'26	
	-9916 Jul 11 j 18:08	15°♉	
max. Earth dist.	-9916 Jul 19 j 20:29	16°♉49'05	6.32377 AU
conjunction	-9916 Jul 21 j 02:14	17°♉05'50	1°30'04
minimum elong	-9916 Jul 21 j 02:10	17°♉05'47	1°30'25
morning rise	-9916 Aug 02 j 12:25	19°♉53'17	
	-9916 Sep 20 j 05:26	0°♊	
retrograde	-9916 Dec 03 j 03:21	7°♊30'53	
opposition	-9915 Feb 02 j 07:23	2°♊38'44	2°24'13
min. Earth dist.	-9915 Feb 03 j 02:55	2°♊32'33	4.30253 AU
	-9915 Feb 24 j 08:43	30°℞♉	
direct	-9915 Apr 05 j 10:00	27°♉41'50	
	-9915 May 15 j 01:15	0°♊	
evening set	-9915 Aug 08 j 19:07	15°♊47'52	
max. Earth dist.	-9915 Aug 20 j 05:43	18°♊24'03	6.27078 AU
conjunction	-9915 Aug 21 j 03:57	18°♊36'44	1°39'16
minimum elong	-9915 Aug 21 j 03:58	18°♊36'45	1°39'49
morning rise	-9915 Sep 02 j 12:45	21°♊25'40	
	-9915 Oct 12 j 09:30	0°♋	
retrograde	-9914 Jan 05 j 22:13	9°♋39'24	
opposition	-9914 Mar 08 j 09:39	4°♋44'57	2°16'20
min. Earth dist.	-9914 Mar 08 j 20:20	4°♋41'33	4.23567 AU
	-9914 Apr 28 j 15:37	30°℞♊	
direct	-9914 May 08 j 14:18	29°♊50'40	
	-9914 May 18 j 12:08	0°♋	
evening set	-9914 Sep 09 j 11:35	18°♋04'31	
conjunction	-9914 Sep 22 j 00:04	20°♋57'59	1°18'13
minimum elong	-9914 Sep 22 j 00:09	20°♋58'01	1°18'46
max. Earth dist.	-9914 Sep 21 j 18:25	20°♋54'43	6.19607 AU
morning rise	-9914 Oct 04 j 14:09	23°♋52'27	
	-9914 Nov 01 j 00:50	0°♌	
retrograde	-9913 Feb 09 j 23:18	12°♌49'36	
opposition	-9913 Apr 12 j 09:43	7°♌51'36	1°24'26
min. Earth dist.	-9913 Apr 12 j 07:10	7°♌52'26	4.15779 AU
direct	-9913 Jun 11 j 08:33	2°♌58'43	
	-9913 Sep 13 j 19:42	15°♌	
evening set	-9913 Oct 12 j 09:28	21°♌26'11	
conjunction	-9913 Oct 25 j 06:26	24°♌26'36	0°31'11
minimum elong	-9913 Oct 25 j 06:29	24°♌26'38	0°31'34
max. Earth dist.	-9913 Oct 25 j 18:06	24°♌33'26	6.12257 AU
morning rise	-9913 Nov 07 j 06:39	27°♌28'49	
	-9913 Nov 18 j 05:20	0°♍	
retrograde	-9912 Mar 17 j 00:08	17°♍04'29	
opposition	-9912 May 16 j 23:04	12°♍02'37	0°02'00
min. Earth dist.	-9912 May 16 j 08:29	12°♍07'26	4.09401 AU
desc. node	-9912 May 25 j 20:50	10°♍52'42	
direct	-9912 Jul 14 j 19:19	7°♍09'10	
evening set	-9912 Nov 15 j 00:22	25°♍54'14	
conjunction	-9912 Nov 28 j 07:01	29°♍00'58	-0°27'39
minimum elong	-9912 Nov 28 j 06:58	29°♍00'56	0°27'34
max. Earth dist.	-9912 Nov 29 j 11:22	29°♍17'37	6.07464 AU
	-9912 Dec 02 j 11:34	0°♎	
morning rise	-9912 Dec 11 j 17:04	2°♎09'34	
retrograde	-9911 Apr 22 j 07:22	22°♎05'14	
opposition	-9911 Jun 21 j 12:45	17°♎00'43	-1°22'48
min. Earth dist.	-9911 Jun 20 j 15:38	17°♎07'51	4.06714 AU
direct	-9911 Aug 18 j 17:32	12°♎05'00	
	-9911 Dec 16 j 12:07	0°♏	
evening set	-9911 Dec 21 j 06:08	1°♏05'59	
conjunction	-9910 Jan 03 j 19:27	4°♏15'40	-1°17'06
minimum elong	-9910 Jan 03 j 19:22	4°♏15'37	1°17'22
max. Earth dist.	-9910 Jan 05 j 04:37	4°♏35'02	6.07009 AU
morning rise	-9910 Jan 17 j 11:38	7°♏26'44	
	-9910 Feb 20 j 07:36	15°♏	
retrograde	-9910 May 27 j 23:19	27°♏14'12	
opposition	-9910 Jul 26 j 12:36	22°♏09'14	-2°17'29
min. Earth dist.	-9910 Jul 25 j 15:56	22°♏16'19	4.08670 AU
direct	-9910 Sep 22 j 20:27	17°♏10'06	
	-9910 Dec 30 j 00:54	0°♐	
evening set	-9909 Jan 27 j 05:47	6°♐17'38	
conjunction	-9909 Feb 09 j 22:31	9°♐26'46	-1°38'22
minimum elong	-9909 Feb 09 j 22:30	9°♐26'46	1°38'54
max. Earth dist.	-9909 Feb 11 j 02:16	9°♐42'46	6.11091 AU
morning rise	-9909 Feb 23 j 15:57	12°♐36'11	
	-9909 May 28 j 21:26	0°♑	
retrograde	-9909 Jul 01 j 12:47	1°♑48'41	
	-9909 Aug 03 j 18:45	30°℞♐	
opposition	-9909 Aug 29 j 14:02	26°♐45'49	-2°22'11
min. Earth dist.	-9909 Aug 29 j 01:56	26°♐49'57	4.14515 AU
direct	-9909 Oct 27 j 17:53	21°♐43'34	
	-9908 Jan 12 j 18:58	0°♑	
evening set	-9908 Mar 03 j 17:41	10°♑43'51	

Attention, astronomical year style is used: The year -9908 in astronomical counting style is the year 9909 BCE in historical counting style.

conjunction	-9908 Mar 17 j 10:24	13°♑50'00	-1°24'39
minimum elong	-9908 Mar 17 j 10:28	13°♑50'03	1°25'14
max. Earth dist.	-9908 Mar 17 j 21:10	13°♑56'07	6.18197 AU
morning rise	-9908 Mar 31 j 01:56	16°♑55'25	
	-9908 Jun 03 j 19:51	0°♒	
retrograde	-9908 Aug 02 j 14:50	5°♒20'25	
opposition	-9908 Sep 30 j 16:13	0°♒21'05	-1°38'43
min. Earth dist.	-9908 Sep 30 j 14:55	0°♒21'31	4.22155 AU
	-9908 Oct 03 j 06:44	30°℞♑	
direct	-9908 Nov 29 j 23:57	25°♑17'00	
	-9907 Jan 26 j 08:10	0°♒	
evening set	-9907 Apr 07 j 20:47	14°♒00'20	
	-9907 Apr 12 j 07:56	15°♒	
conjunction	-9907 Apr 21 j 09:46	17°♒01'56	-0°43'09
minimum elong	-9907 Apr 21 j 09:50	17°♒01'58	0°43'35
max. Earth dist.	-9907 Apr 21 j 01:32	16°♒57'19	6.25864 AU
morning rise	-9907 May 04 j 19:54	20°♒02'00	
	-9907 Jun 21 j 18:38	0°♓	
retrograde	-9907 Sep 03 j 17:48	7°♓45'13	
opposition	-9907 Nov 02 j 02:13	2°♓49'41	-0°25'27
min. Earth dist.	-9907 Nov 02 j 13:16	2°♓46'02	4.29104 AU
	-9907 Nov 24 j 20:47	30°℞♒	
direct	-9906 Jan 02 j 14:36	27°♒45'39	
	-9906 Feb 10 j 17:09	0°♓	
asc. node	-9906 Mar 06 j 11:00	3°♓11'34	
evening set	-9906 May 11 j 09:53	16°♓10'22	
conjunction	-9906 May 24 j 15:03	19°♓06'28	0°10'55
minimum elong	-9906 May 24 j 15:02	19°♓06'28	0°10'45
behind sun begin	-9906 May 24 j 08:49	19°♓03'01	
behind sun end	-9906 May 24 j 21:14	19°♓09'54	
max. Earth dist.	-9906 May 23 j 15:27	18°♓53'21	6.31613 AU
morning rise	-9906 Jun 06 j 16:41	22°♓00'46	
	-9906 Jul 14 j 13:37	0°♈	
retrograde	-9906 Oct 05 j 07:45	9°♈20'52	
opposition	-9906 Dec 04 j 07:19	4°♈28'05	0°53'41
min. Earth dist.	-9906 Dec 05 j 02:16	4°♈21'57	4.33259 AU
	-9905 Jan 16 j 04:18	30°℞♓	
direct	-9905 Feb 04 j 14:05	29°♓25'43	
	-9905 Feb 24 j 03:46	0°♈	
evening set	-9905 Jun 12 j 15:01	17°♈36'43	
max. Earth dist.	-9905 Jun 24 j 04:09	20°♈10'52	6.33809 AU
conjunction	-9905 Jun 25 j 10:22	20°♈27'43	1°00'55
minimum elong	-9905 Jun 25 j 10:17	20°♈27'41	1°01'04
morning rise	-9905 Jul 08 j 02:32	23°♈17'12	
	-9905 Aug 08 j 11:55	0°♉	
retrograde	-9905 Nov 06 j 04:14	10°♉37'19	
opposition	-9904 Jan 05 j 19:56	5°♉45'42	1°56'31
min. Earth dist.	-9904 Jan 06 j 18:10	5°♉38'37	4.33455 AU
direct	-9904 Mar 08 j 07:45	0°♉46'09	
	-9904 Jun 25 j 11:52	15°♉	
evening set	-9904 Jul 13 j 00:23	18°♉50'53	
max. Earth dist.	-9904 Jul 24 j 05:51	21°♉22'15	6.31851 AU
conjunction	-9904 Jul 25 j 11:44	21°♉39'05	1°33'06
minimum elong	-9904 Jul 25 j 11:40	21°♉39'03	1°33'31
morning rise	-9904 Aug 06 j 21:29	24°♉26'31	
	-9904 Sep 01 j 09:21	0°♊	
retrograde	-9904 Dec 07 j 20:32	12°♊08'11	
opposition	-9903 Feb 07 j 02:02	7°♊15'47	2°25'49
min. Earth dist.	-9903 Feb 07 j 20:23	7°♊09'58	4.29575 AU
direct	-9903 Apr 10 j 02:33	2°♊19'16	
evening set	-9903 Aug 13 j 05:35	20°♊25'30	
conjunction	-9903 Aug 25 j 14:39	23°♊14'44	1°38'07
minimum elong	-9903 Aug 25 j 14:41	23°♊14'45	1°38'40
max. Earth dist.	-9903 Aug 24 j 19:55	23°♊04'02	6.26299 AU
morning rise	-9903 Sep 06 j 23:37	26°♊04'07	
	-9903 Sep 24 j 13:59	0°♋	
retrograde	-9902 Jan 10 j 18:24	14°♋22'57	
opposition	-9902 Mar 13 j 06:52	9°♋28'06	2°11'30
min. Earth dist.	-9902 Mar 13 j 15:41	9°♋25'18	4.22723 AU
direct	-9902 May 13 j 07:48	4°♋34'09	
evening set	-9902 Sep 14 j 00:39	22°♋48'43	
conjunction	-9902 Sep 26 j 13:54	25°♋42'55	1°12'57
minimum elong	-9902 Sep 26 j 13:59	25°♋42'58	1°13'30
max. Earth dist.	-9902 Sep 26 j 09:42	25°♋40'29	6.18762 AU
morning rise	-9902 Oct 09 j 05:17	28°♋38'19	
	-9902 Oct 15 j 03:52	0°♌	
	-9901 Jan 03 j 09:31	15°♌	
retrograde	-9901 Feb 14 j 23:16	17°♌40'33	
	-9901 Mar 29 j 20:34	15°℞♌	
opposition	-9901 Apr 17 j 08:32	12°♌41'59	1°14'13
min. Earth dist.	-9901 Apr 17 j 04:10	12°♌43'24	4.14969 AU
direct	-9901 Jun 16 j 03:29	7°♌49'05	
	-9901 Aug 25 j 08:06	15°♌	
evening set	-9901 Oct 17 j 02:48	26°♌18'07	
conjunction	-9901 Oct 30 j 01:15	29°♌19'28	0°23'15
minimum elong	-9901 Oct 30 j 01:17	29°♌19'30	0°23'36
max. Earth dist.	-9901 Oct 30 j 16:25	29°♌28'21	6.11575 AU
	-9901 Nov 01 j 22:28	0°♍	
morning rise	-9901 Nov 12 j 02:49	2°♍22'37	
retrograde	-9900 Mar 22 j 01:45	22°♍01'48	
desc. node	-9900 Apr 05 j 11:57	21°♍41'55	
opposition	-9900 May 21 j 22:18	16°♍59'31	-0°10'25
min. Earth dist.	-9900 May 21 j 06:57	17°♍04'36	4.08911 AU
direct	-9900 Jul 19 j 15:26	12°♍05'53	
	-9900 Nov 16 j 04:10	0°♎	
evening set	-9900 Nov 19 j 23:10	0°♎52'57	
conjunction	-9900 Dec 03 j 06:46	4°♎00'15	-0°35'34
minimum elong	-9900 Dec 03 j 06:42	4°♎00'12	0°35'33
max. Earth dist.	-9900 Dec 04 j 10:54	4°♎16'45	6.07191 AU
morning rise	-9900 Dec 16 j 18:04	7°♎09'27	
retrograde	-9899 Apr 27 j 06:31	27°♎05'40	
opposition	-9899 Jun 26 j 10:29	22°♎00'55	-1°32'51
min. Earth dist.	-9899 Jun 25 j 12:36	22°♎08'20	4.06702 AU
direct	-9899 Aug 23 j 14:38	17°♎04'43	
	-9899 Nov 29 j 06:42	0°♏	
evening set	-9899 Dec 26 j 08:53	6°♏07'26	
conjunction	-9898 Jan 08 j 23:01	9°♏17'18	-1°22'03
minimum elong	-9898 Jan 08 j 22:56	9°♏17'15	1°22'21
max. Earth dist.	-9898 Jan 10 j 08:53	9°♏37'03	6.07252 AU