Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

opposition	-3400 Mar 14 j 19:40	27°♌17'33	0°52'40
min. Earth dist.	-3400 Mar 15 j 02:20	27°♌16'51	17.65002 AU
direct	-3400 May 31 j 03:38	25°♌13'32	
evening set	-3400 Sep 02 j 22:27	28°♌38'00	
conjunction	-3400 Sep 18 j 17:43	29°♌36'47	0°46'55
minimum elong	-3400 Sep 18 j 17:43	29°♌36'48	0°46'59
max. Earth dist.	-3400 Sep 18 j 11:57	29°♌35'54	19.67631 AU
	-3400 Sep 24 j 22:18	0°♍	
morning rise	-3400 Oct 04 j 10:21	0°♍35'12	
retrograde	-3399 Jan 03 j 17:07	3°♍53'16	
opposition	-3399 Mar 19 j 20:02	1°♍52'33	0°51'42
min. Earth dist.	-3399 Mar 19 j 23:30	1°♍52'11	17.70351 AU
	-3399 May 15 j 03:58	30°℞♌	
direct	-3399 Jun 05 j 05:51	29°♌48'50	
	-3399 Jun 25 j 21:51	0°♍	
evening set	-3399 Sep 07 j 17:10	3°♍12'08	
conjunction	-3399 Sep 23 j 11:36	4°♍10'39	0°45'54
minimum elong	-3399 Sep 23 j 11:36	4°♍10'39	0°45'58
max. Earth dist.	-3399 Sep 23 j 08:45	4°♍10'12	19.73143 AU
morning rise	-3399 Oct 09 j 03:30	5°♍08'47	
retrograde	-3398 Jan 08 j 11:01	8°♍26'20	
opposition	-3398 Mar 24 j 20:09	6°♍25'40	0°50'24
min. Earth dist.	-3398 Mar 24 j 22:18	6°♍25'26	17.76032 AU
direct	-3398 Jun 10 j 04:50	4°♍22'17	
evening set	-3398 Sep 12 j 10:54	7°♍44'24	
conjunction	-3398 Sep 28 j 04:23	8°♍42'35	0°44'37
minimum elong	-3398 Sep 28 j 04:23	8°♍42'35	0°44'39
max. Earth dist.	-3398 Sep 28 j 03:24	8°♍42'26	19.78997 AU
morning rise	-3398 Oct 13 j 19:48	9°♍40'28	
retrograde	-3397 Jan 13 j 06:19	12°♍57'29	
opposition	-3397 Mar 29 j 19:31	10°♍56'54	0°48'48
min. Earth dist.	-3397 Mar 29 j 18:09	10°♍57'03	17.82046 AU
direct	-3397 Jun 15 j 04:54	8°♍53'54	
evening set	-3397 Sep 17 j 03:39	12°♍14'47	
conjunction	-3397 Oct 02 j 20:29	13°♍12'40	0°43'04
minimum elong	-3397 Oct 02 j 20:29	13°♍12'40	0°43'07
max. Earth dist.	-3397 Oct 02 j 22:44	13°♍13'01	19.85170 AU
morning rise	-3397 Oct 18 j 11:17	14°♍10'17	
retrograde	-3396 Jan 17 j 23:16	17°♍26'47	
opposition	-3396 Apr 02 j 18:25	15°♍26'19	0°46'55
min. Earth dist.	-3396 Apr 02 j 15:37	15°♍26'36	17.88372 AU
direct	-3396 Jun 19 j 01:39	13°♍23'44	
evening set	-3396 Sep 20 j 19:25	16°♍43'22	
conjunction	-3396 Oct 06 j 11:28	17°♍40'58	0°41'16
minimum elong	-3396 Oct 06 j 11:29	17°♍40'58	0°41'17
max. Earth dist.	-3396 Oct 06 j 15:18	17°♍41'33	19.91641 AU
morning rise	-3396 Oct 22 j 02:03	18°♍38'20	
retrograde	-3395 Jan 21 j 17:58	21°♍54'18	
opposition	-3395 Apr 07 j 16:29	19°♍53'58	0°44'46
min. Earth dist.	-3395 Apr 07 j 10:23	19°♍54'35	17.94957 AU
direct	-3395 Jun 23 j 23:20	17°♍51'49	
evening set	-3395 Sep 25 j 10:16	21°♍10'12	
conjunction	-3395 Oct 11 j 01:51	22°♍07'31	0°39'14
minimum elong	-3395 Oct 11 j 01:51	22°♍07'31	0°39'15
max. Earth dist.	-3395 Oct 11 j 08:55	22°♍08'36	19.98324 AU
morning rise	-3395 Oct 26 j 15:58	23°♍04'38	
retrograde	-3394 Jan 26 j 09:53	26°♍20'04	
opposition	-3394 Apr 12 j 14:00	24°♍19'54	0°42'21
min. Earth dist.	-3394 Apr 12 j 06:38	24°♍20'39	18.01720 AU
direct	-3394 Jun 28 j 18:17	22°♍18'13	
evening set	-3394 Sep 30 j 00:24	25°♍35'20	
conjunction	-3394 Oct 15 j 15:18	26°♍32'21	0°36'58
minimum elong	-3394 Oct 15 j 15:18	26°♍32'21	0°36'59
max. Earth dist.	-3394 Oct 15 j 23:36	26°♍33'37	20.05163 AU
morning rise	-3394 Oct 31 j 05:20	27°♍29'14	
	-3394 Dec 20 j 20:55	0°♎	
retrograde	-3393 Jan 31 j 03:52	0°♎44'09	
	-3393 Mar 15 j 01:44	30°℞♍	
opposition	-3393 Apr 17 j 10:55	28°♍44'07	0°39'43
min. Earth dist.	-3393 Apr 17 j 00:40	28°♍45'10	18.08605 AU
direct	-3393 Jul 03 j 14:25	26°♍42'55	
evening set	-3393 Oct 04 j 13:27	29°♍58'45	
	-3393 Oct 04 j 21:53	0°♎	
conjunction	-3393 Oct 20 j 04:04	0°♎55'30	0°34'31
minimum elong	-3393 Oct 20 j 04:04	0°♎55'30	0°34'30
max. Earth dist.	-3393 Oct 20 j 15:30	0°♎57'14	20.12068 AU
morning rise	-3393 Nov 04 j 17:48	1°♎52'09	
retrograde	-3392 Feb 04 j 19:15	5°♎06'32	
opposition	-3392 Apr 21 j 07:17	3°♎06'39	0°36'52
min. Earth dist.	-3392 Apr 20 j 19:49	3°♎07'49	18.15513 AU
direct	-3392 Jul 07 j 08:13	1°♎05'54	
evening set	-3392 Oct 08 j 01:59	4°♎20'27	
conjunction	-3392 Oct 23 j 16:06	5°♎16'55	0°31'52
minimum elong	-3392 Oct 23 j 16:06	5°♎16'55	0°31'52
max. Earth dist.	-3392 Oct 24 j 04:19	5°♎18'47	20.18967 AU
morning rise	-3392 Nov 08 j 05:56	6°♎13'21	
retrograde	-3391 Feb 08 j 11:40	9°♎27'12	
opposition	-3391 Apr 26 j 02:39	7°♎27'26	0°33'49
min. Earth dist.	-3391 Apr 25 j 12:56	7°♎28'50	18.22387 AU
direct	-3391 Jul 12 j 02:54	5°♎27'07	
evening set	-3391 Oct 12 j 13:37	8°♎40'23	
conjunction	-3391 Oct 28 j 03:35	9°♎36'37	0°29'03
minimum elong	-3391 Oct 28 j 03:35	9°♎36'37	0°29'01
max. Earth dist.	-3391 Oct 28 j 18:35	9°♎38'53	20.25781 AU
morning rise	-3391 Nov 12 j 17:16	10°♎32'49	
retrograde	-3390 Feb 13 j 02:07	13°♎46'08	
opposition	-3390 Apr 30 j 21:34	11°♎46'28	0°30'35
min. Earth dist.	-3390 Apr 30 j 06:42	11°♎47'59	18.29132 AU
direct	-3390 Jul 16 j 20:07	9°♎46'34	
evening set	-3390 Oct 17 j 00:31	12°♎58'34	
conjunction	-3390 Nov 01 j 14:07	13°♎54'32	0°26'06
minimum elong	-3390 Nov 01 j 14:07	13°♎54'32	0°26'05
max. Earth dist.	-3390 Nov 02 j 05:38	13°♎56'52	20.32449 AU
morning rise	-3390 Nov 17 j 04:03	14°♎50'32	
retrograde	-3389 Feb 17 j 16:45	18°♎03'19	
opposition	-3389 May 05 j 15:45	16°♎03'43	0°27'13
min. Earth dist.	-3389 May 04 j 22:59	16°♎05'24	18.35716 AU
direct	-3389 Jul 21 j 13:03	14°♎04'10	
evening set	-3389 Oct 21 j 10:35	17°♎14'54	
conjunction	-3389 Nov 06 j 00:14	18°♎10'38	0°23'00
minimum elong	-3389 Nov 06 j 00:14	18°♎10'38	0°22'59
max. Earth dist.	-3389 Nov 06 j 18:20	18°♎13'21	20.38927 AU
morning rise	-3389 Nov 21 j 14:11	19°♎06'27	
retrograde	-3388 Feb 22 j 06:00	22°♎18'40	
opposition	-3388 May 09 j 09:01	20°♎19'06	0°23'43
min. Earth dist.	-3388 May 08 j 15:05	20°♎20'55	18.42085 AU
direct	-3388 Jul 25 j 05:15	18°♎19'54	
evening set	-3388 Oct 24 j 19:59	21°♎29'23	

Attention, astronomical year style is used: The year -3388 in astronomical counting style is the year 3389 BCE in historical counting style.

conjunction	-3388 Nov 09 j 09:27	22°♎24'53	0°19'49
minimum elong	-3388 Nov 09 j 09:27	22°♎24'53	0°19'47
max. Earth dist.	-3388 Nov 10 j 03:52	22°♎27'38	20.45191 AU
morning rise	-3388 Nov 24 j 23:51	23°♎20'31	
retrograde	-3387 Feb 25 j 18:27	26°♎32'12	
min. Earth dist.	-3387 May 13 j 06:06	24°♎34'35	18.48247 AU
opposition	-3387 May 14 j 01:30	24°♎32'38	0°20'07
direct	-3387 Jul 29 j 19:55	22°♎33'42	
evening set	-3387 Oct 29 j 04:26	25°♎41'59	
conjunction	-3387 Nov 13 j 18:05	26°♎37'16	0°16'33
minimum elong	-3387 Nov 13 j 18:05	26°♎37'16	0°16'30
max. Earth dist.	-3387 Nov 14 j 15:04	26°♎40'24	20.51239 AU
morning rise	-3387 Nov 29 j 08:36	27°♎32'43	
	-3386 Jan 19 j 05:01	0°♏	
retrograde	-3386 Mar 02 j 06:20	0°♏43'52	
	-3386 Apr 14 j 19:36	30°℞♎	
opposition	-3386 May 18 j 17:08	28°♎44'18	0°16'27
min. Earth dist.	-3386 May 17 j 20:21	28°♎46'24	18.54193 AU
direct	-3386 Aug 03 j 10:41	26°♎45'40	
evening set	-3386 Nov 02 j 12:23	29°♎52'44	
	-3386 Nov 04 j 14:20	0°♏	
conjunction	-3386 Nov 18 j 01:58	0°♏47'50	0°13'13
minimum elong	-3386 Nov 18 j 01:58	0°♏47'50	0°13'09
behind sun begin	-3386 Nov 17 j 21:59	0°♏47'15	
behind sun end	-3386 Nov 18 j 05:57	0°♏48'24	
max. Earth dist.	-3386 Nov 18 j 23:22	0°♏51'00	20.57099 AU
morning rise	-3386 Dec 03 j 17:02	1°♏43'07	
retrograde	-3385 Mar 06 j 17:23	4°♏53'46	
min. Earth dist.	-3385 May 22 j 10:00	2°♏56'24	18.59982 AU
opposition	-3385 May 23 j 08:04	2°♏54'11	0°12'43
direct	-3385 Aug 07 j 22:54	0°♏55'48	
evening set	-3385 Nov 06 j 19:28	4°♏01'45	
conjunction	-3385 Nov 22 j 09:24	4°♏56'40	0°09'51
minimum elong	-3385 Nov 22 j 09:24	4°♏56'40	0°09'47
behind sun begin	-3385 Nov 22 j 04:00	4°♏55'53	
behind sun end	-3385 Nov 22 j 14:47	4°♏57'26	
max. Earth dist.	-3385 Nov 23 j 09:20	5°♏00'12	20.62797 AU
morning rise	-3385 Dec 08 j 00:45	5°♏51'48	
retrograde	-3384 Mar 10 j 04:09	9°♏01'58	
opposition	-3384 May 26 j 22:08	7°♏02'24	0°08'57
min. Earth dist.	-3384 May 25 j 22:30	7°♏04'46	18.65597 AU
direct	-3384 Aug 11 j 11:47	5°♏04'18	
evening set	-3384 Nov 10 j 02:16	8°♏09'12	
conjunction	-3384 Nov 25 j 16:15	9°♏03'56	0°06'28
minimum elong	-3384 Nov 25 j 16:15	9°♏03'56	0°06'22
behind sun begin	-3384 Nov 25 j 10:05	9°♏03'03	
behind sun end	-3384 Nov 25 j 22:26	9°♏04'49	
max. Earth dist.	-3384 Nov 26 j 16:25	9°♏07'30	20.68328 AU
morning rise	-3384 Dec 11 j 08:16	9°♏58'57	
retrograde	-3383 Mar 14 j 14:39	13°♏08'40	
min. Earth dist.	-3383 May 30 j 10:51	11°♏11'35	18.71053 AU
opposition	-3383 May 31 j 11:23	11°♏09'08	0°05'10
direct	-3383 Aug 15 j 21:55	9°♏11'19	
evening set	-3383 Nov 14 j 08:22	12°♏15'14	
conjunction	-3383 Nov 29 j 22:49	13°♏09'49	0°03'03
minimum elong	-3383 Nov 29 j 22:50	13°♏09'49	0°02'59
behind sun begin	-3383 Nov 29 j 16:19	13°♏08'54	
behind sun end	-3383 Nov 30 j 05:21	13°♏10'45	
max. Earth dist.	-3383 Dec 01 j 01:14	13°♏13'42	20.73687 AU
morning rise	-3383 Dec 15 j 15:13	14°♏04'43	
	-3382 Jan 01 j 08:11	15°♏	
retrograde	-3382 Mar 19 j 00:35	17°♏14'02	

min. Earth dist.	-3382 Jun 03 j 22:01	15°♏17'10	18.76307 AU
opposition	-3382 Jun 05 j 00:03	15°♏14'34	0°01'22
	-3382 Jun 11 j 01:43	15°℞♏	
direct	-3382 Aug 20 j 08:59	13°♏17'03	
desc. node	-3382 Oct 16 j 20:29	14°♏38'23	
	-3382 Oct 24 j 14:37	15°♏	
evening set	-3382 Nov 18 j 14:06	16°♏20'03	
conjunction	-3382 Dec 04 j 04:46	17°♏14'30	-0°00'28
minimum elong	-3382 Dec 04 j 04:45	17°♏14'30	0°00'33
behind sun begin	-3382 Dec 03 j 22:14	17°♏13'34	
behind sun end	-3382 Dec 04 j 11:16	17°♏15'26	
max. Earth dist.	-3382 Dec 05 j 07:15	17°♏18'23	20.78831 AU
morning rise	-3382 Dec 19 j 21:56	18°♏09'18	
retrograde	-3381 Mar 23 j 10:53	21°♏18'16	
min. Earth dist.	-3381 Jun 08 j 09:42	19°♏21'31	18.81339 AU
opposition	-3381 Jun 09 j 12:12	19°♏18'52	-0°02'25
direct	-3381 Aug 24 j 17:34	17°♏21'38	
evening set	-3381 Nov 22 j 19:26	20°♏23'47	
conjunction	-3381 Dec 08 j 10:43	21°♏18'08	-0°03'55
minimum elong	-3381 Dec 08 j 10:43	21°♏18'08	0°04'00
behind sun begin	-3381 Dec 08 j 04:15	21°♏17'13	
behind sun end	-3381 Dec 08 j 17:10	21°♏19'03	
max. Earth dist.	-3381 Dec 09 j 15:07	21°♏22'17	20.83721 AU
morning rise	-3381 Dec 24 j 04:23	22°♏12'51	
retrograde	-3380 Mar 26 j 20:16	25°♏21'29	
opposition	-3380 Jun 12 j 23:27	23°♏22'11	-0°06'10
min. Earth dist.	-3380 Jun 11 j 19:50	23°♏24'57	18.86074 AU
direct	-3380 Aug 28 j 03:16	21°♏25'15	
evening set	-3380 Nov 26 j 00:42	24°♏26'38	
conjunction	-3380 Dec 11 j 16:17	25°♏20'52	-0°07'17
minimum elong	-3380 Dec 11 j 16:17	25°♏20'52	0°07'23
behind sun begin	-3380 Dec 11 j 10:17	25°♏20'01	
behind sun end	-3380 Dec 11 j 22:18	25°♏21'43	
max. Earth dist.	-3380 Dec 12 j 20:20	25°♏24'57	20.88289 AU
morning rise	-3380 Dec 27 j 10:50	26°♏15'32	
retrograde	-3379 Mar 31 j 05:51	29°♏23'53	
min. Earth dist.	-3379 Jun 16 j 06:56	27°♏27'24	18.90472 AU
opposition	-3379 Jun 17 j 10:23	27°♏24'39	-0°09'53
direct	-3379 Sep 01 j 10:14	25°♏27'59	
evening set	-3379 Nov 30 j 05:28	28°♏28'40	
conjunction	-3379 Dec 15 j 21:44	29°♏22'50	-0°10'36
minimum elong	-3379 Dec 15 j 21:44	29°♏22'50	0°10'43
behind sun begin	-3379 Dec 15 j 16:39	29°♏22'07	
behind sun end	-3379 Dec 16 j 02:49	29°♏23'33	
max. Earth dist.	-3379 Dec 17 j 03:17	29°♏27'07	20.92484 AU
	-3379 Dec 26 j 14:36	0°♐	
morning rise	-3379 Dec 31 j 16:50	0°♐17'25	
retrograde	-3378 Apr 04 j 15:01	3°♐25'32	
opposition	-3378 Jun 21 j 20:42	1°♐26'23	-0°13'32
min. Earth dist.	-3378 Jun 20 j 16:25	1°♐29'13	18.94453 AU
	-3378 Aug 01 j 10:18	30°℞♏	
direct	-3378 Sep 05 j 19:14	29°♏29'58	
	-3378 Oct 10 j 02:44	0°♐	
evening set	-3378 Dec 04 j 10:25	2°♐30'00	
conjunction	-3378 Dec 20 j 03:06	3°♐24'06	-0°13'52
minimum elong	-3378 Dec 20 j 03:06	3°♐24'06	0°13'58
behind sun begin	-3378 Dec 19 j 23:40	3°♐23'37	
behind sun end	-3378 Dec 20 j 06:32	3°♐24'35	
max. Earth dist.	-3378 Dec 21 j 07:52	3°♐28'15	20.96240 AU
morning rise	-3377 Jan 04 j 23:09	4°♐18'40	
retrograde	-3377 Apr 08 j 23:55	7°♐26'33	
min. Earth dist.	-3377 Jun 25 j 03:06	5°♐30'12	18.97983 AU

Attention, astronomical year style is used: The year -3377 in astronomical counting style is the year 3378 BCE in historical counting style.

opposition	-3377 Jun 26 j 06:38	5°♐27'27	-0°17'07	
direct	-3377 Sep 10 j 00:56	3°♐31'12		
evening set	-3377 Dec 08 j 15:02	6°♐30'40		
conjunction	-3377 Dec 24 j 08:34	7°♐24'44	-0°17'04	
minimum elong	-3377 Dec 24 j 08:34	7°♐24'44	0°17'11	
max. Earth dist.	-3377 Dec 25 j 14:16	7°♐29'01	20.99511 AU	
morning rise	-3376 Jan 09 j 05:17	8°♐19'16		
retrograde	-3376 Apr 12 j 09:01	11°♐26'57		
min. Earth dist.	-3376 Jun 28 j 11:56	9°♐30'40	19.00984 AU	
opposition	-3376 Jun 29 j 15:58	9°♐27'52	-0°20'36	
direct	-3376 Sep 13 j 09:14	7°♐31'46		
evening set	-3376 Dec 11 j 19:47	10°♐30'43		
conjunction	-3376 Dec 27 j 13:49	11°♐24'44	-0°20'10	
minimum elong	-3376 Dec 27 j 13:49	11°♐24'44	0°20'17	
max. Earth dist.	-3376 Dec 28 j 18:17	11°♐28'50	21.02240 AU	
morning rise	-3375 Jan 12 j 11:32	12°♐19'16		
retrograde	-3375 Apr 16 j 17:11	15°♐26'46		
min. Earth dist.	-3375 Jul 02 j 21:59	13°♐30'21	19.03449 AU	
opposition	-3375 Jul 04 j 00:53	13°♐27'40	-0°23'59	
direct	-3375 Sep 17 j 14:29	11°♐31'39		
evening set	-3375 Dec 16 j 00:12	14°♐30'07		
conjunction	-3375 Dec 31 j 19:10	15°♐24'08	-0°23'10	
minimum elong	-3375 Dec 31 j 19:10	15°♐24'08	0°23'17	
max. Earth dist.	-3374 Jan 02 j 00:19	15°♐28'19	21.04437 AU	
morning rise	-3374 Jan 16 j 17:36	16°♐18'40		
retrograde	-3374 Apr 21 j 01:53	19°♐25'59		
min. Earth dist.	-3374 Jul 07 j 05:57	17°♐29'34	19.05378 AU	
opposition	-3374 Jul 08 j 09:16	17°♐26'51	-0°27'14	
direct	-3374 Sep 21 j 21:41	15°♐30'53		
evening set	-3374 Dec 20 j 04:36	18°♐28'55		
conjunction	-3373 Jan 05 j 00:12	19°♐22'56	-0°26'02	
minimum elong	-3373 Jan 05 j 00:12	19°♐22'56	0°26'10	
max. Earth dist.	-3373 Jan 06 j 04:07	19°♐26'56	21.06116 AU	
morning rise	-3373 Jan 20 j 23:45	20°♐17'30		
retrograde	-3373 Apr 25 j 09:48	23°♐24'41		
opposition	-3373 Jul 12 j 17:21	21°♐25'27	-0°30'20	
min. Earth dist.	-3373 Jul 11 j 15:18	21°♐28'03	19.06822 AU	
direct	-3373 Sep 26 j 02:46	19°♐29'28		
evening set	-3373 Dec 24 j 08:57	22°♐27'11		
conjunction	-3372 Jan 09 j 05:33	23°♐21'13	-0°28'47	
minimum elong	-3372 Jan 09 j 05:33	23°♐21'13	0°28'54	
max. Earth dist.	-3372 Jan 10 j 10:04	23°♐25'18	21.07329 AU	
morning rise	-3372 Jan 25 j 05:53	24°♐15'48		
retrograde	-3372 Apr 28 j 18:06	27°♐22'51		
min. Earth dist.	-3372 Jul 14 j 22:13	25°♐26'11	19.07811 AU	
opposition	-3372 Jul 16 j 00:39	25°♐23'32	-0°33'17	
direct	-3372 Sep 29 j 08:46	23°♐27'33		
evening set	-3372 Dec 27 j 13:28	26°♐25'00		
conjunction	-3371 Jan 12 j 10:44	27°♐19'04	-0°31'23	
minimum elong	-3371 Jan 12 j 10:44	27°♐19'04	0°31'30	
max. Earth dist.	-3371 Jan 13 j 13:56	27°♐22'57	21.08108 AU	
morning rise	-3371 Jan 28 j 12:11	28°♐13'42		
	-3371 Mar 04 j 18:34	0°♑		
retrograde	-3371 May 03 j 01:47	1°♑20'41		
	-3371 Jul 03 j 22:46	30°℞♐		
min. Earth dist.	-3371 Jul 19 j 06:46	29°♐23'48	19.08400 AU	
opposition	-3371 Jul 20 j 07:53	29°♐21'17	-0°36'04	
direct	-3371 Oct 03 j 13:14	27°♐25'16		
	-3371 Dec 24 j 21:49	0°♑		
evening set	-3371 Dec 31 j 17:46	0°♑22'31		

conjunction	-3370 Jan 16 j 16:05	1°♑16'38	-0°33'49	
minimum elong	-3370 Jan 16 j 16:05	1°♑16'38	0°33'56	
max. Earth dist.	-3370 Jan 17 j 19:52	1°♑20'36	21.08503 AU	
morning rise	-3370 Feb 01 j 18:19	2°♑11'20		
retrograde	-3370 May 07 j 10:29	5°♑18'18		
opposition	-3370 Jul 24 j 14:42	3°♑18'49	-0°38'41	
min. Earth dist.	-3370 Jul 23 j 13:09	3°♑21'24	19.08603 AU	
direct	-3370 Oct 07 j 18:49	1°♑22'46		
evening set	-3369 Jan 04 j 22:32	4°♑19'55		
conjunction	-3369 Jan 20 j 21:37	5°♑14'07	-0°36'06	
minimum elong	-3369 Jan 20 j 21:37	5°♑14'07	0°36'14	
max. Earth dist.	-3369 Jan 21 j 23:57	5°♑17'52	21.08520 AU	
morning rise	-3369 Feb 06 j 01:01	6°♑08'54		
retrograde	-3369 May 11 j 17:54	9°♑15'53		
opposition	-3369 Jul 28 j 21:20	7°♑16'20	-0°41'07	
min. Earth dist.	-3369 Jul 27 j 21:22	7°♑18'45	19.08443 AU	
direct	-3369 Oct 11 j 22:37	5°♑20'14		
evening set	-3368 Jan 09 j 03:24	8°♑17'23		
conjunction	-3368 Jan 25 j 03:37	9°♑11'40	-0°38'13	
minimum elong	-3368 Jan 25 j 03:37	9°♑11'40	0°38'20	
max. Earth dist.	-3368 Jan 26 j 06:12	9°♑15'27	21.08174 AU	
morning rise	-3368 Feb 10 j 07:52	10°♑06'33		
retrograde	-3368 May 15 j 03:34	13°♑13'35		
min. Earth dist.	-3368 Jul 31 j 03:35	11°♑16'26	19.07898 AU	
opposition	-3368 Aug 01 j 03:41	11°♑14'00	-0°43'21	
direct	-3368 Oct 15 j 04:10	9°♑17'52		
evening set	-3367 Jan 12 j 08:42	12°♑15'04		
conjunction	-3367 Jan 28 j 09:43	13°♑09'28	-0°40'10	
minimum elong	-3367 Jan 28 j 09:42	13°♑09'28	0°40'17	
max. Earth dist.	-3367 Jan 29 j 10:34	13°♑13'01	21.07433 AU	
morning rise	-3367 Feb 13 j 15:05	14°♑04'28		
retrograde	-3367 May 19 j 10:45	17°♑11'37		
min. Earth dist.	-3367 Aug 04 j 11:52	15°♑14'15	19.06961 AU	
opposition	-3367 Aug 05 j 10:05	15°♑12'00	-0°45'23	
direct	-3367 Oct 19 j 07:26	13°♑15'49		
evening set	-3366 Jan 16 j 14:16	16°♑13'10		
conjunction	-3366 Feb 01 j 16:26	17°♑07'42	-0°41'55	
minimum elong	-3366 Feb 01 j 16:26	17°♑07'42	0°42'02	
max. Earth dist.	-3366 Feb 02 j 17:14	17°♑11'14	21.06297 AU	
morning rise	-3366 Feb 17 j 22:39	18°♑02'49		
retrograde	-3366 May 23 j 21:00	21°♑10'08		
opposition	-3366 Aug 09 j 16:16	19°♑10'29	-0°47'13	
min. Earth dist.	-3366 Aug 08 j 18:16	19°♑12'43	19.05603 AU	
direct	-3366 Oct 23 j 13:14	17°♑14'13		
evening set	-3365 Jan 20 j 20:27	20°♑11'49		
conjunction	-3365 Feb 05 j 23:29	21°♑06'29	-0°43'28	
minimum elong	-3365 Feb 05 j 23:29	21°♑06'29	0°43'35	
max. Earth dist.	-3365 Feb 06 j 22:10	21°♑09'43	21.04715 AU	
morning rise	-3365 Feb 22 j 06:53	22°♑01'45		
retrograde	-3365 May 28 j 04:48	25°♑09'16		
opposition	-3365 Aug 13 j 22:39	23°♑09'35	-0°48'49	
min. Earth dist.	-3365 Aug 13 j 03:00	23°♑11'35	19.03785 AU	
direct	-3365 Oct 27 j 16:28	21°♑13'14		
evening set	-3364 Jan 25 j 03:09	24°♑11'09		
conjunction	-3364 Feb 10 j 07:21	25°♑05'59	-0°44'49	
minimum elong	-3364 Feb 10 j 07:21	25°♑05'59	0°44'56	
max. Earth dist.	-3364 Feb 11 j 05:20	25°♑09'07	21.02651 AU	
morning rise	-3364 Feb 26 j 15:34	26°♑01'24		
retrograde	-3364 May 31 j 15:04	29°♑09'08		
min. Earth dist.	-3364 Aug 16 j 09:44	27°♑11'21	19.01458 AU	
opposition	-3364 Aug 17 j 04:44	27°♑09'25	-0°50'12	

Attention, astronomical year style is used: The year -3364 in astronomical counting style is the year 3365 BCE in historical counting style.

direct	-3364 Oct 30 j 22:45	25°♉12'55	
evening set	-3363 Jan 28 j 10:31	28°♉11'14	
conjunction	-3363 Feb 13 j 15:35	29°♉06'14	-0°45'57
minimum elong	-3363 Feb 13 j 15:35	29°♉06'14	0°46'02
max. Earth dist.	-3363 Feb 14 j 10:55	29°♉08'59	21.00058 AU
	-3363 Mar 01 j 11:48	0°♒	
morning rise	-3363 Mar 02 j 00:54	0°♒01'49	
retrograde	-3363 Jun 04 j 23:47	3°♒09'49	
opposition	-3363 Aug 21 j 11:15	1°♒10'01	-0°51'20
min. Earth dist.	-3363 Aug 20 j 18:53	1°♒11'41	18.98597 AU
	-3363 Sep 21 j 03:06	30°℞♉	
direct	-3363 Nov 04 j 02:31	29°♉13'21	
	-3363 Dec 17 j 01:37	0°♒	
evening set	-3362 Feb 01 j 18:08	2°♒12'06	
conjunction	-3362 Feb 18 j 00:26	3°♒07'18	-0°46'51
minimum elong	-3362 Feb 18 j 00:26	3°♒07'18	0°46'58
max. Earth dist.	-3362 Feb 18 j 18:44	3°♒09'55	20.96932 AU
morning rise	-3362 Mar 06 j 10:36	4°♒03'04	
retrograde	-3362 Jun 09 j 10:16	7°♒11'21	
opposition	-3362 Aug 25 j 17:43	5°♒11'26	-0°52'13
min. Earth dist.	-3362 Aug 25 j 02:05	5°♒13'02	18.95191 AU
direct	-3362 Nov 08 j 09:13	3°♒14'32	
evening set	-3361 Feb 06 j 02:39	6°♒13'47	
conjunction	-3361 Feb 22 j 09:51	7°♒09'11	-0°47'32
minimum elong	-3361 Feb 22 j 09:51	7°♒09'11	0°47'37
max. Earth dist.	-3361 Feb 23 j 01:19	7°♒11'24	20.93267 AU
morning rise	-3361 Mar 10 j 21:07	8°♒05'09	
retrograde	-3361 Jun 13 j 19:34	11°♒13'43	
min. Earth dist.	-3361 Aug 29 j 11:29	9°♒14'58	18.91275 AU
opposition	-3361 Aug 30 j 00:17	9°♒13'40	-0°52'50
direct	-3361 Nov 12 j 13:58	7°♒16'29	
evening set	-3360 Feb 10 j 11:34	10°♒16'19	
conjunction	-3360 Feb 26 j 20:00	11°♒11'56	-0°47'58
minimum elong	-3360 Feb 26 j 20:00	11°♒11'56	0°48'04
max. Earth dist.	-3360 Feb 27 j 10:16	11°♒13'58	20.89125 AU
morning rise	-3360 Mar 14 j 08:04	12°♒08'05	
	-3360 May 21 j 20:45	15°♒	
retrograde	-3360 Jun 17 j 06:18	15°♒16'58	
	-3360 Jul 13 j 18:15	15°℞♒	
opposition	-3360 Sep 02 j 06:54	13°♒16'45	-0°53'12
min. Earth dist.	-3360 Sep 01 j 18:51	13°♒17'59	18.86903 AU
direct	-3360 Nov 15 j 20:53	11°♒19'16	
evening set	-3359 Feb 13 j 21:06	14°♒19'43	
	-3359 Feb 25 j 17:37	15°♒	
conjunction	-3359 Mar 02 j 06:24	15°♒15'34	-0°48'10
minimum elong	-3359 Mar 02 j 06:24	15°♒15'34	0°48'15
max. Earth dist.	-3359 Mar 02 j 18:03	15°♒17'14	20.84551 AU
morning rise	-3359 Mar 18 j 19:27	16°♒11'57	
retrograde	-3359 Jun 21 j 15:51	19°♒21'10	
opposition	-3359 Sep 06 j 13:50	17°♒20'46	-0°53'17
min. Earth dist.	-3359 Sep 06 j 04:28	17°♒21'45	18.82148 AU
direct	-3359 Nov 20 j 02:45	15°♒22'58	
evening set	-3358 Feb 18 j 07:12	18°♒24'07	
conjunction	-3358 Mar 06 j 17:40	19°♒20'12	-0°48'07
minimum elong	-3358 Mar 06 j 17:40	19°♒20'12	0°48'12
max. Earth dist.	-3358 Mar 07 j 04:11	19°♒21'43	20.79640 AU
morning rise	-3358 Mar 23 j 07:30	20°♒16'48	
retrograde	-3358 Jun 26 j 03:11	23°♒26'24	
opposition	-3358 Sep 10 j 20:45	21°♒25'50	-0°53'07
min. Earth dist.	-3358 Sep 10 j 12:02	21°♒26'44	18.77081 AU
direct	-3358 Nov 24 j 10:13	19°♒27'41	
evening set	-3357 Feb 22 j 18:09	22°♒29'36	
conjunction	-3357 Mar 11 j 05:31	23°♒25'57	-0°47'50
minimum elong	-3357 Mar 11 j 05:31	23°♒25'57	0°47'55
max. Earth dist.	-3357 Mar 11 j 13:30	23°♒27'05	20.74434 AU
morning rise	-3357 Mar 27 j 20:17	24°♒22'47	
retrograde	-3357 Jun 30 j 13:20	27°♒32'46	
opposition	-3357 Sep 15 j 04:09	25°♒32'03	-0°52'40
min. Earth dist.	-3357 Sep 14 j 22:06	25°♒32'41	18.71753 AU
direct	-3357 Nov 28 j 16:39	23°♒33'33	
evening set	-3356 Feb 27 j 05:43	26°♒36'19	
conjunction	-3356 Mar 14 j 18:10	27°♒32'56	-0°47'18
minimum elong	-3356 Mar 14 j 18:10	27°♒32'56	0°47'21
max. Earth dist.	-3356 Mar 15 j 00:52	27°♒33'53	20.68999 AU
morning rise	-3356 Mar 31 j 09:37	28°♒29'59	
	-3356 Apr 29 j 04:55	0°♓	
retrograde	-3356 Jul 04 j 01:44	1°♓40'25	
	-3356 Sep 10 j 06:59	30°℞♒	
opposition	-3356 Sep 18 j 11:38	29°♒39'33	-0°51'57
min. Earth dist.	-3356 Sep 18 j 06:13	29°♒40'07	18.66212 AU
direct	-3356 Dec 02 j 01:20	27°♒40'43	
	-3355 Feb 17 j 05:06	0°♓	
evening set	-3355 Mar 02 j 18:09	0°♓44'24	
conjunction	-3355 Mar 19 j 07:26	1°♓41'17	-0°46'31
minimum elong	-3355 Mar 19 j 07:27	1°♓41'17	0°46'35
max. Earth dist.	-3355 Mar 19 j 11:42	1°♓41'54	20.63366 AU
morning rise	-3355 Apr 04 j 23:41	2°♓38'36	
retrograde	-3355 Jul 08 j 12:34	5°♓49'30	
opposition	-3355 Sep 22 j 19:46	3°♓48'31	-0°50'58
min. Earth dist.	-3355 Sep 22 j 16:57	3°♓48'49	18.60501 AU
direct	-3355 Dec 06 j 08:04	1°♓49'21	
evening set	-3354 Mar 07 j 07:11	4°♓54'00	
conjunction	-3354 Mar 23 j 21:32	5°♓51'10	-0°45'29
minimum elong	-3354 Mar 23 j 21:32	5°♓51'10	0°45'32
max. Earth dist.	-3354 Mar 24 j 00:19	5°♓51'34	20.57589 AU
morning rise	-3354 Apr 09 j 14:27	6°♓48'44	
retrograde	-3354 Jul 13 j 02:39	10°♓00'09	
opposition	-3354 Sep 27 j 04:13	7°♓59'04	-0°49'42
min. Earth dist.	-3354 Sep 27 j 02:08	7°♓59'17	18.54640 AU
direct	-3354 Dec 10 j 18:05	5°♓59'34	
evening set	-3353 Mar 11 j 21:26	9°♓05'16	
conjunction	-3353 Mar 28 j 12:35	10°♓02'44	-0°44'13
minimum elong	-3353 Mar 28 j 12:35	10°♓02'44	0°44'16
max. Earth dist.	-3353 Mar 28 j 12:55	10°♓02'47	20.51653 AU
morning rise	-3353 Apr 14 j 06:09	11°♓00'33	
retrograde	-3353 Jul 17 j 14:43	14°♓12'29	
opposition	-3353 Oct 01 j 13:12	12°♓11'20	-0°48'10
min. Earth dist.	-3353 Oct 01 j 13:57	12°♓11'15	18.48630 AU
direct	-3353 Dec 15 j 02:01	10°♓11'31	
evening set	-3352 Mar 15 j 12:33	13°♓18'19	
conjunction	-3352 Apr 01 j 04:35	14°♓16'05	-0°42'42
minimum elong	-3352 Apr 01 j 04:35	14°♓16'05	0°42'44
max. Earth dist.	-3352 Apr 01 j 02:59	14°♓15'51	20.45576 AU
morning rise	-3352 Apr 17 j 22:41	15°♓14'10	
retrograde	-3352 Jul 21 j 06:11	18°♓26'39	
opposition	-3352 Oct 04 j 22:44	16°♓25'25	-0°46'22
min. Earth dist.	-3352 Oct 05 j 00:28	16°♓25'14	18.42467 AU
direct	-3352 Dec 18 j 13:05	14°♓25'17	
evening set	-3351 Mar 20 j 04:33	17°♓33'14	
conjunction	-3351 Apr 05 j 21:17	18°♓31'18	-0°40'56
minimum elong	-3351 Apr 05 j 21:17	18°♓31'18	0°40'57

Attention, astronomical year style is used: The year -3351 in astronomical counting style is the year 3352 BCE in historical counting style.

max. Earth dist.	-3351 Apr 05 j 17:17	18°♓30'43	20.39319 AU
morning rise	-3351 Apr 22 j 15:51	19°♓29'38	
retrograde	-3351 Jul 25 j 20:04	22°♓42'41	
opposition	-3351 Oct 09 j 09:03	20°♓41'24	-0°44'17
min. Earth dist.	-3351 Oct 09 j 13:41	20°♓40'54	18.36122 AU
direct	-3351 Dec 22 j 22:43	18°♓40'54	
evening set	-3350 Mar 24 j 21:39	21°♓50'02	
conjunction	-3350 Apr 10 j 15:08	22°♓48'24	-0°38'55
minimum elong	-3350 Apr 10 j 15:08	22°♓48'24	0°38'57
max. Earth dist.	-3350 Apr 10 j 08:40	22°♓47'27	20.32888 AU
morning rise	-3350 Apr 27 j 10:09	23°♓47'01	
retrograde	-3350 Jul 30 j 12:44	27°♓00'37	
opposition	-3350 Oct 13 j 19:45	24°♓59'13	-0°41'57
min. Earth dist.	-3350 Oct 14 j 01:38	24°♓58'36	18.29591 AU
direct	-3350 Dec 27 j 11:21	22°♓58'21	
evening set	-3349 Mar 29 j 15:48	26°♓08'41	
conjunction	-3349 Apr 15 j 09:56	27°♓07'22	-0°36'41
minimum elong	-3349 Apr 15 j 09:56	27°♓07'22	0°36'41
max. Earth dist.	-3349 Apr 15 j 01:00	27°♓06'03	20.26253 AU
morning rise	-3349 May 02 j 05:13	28°♓06'14	
	-3349 Jun 07 j 22:03	0°♈	
retrograde	-3349 Aug 04 j 03:53	1°♈20'23	
	-3349 Oct 01 j 21:47	30°℞♓	
opposition	-3349 Oct 18 j 07:22	29°♓18'52	-0°39'21
min. Earth dist.	-3349 Oct 18 j 16:07	29°♓17'56	18.22867 AU
direct	-3349 Dec 31 j 22:38	27°♓17'36	
	-3348 Mar 24 j 20:40	0°♈	
evening set	-3348 Apr 02 j 10:44	0°♈29'09	
conjunction	-3348 Apr 19 j 05:24	1°♈28'07	-0°34'13
minimum elong	-3348 Apr 19 j 05:24	1°♈28'07	0°34'13
max. Earth dist.	-3348 Apr 18 j 17:44	1°♈26'24	20.19457 AU
morning rise	-3348 May 06 j 01:00	2°♈27'15	
retrograde	-3348 Aug 07 j 21:35	5°♈41'56	
opposition	-3348 Oct 21 j 19:25	3°♈40'17	-0°36'30
min. Earth dist.	-3348 Oct 22 j 05:22	3°♈39'13	18.16005 AU
direct	-3347 Jan 04 j 13:11	1°♈38'34	
evening set	-3347 Apr 07 j 06:33	4°♈51'22	
conjunction	-3347 Apr 24 j 01:46	5°♈50'38	-0°31'32
minimum elong	-3347 Apr 24 j 01:46	5°♈50'38	0°31'31
max. Earth dist.	-3347 Apr 23 j 12:08	5°♈48'37	20.12542 AU
morning rise	-3347 May 10 j 21:25	6°♈50'01	
retrograde	-3347 Aug 12 j 13:32	10°♈05'13	
opposition	-3347 Oct 26 j 08:12	8°♈03'25	-0°33'25
min. Earth dist.	-3347 Oct 26 j 20:43	8°♈02'05	18.09064 AU
direct	-3346 Jan 09 j 02:03	6°♈01'16	
evening set	-3346 Apr 12 j 03:12	9°♈15'18	
conjunction	-3346 Apr 28 j 22:47	10°♈14'51	-0°28'39
minimum elong	-3346 Apr 28 j 22:47	10°♈14'51	0°28'37
max. Earth dist.	-3346 Apr 28 j 06:24	10°♈12'25	20.05602 AU
morning rise	-3346 May 15 j 18:40	11°♈14'29	
retrograde	-3346 Aug 17 j 08:08	14°♈30'13	
opposition	-3346 Oct 30 j 21:32	12°♈28'15	-0°30'07
min. Earth dist.	-3346 Oct 31 j 11:12	12°♈26'47	18.02130 AU
direct	-3345 Jan 13 j 18:17	10°♈25'38	
evening set	-3345 Apr 17 j 00:46	13°♈40'56	
conjunction	-3345 May 03 j 20:45	14°♈40'47	-0°25'35
minimum elong	-3345 May 03 j 20:45	14°♈40'47	0°25'33
max. Earth dist.	-3345 May 03 j 03:00	14°♈38'08	19.98684 AU
morning rise	-3345 May 20 j 16:26	15°♈40'39	
retrograde	-3345 Aug 22 j 01:08	18°♈56'53	
opposition	-3345 Nov 04 j 11:37	16°♈54'47	-0°26'38

min. Earth dist.	-3345 Nov 05 j 03:28	16°♈53'04	17.95263 AU
direct	-3344 Jan 18 j 08:58	14°♈51'43	
evening set	-3344 Apr 20 j 23:08	18°♈08'18	
conjunction	-3344 May 07 j 19:13	19°♈08'24	-0°22'21
minimum elong	-3344 May 07 j 19:14	19°♈08'24	0°22'18
max. Earth dist.	-3344 May 06 j 22:50	19°♈05'21	19.91895 AU
morning rise	-3344 May 24 j 14:57	20°♈08'30	
retrograde	-3344 Aug 25 j 20:39	23°♈25'16	
opposition	-3344 Nov 08 j 02:23	21°♈23'02	-0°22'57
min. Earth dist.	-3344 Nov 08 j 19:13	21°♈21'12	17.88569 AU
direct	-3343 Jan 22 j 02:42	19°♈19'32	
evening set	-3343 Apr 25 j 22:01	22°♈37'22	
conjunction	-3343 May 12 j 18:22	23°♈37'46	-0°18'57
minimum elong	-3343 May 12 j 18:23	23°♈37'46	0°18'55
max. Earth dist.	-3343 May 11 j 21:24	23°♈34'36	19.85294 AU
morning rise	-3343 May 29 j 13:43	24°♈38'04	
retrograde	-3343 Aug 30 j 14:49	27°♈55'20	
opposition	-3343 Nov 12 j 18:00	25°♈53'01	-0°19'07
min. Earth dist.	-3343 Nov 13 j 12:27	25°♈51'00	17.82094 AU
direct	-3342 Jan 26 j 19:14	23°♈49'07	
evening set	-3342 Apr 30 j 22:00	27°♈08'15	
conjunction	-3342 May 17 j 18:13	28°♈08'52	-0°15'26
minimum elong	-3342 May 17 j 18:13	28°♈08'52	0°15'23
behind sun begin	-3342 May 17 j 16:46	28°♈08'39	
behind sun end	-3342 May 17 j 19:41	28°♈09'05	
max. Earth dist.	-3342 May 16 j 18:42	28°♈05'19	19.78963 AU
morning rise	-3342 Jun 03 j 13:25	29°♈09'23	
	-3342 Jun 18 j 07:10	0°♉	
retrograde	-3342 Sep 04 j 11:08	2°♉27'10	
opposition	-3342 Nov 17 j 10:11	0°♉24'46	-0°15'08
min. Earth dist.	-3342 Nov 18 j 05:37	0°♉22'39	17.75923 AU
	-3342 Nov 26 j 23:22	30°℞♈	
direct	-3341 Jan 31 j 14:22	28°♈20'30	
	-3341 Apr 05 j 01:33	0°♉	
evening set	-3341 May 05 j 22:38	1°♉40'55	
conjunction	-3341 May 22 j 18:56	2°♉41'47	-0°11'48
minimum elong	-3341 May 22 j 18:56	2°♉41'47	0°11'44
behind sun begin	-3341 May 22 j 14:15	2°♉41'06	
behind sun end	-3341 May 22 j 23:37	2°♉42'29	
max. Earth dist.	-3341 May 21 j 19:13	2°♉38'12	19.72947 AU
morning rise	-3341 Jun 08 j 13:31	3°♉42'28	
retrograde	-3341 Sep 09 j 06:43	7°♉00'46	
opposition	-3341 Nov 22 j 03:23	4°♉58'21	-0°11'02
min. Earth dist.	-3341 Nov 22 j 23:57	4°♉56'06	17.70080 AU
direct	-3340 Feb 05 j 09:19	2°♉53'47	
evening set	-3340 May 10 j 00:01	6°♉15'28	
conjunction	-3340 May 26 j 19:55	7°♉16'32	-0°08'04
minimum elong	-3340 May 26 j 19:55	7°♉16'32	0°08'01
behind sun begin	-3340 May 26 j 13:53	7°♉15'38	
behind sun end	-3340 May 27 j 01:57	7°♉17'26	
max. Earth dist.	-3340 May 25 j 17:55	7°♉12'34	19.67290 AU
morning rise	-3340 Jun 12 j 14:07	8°♉17'24	
retrograde	-3340 Sep 13 j 03:33	11°♉36'13	
opposition	-3340 Nov 25 j 21:18	9°♉33'47	-0°06'50
min. Earth dist.	-3340 Nov 26 j 18:52	9°♉31'26	17.64618 AU
direct	-3339 Feb 09 j 05:50	7°♉28'58	
evening set	-3339 May 15 j 02:01	10°♉51'52	
conjunction	-3339 May 31 j 21:47	11°♉53'09	-0°04'17
minimum elong	-3339 May 31 j 21:48	11°♉53'09	0°04'12
behind sun begin	-3339 May 31 j 15:07	11°♉52'09	
behind sun end	-3339 Jun 01 j 04:29	11°♉54'09	

Attention, astronomical year style is used: The year -3339 in astronomical counting style is the year 3340 BCE in historical counting style.

max. Earth dist.	-3339 May 30 j 19:54	11°♉49'12	19.62005 AU
morning rise	-3339 Jun 17 j 15:14	12°♉54'09	
	-3339 Jul 27 j 03:46	15°♉	
retrograde	-3339 Sep 18 j 00:50	16°♉13'27	
	-3339 Nov 11 j 10:38	15°℞♉	
opposition	-3339 Nov 30 j 15:57	14°♉11'04	-0°02'33
min. Earth dist.	-3339 Dec 01 j 14:22	14°♉08'37	17.59513 AU
direct	-3338 Feb 14 j 03:18	12°♉06'01	
	-3338 May 11 j 16:18	15°♉	
evening set	-3338 May 20 j 04:57	15°♉30'08	
max. Earth dist.	-3338 Jun 04 j 20:02	16°♉27'16	19.57078 AU
conjunction	-3338 Jun 06 j 00:10	16°♉31'35	-0°00'21
minimum elong	-3338 Jun 06 j 00:09	16°♉31'35	0°00'16
behind sun begin	-3338 Jun 05 j 17:25	16°♉30'35	
behind sun end	-3338 Jun 06 j 06:53	16°♉32'35	
morning rise	-3338 Jun 22 j 17:00	17°♉32'43	
asc. node	-3338 Jul 08 j 02:01	18°♉26'18	
retrograde	-3338 Sep 22 j 22:27	20°♉52'29	
opposition	-3338 Dec 05 j 11:34	18°♉50'09	0°01'47
min. Earth dist.	-3338 Dec 06 j 11:18	18°♉47'34	17.54769 AU
direct	-3337 Feb 19 j 01:28	16°♉44'52	
evening set	-3337 May 25 j 08:20	20°♉10'08	
max. Earth dist.	-3337 Jun 09 j 23:04	21°♉07'24	19.52492 AU
conjunction	-3337 Jun 11 j 03:09	21°♉11'44	0°03'38
minimum elong	-3337 Jun 11 j 03:08	21°♉11'44	0°03'44
behind sun begin	-3337 Jun 10 j 20:25	21°♉10'43	
behind sun end	-3337 Jun 11 j 09:50	21°♉12'44	
morning rise	-3337 Jun 27 j 19:02	22°♉12'58	
retrograde	-3337 Sep 27 j 21:33	25°♉33'08	
opposition	-3337 Dec 10 j 07:59	23°♉30'52	0°06'07
min. Earth dist.	-3337 Dec 11 j 08:09	23°♉28'13	17.50347 AU
direct	-3336 Feb 24 j 01:16	21°♉25'22	
evening set	-3336 May 29 j 12:23	24°♉51'41	
max. Earth dist.	-3336 Jun 14 j 00:33	25°♉48'47	19.48235 AU
conjunction	-3336 Jun 15 j 06:25	25°♉53'24	0°07'31
minimum elong	-3336 Jun 15 j 06:24	25°♉53'24	0°07'37
behind sun begin	-3336 Jun 15 j 00:17	25°♉52'29	
behind sun end	-3336 Jun 15 j 12:31	25°♉54'19	
morning rise	-3336 Jul 01 j 21:28	26°♉54'44	
	-3336 Sep 08 j 12:02	0°♊	
retrograde	-3336 Oct 01 j 20:00	0°♊15'16	
	-3336 Oct 25 j 11:35	30°℞♉	
opposition	-3336 Dec 14 j 05:16	28°♉13'01	0°10'27
min. Earth dist.	-3336 Dec 15 j 06:47	28°♉10'14	17.46276 AU
direct	-3335 Feb 28 j 00:34	26°♉07'18	
evening set	-3335 Jun 03 j 16:34	29°♉34'35	
	-3335 Jun 10 j 15:03	0°♊	
max. Earth dist.	-3335 Jun 19 j 04:10	0°♊31'46	19.44333 AU
conjunction	-3335 Jun 20 j 10:00	0°♊36'24	0°11'22
minimum elong	-3335 Jun 20 j 09:59	0°♊36'24	0°11'28
behind sun begin	-3335 Jun 20 j 05:10	0°♊35'40	
behind sun end	-3335 Jun 20 j 14:48	0°♊37'08	
morning rise	-3335 Jul 07 j 00:04	1°♊37'47	
retrograde	-3335 Oct 06 j 20:28	4°♊58'38	
opposition	-3335 Dec 19 j 03:11	2°♊56'25	0°14'44
min. Earth dist.	-3335 Dec 20 j 04:34	2°♊53'38	17.42546 AU
direct	-3334 Mar 05 j 01:44	0°♊50'29	
evening set	-3334 Jun 08 j 21:20	4°♊18'37	
max. Earth dist.	-3334 Jun 24 j 06:56	5°♊15'42	19.40784 AU
conjunction	-3334 Jun 25 j 13:51	5°♊20'31	0°15'10
minimum elong	-3334 Jun 25 j 13:51	5°♊20'31	0°15'16
behind sun begin	-3334 Jun 25 j 12:01	5°♊20'14	
behind sun end	-3334 Jun 25 j 15:41	5°♊20'48	
morning rise	-3334 Jul 12 j 02:51	6°♊21'56	
retrograde	-3334 Oct 11 j 19:33	9°♊43'02	
opposition	-3334 Dec 24 j 01:46	7°♊40'50	0°18'56
min. Earth dist.	-3334 Dec 25 j 04:28	7°♊37'55	17.39207 AU
direct	-3333 Mar 10 j 02:17	5°♊34'41	
evening set	-3333 Jun 14 j 02:11	9°♊03'36	
max. Earth dist.	-3333 Jun 29 j 10:58	10°♊00'42	19.37658 AU
conjunction	-3333 Jun 30 j 17:48	10°♊05'31	0°18'52
minimum elong	-3333 Jun 30 j 17:48	10°♊05'31	0°18'58
morning rise	-3333 Jul 17 j 05:44	11°♊06'57	
retrograde	-3333 Oct 16 j 20:15	14°♊28'14	
opposition	-3333 Dec 29 j 00:59	12°♊26'02	0°23'00
min. Earth dist.	-3333 Dec 30 j 02:54	12°♊23'12	17.36298 AU
direct	-3332 Mar 14 j 04:35	10°♊19'43	
evening set	-3332 Jun 18 j 06:54	13°♊49'16	
conjunction	-3332 Jul 04 j 21:32	14°♊51'12	0°22'27
minimum elong	-3332 Jul 04 j 21:32	14°♊51'12	0°22'34
max. Earth dist.	-3332 Jul 03 j 14:49	14°♊46'24	19.34981 AU
morning rise	-3332 Jul 21 j 08:14	15°♊52'36	
retrograde	-3332 Oct 20 j 19:20	19°♊14'04	
opposition	-3331 Jan 02 j 00:49	17°♊11'51	0°26'56
min. Earth dist.	-3331 Jan 03 j 03:39	17°♊08'55	17.33882 AU
direct	-3331 Mar 19 j 06:16	15°♊05'21	
evening set	-3331 Jun 23 j 11:42	18°♊35'26	
max. Earth dist.	-3331 Jul 08 j 18:42	19°♊32'33	19.32831 AU
conjunction	-3331 Jul 10 j 01:14	19°♊37'21	0°25'53
minimum elong	-3331 Jul 10 j 01:14	19°♊37'21	0°26'00
morning rise	-3331 Jul 26 j 10:51	20°♊38'42	
retrograde	-3331 Oct 25 j 19:47	24°♊00'15	
opposition	-3330 Jan 07 j 00:52	21°♊58'02	0°30'40
min. Earth dist.	-3330 Jan 08 j 02:25	21°♊55'15	17.32004 AU
direct	-3330 Mar 24 j 10:05	19°♊51'25	
evening set	-3330 Jun 28 j 16:24	23°♊21'55	
max. Earth dist.	-3330 Jul 13 j 23:30	24°♊19'10	19.31236 AU
conjunction	-3330 Jul 15 j 04:53	24°♊23'47	0°29'09
minimum elong	-3330 Jul 15 j 04:52	24°♊23'47	0°29'15
morning rise	-3330 Jul 31 j 13:06	25°♊25'04	
retrograde	-3330 Oct 30 j 18:38	28°♊46'40	
opposition	-3329 Jan 12 j 01:43	26°♊44'28	0°34'12
min. Earth dist.	-3329 Jan 13 j 03:40	26°♊41'38	17.30718 AU
direct	-3329 Mar 29 j 13:03	24°♊37'46	
evening set	-3329 Jul 03 j 20:51	28°♊08'35	
max. Earth dist.	-3329 Jul 19 j 02:56	29°♊05'47	19.30267 AU
conjunction	-3329 Jul 20 j 07:59	29°♊10'21	0°32'12
minimum elong	-3329 Jul 20 j 07:59	29°♊10'21	0°32'20
	-3329 Aug 02 j 12:24	0°♋	
morning rise	-3329 Aug 05 j 15:03	0°♋11'32	
retrograde	-3329 Nov 04 j 18:53	3°♋33'10	
opposition	-3328 Jan 17 j 02:49	1°♋31'00	0°37'30
min. Earth dist.	-3328 Jan 18 j 02:54	1°♋28'23	17.30074 AU
	-3328 Feb 25 j 01:48	30°℞♊	
direct	-3328 Apr 02 j 17:48	29°♊24'17	
	-3328 May 09 j 18:27	0°♋	
evening set	-3328 Jul 08 j 00:58	2°♋55'17	
max. Earth dist.	-3328 Jul 23 j 08:05	3°♋52'43	19.29951 AU
conjunction	-3328 Jul 24 j 11:00	3°♋56'57	0°35'03
minimum elong	-3328 Jul 24 j 11:00	3°♋56'57	0°35'09
morning rise	-3328 Aug 09 j 16:37	4°♋58'01	
retrograde	-3328 Nov 08 j 18:01	8°♋19'38	
opposition	-3327 Jan 21 j 04:20	6°♋17'33	0°40'33

Attention, astronomical year style is used: The year -3327 in astronomical counting style is the year 3328 BCE in historical counting style.

min. Earth dist.	-3327 Jan 22 j 04:14	6°♋14'57	17.30097 AU
direct	-3327 Apr 07 j 21:20	4°♋10'53	
evening set	-3327 Jul 13 j 04:52	7°♋41'59	
max. Earth dist.	-3327 Jul 28 j 10:55	8°♋39'19	19.30316 AU
conjunction	-3327 Jul 29 j 13:30	8°♋43'31	0°37'39
minimum elong	-3327 Jul 29 j 13:30	8°♋43'31	0°37'46
morning rise	-3327 Aug 14 j 18:01	9°♋44'26	
retrograde	-3327 Nov 13 j 18:22	13°♋06'00	
opposition	-3326 Jan 26 j 06:04	11°♋04'02	0°43'19
min. Earth dist.	-3326 Jan 27 j 04:00	11°♋01'40	17.30787 AU
direct	-3326 Apr 13 j 02:10	8°♋57'29	
evening set	-3326 Jul 18 j 08:17	12°♋28'35	
conjunction	-3326 Aug 03 j 15:47	13°♋29'57	0°39'59
minimum elong	-3326 Aug 03 j 15:46	13°♋29'57	0°40'07
max. Earth dist.	-3326 Aug 02 j 15:48	13°♋26'10	19.31325 AU
morning rise	-3326 Aug 19 j 18:50	14°♋30'43	
retrograde	-3326 Nov 18 j 17:48	17°♋52'12	
opposition	-3325 Jan 31 j 08:13	15°♋50'24	0°45'47
min. Earth dist.	-3325 Feb 01 j 05:34	15°♋48'06	17.32097 AU
direct	-3325 Apr 18 j 05:56	13°♋44'01	
evening set	-3325 Jul 23 j 11:26	17°♋14'59	
conjunction	-3325 Aug 08 j 17:26	18°♋16'11	0°42'04
minimum elong	-3325 Aug 08 j 17:26	18°♋16'11	0°42'10
max. Earth dist.	-3325 Aug 07 j 17:56	18°♋12'28	19.32943 AU
morning rise	-3325 Aug 24 j 19:23	19°♋16'46	
retrograde	-3325 Nov 23 j 18:14	22°♋38'08	
opposition	-3324 Feb 05 j 10:32	20°♋36'30	0°47'55
min. Earth dist.	-3324 Feb 06 j 06:03	20°♋34'24	17.34002 AU
direct	-3324 Apr 22 j 10:18	18°♋30'19	
evening set	-3324 Jul 27 j 13:45	22°♋01'02	
conjunction	-3324 Aug 12 j 18:37	23°♋02'02	0°43'50
minimum elong	-3324 Aug 12 j 18:36	23°♋02'02	0°43'58
max. Earth dist.	-3324 Aug 11 j 21:54	22°♋58'46	19.35112 AU
morning rise	-3324 Aug 28 j 19:11	24°♋02'26	
retrograde	-3324 Nov 27 j 17:52	27°♋23'37	
opposition	-3323 Feb 09 j 13:04	25°♋22'10	0°49'44
min. Earth dist.	-3323 Feb 10 j 07:34	25°♋20'10	17.36413 AU
direct	-3323 Apr 27 j 14:02	23°♋16'13	
evening set	-3323 Aug 01 j 15:49	26°♋46'34	
conjunction	-3323 Aug 17 j 19:12	27°♋47'20	0°45'19
minimum elong	-3323 Aug 17 j 19:12	27°♋47'20	0°45'25
max. Earth dist.	-3323 Aug 16 j 23:01	27°♋44'09	19.37764 AU
morning rise	-3323 Sep 02 j 18:41	28°♋47'32	
	-3323 Sep 23 j 07:53	0°♌	
retrograde	-3323 Dec 02 j 17:44	2°♌08'30	
opposition	-3322 Feb 14 j 15:29	0°♌07'11	0°51'12
min. Earth dist.	-3322 Feb 15 j 08:31	0°♌05'22	17.39293 AU
	-3322 Feb 17 j 10:43	30°℞♋	
direct	-3322 May 02 j 17:36	28°♋01'29	
	-3322 Jul 11 j 06:39	0°♌	
evening set	-3322 Aug 06 j 17:05	1°♌31'21	
conjunction	-3322 Aug 22 j 19:19	2°♌31'53	0°46'29
minimum elong	-3322 Aug 22 j 19:19	2°♌31'53	0°46'35
max. Earth dist.	-3322 Aug 22 j 01:45	2°♌29'07	19.40855 AU
morning rise	-3322 Sep 07 j 17:30	3°♌31'51	
retrograde	-3322 Dec 07 j 17:26	6°♌52'32	
opposition	-3321 Feb 19 j 18:07	4°♌51'23	0°52'19
min. Earth dist.	-3321 Feb 20 j 09:32	4°♌49'44	17.42572 AU
direct	-3321 May 07 j 21:20	2°♌45'57	
evening set	-3321 Aug 11 j 17:36	6°♌15'10	

conjunction	-3321 Aug 27 j 18:27	7°♌15'27	0°47'19
minimum elong	-3321 Aug 27 j 18:27	7°♌15'27	0°47'25
max. Earth dist.	-3321 Aug 27 j 01:51	7°♌12'50	19.44328 AU
morning rise	-3321 Sep 12 j 15:37	8°♌15'11	
retrograde	-3321 Dec 12 j 16:19	11°♌35'34	
opposition	-3320 Feb 24 j 20:37	9°♌34'31	0°53'04
min. Earth dist.	-3320 Feb 25 j 10:42	9°♌33'01	17.46235 AU
direct	-3320 May 12 j 00:03	7°♌29'20	
evening set	-3320 Aug 15 j 17:16	10°♌57'50	
conjunction	-3320 Aug 31 j 17:01	11°♌57'51	0°47'50
minimum elong	-3320 Aug 31 j 17:01	11°♌57'51	0°47'55
max. Earth dist.	-3320 Aug 31 j 02:54	11°♌55'38	19.48169 AU
morning rise	-3320 Sep 16 j 13:06	12°♌57'20	
	-3320 Oct 23 j 19:22	15°♌	
retrograde	-3320 Dec 16 j 15:24	16°♌17'20	
	-3319 Feb 11 j 09:32	15°℞♌	
opposition	-3319 Feb 28 j 22:39	14°♌16'23	0°53'27
min. Earth dist.	-3319 Mar 01 j 10:37	14°♌15'07	17.50233 AU
direct	-3319 May 17 j 04:03	12°♌11'28	
	-3319 Aug 09 j 19:22	15°♌	
evening set	-3319 Aug 20 j 16:09	15°♌39'08	
conjunction	-3319 Sep 05 j 14:41	16°♌38'52	0°48'02
minimum elong	-3319 Sep 05 j 14:41	16°♌38'52	0°48'07
max. Earth dist.	-3319 Sep 05 j 02:01	16°♌36'53	19.52340 AU
morning rise	-3319 Sep 21 j 09:50	17°♌38'06	
retrograde	-3319 Dec 21 j 12:14	20°♌57'42	
opposition	-3318 Mar 06 j 00:37	18°♌56'48	0°53'28
min. Earth dist.	-3318 Mar 06 j 11:24	18°♌55'40	17.54576 AU
direct	-3318 May 22 j 06:15	16°♌52'10	
evening set	-3318 Aug 25 j 13:56	20°♌18'53	
conjunction	-3318 Sep 10 j 11:23	21°♌18'20	0°47'54
minimum elong	-3318 Sep 10 j 11:23	21°♌18'20	0°47'59
max. Earth dist.	-3318 Sep 10 j 01:08	21°♌16'43	19.56857 AU
morning rise	-3318 Sep 26 j 05:37	22°♌17'18	
retrograde	-3318 Dec 26 j 10:11	25°♌36'26	
opposition	-3317 Mar 11 j 02:07	23°♌35'36	0°53'09
min. Earth dist.	-3317 Mar 11 j 10:07	23°♌34'45	17.59250 AU
direct	-3317 May 27 j 10:06	21°♌31'14	
evening set	-3317 Aug 30 j 10:46	24°♌56'56	
conjunction	-3317 Sep 15 j 07:10	25°♌56'04	0°47'28
minimum elong	-3317 Sep 15 j 07:10	25°♌56'04	0°47'32
max. Earth dist.	-3317 Sep 14 j 23:09	25°♌54'49	19.61712 AU
morning rise	-3317 Oct 01 j 00:34	26°♌54'47	
	-3317 Dec 09 j 02:11	0°♍	
retrograde	-3317 Dec 31 j 05:01	0°♍13'26	
	-3316 Jan 22 j 18:14	30°℞♌	
opposition	-3316 Mar 15 j 03:15	28°♌12'38	0°52'28
min. Earth dist.	-3316 Mar 15 j 09:59	28°♌11'56	17.64296 AU
direct	-3316 May 31 j 11:00	26°♌08'34	
evening set	-3316 Sep 03 j 06:29	29°♌33'09	
	-3316 Sep 10 j 12:57	0°♍	
conjunction	-3316 Sep 19 j 01:54	0°♍32'00	0°46'43
minimum elong	-3316 Sep 19 j 01:54	0°♍32'00	0°46'47
max. Earth dist.	-3316 Sep 18 j 20:12	0°♍31'06	19.66949 AU
morning rise	-3316 Oct 04 j 18:38	1°♍30'26	
retrograde	-3315 Jan 04 j 01:39	4°♍48'35	
opposition	-3315 Mar 20 j 03:44	2°♍47'50	0°51'28
min. Earth dist.	-3315 Mar 20 j 07:10	2°♍47'29	17.69706 AU
direct	-3315 Jun 05 j 13:27	0°♍44'06	
evening set	-3315 Sep 08 j 01:17	4°♍07'32	
conjunction	-3315 Sep 23 j 19:48	5°♍06'04	0°45'42

Attention, astronomical year style is used: The year -3315 in astronomical counting style is the year 3316 BCE in historical counting style.

minimum elong	-3315 Sep 23 j 19:48	5°♍06'04	0°45'44	
max. Earth dist.	-3315 Sep 23 j 16:52	5°♍05'37	19.72543 AU	
morning rise	-3315 Oct 09 j 11:47	6°♍04'14		
retrograde	-3314 Jan 08 j 19:02	9°♍21'52		
opposition	-3314 Mar 25 j 03:48	7°♍21'13	0°50'09	
min. Earth dist.	-3314 Mar 25 j 05:51	7°♍21'00	17.75490 AU	
direct	-3314 Jun 10 j 12:19	5°♍17'50		
evening set	-3314 Sep 12 j 19:10	8°♍40'05		
conjunction	-3314 Sep 28 j 12:47	9°♍38'18	0°44'23	
minimum elong	-3314 Sep 28 j 12:47	9°♍38'18	0°44'26	
max. Earth dist.	-3314 Sep 28 j 11:56	9°♍38'10	19.78518 AU	
morning rise	-3314 Oct 14 j 04:16	10°♍36'13		
retrograde	-3313 Jan 13 j 14:56	13°♍53'19		
opposition	-3313 Mar 30 j 03:17	11°♍52'46	0°48'32	
min. Earth dist.	-3313 Mar 30 j 01:48	11°♍52'55	17.81626 AU	
direct	-3313 Jun 15 j 12:14	9°♍49'47		
evening set	-3313 Sep 17 j 11:56	13°♍10'49		
conjunction	-3313 Oct 03 j 04:52	14°♍08'45	0°42'49	
minimum elong	-3313 Oct 03 j 04:52	14°♍08'45	0°42'50	
max. Earth dist.	-3313 Oct 03 j 07:08	14°♍09'06	19.84810 AU	
morning rise	-3313 Oct 18 j 19:47	15°♍06'24		
retrograde	-3312 Jan 18 j 07:46	18°♍22'59		
opposition	-3312 Apr 03 j 02:18	16°♍22'34	0°46'38	
min. Earth dist.	-3312 Apr 02 j 23:33	16°♍22'51	17.88058 AU	
direct	-3312 Jun 19 j 09:23	14°♍20'01		
evening set	-3312 Sep 21 j 03:58	17°♍39'48		
conjunction	-3312 Oct 06 j 20:08	18°♍37'26	0°41'00	
minimum elong	-3312 Oct 06 j 20:08	18°♍37'26	0°41'02	
max. Earth dist.	-3312 Oct 07 j 00:04	18°♍38'02	19.91372 AU	
morning rise	-3312 Oct 22 j 10:46	19°♍34'50		
retrograde	-3311 Jan 22 j 02:40	22°♍50'52		
opposition	-3311 Apr 08 j 00:24	20°♍50'36	0°44'27	
min. Earth dist.	-3311 Apr 07 j 18:26	20°♍51'13	17.94715 AU	
direct	-3311 Jun 24 j 06:53	18°♍48'30		
evening set	-3311 Sep 25 j 19:04	22°♍07'02		
conjunction	-3311 Oct 11 j 10:43	23°♍04'22	0°38'56	
minimum elong	-3311 Oct 11 j 10:44	23°♍04'22	0°38'57	
max. Earth dist.	-3311 Oct 11 j 17:41	23°♍05'27	19.98108 AU	
morning rise	-3311 Oct 27 j 00:54	24°♍01'31		
retrograde	-3310 Jan 26 j 18:56	27°♍17'01		
opposition	-3310 Apr 12 j 22:15	25°♍16'55	0°42'01	
min. Earth dist.	-3310 Apr 12 j 15:10	25°♍17'38	18.01514 AU	
direct	-3310 Jun 29 j 02:53	23°♍15'17		
evening set	-3310 Sep 30 j 09:18	26°♍32'31		
conjunction	-3310 Oct 16 j 00:17	27°♍29'33	0°36'40	
minimum elong	-3310 Oct 16 j 00:17	27°♍29'33	0°36'40	
max. Earth dist.	-3310 Oct 16 j 08:32	27°♍30'49	20.04956 AU	
morning rise	-3310 Oct 31 j 14:21	28°♍26'28		
	-3310 Nov 28 j 18:08	0°♎		
retrograde	-3309 Jan 31 j 12:53	1°♎41'26		
	-3309 Apr 10 j 05:37	30°℞♍		
opposition	-3309 Apr 17 j 19:21	29°♍41'27	0°39'21	
min. Earth dist.	-3309 Apr 17 j 09:20	29°♍42'29	18.08385 AU	
direct	-3309 Jul 03 j 22:39	27°♍40'16		
	-3309 Sep 18 j 14:52	0°♎		
evening set	-3309 Oct 04 j 22:42	0°♎56'13		
conjunction	-3309 Oct 20 j 13:22	1°♎52'59	0°34'11	
minimum elong	-3309 Oct 20 j 13:22	1°♎52'59	0°34'11	
max. Earth dist.	-3309 Oct 21 j 00:30	1°♎54'41	20.11824 AU	
morning rise	-3309 Nov 05 j 03:08	2°♎49'39		
retrograde	-3308 Feb 05 j 03:55	6°♎04'05		
opposition	-3308 Apr 21 j 15:45	4°♎04'13	0°36'29	
min. Earth dist.	-3308 Apr 21 j 04:46	4°♎05'21	18.15243 AU	
direct	-3308 Jul 07 j 17:37	2°♎03'28		
evening set	-3308 Oct 08 j 11:23	5°♎18'07		
conjunction	-3308 Oct 24 j 01:33	6°♎14'37	0°31'31	
minimum elong	-3308 Oct 24 j 01:33	6°♎14'37	0°31'29	
max. Earth dist.	-3308 Oct 24 j 13:25	6°♎16'25	20.18653 AU	
morning rise	-3308 Nov 08 j 15:24	7°♎11'04		
retrograde	-3307 Feb 08 j 20:43	10°♎24'57		
opposition	-3307 Apr 26 j 11:23	8°♎25'11	0°33'24	
min. Earth dist.	-3307 Apr 25 j 21:57	8°♎26'33	18.22024 AU	
direct	-3307 Jul 12 j 11:40	6°♎24'50		
evening set	-3307 Oct 12 j 23:05	9°♎38'12		
conjunction	-3307 Oct 28 j 13:05	10°♎34'26	0°28'41	
minimum elong	-3307 Oct 28 j 13:05	10°♎34'26	0°28'40	
max. Earth dist.	-3307 Oct 29 j 03:37	10°♎36'38	20.25361 AU	
morning rise	-3307 Nov 13 j 02:46	11°♎30'39		
retrograde	-3306 Feb 13 j 10:20	14°♎43'59		
opposition	-3306 May 01 j 06:24	12°♎44'18	0°30'10	
min. Earth dist.	-3306 Apr 30 j 15:59	12°♎45'46	18.28657 AU	
direct	-3306 Jul 17 j 05:24	10°♎44'20		
evening set	-3306 Oct 17 j 10:10	13°♎56'25		
conjunction	-3306 Nov 01 j 23:49	14°♎52'24	0°25'42	
minimum elong	-3306 Nov 01 j 23:49	14°♎52'24	0°25'40	
max. Earth dist.	-3306 Nov 02 j 14:51	14°♎54'40	20.31921 AU	
morning rise	-3306 Nov 17 j 13:45	15°♎48'25		
retrograde	-3305 Feb 18 j 01:51	19°♎01'12		
min. Earth dist.	-3305 May 05 j 08:03	17°♎03'13	18.35137 AU	
opposition	-3305 May 06 j 00:34	17°♎01'33	0°26'46	
direct	-3305 Jul 21 j 21:56	15°♎01'55		
evening set	-3305 Oct 21 j 20:10	18°♎12'43		
conjunction	-3305 Nov 06 j 09:52	19°♎08'28	0°22'36	
minimum elong	-3305 Nov 06 j 09:52	19°♎08'28	0°22'35	
max. Earth dist.	-3305 Nov 07 j 03:33	19°♎11'07	20.38305 AU	
morning rise	-3305 Nov 21 j 23:51	20°♎04'17		
retrograde	-3304 Feb 22 j 14:09	23°♎16'30		
opposition	-3304 May 09 j 17:55	21°♎16'53	0°23'16	
min. Earth dist.	-3304 May 09 j 00:21	21°♎18'40	18.41428 AU	
direct	-3304 Jul 25 j 14:05	19°♎17'35		
evening set	-3304 Oct 25 j 05:35	22°♎27'07		
conjunction	-3304 Nov 09 j 19:05	23°♎22'38	0°19'25	
minimum elong	-3304 Nov 09 j 19:05	23°♎22'38	0°19'22	
max. Earth dist.	-3304 Nov 10 j 13:12	23°♎25'21	20.44516 AU	
morning rise	-3304 Nov 25 j 09:28	24°♎18'17		
retrograde	-3303 Feb 26 j 03:57	27°♎29'57		
opposition	-3303 May 14 j 10:17	25°♎30'20	0°19'40	
min. Earth dist.	-3303 May 13 j 14:57	25°♎32'17	18.47567 AU	
direct	-3303 Jul 30 j 04:52	23°♎31'19		
evening set	-3303 Oct 29 j 14:06	26°♎39'39		
conjunction	-3303 Nov 14 j 03:45	27°♎34'58	0°16'08	
minimum elong	-3303 Nov 14 j 03:45	27°♎34'58	0°16'05	
behind sun begin	-3303 Nov 14 j 02:40	27°♎34'48		
behind sun end	-3303 Nov 14 j 04:51	27°♎35'07		
max. Earth dist.	-3303 Nov 15 j 00:36	27°♎38'04	20.50575 AU	
morning rise	-3303 Nov 29 j 18:15	28°♎30'25		
	-3303 Dec 27 j 10:07	0°♏		
retrograde	-3302 Mar 02 j 14:57	1°♏41'34		
	-3302 May 11 j 14:22	30°℞♎		
min. Earth dist.	-3302 May 18 j 05:18	29°♎44'02	18.53559 AU	
opposition	-3302 May 19 j 01:59	29°♎41'57	0°15'59	
direct	-3302 Aug 03 j 19:15	27°♎43'15		

Attention, astronomical year style is used: The year -3302 in astronomical counting style is the year 3303 BCE in historical counting style.

	-3302 Oct 18 j 21:59	0°♏	
evening set	-3302 Nov 02 j 21:56	0°♏50'25	
conjunction	-3302 Nov 18 j 11:31	1°♏45'31	0°12'49
minimum elong	-3302 Nov 18 j 11:31	1°♏45'31	0°12'45
behind sun begin	-3302 Nov 18 j 07:19	1°♏44'54	
behind sun end	-3302 Nov 18 j 15:43	1°♏46'07	
max. Earth dist.	-3302 Nov 19 j 08:54	1°♏48'41	20.56508 AU
morning rise	-3302 Dec 04 j 02:34	2°♏40'49	
retrograde	-3301 Mar 07 j 03:20	5°♏51'29	
opposition	-3301 May 23 j 16:55	3°♏51'53	0°12'16
min. Earth dist.	-3301 May 22 j 18:39	3°♏54'07	18.59441 AU
direct	-3301 Aug 08 j 08:03	1°♏53'28	
evening set	-3301 Nov 07 j 05:09	4°♏59'32	
conjunction	-3301 Nov 22 j 19:04	5°♏54'28	0°09'27
minimum elong	-3301 Nov 22 j 19:04	5°♏54'28	0°09'22
behind sun begin	-3301 Nov 22 j 13:33	5°♏53'40	
behind sun end	-3301 Nov 23 j 00:35	5°♏55'16	
max. Earth dist.	-3301 Nov 23 j 19:02	5°♏58'01	20.62314 AU
morning rise	-3301 Dec 08 j 10:23	6°♏49'37	
retrograde	-3300 Mar 10 j 13:40	9°♏59'48	
min. Earth dist.	-3300 May 26 j 07:16	8°♏02'38	18.65177 AU
opposition	-3300 May 27 j 06:51	8°♏00'16	0°08'30
direct	-3300 Aug 11 j 20:26	6°♏02'10	
evening set	-3300 Nov 10 j 11:55	9°♏07'12	
conjunction	-3300 Nov 26 j 01:55	10°♏01'57	0°06'03
minimum elong	-3300 Nov 26 j 01:54	10°♏01'57	0°06'00
behind sun begin	-3300 Nov 25 j 19:40	10°♏01'03	
behind sun end	-3300 Nov 26 j 08:08	10°♏02'51	
max. Earth dist.	-3300 Nov 27 j 02:07	10°♏05'31	20.67974 AU
morning rise	-3300 Dec 11 j 17:52	10°♏56'59	
retrograde	-3299 Mar 15 j 00:26	14°♏06'45	
opposition	-3299 May 31 j 20:15	12°♏07'16	0°04'43
min. Earth dist.	-3299 May 30 j 19:32	12°♏09'45	18.70759 AU
direct	-3299 Aug 16 j 07:01	10°♏09'29	
evening set	-3299 Nov 14 j 17:56	13°♏13'32	
conjunction	-3299 Nov 30 j 08:23	14°♏08'09	0°02'38
minimum elong	-3299 Nov 30 j 08:23	14°♏08'09	0°02'33
behind sun begin	-3299 Nov 30 j 01:51	14°♏07'13	
behind sun end	-3299 Nov 30 j 14:54	14°♏09'04	
max. Earth dist.	-3299 Dec 01 j 10:57	14°♏12'03	20.73449 AU
	-3299 Dec 15 j 03:28	15°♏	
morning rise	-3299 Dec 16 j 00:43	15°♏03'03	
retrograde	-3298 Mar 19 j 10:43	18°♏12'26	
min. Earth dist.	-3298 Jun 04 j 07:04	16°♏15'38	18.76118 AU
opposition	-3298 Jun 05 j 09:01	16°♏13'02	0°00'55
	-3298 Jul 08 j 03:06	15°℞♏	
direct	-3298 Aug 20 j 18:04	14°♏15'35	
desc. node	-3298 Sep 03 j 11:30	14°♏20'27	
	-3298 Oct 01 j 15:49	15°♏	
evening set	-3298 Nov 18 j 23:50	17°♏18'42	
conjunction	-3298 Dec 04 j 14:28	18°♏13'10	-0°00'53
minimum elong	-3298 Dec 04 j 14:28	18°♏13'10	0°00'57
behind sun begin	-3298 Dec 04 j 07:56	18°♏12'15	
behind sun end	-3298 Dec 04 j 21:00	18°♏14'06	
max. Earth dist.	-3298 Dec 05 j 17:00	18°♏17'03	20.78688 AU
morning rise	-3298 Dec 20 j 07:35	19°♏07'59	
retrograde	-3297 Mar 23 j 20:17	22°♏17'01	
opposition	-3297 Jun 09 j 21:09	20°♏17'42	-0°02'51
min. Earth dist.	-3297 Jun 08 j 18:40	20°♏20'21	18.81230 AU
direct	-3297 Aug 25 j 02:43	18°♏20'32	
evening set	-3297 Nov 23 j 05:12	21°♏22'48	

conjunction	-3297 Dec 08 j 20:26	22°♏17'10	-0°04'19
minimum elong	-3297 Dec 08 j 20:27	22°♏17'10	0°04'25
behind sun begin	-3297 Dec 08 j 14:01	22°♏16'15	
behind sun end	-3297 Dec 09 j 02:52	22°♏18'05	
max. Earth dist.	-3297 Dec 10 j 00:51	22°♏21'19	20.83637 AU
morning rise	-3297 Dec 24 j 14:04	23°♏11'54	
retrograde	-3296 Mar 27 j 06:12	26°♏20'35	
min. Earth dist.	-3296 Jun 12 j 05:16	24°♏24'05	18.86002 AU
opposition	-3296 Jun 13 j 08:37	24°♏21'21	-0°06'36
direct	-3296 Aug 28 j 12:26	22°♏24'28	
evening set	-3296 Nov 26 j 10:32	25°♏25'57	
conjunction	-3296 Dec 12 j 02:03	26°♏20'13	-0°07'40
minimum elong	-3296 Dec 12 j 02:03	26°♏20'13	0°07'47
behind sun begin	-3296 Dec 11 j 20:07	26°♏19'23	
behind sun end	-3296 Dec 12 j 07:58	26°♏21'03	
max. Earth dist.	-3296 Dec 13 j 05:56	26°♏24'16	20.88219 AU
morning rise	-3296 Dec 27 j 20:30	27°♏14'52	
	-3295 Feb 28 j 17:25	0°♐	
retrograde	-3295 Mar 31 j 15:14	0°♐23'16	
	-3295 May 02 j 05:59	30°℞♏	
opposition	-3295 Jun 17 j 19:34	28°♏24'06	-0°10'19
min. Earth dist.	-3295 Jun 16 j 16:17	28°♏26'49	18.90394 AU
direct	-3295 Sep 01 j 20:02	26°♏27'27	
evening set	-3295 Nov 30 j 15:30	29°♏28'14	
	-3295 Dec 09 j 21:19	0°♐	
conjunction	-3295 Dec 16 j 07:43	0°♐22'24	-0°10'59
minimum elong	-3295 Dec 16 j 07:42	0°♐22'24	0°11'05
behind sun begin	-3295 Dec 16 j 02:46	0°♐21'42	
behind sun end	-3295 Dec 16 j 12:39	0°♐23'06	
max. Earth dist.	-3295 Dec 17 j 12:59	0°♐26'38	20.92387 AU
morning rise	-3294 Jan 01 j 02:43	1°♐16'59	
retrograde	-3294 Apr 05 j 00:33	4°♐25'07	
min. Earth dist.	-3294 Jun 21 j 02:06	2°♐28'47	18.94328 AU
opposition	-3294 Jun 22 j 05:59	2°♐26'00	-0°13'57
direct	-3294 Sep 06 j 04:25	0°♐29'34	
evening set	-3294 Dec 04 j 20:24	3°♐29'39	
conjunction	-3294 Dec 20 j 13:02	4°♐23'45	-0°14'14
minimum elong	-3294 Dec 20 j 13:02	4°♐23'45	0°14'21
behind sun begin	-3294 Dec 20 j 09:53	4°♐23'18	
behind sun end	-3294 Dec 20 j 16:11	4°♐24'11	
max. Earth dist.	-3294 Dec 21 j 17:21	4°♐27'51	20.96077 AU
morning rise	-3293 Jan 05 j 09:01	5°♐18'18	
retrograde	-3293 Apr 09 j 09:27	8°♐26'11	
opposition	-3293 Jun 26 j 16:01	6°♐27'04	-0°17'31
min. Earth dist.	-3293 Jun 25 j 12:41	6°♐29'47	18.97773 AU
direct	-3293 Sep 10 j 11:22	4°♐30'47	
evening set	-3293 Dec 09 j 01:04	7°♐30'15	
conjunction	-3293 Dec 24 j 18:32	8°♐24'18	-0°17'24
minimum elong	-3293 Dec 24 j 18:32	8°♐24'18	0°17'30
max. Earth dist.	-3293 Dec 25 j 23:48	8°♐28'31	20.99252 AU
morning rise	-3292 Jan 09 j 15:10	9°♐18'50	
retrograde	-3292 Apr 12 j 18:07	12°♐26'27	
min. Earth dist.	-3292 Jun 28 j 21:31	10°♐30'05	19.00678 AU
opposition	-3292 Jun 30 j 01:12	10°♐27'19	-0°20'58
direct	-3292 Sep 13 j 19:01	8°♐31'08	
evening set	-3292 Dec 12 j 05:41	11°♐30'03	
conjunction	-3292 Dec 27 j 23:41	12°♐24'04	-0°20'29
minimum elong	-3292 Dec 27 j 23:41	12°♐24'04	0°20'36
max. Earth dist.	-3292 Dec 29 j 03:43	12°♐28'06	21.01900 AU
morning rise	-3291 Jan 12 j 21:20	13°♐18'35	
retrograde	-3291 Apr 17 j 02:21	16°♐25'59	
min. Earth dist.	-3291 Jul 03 j 07:20	14°♐29'28	19.03077 AU

Attention, astronomical year style is used: The year -3291 in astronomical counting style is the year 3292 BCE in historical counting style.

opposition	-3291 Jul 04 j 10:09	14°♐26'47	-0°24'19	
direct	-3291 Sep 18 j 00:50	12°♐30'40		
evening set	-3291 Dec 16 j 09:50	15°♐29'04		
conjunction	-3290 Jan 01 j 04:44	16°♐23'04	-0°23'27	
minimum elong	-3290 Jan 01 j 04:44	16°♐23'04	0°23'33	
max. Earth dist.	-3290 Jan 02 j 09:47	16°♐27'14	21.04051 AU	
morning rise	-3290 Jan 17 j 03:06	17°♐17'35		
retrograde	-3290 Apr 21 j 10:39	20°♐24'48		
opposition	-3290 Jul 08 j 18:29	18°♐25'32	-0°27'32	
min. Earth dist.	-3290 Jul 07 j 15:15	18°♐28'15	19.04990 AU	
direct	-3290 Sep 22 j 08:14	16°♐29'26		
evening set	-3290 Dec 20 j 14:13	19°♐27'24		
conjunction	-3289 Jan 05 j 09:43	20°♐21'24	-0°26'18	
minimum elong	-3289 Jan 05 j 09:43	20°♐21'24	0°26'25	
max. Earth dist.	-3289 Jan 06 j 13:37	20°♐25'24	21.05744 AU	
morning rise	-3289 Jan 21 j 09:11	21°♐15'56		
retrograde	-3289 Apr 25 j 18:16	24°♐23'00		
min. Earth dist.	-3289 Jul 12 j 00:08	22°♐26'16	19.06482 AU	
opposition	-3289 Jul 13 j 02:20	22°♐23'39	-0°30'36	
direct	-3289 Sep 26 j 12:37	20°♐27'33		
evening set	-3289 Dec 24 j 18:24	23°♐25'11		
conjunction	-3288 Jan 09 j 14:54	24°♐19'12	-0°29'01	
minimum elong	-3288 Jan 09 j 14:54	24°♐19'12	0°29'08	
max. Earth dist.	-3288 Jan 10 j 19:39	24°♐23'19	21.07029 AU	
morning rise	-3288 Jan 25 j 15:08	25°♐13'46		
retrograde	-3288 Apr 29 j 02:28	28°♐20'43		
min. Earth dist.	-3288 Jul 15 j 07:08	26°♐23'58	19.07569 AU	
opposition	-3288 Jul 16 j 09:42	26°♐21'18	-0°33'31	
direct	-3288 Sep 29 j 19:19	24°♐25'12		
evening set	-3288 Dec 27 j 22:44	27°♐22'35		
conjunction	-3287 Jan 12 j 19:52	28°♐16'38	-0°31'35	
minimum elong	-3287 Jan 12 j 19:52	28°♐16'38	0°31'41	
max. Earth dist.	-3287 Jan 13 j 23:21	28°♐20'34	21.07925 AU	
morning rise	-3287 Jan 28 j 21:11	29°♐11'15		
	-3287 Feb 12 j 22:56	0°♑		
retrograde	-3287 May 03 j 09:56	2°♑18'09		
opposition	-3287 Jul 20 j 16:53	0°♑18'41	-0°36'16	
min. Earth dist.	-3287 Jul 19 j 15:26	0°♑21'14	19.08289 AU	
	-3287 Jul 28 j 11:37	30°℞♐		
direct	-3287 Oct 03 j 22:50	28°♐22'35		
	-3287 Dec 06 j 12:27	0°♑		
evening set	-3286 Jan 01 j 03:03	1°♑19'48		
conjunction	-3286 Jan 17 j 01:16	2°♑13'55	-0°34'00	
minimum elong	-3286 Jan 17 j 01:16	2°♑13'55	0°34'07	
max. Earth dist.	-3286 Jan 18 j 05:26	2°♑17'56	21.08463 AU	
morning rise	-3286 Feb 02 j 03:22	3°♑08'35		
retrograde	-3286 May 07 j 18:21	6°♑15'29		
opposition	-3286 Jul 24 j 23:38	4°♑15'59	-0°38'51	
min. Earth dist.	-3286 Jul 23 j 21:54	4°♑18'34	19.08641 AU	
direct	-3286 Oct 08 j 04:40	2°♑19'54		
evening set	-3285 Jan 05 j 07:43	5°♑17'02		
conjunction	-3285 Jan 21 j 06:42	6°♑11'12	-0°36'15	
minimum elong	-3285 Jan 21 j 06:42	6°♑11'12	0°36'22	
max. Earth dist.	-3285 Jan 22 j 09:18	6°♑15'00	21.08633 AU	
morning rise	-3285 Feb 06 j 09:59	7°♑05'58		
retrograde	-3285 May 12 j 02:27	10°♑12'55		
min. Earth dist.	-3285 Jul 28 j 06:04	8°♑15'50	19.08626 AU	
opposition	-3285 Jul 29 j 06:20	8°♑13'23	-0°41'16	
direct	-3285 Oct 12 j 08:04	6°♑17'18		
evening set	-3284 Jan 09 j 12:34	9°♑14'26		

conjunction	-3284 Jan 25 j 12:39	10°♑08'43	-0°38'21	
minimum elong	-3284 Jan 25 j 12:39	10°♑08'43	0°38'28	
max. Earth dist.	-3284 Jan 26 j 15:33	10°♑12'33	21.08422 AU	
morning rise	-3284 Feb 10 j 16:45	11°♑03'35		
retrograde	-3284 May 15 j 11:06	14°♑10'36		
opposition	-3284 Aug 01 j 12:34	12°♑11'04	-0°43'28	
min. Earth dist.	-3284 Jul 31 j 12:20	12°♑13'31	19.08207 AU	
direct	-3284 Oct 15 j 13:02	10°♑14'59		
evening set	-3283 Jan 12 j 17:55	13°♑12'13		
conjunction	-3283 Jan 28 j 18:48	14°♑06'36	-0°40'16	
minimum elong	-3283 Jan 28 j 18:47	14°♑06'36	0°40'22	
max. Earth dist.	-3283 Jan 29 j 19:46	14°♑10'09	21.07801 AU	
morning rise	-3283 Feb 14 j 00:03	15°♑01'34		
retrograde	-3283 May 19 j 19:55	18°♑08'44		
opposition	-3283 Aug 05 j 19:01	16°♑09'12	-0°45'29	
min. Earth dist.	-3283 Aug 04 j 20:37	16°♑11'28	19.07375 AU	
direct	-3283 Oct 19 j 16:35	14°♑13'05		
evening set	-3282 Jan 16 j 23:23	17°♑10'29		
conjunction	-3282 Feb 02 j 01:26	18°♑05'00	-0°41'59	
minimum elong	-3282 Feb 02 j 01:26	18°♑05'00	0°42'06	
max. Earth dist.	-3282 Feb 03 j 02:23	18°♑08'33	21.06746 AU	
morning rise	-3282 Feb 18 j 07:32	19°♑00'06		
retrograde	-3282 May 24 j 05:14	22°♑07'26		
min. Earth dist.	-3282 Aug 09 j 03:15	20°♑10'07	19.06074 AU	
opposition	-3282 Aug 10 j 01:17	20°♑07'53	-0°47'17	
direct	-3282 Oct 23 j 21:31	18°♑11'43		
evening set	-3281 Jan 21 j 05:43	21°♑09'21		
conjunction	-3281 Feb 06 j 08:37	22°♑04'01	-0°43'31	
minimum elong	-3281 Feb 06 j 08:37	22°♑04'01	0°43'37	
max. Earth dist.	-3281 Feb 07 j 07:09	22°♑07'13	21.05197 AU	
morning rise	-3281 Feb 22 j 15:52	22°♑59'16		
retrograde	-3281 May 28 j 14:09	26°♑06'48		
min. Earth dist.	-3281 Aug 13 j 11:55	24°♑09'12	19.04270 AU	
opposition	-3281 Aug 14 j 07:34	24°♑07'13	-0°48'51	
direct	-3281 Oct 28 j 01:29	22°♑10'56		
evening set	-3280 Jan 25 j 12:24	25°♑08'53		
conjunction	-3280 Feb 10 j 16:30	26°♑03'42	-0°44'50	
minimum elong	-3280 Feb 10 j 16:30	26°♑03'42	0°44'56	
max. Earth dist.	-3280 Feb 11 j 14:23	26°♑06'49	21.03124 AU	
morning rise	-3280 Feb 27 j 00:34	26°♑59'06		
	-3280 May 15 j 03:33	0°♒		
retrograde	-3280 Jun 01 j 00:25	0°♒06'52		
	-3280 Jun 17 j 20:56	30°℞♑		
opposition	-3280 Aug 17 j 13:52	28°♑07'13	-0°50'12	
min. Earth dist.	-3280 Aug 16 j 18:53	28°♑09'09	19.01914 AU	
direct	-3280 Oct 31 j 07:11	26°♑10'47		
evening set	-3279 Jan 28 j 19:36	29°♑09'06		
	-3279 Feb 12 j 19:54	0°♒		
conjunction	-3279 Feb 14 j 00:33	0°♒04'05	-0°45'56	
minimum elong	-3279 Feb 14 j 00:33	0°♒04'05	0°46'03	
max. Earth dist.	-3279 Feb 14 j 19:44	0°♒06'49	21.00493 AU	
morning rise	-3279 Mar 02 j 09:45	0°♒59'39		
retrograde	-3279 Jun 05 j 08:46	4°♒07'39		
opposition	-3279 Aug 21 j 20:24	2°♒07'53	-0°51'18	
min. Earth dist.	-3279 Aug 21 j 03:58	2°♒09'34	18.99010 AU	
direct	-3279 Nov 04 j 11:35	0°♒11'15		
evening set	-3278 Feb 02 j 03:14	3°♒09'58		
conjunction	-3278 Feb 18 j 09:25	4°♒05'09	-0°46'49	
minimum elong	-3278 Feb 18 j 09:25	4°♒05'09	0°46'54	
max. Earth dist.	-3278 Feb 19 j 03:47	4°♒07'46	20.97331 AU	
morning rise	-3278 Mar 06 j 19:27	5°♒00'53		

Attention, astronomical year style is used: The year -3278 in astronomical counting style is the year 3279 BCE in historical counting style.

retrograde	-3278 Jun 09 j 19:47	8°♒09'08		
min. Earth dist.	-3278 Aug 25 j 11:05	6°♒10'50	18.95583 AU	
opposition	-3278 Aug 26 j 02:43	6°♒09'14	-0°52'09	
direct	-3278 Nov 08 j 18:14	4°♒12'21		
evening set	-3277 Feb 06 j 11:34	7°♒11'32		
conjunction	-3277 Feb 22 j 18:40	8°♒06'54	-0°47'28	
minimum elong	-3277 Feb 22 j 18:40	8°♒06'54	0°47'34	
max. Earth dist.	-3277 Feb 23 j 10:13	8°♒09'07	20.93666 AU	
morning rise	-3277 Mar 11 j 05:50	9°♒02'51		
retrograde	-3277 Jun 14 j 03:55	12°♒11'21		
opposition	-3277 Aug 30 j 09:17	10°♒11'17	-0°52'44	
min. Earth dist.	-3277 Aug 29 j 20:20	10°♒12'37	18.91690 AU	
direct	-3277 Nov 12 j 22:48	8°♒14'06		
evening set	-3276 Feb 10 j 20:17	11°♒13'50		
conjunction	-3276 Feb 27 j 04:35	12°♒09'25	-0°47'52	
minimum elong	-3276 Feb 27 j 04:35	12°♒09'25	0°47'57	
max. Earth dist.	-3276 Feb 27 j 19:16	12°♒11'31	20.89565 AU	
morning rise	-3276 Mar 14 j 16:31	13°♒05'32		
	-3276 Apr 22 j 02:09	15°♒		
retrograde	-3276 Jun 17 j 15:02	16°♒14'20		
	-3276 Aug 14 j 13:46	15°℞♒		
opposition	-3276 Sep 02 j 15:43	14°♒14'06	-0°53'04	
min. Earth dist.	-3276 Sep 02 j 03:28	14°♒15'21	18.87386 AU	
direct	-3276 Nov 16 j 06:27	12°♒16'37		
	-3275 Feb 09 j 02:58	15°♒		
evening set	-3275 Feb 14 j 05:44	15°♒16'57		
conjunction	-3275 Mar 02 j 14:54	16°♒12'45	-0°48'03	
minimum elong	-3275 Mar 02 j 14:54	16°♒12'45	0°48'08	
max. Earth dist.	-3275 Mar 03 j 02:53	16°♒14'28	20.85087 AU	
morning rise	-3275 Mar 19 j 03:51	17°♒09'06		
retrograde	-3275 Jun 21 j 23:41	20°♒18'13		
opposition	-3275 Sep 06 j 22:32	18°♒17'48	-0°53'08	
min. Earth dist.	-3275 Sep 06 j 12:51	18°♒18'48	18.82749 AU	
direct	-3275 Nov 20 j 11:17	16°♒19'59		
evening set	-3274 Feb 18 j 15:34	19°♒21'00		
conjunction	-3274 Mar 07 j 01:57	20°♒17'03	-0°47'59	
minimum elong	-3274 Mar 07 j 01:57	20°♒17'03	0°48'03	
max. Earth dist.	-3274 Mar 07 j 13:01	20°♒18'38	20.80303 AU	
morning rise	-3274 Mar 23 j 15:41	21°♒13'37		
retrograde	-3274 Jun 26 j 11:24	24°♒23'06		
opposition	-3274 Sep 11 j 05:27	22°♒22'31	-0°52'57	
min. Earth dist.	-3274 Sep 10 j 20:23	22°♒23'28	18.77816 AU	
direct	-3274 Nov 24 j 19:31	20°♒24'23		
evening set	-3273 Feb 23 j 02:26	23°♒26'09		
conjunction	-3273 Mar 11 j 13:41	24°♒22'28	-0°47'40	
minimum elong	-3273 Mar 11 j 13:41	24°♒22'28	0°47'43	
max. Earth dist.	-3273 Mar 11 j 22:00	24°♒23'40	20.75240 AU	
morning rise	-3273 Mar 28 j 04:21	25°♒19'15		
retrograde	-3273 Jun 30 j 21:11	28°♒29'08		
opposition	-3273 Sep 15 j 12:42	26°♒28'25	-0°52'29	
min. Earth dist.	-3273 Sep 15 j 06:15	26°♒29'05	18.72636 AU	
direct	-3273 Nov 29 j 01:09	24°♒29'57		
evening set	-3272 Feb 27 j 13:52	27°♒32'34		
conjunction	-3272 Mar 15 j 02:14	28°♒29'08	-0°47'07	
minimum elong	-3272 Mar 15 j 02:14	28°♒29'08	0°47'11	
max. Earth dist.	-3272 Mar 15 j 09:26	28°♒30'11	20.69955 AU	
morning rise	-3272 Mar 31 j 17:35	29°♒26'10		
	-3272 Apr 10 j 23:47	0°♓		
retrograde	-3272 Jul 04 j 09:52	2°♓36'29		
opposition	-3272 Sep 18 j 20:16	0°♓35'39	-0°51'45	
min. Earth dist.	-3272 Sep 18 j 14:25	0°♓36'16	18.67239 AU	
direct	-3272 Oct 03 j 07:16	30°℞♒		
direct	-3272 Dec 02 j 09:39	28°♒36'53		
	-3271 Jan 29 j 10:01	0°♓		
evening set	-3271 Mar 03 j 02:05	1°♓40'24		
conjunction	-3271 Mar 19 j 15:16	2°♓37'14	-0°46'19	
minimum elong	-3271 Mar 19 j 15:16	2°♓37'14	0°46'22	
max. Earth dist.	-3271 Mar 19 j 19:52	2°♓37'54	20.64460 AU	
morning rise	-3271 Apr 05 j 07:28	3°♓34'31		
retrograde	-3271 Jul 08 j 21:10	6°♓45'20		
opposition	-3271 Sep 23 j 04:27	4°♓44'24	-0°50'44	
min. Earth dist.	-3271 Sep 23 j 01:15	4°♓44'44	18.61650 AU	
direct	-3271 Dec 06 j 16:35	2°♓45'19		
evening set	-3270 Mar 07 j 15:13	5°♓49'49		
conjunction	-3270 Mar 24 j 05:28	6°♓46'57	-0°45'17	
minimum elong	-3270 Mar 24 j 05:28	6°♓46'57	0°45'20	
max. Earth dist.	-3270 Mar 24 j 08:42	6°♓47'25	20.58785 AU	
morning rise	-3270 Apr 09 j 22:17	7°♓44'29		
retrograde	-3270 Jul 13 j 11:00	10°♓55'48		
opposition	-3270 Sep 27 j 12:47	8°♓54'48	-0°49'27	
min. Earth dist.	-3270 Sep 27 j 10:26	8°♓55'03	18.55870 AU	
direct	-3270 Dec 11 j 01:54	6°♓55'25		
evening set	-3269 Mar 12 j 05:30	10°♓00'59		
conjunction	-3269 Mar 28 j 20:31	10°♓58'24	-0°43'59	
minimum elong	-3269 Mar 28 j 20:31	10°♓58'24	0°44'02	
max. Earth dist.	-3269 Mar 28 j 20:58	10°♓58'28	20.52903 AU	
morning rise	-3269 Apr 14 j 14:01	11°♓56'12		
retrograde	-3269 Jul 17 j 23:43	15°♓08'04		
opposition	-3269 Oct 01 j 21:56	13°♓07'00	-0°47'54	
min. Earth dist.	-3269 Oct 01 j 22:32	13°♓06'56	18.49883 AU	
direct	-3269 Dec 15 j 10:17	11°♓07'18		
evening set	-3268 Mar 15 j 20:33	14°♓13'58		
conjunction	-3268 Apr 01 j 12:27	15°♓11'42	-0°42'27	
minimum elong	-3268 Apr 01 j 12:27	15°♓11'42	0°42'29	
max. Earth dist.	-3268 Apr 01 j 11:06	15°♓11'30	20.46811 AU	
morning rise	-3268 Apr 18 j 06:26	16°♓09'44		
retrograde	-3268 Jul 21 j 14:46	19°♓22'11		
opposition	-3268 Oct 05 j 07:27	17°♓21'02	-0°46'04	
min. Earth dist.	-3268 Oct 05 j 09:05	17°♓20'52	18.43671 AU	
direct	-3268 Dec 18 j 21:19	15°♓21'01		
evening set	-3267 Mar 20 j 12:43	18°♓28'50		
conjunction	-3267 Apr 06 j 05:19	19°♓26'52	-0°40'40	
minimum elong	-3267 Apr 06 j 05:19	19°♓26'52	0°40'41	
max. Earth dist.	-3267 Apr 06 j 01:06	19°♓26'15	20.40476 AU	
morning rise	-3267 Apr 22 j 23:48	20°♓25'11		
retrograde	-3267 Jul 26 j 04:27	23°♓38'10		
opposition	-3267 Oct 09 j 17:43	21°♓36'57	-0°43'58	
min. Earth dist.	-3267 Oct 09 j 22:26	21°♓36'27	18.37223 AU	
direct	-3267 Dec 23 j 07:06	19°♓36'33		
evening set	-3266 Mar 25 j 05:43	22°♓45'33		
conjunction	-3266 Apr 10 j 23:08	23°♓43'53	-0°38'38	
minimum elong	-3266 Apr 10 j 23:09	23°♓43'53	0°38'38	
max. Earth dist.	-3266 Apr 10 j 16:38	23°♓42'56	20.33921 AU	
morning rise	-3266 Apr 27 j 18:05	24°♓42'28		
retrograde	-3266 Jul 30 j 20:56	27°♓56'01		
opposition	-3266 Oct 14 j 04:30	25°♓54'40	-0°41'37	
min. Earth dist.	-3266 Oct 14 j 10:23	25°♓54'02	18.30549 AU	
direct	-3266 Dec 27 j 20:03	23°♓53'53		
evening set	-3265 Mar 29 j 23:48	27°♓04'05		
conjunction	-3265 Apr 15 j 17:50	28°♓02'43	-0°36'22	
minimum elong	-3265 Apr 15 j 17:50	28°♓02'43	0°36'23	

Attention, astronomical year style is used: The year -3265 in astronomical counting style is the year 3266 BCE in historical counting style.

max. Earth dist.	-3265 Apr 15 j 08:37	28°♓01'22	20.27139 AU
morning rise	-3265 May 02 j 13:04	29°♓01'34	
	-3265 May 20 j 04:37	0°♈	
retrograde	-3265 Aug 04 j 11:40	2°♈15'39	
opposition	-3265 Oct 18 j 15:57	0°♈14'11	-0°38'59
min. Earth dist.	-3265 Oct 19 j 00:49	0°♈13'14	18.23685 AU
	-3265 Oct 24 j 05:04	30°℞♓	
direct	-3264 Jan 01 j 07:35	28°♓12'57	
	-3264 Mar 07 j 15:25	0°♈	
evening set	-3264 Apr 02 j 18:39	1°♈24'23	
conjunction	-3264 Apr 19 j 13:16	2°♈23'19	-0°33'53
minimum elong	-3264 Apr 19 j 13:16	2°♈23'19	0°33'53
max. Earth dist.	-3264 Apr 19 j 01:40	2°♈21'37	20.20220 AU
morning rise	-3264 May 06 j 08:49	3°♈22'25	
retrograde	-3264 Aug 08 j 05:05	6°♈37'03	
opposition	-3264 Oct 22 j 03:55	4°♈35'25	-0°36'08
min. Earth dist.	-3264 Oct 22 j 13:50	4°♈34'22	18.16715 AU
direct	-3263 Jan 04 j 21:45	2°♈33'45	
evening set	-3263 Apr 07 j 14:12	5°♈46'25	
conjunction	-3263 Apr 24 j 09:22	6°♈45'39	-0°31'12
minimum elong	-3263 Apr 24 j 09:23	6°♈45'39	0°31'11
max. Earth dist.	-3263 Apr 23 j 19:45	6°♈43'38	20.13215 AU
morning rise	-3263 May 11 j 05:02	7°♈45'00	
retrograde	-3263 Aug 12 j 21:26	11°♈00'10	
opposition	-3263 Oct 26 j 16:40	8°♈58'23	-0°33'03
min. Earth dist.	-3263 Oct 27 j 05:14	8°♈57'02	18.09703 AU
direct	-3262 Jan 09 j 11:01	6°♈56'16	
evening set	-3262 Apr 12 j 10:48	10°♈10'11	
conjunction	-3262 Apr 29 j 06:22	11°♈09'42	-0°28'18
minimum elong	-3262 Apr 29 j 06:22	11°♈09'42	0°28'17
max. Earth dist.	-3262 Apr 28 j 14:19	11°♈07'19	20.06223 AU
morning rise	-3262 May 16 j 02:13	12°♈09'19	
retrograde	-3262 Aug 17 j 15:35	15°♈25'00	
opposition	-3262 Oct 31 j 05:47	13°♈23'03	-0°29'45
min. Earth dist.	-3262 Oct 31 j 19:19	13°♈21'36	18.02740 AU
direct	-3261 Jan 14 j 02:26	11°♈20'28	
evening set	-3261 Apr 17 j 08:13	14°♈35'39	
max. Earth dist.	-3261 May 03 j 10:41	15°♈32'52	19.99297 AU
conjunction	-3261 May 04 j 04:10	15°♈35'28	-0°25'14
minimum elong	-3261 May 04 j 04:10	15°♈35'28	0°25'12
morning rise	-3261 May 20 j 23:52	16°♈35'19	
retrograde	-3261 Aug 22 j 09:20	19°♈51'31	
opposition	-3261 Nov 04 j 19:53	17°♈49'27	-0°26'15
min. Earth dist.	-3261 Nov 05 j 11:38	17°♈47'45	17.95887 AU
direct	-3260 Jan 18 j 17:20	15°♈46'26	
evening set	-3260 Apr 21 j 06:18	19°♈02'53	
max. Earth dist.	-3260 May 07 j 06:33	20°♈00'00	19.92536 AU
conjunction	-3260 May 08 j 02:22	20°♈02'58	-0°22'00
minimum elong	-3260 May 08 j 02:22	20°♈02'58	0°21'58
morning rise	-3260 May 24 j 22:05	21°♈03'03	
retrograde	-3260 Aug 26 j 04:11	24°♈19'47	
opposition	-3260 Nov 08 j 10:33	22°♈17'35	-0°22'34
min. Earth dist.	-3260 Nov 09 j 02:59	22°♈15'48	17.89235 AU
direct	-3259 Jan 22 j 10:16	20°♈14'08	
evening set	-3259 Apr 26 j 05:14	23°♈31'53	
max. Earth dist.	-3259 May 12 j 04:56	24°♈29'08	19.85991 AU
conjunction	-3259 May 13 j 01:33	24°♈32'14	-0°18'37
minimum elong	-3259 May 13 j 01:33	24°♈32'14	0°18'34
morning rise	-3259 May 29 j 20:53	25°♈32'31	
retrograde	-3259 Aug 30 j 23:07	28°♈49'47	
opposition	-3259 Nov 13 j 02:00	26°♈47'29	-0°18'44
min. Earth dist.	-3259 Nov 13 j 20:13	26°♈45'30	17.82828 AU
direct	-3258 Jan 27 j 03:00	24°♈43'41	
evening set	-3258 May 01 j 05:07	28°♈02'42	
max. Earth dist.	-3258 May 17 j 02:17	28°♈59'49	19.79734 AU
conjunction	-3258 May 18 j 01:21	29°♈03'18	-0°15'06
minimum elong	-3258 May 18 j 01:21	29°♈03'18	0°15'03
behind sun begin	-3258 May 17 j 23:19	29°♈03'00	
behind sun end	-3258 May 18 j 03:23	29°♈03'36	
	-3258 Jun 02 j 18:52	0°♉	
morning rise	-3258 Jun 03 j 20:34	0°♉03'48	
retrograde	-3258 Sep 04 j 18:36	3°♉21'35	
opposition	-3258 Nov 17 j 18:13	1°♉19'13	-0°14'45
min. Earth dist.	-3258 Nov 18 j 13:11	1°♉17'10	17.76727 AU
	-3258 Dec 20 j 17:28	30°℞♈	
direct	-3257 Jan 31 j 21:49	29°♈15'04	
	-3257 Mar 14 j 14:09	0°♉	
evening set	-3257 May 06 j 05:39	2°♉35'23	
max. Earth dist.	-3257 May 22 j 02:33	3°♉32'40	19.73778 AU
conjunction	-3257 May 23 j 01:57	3°♉36'13	-0°11'28
minimum elong	-3257 May 23 j 01:56	3°♉36'13	0°11'24
behind sun begin	-3257 May 22 j 21:06	3°♉35'30	
behind sun end	-3257 May 23 j 06:47	3°♉36'56	
morning rise	-3257 Jun 08 j 20:32	4°♉36'53	
retrograde	-3257 Sep 09 j 14:45	7°♉55'11	
opposition	-3257 Nov 22 j 11:19	5°♉52'49	-0°10'39
min. Earth dist.	-3257 Nov 23 j 07:42	5°♉50'36	17.70931 AU
direct	-3256 Feb 05 j 16:38	3°♉48'23	
evening set	-3256 May 10 j 07:07	7°♉09'57	
max. Earth dist.	-3256 May 26 j 01:16	8°♉07'05	19.68152 AU
conjunction	-3256 May 27 j 03:03	8°♉11'01	-0°07'44
minimum elong	-3256 May 27 j 03:03	8°♉11'00	0°07'40
behind sun begin	-3256 May 26 j 20:55	8°♉10'06	
behind sun end	-3256 May 27 j 09:10	8°♉11'55	
morning rise	-3256 Jun 12 j 21:18	9°♉11'51	
retrograde	-3256 Sep 13 j 11:18	12°♉30'39	
opposition	-3256 Nov 26 j 05:09	10°♉28'17	-0°06'27
min. Earth dist.	-3256 Nov 27 j 02:30	10°♉25'58	17.65474 AU
direct	-3255 Feb 09 j 13:28	8°♉23'34	
evening set	-3255 May 15 j 09:05	11°♉46'22	
max. Earth dist.	-3255 May 31 j 03:03	12°♉43'41	19.62838 AU
conjunction	-3255 Jun 01 j 04:55	12°♉47'38	-0°03'56
minimum elong	-3255 Jun 01 j 04:54	12°♉47'38	0°03'52
behind sun begin	-3255 May 31 j 22:12	12°♉46'38	
behind sun end	-3255 Jun 01 j 11:37	12°♉48'38	
morning rise	-3255 Jun 17 j 22:25	13°♉48'37	
	-3255 Jul 08 j 19:58	15°♉	
retrograde	-3255 Sep 18 j 08:46	17°♉07'53	
opposition	-3255 Nov 30 j 23:56	15°♉05'34	-0°02'11
min. Earth dist.	-3255 Dec 01 j 22:27	15°♉03'06	17.60305 AU
	-3255 Dec 03 j 02:55	15°℞♉	
direct	-3254 Feb 14 j 10:31	13°♉00'35	
	-3254 Apr 25 j 10:53	15°♉	
evening set	-3254 May 20 j 12:05	16°♉24'35	
max. Earth dist.	-3254 Jun 05 j 03:01	17°♉21'40	19.57814 AU
conjunction	-3254 Jun 06 j 07:19	17°♉26'00	0°00'00
minimum elong	-3254 Jun 06 j 07:19	17°♉26'00	0°00'06
behind sun begin	-3254 Jun 06 j 00:47	17°♉25'02	
behind sun end	-3254 Jun 06 j 13:51	17°♉26'59	
asc. node	-3254 Jun 06 j 09:17	17°♉26'14	
morning rise	-3254 Jun 23 j 00:14	18°♉27'08	
retrograde	-3254 Sep 23 j 06:24	21°♉46'50	
opposition	-3254 Dec 05 j 19:29	19°♉44'31	0°02'09

Attention, astronomical year style is used: The year -3254 in astronomical counting style is the year 3255 BCE in historical counting style.

min. Earth dist.	-3254 Dec 06 j 19:13	19°♉41'56	17.55438 AU
direct	-3253 Feb 19 j 09:10	17°♉39'16	
evening set	-3253 May 25 j 15:29	21°♉04'24	
max. Earth dist.	-3253 Jun 10 j 06:03	22°♉01'37	19.53082 AU
conjunction	-3253 Jun 11 j 10:21	22°♉05'59	0°03'58
minimum elong	-3253 Jun 11 j 10:20	22°♉05'59	0°04'03
behind sun begin	-3253 Jun 11 j 03:39	22°♉04'58	
behind sun end	-3253 Jun 11 j 17:01	22°♉06'59	
morning rise	-3253 Jun 28 j 02:19	23°♉07'12	
retrograde	-3253 Sep 28 j 05:16	26°♉27'18	
opposition	-3253 Dec 10 j 15:57	24°♉25'01	0°06'29
min. Earth dist.	-3253 Dec 11 j 16:17	24°♉22'21	17.50853 AU
direct	-3252 Feb 24 j 08:30	22°♉19'31	
evening set	-3252 May 29 j 19:19	25°♉45'40	
max. Earth dist.	-3252 Jun 14 j 07:10	26°♉42'41	19.48651 AU
conjunction	-3252 Jun 15 j 13:24	26°♉47'22	0°07'50
minimum elong	-3252 Jun 15 j 13:24	26°♉47'22	0°07'55
behind sun begin	-3252 Jun 15 j 07:21	26°♉46'27	
behind sun end	-3252 Jun 15 j 19:27	26°♉48'16	
morning rise	-3252 Jul 02 j 04:35	27°♉48'40	
	-3252 Aug 12 j 07:55	0°♊	
retrograde	-3252 Oct 02 j 03:29	1°♊09'08	
	-3252 Nov 23 j 13:48	30°℞♉	
opposition	-3252 Dec 14 j 13:09	29°♉06'50	0°10'47
min. Earth dist.	-3252 Dec 15 j 14:41	29°♉04'03	17.46598 AU
direct	-3251 Feb 28 j 08:18	27°♉01'05	
	-3251 May 27 j 02:24	0°♊	
evening set	-3251 Jun 03 j 23:33	0°♊28'11	
max. Earth dist.	-3251 Jun 19 j 11:00	1°♊25'20	19.44564 AU
conjunction	-3251 Jun 20 j 17:03	1°♊29'59	0°11'40
minimum elong	-3251 Jun 20 j 17:03	1°♊29'59	0°11'45
behind sun begin	-3251 Jun 20 j 12:22	1°♊29'17	
behind sun end	-3251 Jun 20 j 21:44	1°♊30'42	
morning rise	-3251 Jul 07 j 07:12	2°♊31'22	
retrograde	-3251 Oct 07 j 03:28	5°♊52'07	
opposition	-3251 Dec 19 j 10:49	3°♊49'49	0°15'03
min. Earth dist.	-3251 Dec 20 j 12:25	3°♊47'01	17.42689 AU
direct	-3250 Mar 05 j 09:36	1°♊43'49	
evening set	-3250 Jun 09 j 04:13	5°♊11'48	
conjunction	-3250 Jun 25 j 20:49	6°♊13'40	0°15'26
minimum elong	-3250 Jun 25 j 20:49	6°♊13'40	0°15'31
behind sun begin	-3250 Jun 25 j 19:27	6°♊13'28	
behind sun end	-3250 Jun 25 j 22:11	6°♊13'53	
max. Earth dist.	-3250 Jun 24 j 13:32	6°♊08'48	19.40851 AU
morning rise	-3250 Jul 12 j 09:57	7°♊15'05	
retrograde	-3250 Oct 12 j 01:56	10°♊36'06	
opposition	-3250 Dec 24 j 09:21	8°♊33'47	0°19'13
min. Earth dist.	-3250 Dec 25 j 12:04	8°♊30'52	17.39201 AU
direct	-3249 Mar 10 j 09:59	6°♊27'33	
evening set	-3249 Jun 14 j 08:49	9°♊56'18	
max. Earth dist.	-3249 Jun 29 j 17:43	10°♊53'24	19.37588 AU
conjunction	-3249 Jul 01 j 00:33	10°♊58'13	0°19'06
minimum elong	-3249 Jul 01 j 00:33	10°♊58'13	0°19'13
morning rise	-3249 Jul 17 j 12:34	11°♊59'38	
retrograde	-3249 Oct 17 j 03:05	15°♊20'52	
opposition	-3249 Dec 29 j 08:23	13°♊18'32	0°23'15
min. Earth dist.	-3249 Dec 30 j 10:23	13°♊15'42	17.36174 AU
direct	-3248 Mar 14 j 12:58	11°♊12'07	
evening set	-3248 Jun 18 j 13:34	14°♊41'32	
max. Earth dist.	-3248 Jul 03 j 21:23	15°♊38'38	19.34816 AU
conjunction	-3248 Jul 05 j 04:17	15°♊43'28	0°22'40
minimum elong	-3248 Jul 05 j 04:17	15°♊43'28	0°22'46
morning rise	-3248 Jul 21 j 15:07	16°♊44'52	
retrograde	-3248 Oct 21 j 01:27	20°♊06'15	
opposition	-3247 Jan 02 j 07:58	18°♊03'56	0°27'09
min. Earth dist.	-3247 Jan 03 j 10:46	18°♊01'00	17.33690 AU
direct	-3247 Mar 19 j 13:33	15°♊57'20	
evening set	-3247 Jun 23 j 18:14	19°♊27'19	
max. Earth dist.	-3247 Jul 09 j 01:30	20°♊24'28	19.32619 AU
conjunction	-3247 Jul 10 j 07:54	20°♊29'14	0°26'04
minimum elong	-3247 Jul 10 j 07:53	20°♊29'14	0°26'11
morning rise	-3247 Jul 26 j 17:37	21°♊30'36	
retrograde	-3247 Oct 26 j 03:04	24°♊52'06	
opposition	-3246 Jan 07 j 08:01	22°♊49'48	0°30'51
min. Earth dist.	-3246 Jan 08 j 09:27	22°♊47'01	17.31785 AU
direct	-3246 Mar 24 j 17:34	20°♊43'06	
evening set	-3246 Jun 28 j 22:51	24°♊13'32	
max. Earth dist.	-3246 Jul 14 j 06:01	25°♊10'47	19.31018 AU
conjunction	-3246 Jul 15 j 11:24	25°♊15'25	0°29'18
minimum elong	-3246 Jul 15 j 11:23	25°♊15'25	0°29'25
morning rise	-3246 Jul 31 j 19:44	26°♊16'42	
retrograde	-3246 Oct 31 j 01:25	29°♊38'18	
opposition	-3245 Jan 12 j 08:42	27°♊36'02	0°34'21
min. Earth dist.	-3245 Jan 13 j 10:28	27°♊33'13	17.30516 AU
direct	-3245 Mar 29 j 19:04	25°♊29'17	
evening set	-3245 Jul 04 j 03:19	29°♊00'05	
max. Earth dist.	-3245 Jul 19 j 09:45	29°♊57'20	19.30087 AU
conjunction	-3245 Jul 20 j 14:35	0°♋01'52	0°32'20
minimum elong	-3245 Jul 20 j 14:35	0°♋01'52	0°32'26
	-3245 Jul 20 j 02:40	0°♋	
morning rise	-3245 Aug 05 j 21:47	1°♋03'04	
retrograde	-3245 Nov 05 j 02:52	4°♋24'44	
opposition	-3244 Jan 17 j 09:42	2°♋22'32	0°37'37
min. Earth dist.	-3244 Jan 18 j 09:32	2°♋19'57	17.29919 AU
direct	-3244 Apr 03 j 00:14	0°♋15'49	
evening set	-3244 Jul 08 j 07:20	3°♋46'51	
conjunction	-3244 Jul 24 j 17:30	4°♋48'33	0°35'08
minimum elong	-3244 Jul 24 j 17:30	4°♋48'33	0°35'15
max. Earth dist.	-3244 Jul 23 j 14:38	4°♋44'19	19.29822 AU
morning rise	-3244 Aug 09 j 23:17	5°♋49'38	
retrograde	-3244 Nov 09 j 01:06	9°♋11'18	
opposition	-3243 Jan 21 j 11:13	7°♋09'15	0°40'38
min. Earth dist.	-3243 Jan 22 j 11:03	7°♋06'39	17.29985 AU
direct	-3243 Apr 08 j 02:39	5°♋02'37	
evening set	-3243 Jul 13 j 11:20	8°♋33'47	
conjunction	-3243 Jul 29 j 20:06	9°♋35'20	0°37'43
minimum elong	-3243 Jul 29 j 20:06	9°♋35'20	0°37'49
max. Earth dist.	-3243 Jul 28 j 17:40	9°♋31'10	19.30219 AU
morning rise	-3243 Aug 15 j 00:46	10°♋36'17	
retrograde	-3243 Nov 14 j 02:13	13°♋57'56	
opposition	-3242 Jan 26 j 12:49	11°♋56'02	0°43'23
min. Earth dist.	-3242 Jan 27 j 10:44	11°♋53'39	17.30689 AU
direct	-3242 Apr 13 j 08:27	9°♋49'32	
evening set	-3242 Jul 18 j 14:53	13°♋20'43	
conjunction	-3242 Aug 03 j 22:30	14°♋22'08	0°40'02
minimum elong	-3242 Aug 03 j 22:30	14°♋22'08	0°40'09
max. Earth dist.	-3242 Aug 02 j 22:30	14°♋18'21	19.31222 AU
morning rise	-3242 Aug 20 j 01:42	15°♋22'56	
retrograde	-3242 Nov 19 j 00:58	18°♋44'30	
opposition	-3241 Jan 31 j 15:04	16°♋42'46	0°45'49
min. Earth dist.	-3241 Feb 01 j 12:40	16°♋40'26	17.31976 AU
direct	-3241 Apr 18 j 11:58	14°♋36'27	

Attention, astronomical year style is used: The year -3241 in astronomical counting style is the year 3242 BCE in historical counting style.

evening set	-3241 Jul 23 j 18:02	18°♋07'31	
max. Earth dist.	-3241 Aug 08 j 00:34	19°♋05'00	19.32789 AU
conjunction	-3241 Aug 09 j 00:09	19°♋08'44	0°42'05
minimum elong	-3241 Aug 09 j 00:09	19°♋08'44	0°42'12
morning rise	-3241 Aug 25 j 02:15	20°♋09'22	
retrograde	-3241 Nov 24 j 01:38	23°♋30'50	
opposition	-3240 Feb 05 j 17:24	21°♋29'14	0°47'56
min. Earth dist.	-3240 Feb 06 j 13:06	21°♋27'07	17.33806 AU
direct	-3240 Apr 22 j 16:58	19°♋23'06	
evening set	-3240 Jul 27 j 20:36	22°♋53'55	
max. Earth dist.	-3240 Aug 12 j 04:38	23°♋51'39	19.34862 AU
conjunction	-3240 Aug 13 j 01:36	23°♋54'57	0°43'50
minimum elong	-3240 Aug 13 j 01:35	23°♋54'57	0°43'56
morning rise	-3240 Aug 29 j 02:17	24°♋55'23	
retrograde	-3240 Nov 28 j 00:57	28°♋16'39	
opposition	-3239 Feb 09 j 19:51	26°♋15'13	0°49'43
min. Earth dist.	-3239 Feb 10 j 14:50	26°♋13'11	17.36109 AU
direct	-3239 Apr 27 j 20:35	24°♋09'17	
evening set	-3239 Aug 01 j 22:49	27°♋39'44	
max. Earth dist.	-3239 Aug 17 j 05:47	28°♋37'17	19.37395 AU
conjunction	-3239 Aug 18 j 02:21	28°♋40'32	0°45'17
minimum elong	-3239 Aug 18 j 02:21	28°♋40'32	0°45'23
morning rise	-3239 Sep 03 j 01:58	29°♋40'46	
	-3239 Sep 08 j 07:43	0°♌	
retrograde	-3239 Dec 03 j 01:08	3°♌01'48	
opposition	-3238 Feb 14 j 22:25	1°♌00'29	0°51'09
min. Earth dist.	-3238 Feb 15 j 15:42	0°♌58'38	17.38860 AU
	-3238 Mar 11 j 11:59	30°℞♋	
direct	-3238 May 03 j 00:21	28°♋54'45	
	-3238 Jun 22 j 15:51	0°♌	
evening set	-3238 Aug 07 j 00:06	2°♌24'42	
max. Earth dist.	-3238 Aug 22 j 08:39	3°♌22'27	19.40351 AU
conjunction	-3238 Aug 23 j 02:28	3°♌25'16	0°46'25
minimum elong	-3238 Aug 23 j 02:28	3°♌25'16	0°46'31
morning rise	-3238 Sep 08 j 00:46	4°♌25'15	
retrograde	-3238 Dec 08 j 00:29	7°♌45'59	
opposition	-3237 Feb 20 j 01:03	5°♌44'47	0°52'14
min. Earth dist.	-3237 Feb 20 j 16:55	5°♌43'06	17.42006 AU
direct	-3237 May 08 j 04:18	3°♌39'18	
evening set	-3237 Aug 12 j 00:48	7°♌08'35	
max. Earth dist.	-3237 Aug 27 j 08:48	8°♌06'13	19.43704 AU
conjunction	-3237 Aug 28 j 01:47	8°♌08'54	0°47'14
minimum elong	-3237 Aug 28 j 01:47	8°♌08'54	0°47'19
morning rise	-3237 Sep 12 j 23:06	9°♌08'40	
retrograde	-3237 Dec 12 j 23:27	12°♌29'03	
opposition	-3236 Feb 25 j 03:26	10°♌27'56	0°52'57
min. Earth dist.	-3236 Feb 25 j 17:45	10°♌26'24	17.45561 AU
direct	-3236 May 12 j 07:21	8°♌22'39	
evening set	-3236 Aug 16 j 00:24	11°♌51'12	
max. Earth dist.	-3236 Aug 31 j 10:05	12°♌48'59	19.47453 AU
conjunction	-3236 Sep 01 j 00:20	12°♌51'14	0°47'43
minimum elong	-3236 Sep 01 j 00:20	12°♌51'14	0°47'48
morning rise	-3236 Sep 16 j 20:33	13°♌50'45	
	-3236 Oct 06 j 12:08	15°♌	
retrograde	-3236 Dec 16 j 21:53	17°♌10'44	
opposition	-3235 Mar 01 j 05:35	15°♌09'41	0°53'18
min. Earth dist.	-3235 Mar 01 j 17:52	15°♌08'23	17.49485 AU
	-3235 Mar 05 j 00:51	15°℞♌	
direct	-3235 May 17 j 11:21	13°♌04'39	
	-3235 Jul 25 j 02:03	15°♌	
evening set	-3235 Aug 20 j 23:16	16°♌32'20	
conjunction	-3235 Sep 05 j 21:56	17°♌32'05	0°47'53
minimum elong	-3235 Sep 05 j 21:56	17°♌32'05	0°47'57
max. Earth dist.	-3235 Sep 05 j 09:04	17°♌30'04	19.51574 AU
morning rise	-3235 Sep 21 j 17:14	18°♌31'21	
retrograde	-3235 Dec 21 j 19:11	21°♌50'54	
opposition	-3234 Mar 06 j 07:26	19°♌49'53	0°53'18
min. Earth dist.	-3234 Mar 06 j 18:14	19°♌48'45	17.53807 AU
direct	-3234 May 22 j 13:35	17°♌45'06	
evening set	-3234 Aug 25 j 21:04	21°♌11'50	
conjunction	-3234 Sep 10 j 18:41	22°♌11'18	0°47'44
minimum elong	-3234 Sep 10 j 18:41	22°♌11'18	0°47'48
max. Earth dist.	-3234 Sep 10 j 08:35	22°♌09'43	19.56104 AU
morning rise	-3234 Sep 26 j 13:02	23°♌10'17	
retrograde	-3234 Dec 26 j 16:25	26°♌29'23	
opposition	-3233 Mar 11 j 08:57	24°♌28'25	0°52'56
min. Earth dist.	-3233 Mar 11 j 16:57	24°♌27'35	17.58528 AU
direct	-3233 May 27 j 17:06	22°♌23'55	
evening set	-3233 Aug 30 j 17:48	25°♌49'36	
conjunction	-3233 Sep 15 j 14:19	26°♌48'46	0°47'16
minimum elong	-3233 Sep 15 j 14:19	26°♌48'46	0°47'19
max. Earth dist.	-3233 Sep 15 j 06:22	26°♌47'32	19.61035 AU
morning rise	-3233 Oct 01 j 07:52	27°♌47'30	
	-3233 Nov 11 j 15:56	0°♍	
retrograde	-3233 Dec 31 j 12:17	1°♍06'07	
	-3232 Feb 21 j 21:05	30°℞♌	
opposition	-3232 Mar 15 j 10:04	29°♌05'13	0°52'15
min. Earth dist.	-3232 Mar 15 j 16:31	29°♌04'32	17.63676 AU
direct	-3232 May 31 j 17:48	27°♌01'01	
	-3232 Aug 27 j 11:10	0°♍	
evening set	-3232 Sep 03 j 13:39	0°♍25'38	
conjunction	-3232 Sep 19 j 09:12	1°♍24'30	0°46'30
minimum elong	-3232 Sep 19 j 09:12	1°♍24'30	0°46'33
max. Earth dist.	-3232 Sep 19 j 03:49	1°♍23'39	19.66396 AU
morning rise	-3232 Oct 05 j 02:00	2°♍22'57	
retrograde	-3231 Jan 04 j 08:28	5°♍41'04	
opposition	-3231 Mar 20 j 10:25	3°♍40'16	0°51'13
min. Earth dist.	-3231 Mar 20 j 13:39	3°♍39'55	17.69227 AU
direct	-3231 Jun 05 j 19:47	1°♍36'27	
evening set	-3231 Sep 08 j 08:36	4°♍59'56	
conjunction	-3231 Sep 24 j 03:13	5°♍58'29	0°45'27
minimum elong	-3231 Sep 24 j 03:13	5°♍58'29	0°45'30
max. Earth dist.	-3231 Sep 24 j 00:20	5°♍58'03	19.72144 AU
morning rise	-3231 Oct 09 j 19:18	6°♍56'41	
retrograde	-3230 Jan 09 j 03:02	10°♍14'18	
opposition	-3230 Mar 25 j 10:36	8°♍13'37	0°49'53
min. Earth dist.	-3230 Mar 25 j 12:24	8°♍13'26	17.75164 AU
direct	-3230 Jun 10 j 18:54	6°♍10'13	
evening set	-3230 Sep 13 j 02:27	9°♍32'33	
conjunction	-3230 Sep 28 j 20:12	10°♍30'48	0°44'08
minimum elong	-3230 Sep 28 j 20:12	10°♍30'48	0°44'10
max. Earth dist.	-3230 Sep 28 j 19:36	10°♍30'42	19.78261 AU
morning rise	-3230 Oct 14 j 11:45	11°♍28'43	
retrograde	-3229 Jan 13 j 22:28	14°♍45'51	
opposition	-3229 Mar 30 j 10:08	12°♍45'20	0°48'15
min. Earth dist.	-3229 Mar 30 j 08:34	12°♍45'30	17.81422 AU
direct	-3229 Jun 15 j 19:12	10°♍42'22	
evening set	-3229 Sep 17 j 19:28	14°♍03'30	
conjunction	-3229 Oct 03 j 12:29	15°♍01'27	0°42'33
minimum elong	-3229 Oct 03 j 12:29	15°♍01'27	0°42'35
max. Earth dist.	-3229 Oct 03 j 14:38	15°♍01'47	19.84654 AU
morning rise	-3229 Oct 19 j 03:29	15°♍59'08	

Attention, astronomical year style is used: The year -3228 in astronomical counting style is the year 3229 BCE in historical counting style.

retrograde	-3228 Jan 18 j 15:49	19°♑15'45	
opposition	-3228 Apr 03 j 09:07	17°♑15'24	0°46'19
min. Earth dist.	-3228 Apr 03 j 06:26	17°♑15'40	17.87934 AU
direct	-3228 Jun 19 j 16:09	15°♑12'54	
evening set	-3228 Sep 21 j 11:36	18°♑32'49	
conjunction	-3228 Oct 07 j 03:53	19°♑30'28	0°40'42
minimum elong	-3228 Oct 07 j 03:53	19°♑30'28	0°40'44
max. Earth dist.	-3228 Oct 07 j 07:43	19°♑31'03	19.91265 AU
morning rise	-3228 Oct 22 j 18:34	20°♑27'53	
retrograde	-3227 Jan 22 j 10:30	23°♑44'00	
opposition	-3227 Apr 08 j 07:27	21°♑43'48	0°44'07
min. Earth dist.	-3227 Apr 08 j 01:38	21°♑44'24	17.94610 AU
direct	-3227 Jun 24 j 14:34	19°♑41'46	
evening set	-3227 Sep 26 j 02:49	23°♑00'27	
conjunction	-3227 Oct 11 j 18:31	23°♑57'49	0°38'38
minimum elong	-3227 Oct 11 j 18:31	23°♑57'49	0°38'39
max. Earth dist.	-3227 Oct 12 j 01:05	23°♑58'49	19.97989 AU
morning rise	-3227 Oct 27 j 08:45	24°♑54'59	
retrograde	-3226 Jan 27 j 02:39	28°♑10'35	
opposition	-3226 Apr 13 j 05:24	26°♑10'33	0°41'40
min. Earth dist.	-3226 Apr 12 j 22:39	26°♑11'15	18.01373 AU
direct	-3226 Jun 29 j 09:45	24°♑08'59	
evening set	-3226 Sep 30 j 17:18	27°♑26'23	
conjunction	-3226 Oct 16 j 08:22	28°♑23'27	0°36'20
minimum elong	-3226 Oct 16 j 08:22	28°♑23'27	0°36'20
max. Earth dist.	-3226 Oct 16 j 16:11	28°♑24'39	20.04778 AU
morning rise	-3226 Oct 31 j 22:27	29°♑20'23	
	-3226 Nov 12 j 05:31	0°♎	
retrograde	-3225 Jan 31 j 20:38	2°♎35'27	
opposition	-3225 Apr 18 j 02:32	0°♎35'33	0°38'59
min. Earth dist.	-3225 Apr 17 j 16:54	0°♎36'32	18.08162 AU
	-3225 May 02 j 18:51	30℞♑	
direct	-3225 Jul 04 j 06:21	28°♑34'25	
	-3225 Sep 01 j 01:11	0°♎	
evening set	-3225 Oct 05 j 06:47	1°♎50'32	
conjunction	-3225 Oct 20 j 21:30	2°♎47'20	0°33'50
minimum elong	-3225 Oct 20 j 21:30	2°♎47'20	0°33'49
max. Earth dist.	-3225 Oct 21 j 07:59	2°♎48'56	20.11542 AU
morning rise	-3225 Nov 05 j 11:19	3°♎44'02	
retrograde	-3224 Feb 05 j 11:56	6°♎58'33	
opposition	-3224 Apr 21 j 23:07	4°♎58'46	0°36'05
min. Earth dist.	-3224 Apr 21 j 12:43	4°♎59'50	18.14895 AU
direct	-3224 Jul 08 j 00:11	2°♎58'03	
evening set	-3224 Oct 08 j 19:37	6°♎12'52	
conjunction	-3224 Oct 24 j 09:50	7°♎09'24	0°31'09
minimum elong	-3224 Oct 24 j 09:50	7°♎09'24	0°31'09
max. Earth dist.	-3224 Oct 24 j 21:07	7°♎11'07	20.18231 AU
morning rise	-3224 Nov 08 j 23:41	8°♎05'52	
retrograde	-3223 Feb 09 j 04:19	11°♎19'50	
opposition	-3223 Apr 26 j 18:43	9°♎20'07	0°33'00
min. Earth dist.	-3223 Apr 26 j 05:48	9°♎21'26	18.21527 AU
direct	-3223 Jul 12 j 19:15	7°♎19'46	
evening set	-3223 Oct 13 j 07:28	10°♎33'18	
conjunction	-3223 Oct 28 j 21:31	11°♎29'35	0°28'19
minimum elong	-3223 Oct 28 j 21:31	11°♎29'35	0°28'17
max. Earth dist.	-3223 Oct 29 j 11:25	11°♎31'41	20.24795 AU
morning rise	-3223 Nov 13 j 11:14	12°♎25'49	
retrograde	-3222 Feb 13 j 18:41	15°♎39'13	
opposition	-3222 May 01 j 13:51	13°♎39'34	0°29'45
min. Earth dist.	-3222 May 01 j 00:05	13°♎40'58	18.28023 AU
direct	-3222 Jul 17 j 12:24	11°♎39'34	
evening set	-3222 Oct 17 j 18:28	14°♎51'47	
conjunction	-3222 Nov 02 j 08:11	15°♎47'47	0°25'20
minimum elong	-3222 Nov 02 j 08:11	15°♎47'47	0°25'19
max. Earth dist.	-3222 Nov 02 j 22:50	15°♎50'00	20.31230 AU
morning rise	-3222 Nov 17 j 22:09	16°♎43'50	
retrograde	-3221 Feb 18 j 09:28	19°♎56'40	
opposition	-3221 May 06 j 08:02	17°♎57'01	0°26'21
min. Earth dist.	-3221 May 05 j 15:57	17°♎58'39	18.34392 AU
direct	-3221 Jul 22 j 05:32	15°♎57'20	
evening set	-3221 Oct 22 j 04:34	19°♎08'15	
conjunction	-3221 Nov 06 j 18:18	20°♎04'02	0°22'14
minimum elong	-3221 Nov 06 j 18:18	20°♎04'02	0°22'11
max. Earth dist.	-3221 Nov 07 j 11:39	20°♎06'38	20.37527 AU
morning rise	-3221 Nov 22 j 08:17	20°♎59'52	
retrograde	-3220 Feb 22 j 22:14	24°♎12'07	
min. Earth dist.	-3220 May 09 j 08:13	22°♎14'12	18.40630 AU
opposition	-3220 May 10 j 01:16	22°♎12'28	0°22'51
direct	-3220 Jul 25 j 21:42	20°♎13'06	
evening set	-3220 Oct 25 j 14:00	23°♎22'46	
conjunction	-3220 Nov 10 j 03:32	24°♎18'18	0°19'02
minimum elong	-3220 Nov 10 j 03:32	24°♎18'18	0°18'59
max. Earth dist.	-3220 Nov 10 j 21:32	24°♎21'00	20.43716 AU
morning rise	-3220 Nov 25 j 17:54	25°♎13'58	
retrograde	-3219 Feb 26 j 11:25	28°♎25'40	
opposition	-3219 May 14 j 17:48	26°♎26'01	0°19'15
min. Earth dist.	-3219 May 13 j 22:33	26°♎27'57	18.46778 AU
direct	-3219 Jul 30 j 12:29	24°♎26'56	
evening set	-3219 Oct 29 j 22:27	27°♎35'23	
conjunction	-3219 Nov 14 j 12:07	28°♎30'43	0°15'46
minimum elong	-3219 Nov 14 j 12:07	28°♎30'43	0°15'43
behind sun begin	-3219 Nov 14 j 10:20	28°♎30'27	
behind sun end	-3219 Nov 14 j 13:54	28°♎30'58	
max. Earth dist.	-3219 Nov 15 j 08:55	28°♎33'49	20.49806 AU
morning rise	-3219 Nov 30 j 02:36	29°♎26'12	
	-3219 Dec 09 j 23:42	0°♏	
retrograde	-3218 Mar 02 j 22:53	2°♏37'22	
opposition	-3218 May 19 j 09:37	0°♏37'44	0°15'35
min. Earth dist.	-3218 May 18 j 13:06	0°♏39'49	18.52824 AU
	-3218 Jun 04 j 06:27	30℞♎	
direct	-3218 Aug 04 j 03:10	28°♎38'59	
	-3218 Sep 30 j 10:17	0°♏	
evening set	-3218 Nov 03 j 06:29	1°♏46'15	
conjunction	-3218 Nov 18 j 20:05	2°♏41'23	0°12'26
minimum elong	-3218 Nov 18 j 20:05	2°♏41'23	0°12'23
behind sun begin	-3218 Nov 18 j 15:42	2°♏40'45	
behind sun end	-3218 Nov 19 j 00:28	2°♏42'01	
max. Earth dist.	-3218 Nov 19 j 17:25	2°♏44'33	20.55808 AU
morning rise	-3218 Dec 04 j 11:06	3°♏36'43	
retrograde	-3217 Mar 07 j 11:06	6°♏47'25	
min. Earth dist.	-3217 May 23 j 02:11	4°♏50'03	18.58782 AU
opposition	-3217 May 24 j 00:33	4°♏47'48	0°11'51
direct	-3217 Aug 08 j 15:34	2°♏49'22	
evening set	-3217 Nov 07 j 13:43	5°♏55'33	
conjunction	-3217 Nov 23 j 03:40	6°♏50'30	0°09'04
minimum elong	-3217 Nov 23 j 03:40	6°♏50'30	0°09'01
behind sun begin	-3217 Nov 22 j 22:03	6°♏49'41	
behind sun end	-3217 Nov 23 j 09:16	6°♏51'18	
max. Earth dist.	-3217 Nov 24 j 03:32	6°♏54'02	20.61693 AU
morning rise	-3217 Dec 08 j 18:57	7°♏45'41	
retrograde	-3216 Mar 10 j 21:37	10°♏55'55	
opposition	-3216 May 27 j 14:46	8°♏56'23	0°08'05

Attention, astronomical year style is used: The year -3216 in astronomical counting style is the year 3217 BCE in historical counting style.

min. Earth dist.	-3216 May 26 j 15:18	8°♏58'44	18.64589 AU
direct	-3216 Aug 12 j 04:22	6°♏58'16	
evening set	-3216 Nov 10 j 20:35	10°♏03'25	
conjunction	-3216 Nov 26 j 10:34	10°♏58'12	0°05'41
minimum elong	-3216 Nov 26 j 10:34	10°♏58'12	0°05'36
behind sun begin	-3216 Nov 26 j 04:17	10°♏57'17	
behind sun end	-3216 Nov 26 j 16:51	10°♏59'06	
max. Earth dist.	-3216 Nov 27 j 10:40	11°♏01'45	20.67414 AU
morning rise	-3216 Dec 12 j 02:30	11°♏53'14	
	-3215 Mar 04 j 06:08	15°♏	
retrograde	-3215 Mar 15 j 09:18	15°♏03'04	
	-3215 Mar 26 j 12:23	15°℞♏	
min. Earth dist.	-3215 May 31 j 03:32	13°♏06'06	18.70217 AU
opposition	-3215 Jun 01 j 04:19	13°♏03'37	0°04'18
direct	-3215 Aug 16 j 14:56	11°♏05'49	
evening set	-3215 Nov 15 j 02:53	14°♏10'00	
	-3215 Nov 29 j 09:48	15°♏	
conjunction	-3215 Nov 30 j 17:18	15°♏04'38	0°02'15
minimum elong	-3215 Nov 30 j 17:18	15°♏04'38	0°02'11
behind sun begin	-3215 Nov 30 j 10:46	15°♏03'42	
behind sun end	-3215 Nov 30 j 23:50	15°♏05'34	
max. Earth dist.	-3215 Dec 01 j 19:40	15°♏08'30	20.72924 AU
morning rise	-3215 Dec 16 j 09:36	15°♏59'34	
retrograde	-3214 Mar 19 j 18:57	19°♏09'00	
opposition	-3214 Jun 05 j 17:16	17°♏09'38	0°00'30
min. Earth dist.	-3214 Jun 04 j 15:34	17°♏12'13	18.75597 AU
desc. node	-3214 Jul 24 j 08:48	15°♏30'58	
direct	-3214 Aug 21 j 02:07	15°♏12'11	
evening set	-3214 Nov 19 j 08:52	18°♏15'26	
conjunction	-3214 Dec 04 j 23:29	19°♏09'56	-0°01'16
minimum elong	-3214 Dec 04 j 23:30	19°♏09'56	0°01'22
behind sun begin	-3214 Dec 04 j 16:57	19°♏09'00	
behind sun end	-3214 Dec 05 j 06:02	19°♏10'52	
max. Earth dist.	-3214 Dec 06 j 01:45	19°♏13'47	20.78162 AU
morning rise	-3214 Dec 20 j 16:35	20°♏04'46	
retrograde	-3213 Mar 24 j 06:15	23°♏13'52	
min. Earth dist.	-3213 Jun 09 j 03:16	21°♏17'13	18.80683 AU
opposition	-3213 Jun 10 j 05:38	21°♏14'35	-0°03'17
direct	-3213 Aug 25 j 11:17	19°♏17'25	
evening set	-3213 Nov 23 j 14:31	22°♏19'50	
conjunction	-3213 Dec 09 j 05:43	23°♏14'13	-0°04'42
minimum elong	-3213 Dec 09 j 05:43	23°♏14'13	0°04'47
behind sun begin	-3213 Dec 08 j 23:19	23°♏13'18	
behind sun end	-3213 Dec 09 j 12:06	23°♏15'07	
max. Earth dist.	-3213 Dec 10 j 09:44	23°♏18'18	20.83060 AU
morning rise	-3213 Dec 24 j 23:15	24°♏08'57	
retrograde	-3212 Mar 27 j 15:11	27°♏17'44	
opposition	-3212 Jun 13 j 17:09	25°♏18'31	-0°07'01
min. Earth dist.	-3212 Jun 12 j 14:16	25°♏21'12	18.85386 AU
direct	-3212 Aug 28 j 21:10	23°♏21'38	
evening set	-3212 Nov 26 j 20:03	26°♏23'16	
conjunction	-3212 Dec 12 j 11:32	27°♏17'32	-0°08'03
minimum elong	-3212 Dec 12 j 11:31	27°♏17'32	0°08'08
behind sun begin	-3212 Dec 12 j 05:41	27°♏16'43	
behind sun end	-3212 Dec 12 j 17:22	27°♏18'22	
max. Earth dist.	-3212 Dec 13 j 14:56	27°♏21'32	20.87556 AU
morning rise	-3212 Dec 28 j 05:54	28°♏12'13	
	-3211 Feb 01 j 08:53	0°♐	
retrograde	-3211 Apr 01 j 01:21	1°♐20'42	
	-3211 Jun 01 j 20:06	30°℞♏	
min. Earth dist.	-3211 Jun 17 j 01:23	29°♏24'14	18.89671 AU
opposition	-3211 Jun 18 j 04:22	29°♏21'33	-0°10'43
direct	-3211 Sep 02 j 05:03	27°♏24'53	
	-3211 Nov 23 j 08:13	0°♐	
evening set	-3211 Dec 01 j 01:02	0°♐25'47	
conjunction	-3211 Dec 16 j 17:12	1°♐19'59	-0°11'21
minimum elong	-3211 Dec 16 j 17:12	1°♐19'59	0°11'27
behind sun begin	-3211 Dec 16 j 12:24	1°♐19'18	
behind sun end	-3211 Dec 16 j 22:00	1°♐20'39	
max. Earth dist.	-3211 Dec 17 j 22:01	1°♐24'10	20.91596 AU
morning rise	-3210 Jan 01 j 12:08	2°♐14'36	
retrograde	-3210 Apr 05 j 10:11	5°♐22'48	
min. Earth dist.	-3210 Jun 21 j 11:37	3°♐26'24	18.93465 AU
opposition	-3210 Jun 22 j 14:58	3°♐23'40	-0°14'21
direct	-3210 Sep 06 j 14:10	1°♐27'12	
evening set	-3210 Dec 05 j 06:05	4°♐27'25	
conjunction	-3210 Dec 20 j 22:41	5°♐21'32	-0°14'35
minimum elong	-3210 Dec 20 j 22:41	5°♐21'32	0°14'40
behind sun begin	-3210 Dec 20 j 19:49	5°♐21'08	
behind sun end	-3210 Dec 21 j 01:34	5°♐21'57	
max. Earth dist.	-3210 Dec 22 j 02:31	5°♐25'34	20.95143 AU
morning rise	-3209 Jan 05 j 18:36	6°♐16'07	
retrograde	-3209 Apr 09 j 19:01	9°♐24'04	
min. Earth dist.	-3209 Jun 25 j 21:59	7°♐27'36	18.96768 AU
opposition	-3209 Jun 27 j 00:56	7°♐24'55	-0°17'53
direct	-3209 Sep 10 j 20:48	5°♐28'34	
evening set	-3209 Dec 09 j 10:43	8°♐28'09	
conjunction	-3209 Dec 25 j 04:08	9°♐22'14	-0°17'44
minimum elong	-3209 Dec 25 j 04:08	9°♐22'14	0°17'51
max. Earth dist.	-3209 Dec 26 j 09:04	9°♐26'25	20.98189 AU
morning rise	-3208 Jan 10 j 00:42	10°♐16'47	
retrograde	-3208 Apr 13 j 03:27	13°♐24'29	
min. Earth dist.	-3208 Jun 29 j 07:04	11°♐28'01	18.99565 AU
opposition	-3208 Jun 30 j 10:17	11°♐25'17	-0°21'19
direct	-3208 Sep 14 j 04:58	9°♐29'02	
evening set	-3208 Dec 12 j 15:11	12°♐28'03	
conjunction	-3208 Dec 28 j 09:06	13°♐22'06	-0°20'47
minimum elong	-3208 Dec 28 j 09:06	13°♐22'06	0°20'53
max. Earth dist.	-3208 Dec 29 j 12:59	13°♐26'07	21.00755 AU
morning rise	-3207 Jan 13 j 06:40	14°♐16'38	
retrograde	-3207 Apr 17 j 11:19	17°♐24'07	
opposition	-3207 Jul 04 j 19:13	15°♐24'51	-0°24'38
min. Earth dist.	-3207 Jul 03 j 16:31	15°♐27'31	19.01916 AU
direct	-3207 Sep 18 j 10:48	13°♐28'39	
evening set	-3207 Dec 16 j 19:26	16°♐27'10	
conjunction	-3206 Jan 01 j 14:14	17°♐21'12	-0°23'44
minimum elong	-3206 Jan 01 j 14:14	17°♐21'12	0°23'51
max. Earth dist.	-3206 Jan 02 j 19:17	17°♐25'22	21.02890 AU
morning rise	-3206 Jan 17 j 12:31	18°♐15'44	
retrograde	-3206 Apr 21 j 19:19	21°♐23'01	
min. Earth dist.	-3206 Jul 08 j 00:24	19°♐26'24	19.03850 AU
opposition	-3206 Jul 09 j 03:29	19°♐23'42	-0°27'49
direct	-3206 Sep 22 j 17:26	17°♐27'32	
evening set	-3206 Dec 20 j 23:43	20°♐25'38	
conjunction	-3205 Jan 05 j 19:09	21°♐19'39	-0°26'33
minimum elong	-3205 Jan 05 j 19:09	21°♐19'39	0°26'40
max. Earth dist.	-3205 Jan 06 j 23:04	21°♐23'39	21.04634 AU
morning rise	-3205 Jan 21 j 18:31	22°♐14'12	
retrograde	-3205 Apr 26 j 03:09	25°♐21'22	
min. Earth dist.	-3205 Jul 12 j 09:01	23°♐24'36	19.05416 AU
opposition	-3205 Jul 13 j 11:25	23°♐21'58	-0°30'52
direct	-3205 Sep 26 j 22:37	21°♐25'48	
evening set	-3205 Dec 25 j 03:56	24°♐23'35	

Attention, astronomical year style is used: The year -3204 in astronomical counting style is the year 3205 BCE in historical counting style.

conjunction	-3204 Jan 10 j 00:20	25°♐17'37	-0°29'14	
minimum elong	-3204 Jan 10 j 00:19	25°♐17'37	0°29'21	
max. Earth dist.	-3204 Jan 11 j 05:11	25°♐21'45	21.06009 AU	
morning rise	-3204 Jan 26 j 00:25	26°♐12'12		
retrograde	-3204 Apr 29 j 11:06	29°♐19'15		
opposition	-3204 Jul 16 j 18:43	27°♐19'49	-0°33'45	
min. Earth dist.	-3204 Jul 15 j 16:01	27°♐22'30	19.06608 AU	
direct	-3204 Sep 30 j 04:02	25°♐23'42		
evening set	-3204 Dec 28 j 08:19	28°♐21'13		
conjunction	-3203 Jan 13 j 05:22	29°♐15'17	-0°31'46	
minimum elong	-3203 Jan 13 j 05:22	29°♐15'17	0°31'53	
max. Earth dist.	-3203 Jan 14 j 08:54	29°♐19'13	21.07029 AU	
	-3203 Jan 26 j 07:43	0°♑		
morning rise	-3203 Jan 29 j 06:35	0°♑09'55		
retrograde	-3203 May 03 j 19:03	3°♑16'56		
min. Earth dist.	-3203 Jul 20 j 00:10	1°♑20'02	19.07457 AU	
opposition	-3203 Jul 21 j 01:59	1°♑17'26	-0°36'29	
	-3203 Aug 25 j 05:06	30°℞♐		
direct	-3203 Oct 04 j 08:24	29°♐21'20		
	-3203 Nov 12 j 09:54	0°♑		
evening set	-3202 Jan 01 j 12:33	2°♑18'41		
conjunction	-3202 Jan 17 j 10:41	3°♑12'49	-0°34'10	
minimum elong	-3202 Jan 17 j 10:41	3°♑12'49	0°34'16	
max. Earth dist.	-3202 Jan 18 j 15:01	3°♑16'51	21.07693 AU	
morning rise	-3202 Feb 02 j 12:43	4°♑07'30		
retrograde	-3202 May 08 j 03:41	7°♑14'31		
min. Earth dist.	-3202 Jul 24 j 06:57	5°♑17'37	19.07927 AU	
opposition	-3202 Jul 25 j 08:53	5°♑15'01	-0°39'02	
direct	-3202 Oct 08 j 13:45	3°♑18'56		
evening set	-3201 Jan 05 j 17:20	6°♑16'11		
conjunction	-3201 Jan 21 j 16:14	7°♑10'23	-0°36'24	
minimum elong	-3201 Jan 21 j 16:14	7°♑10'23	0°36'31	
max. Earth dist.	-3201 Jan 22 j 18:56	7°♑14'11	21.07975 AU	
morning rise	-3201 Feb 06 j 19:26	8°♑05'10		
retrograde	-3201 May 12 j 11:42	11°♑12'12		
opposition	-3201 Jul 29 j 15:32	9°♑12'41	-0°41'24	
min. Earth dist.	-3201 Jul 28 j 15:03	9°♑15'09	19.08013 AU	
direct	-3201 Oct 12 j 17:11	7°♑16'36		
evening set	-3200 Jan 09 j 22:15	10°♑13'52		
conjunction	-3200 Jan 25 j 22:15	11°♑08'09	-0°38'28	
minimum elong	-3200 Jan 25 j 22:15	11°♑08'09	0°38'34	
max. Earth dist.	-3200 Jan 27 j 01:19	11°♑12'01	21.07849 AU	
morning rise	-3200 Feb 11 j 02:15	12°♑03'02		
retrograde	-3200 May 15 j 21:02	15°♑10'09		
opposition	-3200 Aug 01 j 22:03	13°♑10'38	-0°43'35	
min. Earth dist.	-3200 Jul 31 j 21:48	13°♑13'04	19.07661 AU	
direct	-3200 Oct 15 j 22:51	11°♑14'32		
evening set	-3199 Jan 13 j 03:34	14°♑11'52		
conjunction	-3199 Jan 29 j 04:21	15°♑06'15	-0°40'21	
minimum elong	-3199 Jan 29 j 04:21	15°♑06'15	0°40'28	
max. Earth dist.	-3199 Jan 30 j 05:24	15°♑09'49	21.07272 AU	
morning rise	-3199 Feb 14 j 09:30	16°♑01'15		
retrograde	-3199 May 20 j 05:10	19°♑08'30		
min. Earth dist.	-3199 Aug 05 j 06:14	17°♑11'13	19.06849 AU	
opposition	-3199 Aug 06 j 04:39	17°♑08'57	-0°45'34	
direct	-3199 Oct 20 j 02:02	15°♑12'49		
evening set	-3198 Jan 17 j 09:18	18°♑10'17		
conjunction	-3198 Feb 02 j 11:15	19°♑04'49	-0°42'03	
minimum elong	-3198 Feb 02 j 11:15	19°♑04'49	0°42'09	
max. Earth dist.	-3198 Feb 03 j 12:12	19°♑08'22	21.06207 AU	
morning rise	-3198 Feb 18 j 17:13	19°♑59'55		
retrograde	-3198 May 24 j 14:53	23°♑07'19		
opposition	-3198 Aug 10 j 10:58	21°♑07'45	-0°47'20	
min. Earth dist.	-3198 Aug 09 j 13:12	21°♑09'57	19.05517 AU	
direct	-3198 Oct 24 j 08:02	19°♑11'32		
evening set	-3197 Jan 21 j 15:42	22°♑09'13		
conjunction	-3197 Feb 06 j 18:30	23°♑03'53	-0°43'33	
minimum elong	-3197 Feb 06 j 18:30	23°♑03'53	0°43'39	
max. Earth dist.	-3197 Feb 07 j 16:49	23°♑07'03	21.04606 AU	
morning rise	-3197 Feb 23 j 01:39	23°♑59'08		
retrograde	-3197 May 28 j 23:28	27°♑06'43		
opposition	-3197 Aug 14 j 17:29	25°♑07'04	-0°48'52	
min. Earth dist.	-3197 Aug 13 j 21:58	25°♑09'02	19.03639 AU	
direct	-3197 Oct 28 j 11:46	23°♑10'42		
evening set	-3196 Jan 25 j 22:20	26°♑08'41		
conjunction	-3196 Feb 11 j 02:19	27°♑03'30	-0°44'50	
minimum elong	-3196 Feb 11 j 02:19	27°♑03'30	0°44'56	
max. Earth dist.	-3196 Feb 12 j 00:04	27°♑06'35	21.02447 AU	
morning rise	-3196 Feb 27 j 10:16	27°♑58'53		
	-3196 Apr 08 j 18:45	0°♒		
retrograde	-3196 Jun 01 j 08:59	1°♒06'39		
	-3196 Jul 26 j 10:08	30°℞♑		
opposition	-3196 Aug 17 j 23:46	29°♑06'55	-0°50'11	
min. Earth dist.	-3196 Aug 17 j 05:00	29°♑08'49	19.01195 AU	
direct	-3196 Oct 31 j 17:55	27°♑10'23		
	-3195 Jan 26 j 14:40	0°♒		
evening set	-3195 Jan 29 j 05:33	0°♒08'41		
conjunction	-3195 Feb 14 j 10:25	1°♒03'40	-0°45'54	
minimum elong	-3195 Feb 14 j 10:25	1°♒03'40	0°45'59	
max. Earth dist.	-3195 Feb 15 j 05:24	1°♒06'22	20.99746 AU	
morning rise	-3195 Mar 02 j 19:32	1°♒59'14		
retrograde	-3195 Jun 05 j 18:08	5°♒07'13		
opposition	-3195 Aug 22 j 06:15	3°♒07'20	-0°51'14	
min. Earth dist.	-3195 Aug 21 j 13:51	3°♒09'01	18.98240 AU	
direct	-3195 Nov 04 j 22:16	1°♒10'35		
evening set	-3194 Feb 02 j 13:01	4°♒09'17		
conjunction	-3194 Feb 18 j 19:08	5°♒04'27	-0°46'44	
minimum elong	-3194 Feb 18 j 19:08	5°♒04'27	0°46'50	
max. Earth dist.	-3194 Feb 19 j 13:32	5°♒07'04	20.96553 AU	
morning rise	-3194 Mar 07 j 05:06	6°♒00'11		
retrograde	-3194 Jun 10 j 03:50	9°♒08'24		
opposition	-3194 Aug 26 j 12:35	7°♒08'23	-0°52'03	
min. Earth dist.	-3194 Aug 25 j 20:55	7°♒09'59	18.94809 AU	
direct	-3194 Nov 09 j 04:23	5°♒11'23		
evening set	-3193 Feb 06 j 21:18	8°♒10'32		
conjunction	-3193 Feb 23 j 04:17	9°♒05'54	-0°47'21	
minimum elong	-3193 Feb 23 j 04:17	9°♒05'54	0°47'26	
max. Earth dist.	-3193 Feb 23 j 19:54	9°♒08'08	20.92915 AU	
morning rise	-3193 Mar 11 j 15:22	10°♒01'50		
retrograde	-3193 Jun 14 j 13:23	13°♒10'19		
opposition	-3193 Aug 30 j 18:59	11°♒10'08	-0°52'36	
min. Earth dist.	-3193 Aug 30 j 05:44	11°♒11'30	18.90978 AU	
direct	-3193 Nov 13 j 09:14	9°♒12'51		
evening set	-3192 Feb 11 j 05:54	12°♒12'34		
conjunction	-3192 Feb 27 j 14:06	13°♒08'09	-0°47'44	
minimum elong	-3192 Feb 27 j 14:06	13°♒08'09	0°47'49	
max. Earth dist.	-3192 Feb 28 j 05:08	13°♒10'18	20.88907 AU	
morning rise	-3192 Mar 15 j 01:56	14°♒04'16		
	-3192 Apr 01 j 09:48	15°♒		
retrograde	-3192 Jun 17 j 23:46	17°♒13'04		
opposition	-3192 Sep 03 j 01:29	15°♒12'45	-0°52'54	
min. Earth dist.	-3192 Sep 02 j 12:49	15°♒14'03	18.86797 AU	

Attention, astronomical year style is used: The year -3192 in astronomical counting style is the year 3193 BCE in historical counting style.

	-3192 Sep 08 j 05:29	15°R♒	
direct	-3192 Nov 16 j 15:37	13°♒15'11	
	-3191 Jan 21 j 15:26	15°♒	
evening set	-3191 Feb 14 j 15:06	16°♒15'30	
conjunction	-3191 Mar 03 j 00:10	17°♒11'19	-0°47'53
minimum elong	-3191 Mar 03 j 00:10	17°♒11'19	0°47'57
max. Earth dist.	-3191 Mar 03 j 12:36	17°♒13'05	20.84576 AU
morning rise	-3191 Mar 19 j 13:04	18°♒07'39	
retrograde	-3191 Jun 22 j 09:33	21°♒16'48	
opposition	-3191 Sep 07 j 08:20	19°♒16'20	-0°52'57
min. Earth dist.	-3191 Sep 06 j 22:03	19°♒17'24	18.82328 AU
direct	-3191 Nov 20 j 21:03	17°♒18'29	
evening set	-3190 Feb 19 j 00:59	20°♒19'30	
conjunction	-3190 Mar 07 j 11:16	21°♒15'34	-0°47'47
minimum elong	-3190 Mar 07 j 11:16	21°♒15'34	0°47'51
max. Earth dist.	-3190 Mar 07 j 22:59	21°♒17'14	20.79976 AU
morning rise	-3190 Mar 24 j 00:54	22°♒12'07	
retrograde	-3190 Jun 26 j 21:15	25°♒21'39	
opposition	-3190 Sep 11 j 15:09	23°♒21'03	-0°52'43
min. Earth dist.	-3190 Sep 11 j 05:31	23°♒22'03	18.77595 AU
direct	-3190 Nov 25 j 04:17	21°♒22'56	
evening set	-3189 Feb 23 j 11:49	24°♒24'44	
conjunction	-3189 Mar 11 j 22:57	25°♒21'02	-0°47'27
minimum elong	-3189 Mar 11 j 22:57	25°♒21'02	0°47'31
max. Earth dist.	-3189 Mar 12 j 07:53	25°♒22'19	20.75126 AU
morning rise	-3189 Mar 28 j 13:33	26°♒17'50	
retrograde	-3189 Jul 01 j 07:24	29°♒27'47	
opposition	-3189 Sep 15 j 22:32	27°♒27'05	-0°52'14
min. Earth dist.	-3189 Sep 15 j 15:27	27°♒27'50	18.72632 AU
direct	-3189 Nov 29 j 10:08	25°♒28'41	
evening set	-3188 Feb 27 j 23:07	28°♒31'20	
conjunction	-3188 Mar 15 j 11:23	29°♒27'54	-0°46'53
minimum elong	-3188 Mar 15 j 11:23	29°♒27'54	0°46'56
max. Earth dist.	-3188 Mar 15 j 19:26	29°♒29'03	20.70056 AU
	-3188 Mar 24 j 18:47	0°♓	
morning rise	-3188 Apr 01 j 02:37	0°♓24'55	
retrograde	-3188 Jul 04 j 20:20	3°♓35'20	
opposition	-3188 Sep 19 j 06:07	1°♓34'34	-0°51'28
min. Earth dist.	-3188 Sep 18 j 23:44	1°♓35'14	18.67444 AU
	-3188 Nov 01 j 23:34	30°R♒	
direct	-3188 Dec 02 j 18:49	29°♒35'54	
	-3187 Jan 02 j 04:53	0°♓	
evening set	-3187 Mar 03 j 11:33	2°♓39'27	
conjunction	-3187 Mar 20 j 00:36	3°♓36'18	-0°46'03
minimum elong	-3187 Mar 20 j 00:36	3°♓36'18	0°46'07
max. Earth dist.	-3187 Mar 20 j 05:48	3°♓37'03	20.64762 AU
morning rise	-3187 Apr 05 j 16:43	4°♓33'34	
retrograde	-3187 Jul 09 j 07:13	7°♓44'29	
opposition	-3187 Sep 23 j 14:15	5°♓43'39	-0°50'26
min. Earth dist.	-3187 Sep 23 j 10:39	5°♓44'01	18.62038 AU
direct	-3187 Dec 07 j 01:20	3°♓44'41	
evening set	-3186 Mar 08 j 00:43	6°♓49'14	
conjunction	-3186 Mar 24 j 14:53	7°♓46'22	-0°45'00
minimum elong	-3186 Mar 24 j 14:53	7°♓46'22	0°45'02
max. Earth dist.	-3186 Mar 24 j 18:44	7°♓46'55	20.59244 AU
morning rise	-3186 Apr 10 j 07:36	8°♓43'53	
retrograde	-3186 Jul 13 j 21:31	11°♓55'18	
opposition	-3186 Sep 27 j 22:45	9°♓54'24	-0°49'08
min. Earth dist.	-3186 Sep 27 j 20:09	9°♓54'41	18.56383 AU
direct	-3186 Dec 11 j 11:40	7°♓55'10	
evening set	-3185 Mar 12 j 15:06	11°♓00'45	
conjunction	-3185 Mar 29 j 05:59	11°♓58'10	-0°43'41
minimum elong	-3185 Mar 29 j 05:59	11°♓58'10	0°43'43
max. Earth dist.	-3185 Mar 29 j 06:40	11°♓58'16	20.53450 AU
morning rise	-3185 Apr 14 j 23:24	12°♓55'57	
retrograde	-3185 Jul 18 j 09:25	16°♓07'53	
opposition	-3185 Oct 02 j 07:52	14°♓06'55	-0°47'33
min. Earth dist.	-3185 Oct 02 j 08:23	14°♓06'52	18.50453 AU
direct	-3185 Dec 15 j 19:40	12°♓07'20	
evening set	-3184 Mar 16 j 06:13	15°♓14'01	
conjunction	-3184 Apr 01 j 22:03	16°♓11'44	-0°42'07
minimum elong	-3184 Apr 01 j 22:03	16°♓11'44	0°42'08
max. Earth dist.	-3184 Apr 01 j 20:53	16°♓11'34	20.47384 AU
morning rise	-3184 Apr 18 j 15:57	17°♓09'46	
retrograde	-3184 Jul 22 j 00:51	20°♓22'14	
opposition	-3184 Oct 05 j 17:30	18°♓21'10	-0°45'41
min. Earth dist.	-3184 Oct 05 j 19:05	18°♓21'00	18.44237 AU
direct	-3184 Dec 19 j 07:17	16°♓21'14	
evening set	-3183 Mar 20 j 22:16	19°♓29'01	
conjunction	-3183 Apr 06 j 14:49	20°♓27'01	-0°40'18
minimum elong	-3183 Apr 06 j 14:49	20°♓27'01	0°40'19
max. Earth dist.	-3183 Apr 06 j 10:29	20°♓26'24	20.41023 AU
morning rise	-3183 Apr 23 j 09:17	21°♓25'19	
retrograde	-3183 Jul 26 j 14:10	24°♓38'19	
opposition	-3183 Oct 10 j 03:52	22°♓37'07	-0°43'34
min. Earth dist.	-3183 Oct 10 j 08:34	22°♓36'37	18.37742 AU
direct	-3183 Dec 23 j 17:11	20°♓36'47	
evening set	-3182 Mar 25 j 15:17	23°♓45'42	
conjunction	-3182 Apr 11 j 08:39	24°♓44'01	-0°38'16
minimum elong	-3182 Apr 11 j 08:39	24°♓44'01	0°38'17
max. Earth dist.	-3182 Apr 11 j 02:13	24°♓43'04	20.34413 AU
morning rise	-3182 Apr 28 j 03:33	25°♓42'34	
retrograde	-3182 Jul 31 j 06:31	28°♓56'04	
opposition	-3182 Oct 14 j 14:30	26°♓54'44	-0°41'11
min. Earth dist.	-3182 Oct 14 j 20:20	26°♓54'07	18.31014 AU
direct	-3182 Dec 28 j 06:10	24°♓53'58	
evening set	-3181 Mar 30 j 09:16	28°♓04'03	
conjunction	-3181 Apr 16 j 03:14	29°♓02'39	-0°35'59
minimum elong	-3181 Apr 16 j 03:14	29°♓02'39	0°35'59
max. Earth dist.	-3181 Apr 15 j 17:58	29°♓01'18	20.27591 AU
morning rise	-3181 May 02 j 22:28	0°♈01'28	
	-3181 May 02 j 12:12	0°♈	
retrograde	-3181 Aug 04 j 21:00	3°♈15'29	
opposition	-3181 Oct 19 j 01:58	1°♈13'59	-0°38'33
min. Earth dist.	-3181 Oct 19 j 10:45	1°♈13'03	18.24124 AU
	-3181 Nov 19 j 04:23	30°R♓	
direct	-3180 Jan 01 j 17:30	29°♓12'46	
	-3180 Feb 13 j 14:58	0°♈	
evening set	-3180 Apr 03 j 03:49	2°♈24'02	
conjunction	-3180 Apr 19 j 22:24	3°♈22'56	-0°33'29
minimum elong	-3180 Apr 19 j 22:24	3°♈22'56	0°33'30
max. Earth dist.	-3180 Apr 19 j 11:08	3°♈21'16	20.20657 AU
morning rise	-3180 May 06 j 17:56	4°♈22'00	
retrograde	-3180 Aug 08 j 14:34	7°♈36'33	
opposition	-3180 Oct 22 j 13:51	5°♈34'52	-0°35'41
min. Earth dist.	-3180 Oct 22 j 23:29	5°♈33'50	18.17156 AU
direct	-3179 Jan 05 j 08:03	3°♈33'11	
evening set	-3179 Apr 07 j 23:24	6°♈45'40	
conjunction	-3179 Apr 24 j 18:30	7°♈44'52	-0°30'48
minimum elong	-3179 Apr 24 j 18:30	7°♈44'52	0°30'47
max. Earth dist.	-3179 Apr 24 j 05:02	7°♈42'52	20.13673 AU
morning rise	-3179 May 11 j 14:10	8°♈44'12	

Attention, astronomical year style is used: The year -3179 in astronomical counting style is the year 3180 BCE in historical counting style.

retrograde	-3179 Aug 13 j 05:56	11°♈59'15	
opposition	-3179 Oct 27 j 02:24	9°♈57'24	-0°32'36
min. Earth dist.	-3179 Oct 27 j 14:43	9°♈56'05	18.10188 AU
direct	-3178 Jan 09 j 20:41	7°♈55'15	
evening set	-3178 Apr 12 j 19:50	11°♈08'59	
conjunction	-3178 Apr 29 j 15:22	12°♈08'29	-0°27'54
minimum elong	-3178 Apr 29 j 15:23	12°♈08'29	0°27'53
max. Earth dist.	-3178 Apr 28 j 23:47	12°♈06'10	20.06739 AU
morning rise	-3178 May 16 j 11:13	13°♈08'03	
retrograde	-3178 Aug 18 j 00:47	16°♈23'38	
opposition	-3178 Oct 31 j 15:33	14°♈21'38	-0°29'17
min. Earth dist.	-3178 Nov 01 j 04:35	14°♈20'14	18.03298 AU
direct	-3177 Jan 14 j 12:45	12°♈19'02	
evening set	-3177 Apr 17 j 17:06	15°♈34'03	
conjunction	-3177 May 04 j 12:57	16°♈33'49	-0°24'50
minimum elong	-3177 May 04 j 12:57	16°♈33'49	0°24'48
max. Earth dist.	-3177 May 03 j 19:48	16°♈31'16	19.99900 AU
morning rise	-3177 May 21 j 08:39	17°♈33'38	
retrograde	-3177 Aug 22 j 17:25	20°♈49'44	
opposition	-3177 Nov 05 j 05:33	18°♈47'38	-0°25'47
min. Earth dist.	-3177 Nov 05 j 20:50	18°♈45'59	17.96548 AU
direct	-3176 Jan 19 j 03:04	16°♈44'37	
evening set	-3176 Apr 21 j 15:09	20°♈00'54	
conjunction	-3176 May 08 j 11:12	21°♈00'57	-0°21'35
minimum elong	-3176 May 08 j 11:12	21°♈00'57	0°21'33
max. Earth dist.	-3176 May 07 j 15:55	20°♈58'04	19.93255 AU
morning rise	-3176 May 25 j 06:54	22°♈01'00	
retrograde	-3176 Aug 26 j 13:19	25°♈17'39	
opposition	-3176 Nov 08 j 20:07	23°♈15'27	-0°22'07
min. Earth dist.	-3176 Nov 09 j 11:58	23°♈13'43	17.90018 AU
direct	-3175 Jan 22 j 20:18	21°♈12'03	
evening set	-3175 Apr 26 j 13:58	24°♈29'38	
conjunction	-3175 May 13 j 10:17	25°♈29'58	-0°18'12
minimum elong	-3175 May 13 j 10:17	25°♈29'58	0°18'10
max. Earth dist.	-3175 May 12 j 14:02	25°♈26'56	19.86837 AU
morning rise	-3175 May 30 j 05:40	26°♈30'14	
retrograde	-3175 Aug 31 j 07:38	29°♈47'25	
opposition	-3175 Nov 13 j 11:39	27°♈45'10	-0°18'17
min. Earth dist.	-3175 Nov 14 j 05:29	27°♈43'14	17.83729 AU
direct	-3174 Jan 27 j 12:27	25°♈41'26	
evening set	-3174 May 01 j 13:50	29°♈00'20	
max. Earth dist.	-3174 May 17 j 11:32	29°♈57'31	19.80688 AU
conjunction	-3174 May 18 j 10:04	0°♉00'55	-0°14'41
minimum elong	-3174 May 18 j 10:04	0°♉00'55	0°14'37
behind sun begin	-3174 May 18 j 07:29	0°♉00'32	
behind sun end	-3174 May 18 j 12:39	0°♉01'18	
	-3174 May 18 j 03:55	0°♉	
morning rise	-3174 Jun 04 j 05:18	1°♉01'23	
retrograde	-3174 Sep 05 j 04:33	4°♉19'07	
opposition	-3174 Nov 18 j 03:45	2°♉16'51	-0°14'18
min. Earth dist.	-3174 Nov 18 j 22:19	2°♉14'50	17.77719 AU
direct	-3173 Feb 01 j 07:06	0°♉12'49	
evening set	-3173 May 06 j 14:26	3°♉33'02	
max. Earth dist.	-3173 May 22 j 11:39	4°♉30'22	19.74804 AU
conjunction	-3173 May 23 j 10:43	4°♉33'52	-0°11'03
minimum elong	-3173 May 23 j 10:43	4°♉33'52	0°10'59
behind sun begin	-3173 May 23 j 05:41	4°♉33'07	
behind sun end	-3173 May 23 j 15:45	4°♉34'36	
morning rise	-3173 Jun 09 j 05:21	5°♉34'31	
retrograde	-3173 Sep 10 j 00:20	8°♉52'47	
opposition	-3173 Nov 22 j 20:56	6°♉50'32	-0°10'11
min. Earth dist.	-3173 Nov 23 j 17:14	6°♉48'19	17.71970 AU
direct	-3172 Feb 06 j 01:30	4°♉46'14	
evening set	-3172 May 10 j 15:48	8°♉07'43	
max. Earth dist.	-3172 May 26 j 10:16	9°♉04'52	19.69190 AU
conjunction	-3172 May 27 j 11:44	9°♉08'45	-0°07'19
minimum elong	-3172 May 27 j 11:44	9°♉08'45	0°07'16
behind sun begin	-3172 May 27 j 05:31	9°♉07'50	
behind sun end	-3172 May 27 j 17:57	9°♉09'40	
morning rise	-3172 Jun 13 j 06:03	10°♉09'35	
retrograde	-3172 Sep 13 j 21:44	13°♉28'23	
opposition	-3172 Nov 26 j 14:49	11°♉26'08	-0°05'59
min. Earth dist.	-3172 Nov 27 j 12:03	11°♉23'50	17.66489 AU
direct	-3171 Feb 09 j 21:50	9°♉21'33	
evening set	-3171 May 15 j 17:57	12°♉44'17	
max. Earth dist.	-3171 May 31 j 11:58	13°♉41'36	19.63818 AU
conjunction	-3171 Jun 01 j 13:46	13°♉45'32	-0°03'32
minimum elong	-3171 Jun 01 j 13:46	13°♉45'32	0°03'26
behind sun begin	-3171 Jun 01 j 07:01	13°♉44'32	
behind sun end	-3171 Jun 01 j 20:30	13°♉46'32	
morning rise	-3171 Jun 18 j 07:18	14°♉46'30	
	-3171 Jun 22 j 02:21	15°♉	
retrograde	-3171 Sep 18 j 18:49	18°♉05'47	
opposition	-3171 Dec 01 j 09:32	16°♉03'33	-0°01'43
min. Earth dist.	-3171 Dec 02 j 08:14	16°♉01'05	17.61239 AU
	-3171 Dec 26 j 21:35	15°℞♉	
direct	-3170 Feb 14 j 19:18	13°♉58'42	
	-3170 Apr 04 j 19:01	15°♉	
asc. node	-3170 Apr 28 j 13:09	16°♉06'36	
evening set	-3170 May 20 j 20:59	17°♉22'37	
max. Earth dist.	-3170 Jun 05 j 11:51	18°♉19'41	19.58691 AU
conjunction	-3170 Jun 06 j 16:13	18°♉24'02	0°00'26
minimum elong	-3170 Jun 06 j 16:13	18°♉24'02	0°00'30
behind sun begin	-3170 Jun 06 j 09:27	18°♉23'01	
behind sun end	-3170 Jun 06 j 22:59	18°♉25'03	
morning rise	-3170 Jun 23 j 09:11	19°♉25'08	
retrograde	-3170 Sep 23 j 16:20	22°♉44'51	
opposition	-3170 Dec 06 j 05:08	20°♉42'37	0°02'36
min. Earth dist.	-3170 Dec 07 j 04:53	20°♉40'01	17.56250 AU
direct	-3169 Feb 19 j 17:43	18°♉37'28	
evening set	-3169 May 26 j 00:14	22°♉02'30	
conjunction	-3169 Jun 11 j 19:06	23°♉04'04	0°04'21
minimum elong	-3169 Jun 11 j 19:07	23°♉04'04	0°04'26
behind sun begin	-3169 Jun 11 j 12:28	23°♉03'04	
behind sun end	-3169 Jun 12 j 01:46	23°♉05'04	
max. Earth dist.	-3169 Jun 10 j 14:48	22°♉59'42	19.53825 AU
morning rise	-3169 Jun 28 j 11:07	24°♉05'16	
retrograde	-3169 Sep 28 j 14:34	27°♉25'22	
opposition	-3169 Dec 11 j 01:30	25°♉23'07	0°06'54
min. Earth dist.	-3169 Dec 12 j 02:04	25°♉20'26	17.51527 AU
direct	-3168 Feb 24 j 17:42	23°♉17'42	
evening set	-3168 May 30 j 04:10	26°♉43'46	
conjunction	-3168 Jun 15 j 22:16	27°♉45'27	0°08'12
minimum elong	-3168 Jun 15 j 22:16	27°♉45'27	0°08'17
behind sun begin	-3168 Jun 15 j 16:19	27°♉44'33	
behind sun end	-3168 Jun 16 j 04:14	27°♉46'21	
max. Earth dist.	-3168 Jun 14 j 15:53	27°♉40'45	19.49261 AU
morning rise	-3168 Jul 02 j 13:32	28°♉46'45	
	-3168 Jul 23 j 19:19	0°♊	
retrograde	-3168 Oct 02 j 12:36	2°♊07'11	
opposition	-3168 Dec 14 j 22:26	0°♊04'54	0°11'12
min. Earth dist.	-3168 Dec 16 j 00:04	0°♊02'06	17.47147 AU
	-3168 Dec 16 j 19:20	30°℞♉	

Attention, astronomical year style is used: The year -3167 in astronomical counting style is the year 3168 BCE in historical counting style.

direct	-3167 Feb 28 j 17:33	27°♉59'11		
	-3167 May 10 j 01:26	0°♊		
evening set	-3167 Jun 04 j 08:16	1°♊26'12		
max. Earth dist.	-3167 Jun 19 j 19:49	2°♊23'20	19.45059 AU	
conjunction	-3167 Jun 21 j 01:51	2°♊27'59	0°12'01	
minimum elong	-3167 Jun 21 j 01:51	2°♊27'59	0°12'06	
behind sun begin	-3167 Jun 20 j 21:20	2°♊27'18		
behind sun end	-3167 Jun 21 j 06:21	2°♊28'40		
morning rise	-3167 Jul 07 j 16:04	3°♊29'21		
retrograde	-3167 Oct 07 j 12:04	6°♊50'03		
opposition	-3167 Dec 19 j 20:06	4°♊47'45	0°15'25	
min. Earth dist.	-3167 Dec 20 j 21:53	4°♊44'56	17.43136 AU	
direct	-3166 Mar 05 j 18:52	2°♊41'46		
evening set	-3166 Jun 09 j 12:47	6°♊09'38		
max. Earth dist.	-3166 Jun 24 j 22:06	7°♊06'37	19.41259 AU	
conjunction	-3166 Jun 26 j 05:25	7°♊11'30	0°15'45	
minimum elong	-3166 Jun 26 j 05:25	7°♊11'30	0°15'52	
morning rise	-3166 Jul 12 j 18:39	8°♊12'53		
retrograde	-3166 Oct 12 j 10:56	11°♊33'50		
opposition	-3166 Dec 24 j 18:25	9°♊31'30	0°19'34	
min. Earth dist.	-3166 Dec 25 j 21:05	9°♊28'35	17.39578 AU	
direct	-3165 Mar 10 j 19:34	7°♊25'16		
evening set	-3165 Jun 14 j 17:17	10°♊53'54		
max. Earth dist.	-3165 Jun 30 j 02:29	11°♊51'01	19.37946 AU	
conjunction	-3165 Jul 01 j 09:06	11°♊55'47	0°19'24	
minimum elong	-3165 Jul 01 j 09:06	11°♊55'47	0°19'30	
morning rise	-3165 Jul 17 j 21:12	12°♊57'12		
retrograde	-3165 Oct 17 j 11:06	16°♊18'20		
opposition	-3165 Dec 29 j 17:17	14°♊15'59	0°23'34	
min. Earth dist.	-3165 Dec 30 j 19:15	14°♊13'08	17.36525 AU	
direct	-3164 Mar 14 j 21:30	12°♊09'32		
evening set	-3164 Jun 18 j 21:47	15°♊38'48		
max. Earth dist.	-3164 Jul 04 j 05:45	16°♊35'54	19.35166 AU	
conjunction	-3164 Jul 05 j 12:35	16°♊40'43	0°22'55	
minimum elong	-3164 Jul 05 j 12:35	16°♊40'43	0°23'02	
morning rise	-3164 Jul 21 j 23:34	17°♊42'06		
retrograde	-3164 Oct 21 j 10:27	21°♊03'25		
opposition	-3163 Jan 02 j 16:48	19°♊01'02	0°27'25	
min. Earth dist.	-3163 Jan 03 j 19:21	18°♊58'08	17.34048 AU	
direct	-3163 Mar 19 j 22:49	16°♊54'25		
evening set	-3163 Jun 24 j 02:23	20°♊24'15		
max. Earth dist.	-3163 Jul 09 j 10:05	21°♊21'26	19.32991 AU	
conjunction	-3163 Jul 10 j 16:08	21°♊26'09	0°26'18	
minimum elong	-3163 Jul 10 j 16:08	21°♊26'09	0°26'24	
morning rise	-3163 Jul 27 j 01:56	22°♊27'30		
retrograde	-3163 Oct 26 j 10:50	25°♊48'55		
opposition	-3162 Jan 07 j 16:39	23°♊46'34	0°31'06	
min. Earth dist.	-3162 Jan 08 j 17:51	23°♊43'49	17.32181 AU	
direct	-3162 Mar 25 j 02:04	21°♊39'51		
evening set	-3162 Jun 29 j 06:58	25°♊10'09		
conjunction	-3162 Jul 15 j 19:36	26°♊12'01	0°29'29	
minimum elong	-3162 Jul 15 j 19:36	26°♊12'01	0°29'35	
max. Earth dist.	-3162 Jul 14 j 14:20	26°♊07'25	19.31444 AU	
morning rise	-3162 Aug 01 j 04:04	27°♊13'17		
	-3162 Sep 26 j 02:58	0°♋		
retrograde	-3162 Oct 31 j 09:58	0°♋34'48		
	-3162 Dec 06 j 10:50	30°℞♊		
opposition	-3161 Jan 12 j 17:17	28°♊32'31	0°34'33	
min. Earth dist.	-3161 Jan 13 j 18:45	28°♊29'44	17.30972 AU	
direct	-3161 Mar 30 j 04:02	26°♊25'46		
evening set	-3161 Jul 04 j 11:14	29°♊56'26		
	-3161 Jul 05 j 10:29	0°♋		
conjunction	-3161 Jul 20 j 22:37	0°♋58'12	0°32'29	
minimum elong	-3161 Jul 20 j 22:37	0°♋58'12	0°32'36	
max. Earth dist.	-3161 Jul 19 j 18:08	0°♋53'43	19.30570 AU	
morning rise	-3161 Aug 06 j 05:56	1°♋59'23		
retrograde	-3161 Nov 05 j 10:40	5°♋20'58		
opposition	-3160 Jan 17 j 18:10	3°♋18'47	0°37'47	
min. Earth dist.	-3160 Jan 18 j 17:48	3°♋16'13	17.30417 AU	
direct	-3160 Apr 03 j 08:23	1°♋12'05		
evening set	-3160 Jul 08 j 15:23	4°♋43'00		
max. Earth dist.	-3160 Jul 23 j 22:47	5°♋40'27	19.30331 AU	
conjunction	-3160 Jul 25 j 01:39	5°♋44'41	0°35'17	
minimum elong	-3160 Jul 25 j 01:39	5°♋44'41	0°35'22	
morning rise	-3160 Aug 10 j 07:34	6°♋45'45		
retrograde	-3160 Nov 09 j 09:49	10°♋07'21		
opposition	-3159 Jan 21 j 19:28	8°♋05'19	0°40'46	
min. Earth dist.	-3159 Jan 22 j 19:19	8°♋02'43	17.30489 AU	
direct	-3159 Apr 08 j 11:07	5°♋58'41		
evening set	-3159 Jul 13 j 19:25	9°♋29'46		
max. Earth dist.	-3159 Jul 29 j 01:51	10°♋27'09	19.30707 AU	
conjunction	-3159 Jul 30 j 04:18	10°♋31'20	0°37'49	
minimum elong	-3159 Jul 30 j 04:18	10°♋31'20	0°37'56	
morning rise	-3159 Aug 15 j 09:05	11°♋32'16		
retrograde	-3159 Nov 14 j 10:35	14°♋53'51		
opposition	-3158 Jan 26 j 21:09	12°♋51'57	0°43'28	
min. Earth dist.	-3158 Jan 27 j 19:07	12°♋49'34	17.31143 AU	
direct	-3158 Apr 13 j 16:10	10°♋45'28		
evening set	-3158 Jul 18 j 22:56	14°♋16'34		
max. Earth dist.	-3158 Aug 03 j 06:21	15°♋14'09	19.31627 AU	
conjunction	-3158 Aug 04 j 06:39	15°♋17'59	0°40'06	
minimum elong	-3158 Aug 04 j 06:39	15°♋17'59	0°40'13	
morning rise	-3158 Aug 20 j 09:57	16°♋18'46		
retrograde	-3158 Nov 19 j 09:48	19°♋40'17		
opposition	-3157 Jan 31 j 23:23	17°♋38'32	0°45'52	
min. Earth dist.	-3157 Feb 01 j 21:14	17°♋36'11	17.32326 AU	
direct	-3157 Apr 18 j 19:43	15°♋32'13		
evening set	-3157 Jul 24 j 02:13	19°♋03'13		
max. Earth dist.	-3157 Aug 08 j 08:29	20°♋00'39	19.33067 AU	
conjunction	-3157 Aug 09 j 08:27	20°♋04'26	0°42'07	
minimum elong	-3157 Aug 09 j 08:27	20°♋04'26	0°42'12	
morning rise	-3157 Aug 25 j 10:39	21°♋05'03		
retrograde	-3157 Nov 24 j 10:21	24°♋26'28		
opposition	-3156 Feb 06 j 01:35	22°♋24'51	0°47'57	
min. Earth dist.	-3156 Feb 06 j 21:30	22°♋22'42	17.34010 AU	
direct	-3156 Apr 23 j 00:56	20°♋18'41		
evening set	-3156 Jul 28 j 04:45	23°♋49'27		
conjunction	-3156 Aug 13 j 09:53	24°♋50'29	0°43'50	
minimum elong	-3156 Aug 13 j 09:53	24°♋50'29	0°43'56	
max. Earth dist.	-3156 Aug 12 j 12:24	24°♋47'05	19.34978 AU	
morning rise	-3156 Aug 29 j 10:41	25°♋50'55		
retrograde	-3156 Nov 28 j 09:17	29°♋12'08		
opposition	-3155 Feb 10 j 04:08	27°♋10'39	0°49'41	
min. Earth dist.	-3155 Feb 10 j 23:32	27°♋08'34	17.36137 AU	
direct	-3155 Apr 28 j 04:51	25°♋04'41		
evening set	-3155 Aug 02 j 06:57	28°♋35'05		
conjunction	-3155 Aug 18 j 10:35	29°♋35'53	0°45'14	
minimum elong	-3155 Aug 18 j 10:35	29°♋35'53	0°45'19	
max. Earth dist.	-3155 Aug 17 j 13:28	29°♋32'33	19.37328 AU	
	-3155 Aug 24 j 19:07	0°♌		
morning rise	-3155 Sep 03 j 10:20	0°♌36'07		

Attention, astronomical year style is used: The year -3155 in astronomical counting style is the year 3156 BCE in historical counting style.

retrograde	-3155 Dec 03 j 09:09	3°♌57'07	
opposition	-3154 Feb 15 j 06:34	1°♌55'44	0°51'05
min. Earth dist.	-3154 Feb 16 j 00:06	1°♌53'52	17.38701 AU
	-3154 Apr 13 j 14:26	30°℞♋	
direct	-3154 May 03 j 09:12	29°♋49'57	
	-3154 May 22 j 21:39	0°♌	
evening set	-3154 Aug 07 j 08:16	3°♌19'52	
conjunction	-3154 Aug 23 j 10:47	4°♌20'27	0°46'20
minimum elong	-3154 Aug 23 j 10:47	4°♌20'27	0°46'26
max. Earth dist.	-3154 Aug 22 j 16:28	4°♌17'33	19.40105 AU
morning rise	-3154 Sep 08 j 09:12	5°♌20'27	
retrograde	-3154 Dec 08 j 08:09	8°♌41'09	
opposition	-3153 Feb 20 j 09:07	6°♌39'53	0°52'07
min. Earth dist.	-3153 Feb 21 j 01:26	6°♌38'09	17.41679 AU
direct	-3153 May 08 j 12:51	4°♌34'19	
evening set	-3153 Aug 12 j 08:46	8°♌03'36	
conjunction	-3153 Aug 28 j 09:55	9°♌03'55	0°47'06
minimum elong	-3153 Aug 28 j 09:55	9°♌03'55	0°47'12
max. Earth dist.	-3153 Aug 27 j 16:25	9°♌01'09	19.43303 AU
morning rise	-3153 Sep 13 j 07:24	10°♌03'42	
retrograde	-3153 Dec 13 j 06:59	13°♌24'05	
opposition	-3152 Feb 25 j 11:23	11°♌22'52	0°52'48
min. Earth dist.	-3152 Feb 26 j 01:53	11°♌21'20	17.45092 AU
direct	-3152 May 12 j 15:33	9°♌17'30	
evening set	-3152 Aug 16 j 08:23	12°♌46'03	
conjunction	-3152 Sep 01 j 08:28	13°♌46'08	0°47'34
minimum elong	-3152 Sep 01 j 08:28	13°♌46'07	0°47'38
max. Earth dist.	-3152 Aug 31 j 17:55	13°♌43'50	19.46932 AU
morning rise	-3152 Sep 17 j 04:47	14°♌45'39	
	-3152 Sep 21 j 02:44	15°♌	
retrograde	-3152 Dec 17 j 05:43	18°♌05'38	
opposition	-3151 Mar 01 j 13:18	16°♌04'30	0°53'07
min. Earth dist.	-3151 Mar 02 j 01:57	16°♌03'10	17.48923 AU
	-3151 Mar 28 j 03:54	15°℞♌	
direct	-3151 May 17 j 19:13	13°♌59'22	
	-3151 Jul 05 j 14:56	15°♌	
evening set	-3151 Aug 21 j 07:14	17°♌27'05	
conjunction	-3151 Sep 06 j 06:00	18°♌26'52	0°47'42
minimum elong	-3151 Sep 06 j 06:00	18°♌26'52	0°47'46
max. Earth dist.	-3151 Sep 05 j 16:52	18°♌24'48	19.50994 AU
morning rise	-3151 Sep 22 j 01:26	19°♌26'09	
retrograde	-3151 Dec 22 j 02:51	22°♌45'43	
opposition	-3150 Mar 06 j 15:08	20°♌44'38	0°53'05
min. Earth dist.	-3150 Mar 07 j 01:55	20°♌43'30	17.53220 AU
direct	-3150 May 22 j 20:42	18°♌39'46	
evening set	-3150 Aug 26 j 04:52	22°♌06'33	
conjunction	-3150 Sep 11 j 02:37	23°♌06'03	0°47'31
minimum elong	-3150 Sep 11 j 02:37	23°♌06'03	0°47'34
max. Earth dist.	-3150 Sep 10 j 16:37	23°♌04'29	19.55524 AU
morning rise	-3150 Sep 26 j 21:03	24°♌05'03	
retrograde	-3150 Dec 27 j 01:05	27°♌24'11	
opposition	-3149 Mar 11 j 16:34	25°♌23'10	0°52'42
min. Earth dist.	-3149 Mar 12 j 00:39	25°♌22'19	17.57973 AU
direct	-3149 May 28 j 00:16	23°♌18'37	
evening set	-3149 Aug 31 j 01:46	26°♌44'24	
conjunction	-3149 Sep 15 j 22:22	27°♌43'35	0°47'02
minimum elong	-3149 Sep 15 j 22:22	27°♌43'35	0°47'06
max. Earth dist.	-3149 Sep 15 j 14:21	27°♌42'20	19.60516 AU
morning rise	-3149 Oct 01 j 16:01	28°♌42'21	
	-3149 Oct 24 j 00:59	0°♍	
retrograde	-3149 Dec 31 j 20:12	2°♍01'00	

opposition	-3148 Mar 15 j 17:29	0°♍00'05	0°51'58
	-3148 Mar 15 j 18:22	30°℞♌	
min. Earth dist.	-3148 Mar 15 j 23:51	29°♌59'25	17.63204 AU
direct	-3148 Jun 01 j 00:36	27°♌55'53	
	-3148 Aug 11 j 13:08	0°♍	
evening set	-3148 Sep 03 j 21:38	1°♍20'37	
conjunction	-3148 Sep 19 j 17:19	2°♍19'30	0°46'15
minimum elong	-3148 Sep 19 j 17:19	2°♍19'30	0°46'18
max. Earth dist.	-3148 Sep 19 j 12:06	2°♍18'42	19.65974 AU
morning rise	-3148 Oct 05 j 10:12	3°♍17'59	
retrograde	-3147 Jan 04 j 17:13	6°♍36'10	
opposition	-3147 Mar 20 j 17:59	4°♍35'23	0°50'56
min. Earth dist.	-3147 Mar 20 j 21:15	4°♍35'03	17.68855 AU
direct	-3147 Jun 06 j 03:11	2°♍31'35	
evening set	-3147 Sep 08 j 16:36	5°♍55'12	
conjunction	-3147 Sep 24 j 11:18	6°♍53'48	0°45'11
minimum elong	-3147 Sep 24 j 11:19	6°♍53'48	0°45'14
max. Earth dist.	-3147 Sep 24 j 08:24	6°♍53'20	19.71823 AU
morning rise	-3147 Oct 10 j 03:30	7°♍52'01	
retrograde	-3146 Jan 09 j 11:05	11°♍09'42	
opposition	-3146 Mar 25 j 18:12	9°♍09'05	0°49'34
min. Earth dist.	-3146 Mar 25 j 19:58	9°♍08'54	17.74887 AU
direct	-3146 Jun 11 j 01:57	7°♍05'42	
evening set	-3146 Sep 13 j 10:39	10°♍28'10	
conjunction	-3146 Sep 29 j 04:31	11°♍26'27	0°43'50
minimum elong	-3146 Sep 29 j 04:31	11°♍26'27	0°43'53
max. Earth dist.	-3146 Sep 29 j 04:03	11°♍26'22	19.78025 AU
morning rise	-3146 Oct 14 j 20:08	12°♍24'24	
retrograde	-3145 Jan 14 j 07:06	15°♍41'35	
opposition	-3145 Mar 30 j 17:45	13°♍41'07	0°47'55
min. Earth dist.	-3145 Mar 30 j 16:19	13°♍41'16	17.81219 AU
direct	-3145 Jun 16 j 02:36	11°♍38'12	
evening set	-3145 Sep 18 j 03:44	14°♍59'27	
conjunction	-3145 Oct 03 j 20:51	15°♍57'26	0°42'14
minimum elong	-3145 Oct 03 j 20:51	15°♍57'26	0°42'15
max. Earth dist.	-3145 Oct 03 j 22:50	15°♍57'45	19.84476 AU
morning rise	-3145 Oct 19 j 11:57	16°♍55'08	
retrograde	-3144 Jan 19 j 00:01	20°♍11'48	
opposition	-3144 Apr 03 j 16:53	18°♍11'30	0°45'57
min. Earth dist.	-3144 Apr 03 j 14:21	18°♍11'46	17.87772 AU
direct	-3144 Jun 19 j 23:47	16°♍09'01	
evening set	-3144 Sep 21 j 20:02	19°♍29'03	
conjunction	-3144 Oct 07 j 12:23	20°♍26'43	0°40'22
minimum elong	-3144 Oct 07 j 12:23	20°♍26'43	0°40'24
max. Earth dist.	-3144 Oct 07 j 16:13	20°♍27'18	19.91110 AU
morning rise	-3144 Oct 23 j 03:05	21°♍24'09	
retrograde	-3143 Jan 22 j 18:59	24°♍40'17	
opposition	-3143 Apr 08 j 15:14	22°♍40'08	0°43'44
min. Earth dist.	-3143 Apr 08 j 09:40	22°♍40'43	17.94456 AU
direct	-3143 Jun 24 j 22:16	20°♍38'06	
evening set	-3143 Sep 26 j 11:28	23°♍56'52	
conjunction	-3143 Oct 12 j 03:14	24°♍54'15	0°38'17
minimum elong	-3143 Oct 12 j 03:14	24°♍54'15	0°38'17
max. Earth dist.	-3143 Oct 12 j 09:31	24°♍55'12	19.97832 AU
morning rise	-3143 Oct 27 j 17:30	25°♍51'25	
retrograde	-3142 Jan 27 j 11:07	29°♍07'01	
opposition	-3142 Apr 13 j 13:18	27°♍07'00	0°41'16
min. Earth dist.	-3142 Apr 13 j 06:50	27°♍07'39	18.01207 AU
direct	-3142 Jun 29 j 18:08	25°♍05'24	
evening set	-3142 Oct 01 j 01:56	28°♍22'51	

Attention, astronomical year style is used: The year -3142 in astronomical counting style is the year 3143 BCE in historical counting style.

conjunction	-3142 Oct 16 j 17:05	29°♍19'56	0°35'58
minimum elong	-3142 Oct 16 j 17:05	29°♍19'56	0°35'57
max. Earth dist.	-3142 Oct 17 j 00:46	29°♍21'06	20.04593 AU
	-3142 Oct 27 j 15:10	0°♎	
morning rise	-3142 Nov 01 j 07:12	0°♎16'52	
retrograde	-3141 Feb 01 j 05:03	3°♎31'54	
opposition	-3141 Apr 18 j 10:29	1°♎32'00	0°38'34
min. Earth dist.	-3141 Apr 18 j 01:07	1°♎32'57	18.07952 AU
	-3141 May 30 j 21:26	30°℞♍	
direct	-3141 Jul 04 j 14:52	29°♍30'48	
	-3141 Aug 07 j 08:39	0°♎	
evening set	-3141 Oct 05 j 15:35	2°♎46'57	
conjunction	-3141 Oct 21 j 06:22	3°♎43'45	0°33'27
minimum elong	-3141 Oct 21 j 06:22	3°♎43'45	0°33'27
max. Earth dist.	-3141 Oct 21 j 16:26	3°♎45'17	20.11305 AU
morning rise	-3141 Nov 05 j 20:13	4°♎40'27	
retrograde	-3140 Feb 05 j 19:46	7°♎54'54	
opposition	-3140 Apr 22 j 06:57	5°♎55'05	0°35'39
min. Earth dist.	-3140 Apr 21 j 20:55	5°♎56'06	18.14631 AU
direct	-3140 Jul 08 j 09:17	3°♎54'16	
evening set	-3140 Oct 09 j 04:25	7°♎09'06	
conjunction	-3140 Oct 24 j 18:44	8°♎05'38	0°30'45
minimum elong	-3140 Oct 24 j 18:44	8°♎05'38	0°30'44
max. Earth dist.	-3140 Oct 25 j 05:45	8°♎07'18	20.17945 AU
morning rise	-3140 Nov 09 j 08:37	9°♎02'06	
retrograde	-3139 Feb 09 j 12:29	12°♎15'58	
opposition	-3139 Apr 27 j 02:39	10°♎16'12	0°32'33
min. Earth dist.	-3139 Apr 26 j 13:55	10°♎17'30	18.21217 AU
direct	-3139 Jul 13 j 04:15	8°♎15'45	
evening set	-3139 Oct 13 j 16:08	11°♎29'15	
conjunction	-3139 Oct 29 j 06:14	12°♎25'31	0°27'54
minimum elong	-3139 Oct 29 j 06:14	12°♎25'31	0°27'54
max. Earth dist.	-3139 Oct 29 j 19:49	12°♎27'34	20.24474 AU
morning rise	-3139 Nov 13 j 20:00	13°♎21'46	
retrograde	-3138 Feb 14 j 01:40	16°♎35'04	
opposition	-3138 May 01 j 21:45	14°♎35'19	0°29'18
min. Earth dist.	-3138 May 01 j 08:12	14°♎36'42	18.27698 AU
direct	-3138 Jul 17 j 21:10	12°♎35'13	
evening set	-3138 Oct 18 j 03:08	15°♎47'24	
conjunction	-3138 Nov 02 j 16:55	16°♎43'25	0°24'55
minimum elong	-3138 Nov 02 j 16:55	16°♎43'25	0°24'53
max. Earth dist.	-3138 Nov 03 j 07:26	16°♎45'36	20.30916 AU
morning rise	-3138 Nov 18 j 06:53	17°♎39'27	
retrograde	-3137 Feb 18 j 17:06	20°♎52'11	
opposition	-3137 May 06 j 15:46	18°♎52'27	0°25'55
min. Earth dist.	-3137 May 05 j 23:39	18°♎54'05	18.34101 AU
direct	-3137 Jul 22 j 14:15	16°♎52'40	
evening set	-3137 Oct 22 j 13:08	20°♎03'35	
conjunction	-3137 Nov 07 j 02:54	20°♎59'21	0°21'50
minimum elong	-3137 Nov 07 j 02:54	20°♎59'21	0°21'48
max. Earth dist.	-3137 Nov 07 j 20:07	21°♎01'57	20.37270 AU
morning rise	-3137 Nov 22 j 16:54	21°♎55'12	
retrograde	-3136 Feb 23 j 05:11	25°♎07'22	
opposition	-3136 May 10 j 09:06	23°♎07'40	0°22'24
min. Earth dist.	-3136 May 09 j 16:02	23°♎09'24	18.40422 AU
direct	-3136 Jul 26 j 05:08	21°♎08'14	
evening set	-3136 Oct 25 j 22:29	24°♎17'54	
conjunction	-3136 Nov 10 j 12:01	25°♎13'27	0°18'38
minimum elong	-3136 Nov 10 j 12:01	25°♎13'27	0°18'35
max. Earth dist.	-3136 Nov 11 j 06:05	25°♎16'09	20.43560 AU
morning rise	-3136 Nov 26 j 02:20	26°♎09'06	
retrograde	-3135 Feb 26 j 19:11	29°♎20'45	
min. Earth dist.	-3135 May 14 j 06:03	27°♎23'04	18.46684 AU
opposition	-3135 May 15 j 01:33	27°♎21'06	0°18'49
direct	-3135 Jul 30 j 20:33	25°♎21'59	
evening set	-3135 Oct 30 j 07:03	28°♎30'29	
conjunction	-3135 Nov 14 j 20:42	29°♎25'50	0°15'22
minimum elong	-3135 Nov 14 j 20:42	29°♎25'50	0°15'19
behind sun begin	-3135 Nov 14 j 18:24	29°♎25'30	
behind sun end	-3135 Nov 14 j 23:00	29°♎26'10	
max. Earth dist.	-3135 Nov 15 j 17:29	29°♎28'56	20.49777 AU
	-3135 Nov 24 j 10:10	0°♏	
morning rise	-3135 Nov 30 j 11:10	0°♏21'18	
retrograde	-3134 Mar 03 j 06:47	3°♏32'29	
opposition	-3134 May 19 j 17:22	1°♏32'53	0°15'09
min. Earth dist.	-3134 May 18 j 20:52	1°♏34'57	18.52860 AU
	-3134 Jul 02 j 18:01	30°℞♎	
direct	-3134 Aug 04 j 09:48	29°♎34'09	
	-3134 Sep 05 j 06:03	0°♏	
evening set	-3134 Nov 03 j 15:00	2°♏41'30	
conjunction	-3134 Nov 19 j 04:38	3°♏36'39	0°12'03
minimum elong	-3134 Nov 19 j 04:37	3°♏36'39	0°12'00
behind sun begin	-3134 Nov 19 j 00:03	3°♏35'59	
behind sun end	-3134 Nov 19 j 09:11	3°♏37'18	
max. Earth dist.	-3134 Nov 20 j 02:02	3°♏39'49	20.55906 AU
morning rise	-3134 Dec 04 j 19:37	4°♏31'59	
retrograde	-3133 Mar 07 j 19:38	7°♏42'41	
min. Earth dist.	-3133 May 23 j 09:54	5°♏45'27	18.58929 AU
opposition	-3133 May 24 j 08:23	5°♏43'11	0°11'25
direct	-3133 Aug 08 j 23:17	3°♏44'48	
evening set	-3133 Nov 07 j 22:22	6°♏51'05	
conjunction	-3133 Nov 23 j 12:16	7°♏46'03	0°08'41
minimum elong	-3133 Nov 23 j 12:16	7°♏46'03	0°08'37
behind sun begin	-3133 Nov 23 j 06:33	7°♏45'14	
behind sun end	-3133 Nov 23 j 17:59	7°♏46'53	
max. Earth dist.	-3133 Nov 24 j 12:07	7°♏49'35	20.61885 AU
morning rise	-3133 Dec 09 j 03:31	8°♏41'14	
retrograde	-3132 Mar 11 j 06:36	11°♏51'31	
opposition	-3132 May 27 j 22:35	9°♏52'06	0°07'40
min. Earth dist.	-3132 May 26 j 23:21	9°♏54'27	18.64813 AU
direct	-3132 Aug 12 j 11:21	7°♏54'06	
evening set	-3132 Nov 11 j 05:21	10°♏59'22	
conjunction	-3132 Nov 26 j 19:18	11°♏54'09	0°05'18
minimum elong	-3132 Nov 26 j 19:19	11°♏54'10	0°05'15
behind sun begin	-3132 Nov 26 j 12:59	11°♏53'15	
behind sun end	-3132 Nov 27 j 01:39	11°♏55'04	
max. Earth dist.	-3132 Nov 27 j 19:22	11°♏57'42	20.67669 AU
morning rise	-3132 Dec 12 j 11:11	12°♏49'13	
	-3131 Jan 25 j 08:06	15°♏	
retrograde	-3131 Mar 15 j 18:07	15°♏59'06	
	-3131 May 06 j 06:29	15°℞♏	
min. Earth dist.	-3131 May 31 j 11:38	14°♏02'16	18.70482 AU
opposition	-3131 Jun 01 j 12:18	13°♏59'47	0°03'52
direct	-3131 Aug 16 j 22:49	12°♏02'07	
	-3131 Nov 13 j 14:47	15°♏	
evening set	-3131 Nov 15 j 11:39	15°♏06'25	
conjunction	-3131 Dec 01 j 02:04	16°♏01'04	0°01'52
minimum elong	-3131 Dec 01 j 02:03	16°♏01'04	0°01'47
behind sun begin	-3131 Nov 30 j 19:30	16°♏00'08	
behind sun end	-3131 Dec 01 j 08:35	16°♏02'00	
max. Earth dist.	-3131 Dec 02 j 04:17	16°♏04'56	20.73188 AU
morning rise	-3131 Dec 16 j 18:18	16°♏56'00	
retrograde	-3130 Mar 20 j 04:42	20°♏05'32	

Attention, astronomical year style is used: The year -3130 in astronomical counting style is the year 3131 BCE in historical counting style.

min. Earth dist.	-3130 Jun 05 j 00:10	18°♏08'50	18.75847 AU
opposition	-3130 Jun 06 j 01:25	18°♏06'18	0°00'05
desc. node	-3130 Jun 14 j 07:21	17°♏46'35	
direct	-3130 Aug 21 j 09:55	16°♏08'58	
evening set	-3130 Nov 19 j 17:53	19°♏12'21	
conjunction	-3130 Dec 05 j 08:28	20°♏06'51	-0°01'39
minimum elong	-3130 Dec 05 j 08:28	20°♏06'51	0°01'43
behind sun begin	-3130 Dec 05 j 01:56	20°♏05'55	
behind sun end	-3130 Dec 05 j 15:00	20°♏07'47	
max. Earth dist.	-3130 Dec 06 j 10:26	20°♏10'39	20.78385 AU
morning rise	-3130 Dec 21 j 01:28	21°♏01'42	
retrograde	-3129 Mar 24 j 14:53	24°♏10'52	
min. Earth dist.	-3129 Jun 09 j 11:45	22°♏14'18	18.80867 AU
opposition	-3129 Jun 10 j 13:44	22°♏11'42	-0°03'41
direct	-3129 Aug 25 j 19:34	20°♏14'38	
evening set	-3129 Nov 23 j 23:38	23°♏17'10	
conjunction	-3129 Dec 09 j 14:46	24°♏11'34	-0°05'04
minimum elong	-3129 Dec 09 j 14:46	24°♏11'34	0°05'09
behind sun begin	-3129 Dec 09 j 08:25	24°♏10'40	
behind sun end	-3129 Dec 09 j 21:08	24°♏12'28	
max. Earth dist.	-3129 Dec 10 j 18:20	24°♏15'35	20.83188 AU
morning rise	-3129 Dec 25 j 08:14	25°♏06'19	
retrograde	-3128 Mar 28 j 00:34	28°♏15'08	
min. Earth dist.	-3128 Jun 12 j 23:15	26°♏18'39	18.85451 AU
opposition	-3128 Jun 14 j 01:31	26°♏16'02	-0°07'26
direct	-3128 Aug 29 j 05:35	24°♏19'12	
evening set	-3128 Nov 27 j 05:10	27°♏20'56	
conjunction	-3128 Dec 12 j 20:34	28°♏15'13	-0°08'24
minimum elong	-3128 Dec 12 j 20:35	28°♏15'13	0°08'30
behind sun begin	-3128 Dec 12 j 14:50	28°♏14'24	
behind sun end	-3128 Dec 13 j 02:20	28°♏16'02	
max. Earth dist.	-3128 Dec 13 j 23:26	28°♏19'08	20.87543 AU
morning rise	-3128 Dec 28 j 14:52	29°♏09'54	
	-3127 Jan 12 j 19:41	0°♐	
retrograde	-3127 Apr 01 j 10:10	2°♐18'25	
min. Earth dist.	-3127 Jun 17 j 10:13	0°♐21'58	18.89577 AU
opposition	-3127 Jun 18 j 12:48	0°♐19'19	-0°11'07
	-3127 Jun 26 j 15:09	30°℞♏	
direct	-3127 Sep 02 j 14:01	28°♏22'40	
	-3127 Nov 04 j 23:11	0°♐	
evening set	-3127 Dec 01 j 10:18	1°♐23'38	
conjunction	-3127 Dec 17 j 02:24	2°♐17'50	-0°11'41
minimum elong	-3127 Dec 17 j 02:24	2°♐17'50	0°11'46
behind sun begin	-3127 Dec 16 j 21:44	2°♐17'11	
behind sun end	-3127 Dec 17 j 07:04	2°♐18'30	
max. Earth dist.	-3127 Dec 18 j 06:35	2°♐21'55	20.91419 AU
morning rise	-3126 Jan 01 j 21:15	3°♐12'27	
retrograde	-3126 Apr 05 j 18:39	6°♐20'40	
opposition	-3126 Jun 22 j 23:23	4°♐21'32	-0°14'43
min. Earth dist.	-3126 Jun 21 j 20:37	4°♐24'12	18.93207 AU
direct	-3126 Sep 06 j 22:51	2°♐25'02	
evening set	-3126 Dec 05 j 15:15	5°♐25'17	
conjunction	-3126 Dec 21 j 07:50	6°♐19'24	-0°14'54
minimum elong	-3126 Dec 21 j 07:49	6°♐19'24	0°15'01
behind sun begin	-3126 Dec 21 j 05:17	6°♐19'03	
behind sun end	-3126 Dec 21 j 10:22	6°♐19'46	
max. Earth dist.	-3126 Dec 22 j 11:04	6°♐23'21	20.94813 AU
morning rise	-3125 Jan 06 j 03:39	7°♐13'59	
retrograde	-3125 Apr 10 j 03:57	10°♐21'54	
min. Earth dist.	-3125 Jun 26 j 06:44	8°♐25'22	18.96369 AU
opposition	-3125 Jun 27 j 09:25	8°♐22'43	-0°18'14
direct	-3125 Sep 11 j 06:12	6°♐26'17	
evening set	-3125 Dec 09 j 19:49	9°♐25'53	
conjunction	-3125 Dec 25 j 13:10	10°♐19'58	-0°18'02
minimum elong	-3125 Dec 25 j 13:09	10°♐19'58	0°18'08
max. Earth dist.	-3125 Dec 26 j 17:41	10°♐24'05	20.97738 AU
morning rise	-3124 Jan 10 j 09:37	11°♐14'30	
retrograde	-3124 Apr 13 j 11:24	14°♐22'09	
opposition	-3124 Jun 30 j 18:41	12°♐22'54	-0°21'39
min. Earth dist.	-3124 Jun 29 j 15:47	12°♐25'35	18.99076 AU
direct	-3124 Sep 14 j 14:00	10°♐26'33	
evening set	-3124 Dec 13 j 00:19	13°♐25'34	
conjunction	-3124 Dec 28 j 18:10	14°♐19'36	-0°21'04
minimum elong	-3124 Dec 28 j 18:10	14°♐19'36	0°21'11
max. Earth dist.	-3124 Dec 29 j 21:49	14°♐23'35	21.00249 AU
morning rise	-3123 Jan 13 j 15:38	15°♐14'08	
retrograde	-3123 Apr 17 j 20:07	18°♐21'34	
min. Earth dist.	-3123 Jul 04 j 00:54	16°♐24'53	19.01404 AU
opposition	-3123 Jul 05 j 03:37	16°♐22'13	-0°24'56
direct	-3123 Sep 18 j 19:54	14°♐25'54	
evening set	-3123 Dec 17 j 04:27	17°♐24'25	
conjunction	-3122 Jan 01 j 23:11	18°♐18'27	-0°23'59
minimum elong	-3122 Jan 01 j 23:11	18°♐18'27	0°24'05
max. Earth dist.	-3122 Jan 03 j 04:09	18°♐22'36	21.02383 AU
morning rise	-3122 Jan 17 j 21:22	19°♐12'58	
retrograde	-3122 Apr 22 j 03:38	22°♐20'14	
min. Earth dist.	-3122 Jul 08 j 08:59	20°♐23'31	19.03357 AU
opposition	-3122 Jul 09 j 11:59	20°♐20'49	-0°28'05
direct	-3122 Sep 23 j 02:56	18°♐24'34	
evening set	-3122 Dec 21 j 08:48	21°♐22'40	
conjunction	-3121 Jan 06 j 04:09	22°♐16'41	-0°26'47
minimum elong	-3121 Jan 06 j 04:09	22°♐16'41	0°26'53
max. Earth dist.	-3121 Jan 07 j 08:02	22°♐20'41	21.04163 AU
morning rise	-3121 Jan 22 j 03:24	23°♐11'14	
retrograde	-3121 Apr 26 j 11:52	26°♐18'22	
opposition	-3121 Jul 13 j 19:49	24°♐18'54	-0°31'06
min. Earth dist.	-3121 Jul 12 j 17:19	24°♐21'33	19.04971 AU
direct	-3121 Sep 27 j 07:25	22°♐22'41	
evening set	-3121 Dec 25 j 12:58	25°♐20'29	
conjunction	-3120 Jan 10 j 09:17	26°♐14'32	-0°29'26
minimum elong	-3120 Jan 10 j 09:17	26°♐14'32	0°29'32
max. Earth dist.	-3120 Jan 11 j 14:12	26°♐18'40	21.05594 AU
morning rise	-3120 Jan 26 j 09:17	27°♐09'06	
	-3120 Apr 03 j 22:31	0°♑	
retrograde	-3120 Apr 29 j 19:39	0°♑16'09	
	-3120 May 26 j 02:40	30°℞♐	
min. Earth dist.	-3120 Jul 16 j 00:41	28°♐19'21	19.06222 AU
opposition	-3120 Jul 17 j 03:20	28°♐16'40	-0°33'58
direct	-3120 Sep 30 j 13:41	26°♐20'31	
evening set	-3120 Dec 28 j 17:13	29°♐18'04	
	-3119 Jan 10 j 01:20	0°♑	
conjunction	-3119 Jan 13 j 14:12	0°♑12'09	-0°31'57
minimum elong	-3119 Jan 13 j 14:12	0°♑12'09	0°32'03
max. Earth dist.	-3119 Jan 14 j 17:51	0°♑16'06	21.06670 AU
morning rise	-3119 Jan 29 j 15:19	1°♑06'47	
retrograde	-3119 May 04 j 03:54	4°♑13'49	
min. Earth dist.	-3119 Jul 20 j 08:50	2°♑16'55	19.07118 AU
opposition	-3119 Jul 21 j 10:42	2°♑14'19	-0°36'40
direct	-3119 Oct 04 j 17:36	0°♑18'12	
evening set	-3118 Jan 01 j 21:38	3°♑15'37	
conjunction	-3118 Jan 17 j 19:40	4°♑09'45	-0°34'19
minimum elong	-3118 Jan 17 j 19:40	4°♑09'45	0°34'26

Attention, astronomical year style is used: The year -3118 in astronomical counting style is the year 3119 BCE in historical counting style.

max. Earth dist.	-3118 Jan 19 j 00:03	4°♉13'48	21.07370 AU
morning rise	-3118 Feb 02 j 21:36	5°♉04'27	
retrograde	-3118 May 08 j 12:06	8°♉11'30	
opposition	-3118 Jul 25 j 17:36	6°♉12'01	-0°39'11
min. Earth dist.	-3118 Jul 24 j 15:54	6°♉14'36	19.07613 AU
direct	-3118 Oct 08 j 22:58	4°♉15'57	
evening set	-3117 Jan 06 j 02:28	7°♉13'17	
conjunction	-3117 Jan 22 j 01:16	8°♉07'30	-0°36'32
minimum elong	-3117 Jan 22 j 01:16	8°♉07'30	0°36'38
max. Earth dist.	-3117 Jan 23 j 03:53	8°♉11'17	21.07661 AU
morning rise	-3117 Feb 07 j 04:22	9°♉02'17	
retrograde	-3117 May 12 j 20:43	12°♉09'24	
min. Earth dist.	-3117 Jul 29 j 00:05	10°♉12'22	19.07686 AU
opposition	-3117 Jul 30 j 00:29	10°♉09'55	-0°41'32
direct	-3117 Oct 13 j 02:57	8°♉13'51	
evening set	-3116 Jan 10 j 07:26	11°♉11'13	
conjunction	-3116 Jan 26 j 07:18	12°♉05'31	-0°38'34
minimum elong	-3116 Jan 26 j 07:18	12°♉05'31	0°38'41
max. Earth dist.	-3116 Jan 27 j 10:12	12°♉09'21	21.07494 AU
morning rise	-3116 Feb 11 j 11:10	13°♉00'24	
retrograde	-3116 May 16 j 05:17	16°♉07'37	
min. Earth dist.	-3116 Aug 01 j 07:10	14°♉10'34	19.07269 AU
opposition	-3116 Aug 02 j 07:05	14°♉08'09	-0°43'41
direct	-3116 Oct 16 j 07:39	12°♉12'05	
evening set	-3115 Jan 13 j 12:59	15°♉09'32	
conjunction	-3115 Jan 29 j 13:39	16°♉03'56	-0°40'25
minimum elong	-3115 Jan 29 j 13:39	16°♉03'56	0°40'31
max. Earth dist.	-3115 Jan 30 j 14:18	16°♉07'27	21.06830 AU
morning rise	-3115 Feb 14 j 18:40	16°♉58'56	
retrograde	-3115 May 20 j 14:18	20°♉06'18	
opposition	-3115 Aug 06 j 13:46	18°♉06'48	-0°45'38
min. Earth dist.	-3115 Aug 05 j 15:35	18°♉09'02	19.06347 AU
direct	-3115 Oct 20 j 11:54	16°♉10'40	
evening set	-3114 Jan 17 j 18:44	19°♉08'16	
conjunction	-3114 Feb 02 j 20:35	20°♉02'48	-0°42'05
minimum elong	-3114 Feb 02 j 20:35	20°♉02'48	0°42'11
max. Earth dist.	-3114 Feb 03 j 21:03	20°♉06'17	21.05630 AU
morning rise	-3114 Feb 19 j 02:27	20°♉57'56	
retrograde	-3114 May 24 j 23:34	24°♉05'26	
opposition	-3114 Aug 10 j 20:17	22°♉05'53	-0°47'21
min. Earth dist.	-3114 Aug 09 j 22:51	22°♉08'03	19.04856 AU
direct	-3114 Oct 24 j 16:57	20°♉09'39	
evening set	-3113 Jan 22 j 01:09	23°♉07'27	
conjunction	-3113 Feb 07 j 03:51	24°♉02'08	-0°43'33
minimum elong	-3113 Feb 07 j 03:51	24°♉02'08	0°43'38
max. Earth dist.	-3113 Feb 08 j 01:38	24°♉05'14	21.03861 AU
morning rise	-3113 Feb 23 j 10:53	24°♉57'24	
retrograde	-3113 May 29 j 08:22	28°♉05'04	
min. Earth dist.	-3113 Aug 14 j 07:24	26°♉07'22	19.02809 AU
opposition	-3113 Aug 15 j 02:43	26°♉05'24	-0°48'51
direct	-3113 Oct 28 j 21:12	24°♉09'01	
evening set	-3112 Jan 26 j 07:43	27°♉07'05	
conjunction	-3112 Feb 11 j 11:37	28°♉01'55	-0°44'48
minimum elong	-3112 Feb 11 j 11:37	28°♉01'55	0°44'53
max. Earth dist.	-3112 Feb 12 j 09:01	28°♉04'58	21.01544 AU
morning rise	-3112 Feb 27 j 19:29	28°♉57'19	
	-3112 Mar 18 j 11:48	0°♒	
retrograde	-3112 Jun 01 j 18:16	2°♒05'11	
opposition	-3112 Aug 18 j 09:04	0°♒05'24	-0°50'07
min. Earth dist.	-3112 Aug 17 j 14:31	0°♒07'17	19.00224 AU
	-3112 Aug 20 j 14:02	30°℞♉	
direct	-3112 Nov 01 j 03:09	28°♉08'48	
	-3111 Jan 08 j 09:10	0°♒	
evening set	-3111 Jan 29 j 14:43	1°♒07'11	
conjunction	-3111 Feb 14 j 19:30	2°♒02'11	-0°45'50
minimum elong	-3111 Feb 14 j 19:30	2°♒02'11	0°45'55
max. Earth dist.	-3111 Feb 15 j 14:19	2°♒04'51	20.98725 AU
morning rise	-3111 Mar 03 j 04:33	2°♒57'46	
retrograde	-3111 Jun 06 j 02:43	6°♒05'50	
opposition	-3111 Aug 22 j 15:32	4°♒05'53	-0°51'08
min. Earth dist.	-3111 Aug 21 j 23:10	4°♒07'33	18.97176 AU
direct	-3111 Nov 05 j 07:12	2°♒09'03	
evening set	-3110 Feb 02 j 22:13	5°♒07'48	
conjunction	-3110 Feb 19 j 04:13	6°♒03'00	-0°46'38
minimum elong	-3110 Feb 19 j 04:13	6°♒03'00	0°46'42
max. Earth dist.	-3110 Feb 19 j 22:41	6°♒05'37	20.95464 AU
morning rise	-3110 Mar 07 j 14:05	6°♒58'45	
retrograde	-3110 Jun 10 j 13:20	10°♒07'03	
opposition	-3110 Aug 26 j 21:43	8°♒06'56	-0°51'55
min. Earth dist.	-3110 Aug 26 j 06:07	8°♒08'32	18.93710 AU
direct	-3110 Nov 09 j 13:51	6°♒09'51	
evening set	-3109 Feb 07 j 06:23	9°♒09'04	
conjunction	-3109 Feb 23 j 13:16	10°♒04'27	-0°47'13
minimum elong	-3109 Feb 23 j 13:16	10°♒04'27	0°47'18
max. Earth dist.	-3109 Feb 24 j 05:03	10°♒06'42	20.91819 AU
morning rise	-3109 Mar 12 j 00:15	11°♒00'24	
retrograde	-3109 Jun 14 j 21:53	14°♒08'58	
opposition	-3109 Aug 31 j 04:13	12°♒08'42	-0°52'26
min. Earth dist.	-3109 Aug 30 j 14:49	12°♒10'04	18.89898 AU
direct	-3109 Nov 13 j 18:08	10°♒11'20	
evening set	-3108 Feb 11 j 14:50	13°♒11'06	
conjunction	-3108 Feb 27 j 22:55	14°♒06'41	-0°47'34
minimum elong	-3108 Feb 27 j 22:55	14°♒06'41	0°47'38
max. Earth dist.	-3108 Feb 28 j 14:18	14°♒08'53	20.87845 AU
	-3108 Mar 14 j 14:22	15°♒	
morning rise	-3108 Mar 15 j 10:38	15°♒02'50	
retrograde	-3108 Jun 18 j 08:46	18°♒11'43	
opposition	-3108 Sep 03 j 10:45	16°♒11'18	-0°52'42
min. Earth dist.	-3108 Sep 02 j 21:57	16°♒12'37	18.85769 AU
	-3108 Oct 04 j 09:32	15°℞♒	
direct	-3108 Nov 17 j 01:19	14°♒13'40	
	-3108 Dec 29 j 17:52	15°♒	
evening set	-3107 Feb 15 j 00:10	17°♒14'03	
conjunction	-3107 Mar 03 j 09:08	18°♒09'52	-0°47'41
minimum elong	-3107 Mar 03 j 09:08	18°♒09'52	0°47'45
max. Earth dist.	-3107 Mar 03 j 21:47	18°♒11'41	20.83585 AU
morning rise	-3107 Mar 19 j 21:56	19°♒06'13	
retrograde	-3107 Jun 22 j 18:23	22°♒15'28	
opposition	-3107 Sep 07 j 17:34	20°♒14'54	-0°52'43
min. Earth dist.	-3107 Sep 07 j 07:02	20°♒15'59	18.81382 AU
direct	-3107 Nov 21 j 06:18	18°♒16'59	
evening set	-3106 Feb 19 j 10:03	21°♒18'04	
conjunction	-3106 Mar 07 j 20:14	22°♒14'08	-0°47'34
minimum elong	-3106 Mar 07 j 20:14	22°♒14'08	0°47'38
max. Earth dist.	-3106 Mar 08 j 08:16	22°♒15'52	20.79073 AU
morning rise	-3106 Mar 24 j 09:47	23°♒10'43	
retrograde	-3106 Jun 27 j 05:51	26°♒20'20	
opposition	-3106 Sep 12 j 00:34	24°♒19'41	-0°52'28
min. Earth dist.	-3106 Sep 11 j 14:43	24°♒20'42	18.76736 AU
direct	-3106 Nov 25 j 13:51	22°♒21'30	
evening set	-3105 Feb 23 j 20:54	25°♒23'22	

Attention, astronomical year style is used: The year -3105 in astronomical counting style is the year 3106 BCE in historical counting style.

conjunction	-3105 Mar 12 j 07:55	26°♒19'40	-0°47'12
minimum elong	-3105 Mar 12 j 07:55	26°♒19'40	0°47'16
max. Earth dist.	-3105 Mar 12 j 17:03	26°♒20'59	20.74309 AU
morning rise	-3105 Mar 28 j 22:26	27°♒16'29	
	-3105 May 29 j 19:23	0°♓	
retrograde	-3105 Jul 01 j 16:44	0°♓26'32	
	-3105 Aug 03 j 20:08	30°℞♒	
opposition	-3105 Sep 16 j 07:58	28°♒25'47	-0°51'56
min. Earth dist.	-3105 Sep 16 j 00:35	28°♒26'34	18.71854 AU
direct	-3105 Nov 29 j 19:47	26°♒27'21	
evening set	-3104 Feb 28 j 08:20	29°♒30'04	
	-3104 Mar 08 j 03:12	0°♓	
conjunction	-3104 Mar 15 j 20:31	0°♓26'39	-0°46'36
minimum elong	-3104 Mar 15 j 20:31	0°♓26'39	0°46'40
max. Earth dist.	-3104 Mar 16 j 04:49	0°♓27'51	20.69314 AU
morning rise	-3104 Apr 01 j 11:41	1°♓23'41	
retrograde	-3104 Jul 05 j 05:15	4°♓34'12	
opposition	-3104 Sep 19 j 15:41	2°♓33'24	-0°51'09
min. Earth dist.	-3104 Sep 19 j 09:07	2°♓34'05	18.66726 AU
direct	-3104 Dec 03 j 03:50	0°♓34'43	
evening set	-3103 Mar 03 j 20:47	3°♓38'20	
conjunction	-3103 Mar 20 j 09:46	4°♓35'12	-0°45'46
minimum elong	-3103 Mar 20 j 09:46	4°♓35'12	0°45'48
max. Earth dist.	-3103 Mar 20 j 15:00	4°♓35'57	20.64060 AU
morning rise	-3103 Apr 06 j 01:51	5°♓32'29	
retrograde	-3103 Jul 09 j 17:22	8°♓43'31	
opposition	-3103 Sep 24 j 00:01	6°♓42'38	-0°50'05
min. Earth dist.	-3103 Sep 23 j 20:16	6°♓43'02	18.61336 AU
direct	-3103 Dec 07 j 11:10	4°♓43'40	
evening set	-3102 Mar 08 j 10:10	7°♓48'17	
conjunction	-3102 Mar 25 j 00:15	8°♓45'26	-0°44'40
minimum elong	-3102 Mar 25 j 00:15	8°♓45'26	0°44'43
max. Earth dist.	-3102 Mar 25 j 04:09	8°♓46'00	20.58528 AU
morning rise	-3102 Apr 10 j 16:54	9°♓42'58	
retrograde	-3102 Jul 14 j 07:07	12°♓54'30	
opposition	-3102 Sep 28 j 08:34	10°♓53'34	-0°48'45
min. Earth dist.	-3102 Sep 28 j 05:59	10°♓53'50	18.55645 AU
direct	-3102 Dec 11 j 20:34	8°♓54'18	
evening set	-3101 Mar 13 j 00:40	11°♓59'57	
conjunction	-3101 Mar 29 j 15:28	12°♓57'23	-0°43'20
minimum elong	-3101 Mar 29 j 15:28	12°♓57'23	0°43'21
max. Earth dist.	-3101 Mar 29 j 15:59	12°♓57'27	20.52682 AU
morning rise	-3101 Apr 15 j 08:51	13°♓55'11	
retrograde	-3101 Jul 18 j 20:05	17°♓07'14	
opposition	-3101 Oct 02 j 17:57	15°♓06'12	-0°47'09
min. Earth dist.	-3101 Oct 02 j 18:24	15°♓06'09	18.49647 AU
direct	-3101 Dec 16 j 05:24	13°♓06'36	
evening set	-3100 Mar 16 j 15:42	16°♓13'18	
conjunction	-3100 Apr 02 j 07:29	17°♓11'02	-0°41'44
minimum elong	-3100 Apr 02 j 07:29	17°♓11'02	0°41'46
max. Earth dist.	-3100 Apr 02 j 06:24	17°♓10'53	20.46536 AU
morning rise	-3100 Apr 19 j 01:21	18°♓09'06	
retrograde	-3100 Jul 22 j 10:56	21°♓21'41	
opposition	-3100 Oct 06 j 03:42	19°♓20'32	-0°45'16
min. Earth dist.	-3100 Oct 06 j 05:15	19°♓20'22	18.43348 AU
direct	-3100 Dec 19 j 16:46	17°♓20'33	
evening set	-3099 Mar 21 j 07:55	20°♓28'21	
conjunction	-3099 Apr 07 j 00:23	21°♓26'23	-0°39'54
minimum elong	-3099 Apr 07 j 00:23	21°♓26'23	0°39'56
max. Earth dist.	-3099 Apr 06 j 20:02	21°♓25'45	20.40105 AU
morning rise	-3099 Apr 23 j 18:51	22°♓24'43	
retrograde	-3099 Jul 27 j 00:24	25°♓37'48	
opposition	-3099 Oct 10 j 14:00	23°♓36'31	-0°43'07
min. Earth dist.	-3099 Oct 10 j 18:39	23°♓36'02	18.36800 AU
direct	-3099 Dec 24 j 02:53	21°♓36'07	
evening set	-3098 Mar 26 j 00:54	24°♓45'04	
conjunction	-3098 Apr 11 j 18:15	25°♓43'24	-0°37'51
minimum elong	-3098 Apr 11 j 18:15	25°♓43'24	0°37'51
max. Earth dist.	-3098 Apr 11 j 12:07	25°♓42'31	20.33462 AU
morning rise	-3098 Apr 28 j 13:06	26°♓41'59	
retrograde	-3098 Jul 31 j 16:28	29°♓55'36	
opposition	-3098 Oct 15 j 00:45	27°♓54'09	-0°40'43
min. Earth dist.	-3098 Oct 15 j 06:25	27°♓53'33	18.30063 AU
direct	-3098 Dec 28 j 16:12	25°♓53'20	
evening set	-3097 Mar 30 j 18:46	29°♓03'27	
	-3097 Apr 15 j 22:30	0°♈	
conjunction	-3097 Apr 16 j 12:40	0°♈02'05	-0°35'33
minimum elong	-3097 Apr 16 j 12:40	0°♈02'05	0°35'34
max. Earth dist.	-3097 Apr 16 j 03:41	0°♈00'46	20.26654 AU
morning rise	-3097 May 03 j 07:53	1°♈00'55	
retrograde	-3097 Aug 05 j 06:41	4°♈15'03	
opposition	-3097 Oct 19 j 12:10	2°♈13'27	-0°38'04
min. Earth dist.	-3097 Oct 19 j 20:41	2°♈12'33	18.23215 AU
direct	-3096 Jan 02 j 03:36	0°♈12'11	
evening set	-3096 Apr 03 j 13:22	3°♈23'30	
conjunction	-3096 Apr 20 j 07:57	4°♈22'26	-0°33'03
minimum elong	-3096 Apr 20 j 07:57	4°♈22'26	0°33'03
max. Earth dist.	-3096 Apr 19 j 21:15	4°♈20'51	20.19788 AU
morning rise	-3096 May 07 j 03:26	5°♈21'32	
retrograde	-3096 Aug 08 j 23:56	8°♈36'11	
opposition	-3096 Oct 22 j 24:00	6°♈34'26	-0°35'12
min. Earth dist.	-3096 Oct 23 j 09:17	6°♈33'26	18.16339 AU
direct	-3095 Jan 05 j 18:06	4°♈32'43	
evening set	-3095 Apr 08 j 08:53	7°♈45'15	
conjunction	-3095 Apr 25 j 03:57	8°♈44'29	-0°30'21
minimum elong	-3095 Apr 25 j 03:57	8°♈44'29	0°30'20
max. Earth dist.	-3095 Apr 24 j 14:55	8°♈42'34	20.12913 AU
morning rise	-3095 May 11 j 23:38	9°♈43'50	
retrograde	-3095 Aug 13 j 15:52	12°♈59'01	
opposition	-3095 Oct 27 j 12:40	10°♈57'08	-0°32'06
min. Earth dist.	-3095 Oct 28 j 00:35	10°♈55'51	18.09495 AU
direct	-3094 Jan 10 j 07:03	8°♈54'59	
evening set	-3094 Apr 13 j 05:18	12°♈08'47	
max. Earth dist.	-3094 Apr 29 j 09:56	13°♈06'05	20.06114 AU
conjunction	-3094 Apr 30 j 00:48	13°♈08'17	-0°27'27
minimum elong	-3094 Apr 30 j 00:48	13°♈08'17	0°27'25
morning rise	-3094 May 16 j 20:37	14°♈07'54	
retrograde	-3094 Aug 18 j 10:14	17°♈23'37	
opposition	-3094 Nov 01 j 01:47	15°♈21'36	-0°28'47
min. Earth dist.	-3094 Nov 01 j 14:19	15°♈20'15	18.02751 AU
direct	-3093 Jan 14 j 22:44	13°♈19'02	
evening set	-3093 Apr 18 j 02:37	16°♈34'07	
conjunction	-3093 May 04 j 22:27	17°♈33'55	-0°24'22
minimum elong	-3093 May 04 j 22:27	17°♈33'55	0°24'20
max. Earth dist.	-3093 May 04 j 05:48	17°♈31'26	19.99434 AU
morning rise	-3093 May 21 j 18:10	18°♈33'45	
retrograde	-3093 Aug 23 j 03:51	21°♈50'01	
opposition	-3093 Nov 05 j 15:55	19°♈47'55	-0°25'17
min. Earth dist.	-3093 Nov 06 j 06:43	19°♈46'19	17.96165 AU
direct	-3092 Jan 19 j 12:57	17°♈44'58	
evening set	-3092 Apr 22 j 00:35	21°♈01'20	

Attention, astronomical year style is used: The year -3092 in astronomical counting style is the year 3093 BCE in historical counting style.

conjunction	-3092 May 08 j 20:39	22°♈01'24	-0°21'08
minimum elong	-3092 May 08 j 20:39	22°♈01'25	0°21'06
max. Earth dist.	-3092 May 08 j 02:07	21°♈58'38	19.92952 AU
morning rise	-3092 May 25 j 16:24	23°♈01'29	
retrograde	-3092 Aug 26 j 23:39	26°♈18'18	
opposition	-3092 Nov 09 j 06:37	24°♈16'08	-0°21'36
min. Earth dist.	-3092 Nov 09 j 21:56	24°♈14'29	17.89784 AU
direct	-3091 Jan 23 j 06:15	22°♈12'50	
evening set	-3091 Apr 26 j 23:41	25°♈30'31	
conjunction	-3091 May 13 j 19:58	26°♈30'52	-0°17'44
minimum elong	-3091 May 13 j 19:58	26°♈30'52	0°17'42
max. Earth dist.	-3091 May 13 j 00:09	26°♈27'53	19.86670 AU
morning rise	-3091 May 30 j 15:24	27°♈31'09	
	-3091 Jul 19 j 16:43	0°♉	
retrograde	-3091 Aug 31 j 18:32	0°♉48'30	
	-3091 Oct 14 j 11:43	30°℞♈	
opposition	-3091 Nov 13 j 22:09	28°♈46'20	-0°17'46
min. Earth dist.	-3091 Nov 14 j 15:42	28°♈44'26	17.83615 AU
direct	-3090 Jan 27 j 22:04	26°♈42'43	
evening set	-3090 May 01 j 23:44	0°♉01'42	
	-3090 May 01 j 12:10	0°♉	
conjunction	-3090 May 18 j 19:58	1°♉02'18	-0°14'13
minimum elong	-3090 May 18 j 19:58	1°♉02'18	0°14'10
behind sun begin	-3090 May 18 j 16:56	1°♉01'51	
behind sun end	-3090 May 18 j 23:01	1°♉02'45	
max. Earth dist.	-3090 May 17 j 21:54	0°♉58'58	19.80617 AU
morning rise	-3090 Jun 04 j 15:14	2°♉02'48	
retrograde	-3090 Sep 05 j 15:21	5°♉20'42	
opposition	-3090 Nov 18 j 14:29	3°♉18'30	-0°13'46
min. Earth dist.	-3090 Nov 19 j 08:44	3°♉16'31	17.77670 AU
direct	-3089 Feb 01 j 17:19	1°♉14'35	
evening set	-3089 May 07 j 00:27	4°♉34'52	
conjunction	-3089 May 23 j 20:41	5°♉35'42	-0°10'35
minimum elong	-3089 May 23 j 20:41	5°♉35'42	0°10'31
behind sun begin	-3089 May 23 j 15:28	5°♉34'56	
behind sun end	-3089 May 24 j 01:55	5°♉36'29	
max. Earth dist.	-3089 May 22 j 21:46	5°♉32'14	19.74763 AU
morning rise	-3089 Jun 09 j 15:22	6°♉36'23	
retrograde	-3089 Sep 10 j 11:23	9°♉54'48	
opposition	-3089 Nov 23 j 07:48	7°♉52'37	-0°09'40
min. Earth dist.	-3089 Nov 24 j 04:03	7°♉50'24	17.71923 AU
direct	-3088 Feb 06 j 11:24	5°♉48'23	
evening set	-3088 May 11 j 02:07	9°♉09'56	
conjunction	-3088 May 27 j 22:03	10°♉10'59	-0°06'51
minimum elong	-3088 May 27 j 22:04	10°♉10'59	0°06'47
behind sun begin	-3088 May 27 j 15:45	10°♉10'03	
behind sun end	-3088 May 28 j 04:22	10°♉11'56	
max. Earth dist.	-3088 May 26 j 20:37	10°♉07'07	19.69120 AU
morning rise	-3088 Jun 13 j 16:24	11°♉11'50	
retrograde	-3088 Sep 14 j 08:47	14°♉30'45	
opposition	-3088 Nov 27 j 01:43	12°♉28'32	-0°05'28
min. Earth dist.	-3088 Nov 27 j 22:50	12°♉26'14	17.66389 AU
direct	-3087 Feb 10 j 08:59	10°♉23'59	
evening set	-3087 May 16 j 04:26	13°♉46'45	
max. Earth dist.	-3087 May 31 j 22:16	14°♉44'02	19.63675 AU
conjunction	-3087 Jun 02 j 00:16	14°♉48'00	-0°03'03
minimum elong	-3087 Jun 02 j 00:16	14°♉48'00	0°02'59
behind sun begin	-3087 Jun 01 j 17:30	14°♉47'00	
behind sun end	-3087 Jun 02 j 07:01	14°♉49'01	
	-3087 Jun 05 j 06:37	15°♉	
morning rise	-3087 Jun 18 j 17:50	15°♉49'00	
retrograde	-3087 Sep 19 j 05:41	19°♉08'21	

opposition	-3087 Dec 01 j 20:40	17°♉06'07	-0°01'12
min. Earth dist.	-3087 Dec 02 j 19:26	17°♉03'38	17.61052 AU
direct	-3086 Feb 15 j 05:31	15°♉01'16	
asc. node	-3086 Mar 15 j 08:29	15°♉22'05	
evening set	-3086 May 21 j 07:30	18°♉25'11	
max. Earth dist.	-3086 Jun 05 j 22:15	19°♉22'14	19.58455 AU
conjunction	-3086 Jun 07 j 02:46	19°♉26'36	0°00'54
minimum elong	-3086 Jun 07 j 02:45	19°♉26'36	0°00'59
behind sun begin	-3086 Jun 06 j 19:58	19°♉25'35	
behind sun end	-3086 Jun 07 j 09:31	19°♉27'37	
morning rise	-3086 Jun 23 j 19:45	20°♉27'43	
retrograde	-3086 Sep 24 j 03:42	23°♉47'29	
opposition	-3086 Dec 06 j 16:15	21°♉45'12	0°03'06
min. Earth dist.	-3086 Dec 07 j 15:54	21°♉42'37	17.55969 AU
direct	-3085 Feb 20 j 05:09	19°♉40'02	
evening set	-3085 May 26 j 10:53	23°♉05'02	
max. Earth dist.	-3085 Jun 11 j 01:22	24°♉02'14	19.53506 AU
conjunction	-3085 Jun 12 j 05:49	24°♉06'37	0°04'48
minimum elong	-3085 Jun 12 j 05:48	24°♉06'37	0°04'52
behind sun begin	-3085 Jun 11 j 23:12	24°♉05'37	
behind sun end	-3085 Jun 12 j 12:24	24°♉07'36	
morning rise	-3085 Jun 28 j 21:52	25°♉07'50	
retrograde	-3085 Sep 29 j 01:34	28°♉27'57	
opposition	-3085 Dec 11 j 12:37	26°♉25'38	0°07'24
min. Earth dist.	-3085 Dec 12 j 13:14	26°♉22'57	17.51178 AU
direct	-3084 Feb 25 j 03:59	24°♉20'10	
evening set	-3084 May 30 j 14:43	27°♉46'10	
max. Earth dist.	-3084 Jun 15 j 02:28	28°♉43'10	19.48891 AU
conjunction	-3084 Jun 16 j 08:55	28°♉47'52	0°08'38
minimum elong	-3084 Jun 16 j 08:54	28°♉47'52	0°08'43
behind sun begin	-3084 Jun 16 j 03:04	28°♉46'59	
behind sun end	-3084 Jun 16 j 14:44	28°♉48'45	
morning rise	-3084 Jul 03 j 00:16	29°♉49'11	
	-3084 Jul 06 j 00:17	0°♊	
retrograde	-3084 Oct 02 j 23:55	3°♊09'37	
opposition	-3084 Dec 15 j 09:38	1°♊07'15	0°11'40
min. Earth dist.	-3084 Dec 16 j 11:03	1°♊04'29	17.46758 AU
	-3083 Jan 11 j 11:13	30°℞♉	
direct	-3083 Mar 01 j 04:36	29°♉01'28	
	-3083 Apr 17 j 22:15	0°♊	
evening set	-3083 Jun 04 j 18:53	2°♊28'26	
max. Earth dist.	-3083 Jun 20 j 06:36	3°♊25'36	19.44666 AU
conjunction	-3083 Jun 21 j 12:31	3°♊30'14	0°12'25
minimum elong	-3083 Jun 21 j 12:31	3°♊30'14	0°12'31
behind sun begin	-3083 Jun 21 j 08:14	3°♊29'35	
behind sun end	-3083 Jun 21 j 16:48	3°♊30'53	
morning rise	-3083 Jul 08 j 02:48	4°♊31'36	
retrograde	-3083 Oct 07 j 22:57	7°♊52'18	
opposition	-3083 Dec 20 j 07:13	5°♊49'55	0°15'52
min. Earth dist.	-3083 Dec 21 j 08:55	5°♊47'06	17.42749 AU
direct	-3082 Mar 06 j 05:32	3°♊43'52	
evening set	-3082 Jun 09 j 23:24	7°♊11'41	
max. Earth dist.	-3082 Jun 25 j 08:55	8°♊08'42	19.40895 AU
conjunction	-3082 Jun 26 j 16:05	8°♊13'33	0°16'08
minimum elong	-3082 Jun 26 j 16:05	8°♊13'33	0°16'13
morning rise	-3082 Jul 13 j 05:26	9°♊14'57	
retrograde	-3082 Oct 12 j 21:31	12°♊35'54	
opposition	-3082 Dec 25 j 05:35	10°♊33'29	0°19'58
min. Earth dist.	-3082 Dec 26 j 07:52	10°♊30'37	17.39246 AU
direct	-3081 Mar 11 j 06:33	8°♊27'11	
evening set	-3081 Jun 15 j 03:43	11°♊55'46	

Attention, astronomical year style is used: The year -3081 in astronomical counting style is the year 3082 BCE in historical counting style.

conjunction	-3081 Jul	01 j 19:37	12°♊57'41	0°19'45
minimum elong	-3081 Jul	01 j 19:37	12°♊57'41	0°19'51
max. Earth dist.	-3081 Jun	30 j 13:29	12°♊52'59	19.37657 AU
morning rise	-3081 Jul	18 j 07:48	13°♊59'05	
retrograde	-3081 Oct	17 j 22:00	17°♊20'15	
opposition	-3081 Dec	30 j 04:28	15°♊17'50	0°23'56
min. Earth dist.	-3081 Dec	31 j 06:07	15°♊15'02	17.36289 AU
direct	-3080 Mar	15 j 08:55	13°♊11'22	
evening set	-3080 Jun	19 j 08:22	16°♊40'37	
conjunction	-3080 Jul	05 j 23:12	17°♊42'32	0°23'14
minimum elong	-3080 Jul	05 j 23:12	17°♊42'32	0°23'20
max. Earth dist.	-3080 Jul	04 j 16:43	17°♊37'46	19.34994 AU
morning rise	-3080 Jul	22 j 10:16	18°♊43'56	
retrograde	-3080 Oct	21 j 20:39	22°♊05'16	
opposition	-3079 Jan	03 j 03:50	20°♊02'53	0°27'46
min. Earth dist.	-3079 Jan	04 j 05:57	20°♊00'01	17.33949 AU
direct	-3079 Mar	20 j 09:47	17°♊56'16	
evening set	-3079 Jun	24 j 13:00	21°♊26'07	
max. Earth dist.	-3079 Jul	09 j 21:21	22°♊23'24	19.32970 AU
conjunction	-3079 Jul	11 j 02:50	22°♊28'02	0°26'35
minimum elong	-3079 Jul	11 j 02:50	22°♊28'02	0°26'40
morning rise	-3079 Jul	27 j 12:42	23°♊29'23	
retrograde	-3079 Oct	26 j 22:20	26°♊50'52	
opposition	-3078 Jan	08 j 03:49	24°♊48'33	0°31'24
min. Earth dist.	-3078 Jan	09 j 04:39	24°♊45'50	17.32237 AU
direct	-3078 Mar	25 j 12:59	22°♊41'53	
evening set	-3078 Jun	29 j 17:33	26°♊12'13	
max. Earth dist.	-3078 Jul	15 j 01:20	27°♊09'33	19.31577 AU
conjunction	-3078 Jul	16 j 06:14	27°♊14'06	0°29'45
minimum elong	-3078 Jul	16 j 06:14	27°♊14'06	0°29'51
morning rise	-3078 Aug	01 j 14:48	28°♊15'23	
	-3078 Sep	01 j 12:28	0°♋	
retrograde	-3078 Oct	31 j 21:15	1°♋36'59	
	-3077 Jan	03 j 11:02	30°℞♊	
opposition	-3077 Jan	13 j 04:25	29°♊34'46	0°34'50
min. Earth dist.	-3077 Jan	14 j 05:33	29°♊32'02	17.31172 AU
direct	-3077 Mar	30 j 14:27	27°♊28'07	
	-3077 Jun	18 j 08:38	0°♋	
evening set	-3077 Jul	04 j 22:01	0°♋58'51	
max. Earth dist.	-3077 Jul	20 j 05:28	1°♋56'13	19.30831 AU
conjunction	-3077 Jul	21 j 09:30	2°♋00'38	0°32'43
minimum elong	-3077 Jul	21 j 09:30	2°♋00'38	0°32'49
morning rise	-3077 Aug	06 j 16:54	3°♋01'51	
retrograde	-3077 Nov	05 j 22:56	6°♋23'30	
opposition	-3076 Jan	18 j 05:16	4°♋21'26	0°38'02
min. Earth dist.	-3076 Jan	19 j 04:46	4°♋18'52	17.30723 AU
direct	-3076 Apr	03 j 18:37	2°♋14'50	
evening set	-3076 Jul	09 j 02:17	5°♋45'50	
max. Earth dist.	-3076 Jul	24 j 09:51	6°♋43'19	19.30670 AU
conjunction	-3076 Jul	25 j 12:38	6°♋47'32	0°35'28
minimum elong	-3076 Jul	25 j 12:38	6°♋47'32	0°35'35
morning rise	-3076 Aug	10 j 18:39	7°♋48'38	
retrograde	-3076 Nov	09 j 21:43	11°♋10'19	
opposition	-3075 Jan	22 j 06:47	9°♋08'23	0°40'58
min. Earth dist.	-3075 Jan	23 j 06:36	9°♋05'47	17.30845 AU
direct	-3075 Apr	08 j 21:05	7°♋01'52	
evening set	-3075 Jul	14 j 06:25	10°♋33'02	
conjunction	-3075 Jul	30 j 15:23	11°♋34'36	0°37'59
minimum elong	-3075 Jul	30 j 15:23	11°♋34'35	0°38'05
max. Earth dist.	-3075 Jul	29 j 13:06	11°♋30'26	19.31062 AU
morning rise	-3075 Aug	15 j 20:14	12°♋35'33	
retrograde	-3075 Nov	14 j 22:59	15°♋57'12	
opposition	-3074 Jan	27 j 08:30	13°♋55'24	0°43'37
min. Earth dist.	-3074 Jan	28 j 06:31	13°♋53'01	17.31489 AU
direct	-3074 Apr	14 j 02:53	11°♋49'01	
evening set	-3074 Jul	19 j 10:08	15°♋20'10	
conjunction	-3074 Aug	04 j 17:55	16°♋21'35	0°40'13
minimum elong	-3074 Aug	04 j 17:55	16°♋21'35	0°40'19
max. Earth dist.	-3074 Aug	03 j 17:31	16°♋17'44	19.31952 AU
morning rise	-3074 Aug	20 j 21:18	17°♋22'23	
retrograde	-3074 Nov	19 j 21:27	20°♋43'57	
opposition	-3073 Feb	01 j 10:47	18°♋42'16	0°45'58
min. Earth dist.	-3073 Feb	02 j 08:48	18°♋39'53	17.32624 AU
direct	-3073 Apr	19 j 06:32	16°♋36'00	
evening set	-3073 Jul	24 j 13:20	20°♋07'01	
conjunction	-3073 Aug	09 j 19:40	21°♋08'15	0°42'11
minimum elong	-3073 Aug	09 j 19:40	21°♋08'15	0°42'17
max. Earth dist.	-3073 Aug	08 j 19:38	21°♋04'27	19.33325 AU
morning rise	-3073 Aug	25 j 21:58	22°♋08'53	
retrograde	-3073 Nov	24 j 21:58	25°♋30'18	
opposition	-3072 Feb	06 j 12:59	23°♋28'43	0°48'00
min. Earth dist.	-3072 Feb	07 j 09:03	23°♋26'33	17.34221 AU
direct	-3072 Apr	23 j 12:19	21°♋22'35	
evening set	-3072 Jul	28 j 15:59	24°♋53'20	
conjunction	-3072 Aug	13 j 21:11	25°♋54'22	0°43'51
minimum elong	-3072 Aug	13 j 21:11	25°♋54'22	0°43'56
max. Earth dist.	-3072 Aug	12 j 23:29	25°♋50'56	19.35139 AU
morning rise	-3072 Aug	29 j 22:04	26°♋54'47	
	-3072 Nov	05 j 01:52	0°♌	
retrograde	-3072 Nov	28 j 20:24	0°♌15'59	
	-3072 Dec	23 j 03:19	30°℞♋	
opposition	-3071 Feb	10 j 15:21	28°♋14'30	0°49'41
min. Earth dist.	-3071 Feb	11 j 11:03	28°♋12'23	17.36249 AU
direct	-3071 Apr	28 j 16:05	26°♋08'31	
evening set	-3071 Aug	02 j 18:10	29°♋38'52	
	-3071 Aug	08 j 10:12	0°♌	
conjunction	-3071 Aug	18 j 21:54	0°♌39'41	0°45'13
minimum elong	-3071 Aug	18 j 21:54	0°♌39'41	0°45'18
max. Earth dist.	-3071 Aug	18 j 00:36	0°♌36'19	19.37396 AU
morning rise	-3071 Sep	03 j 21:44	1°♌39'54	
retrograde	-3071 Dec	03 j 20:21	5°♌00'50	
opposition	-3070 Feb	15 j 17:43	2°♌59'25	0°51'01
min. Earth dist.	-3070 Feb	16 j 11:21	2°♌57'32	17.38725 AU
direct	-3070 May	03 j 20:47	0°♌53'34	
evening set	-3070 Aug	07 j 19:16	4°♌23'23	
conjunction	-3070 Aug	23 j 21:53	5°♌23'58	0°46'15
minimum elong	-3070 Aug	23 j 21:53	5°♌23'58	0°46'20
max. Earth dist.	-3070 Aug	23 j 03:29	5°♌21'04	19.40094 AU
morning rise	-3070 Sep	08 j 20:24	6°♌23'58	
retrograde	-3070 Dec	08 j 18:35	9°♌44'34	
opposition	-3069 Feb	20 j 20:06	7°♌43'13	0°52'00
min. Earth dist.	-3069 Feb	21 j 12:39	7°♌41'27	17.41639 AU
direct	-3069 May	09 j 00:03	5°♌37'33	
evening set	-3069 Aug	12 j 19:46	9°♌06'43	
conjunction	-3069 Aug	28 j 21:00	10°♌07'02	0°46'59
minimum elong	-3069 Aug	28 j 21:00	10°♌07'02	0°47'04
max. Earth dist.	-3069 Aug	28 j 03:26	10°♌04'16	19.43246 AU
morning rise	-3069 Sep	13 j 18:34	11°♌06'48	
retrograde	-3069 Dec	13 j 17:40	14°♌27'02	
opposition	-3068 Feb	25 j 22:02	12°♌25'43	0°52'38
min. Earth dist.	-3068 Feb	26 j 12:32	12°♌24'11	17.45029 AU
direct	-3068 May	13 j 03:25	10°♌20'13	

Attention, astronomical year style is used: The year -3068 in astronomical counting style is the year 3069 BCE in historical counting style.

evening set	-3068 Aug 16 j 19:14	13°♌48'39	
conjunction	-3068 Sep 01 j 19:25	14°♌48'42	0°47'23
minimum elong	-3068 Sep 01 j 19:25	14°♌48'42	0°47'28
max. Earth dist.	-3068 Sep 01 j 05:00	14°♌46'26	19.46874 AU
	-3068 Sep 04 j 19:02	15°♌	
morning rise	-3068 Sep 17 j 15:49	15°♌48'13	
retrograde	-3068 Dec 17 j 15:18	19°♌08'03	
opposition	-3067 Mar 01 j 23:57	17°♌06'48	0°52'54
min. Earth dist.	-3067 Mar 02 j 12:38	17°♌05'27	17.48887 AU
direct	-3067 May 18 j 06:14	15°♌01'32	
evening set	-3067 Aug 21 j 17:53	18°♌29'07	
conjunction	-3067 Sep 06 j 16:44	19°♌28'53	0°47'29
minimum elong	-3067 Sep 06 j 16:44	19°♌28'53	0°47'32
max. Earth dist.	-3067 Sep 06 j 03:42	19°♌26'50	19.50985 AU
morning rise	-3067 Sep 22 j 12:14	20°♌28'08	
retrograde	-3067 Dec 22 j 13:11	23°♌47'34	
opposition	-3066 Mar 07 j 01:36	21°♌46'22	0°52'49
min. Earth dist.	-3066 Mar 07 j 12:06	21°♌45'15	17.53256 AU
direct	-3066 May 23 j 08:33	19°♌41'23	
evening set	-3066 Aug 26 j 15:32	23°♌08'03	
conjunction	-3066 Sep 11 j 13:23	24°♌07'32	0°47'16
minimum elong	-3066 Sep 11 j 13:23	24°♌07'32	0°47'20
max. Earth dist.	-3066 Sep 11 j 03:36	24°♌05'59	19.55610 AU
morning rise	-3066 Sep 27 j 07:52	25°♌06'31	
retrograde	-3066 Dec 27 j 10:04	28°♌25'30	
opposition	-3065 Mar 12 j 02:50	26°♌24'25	0°52'24
min. Earth dist.	-3065 Mar 12 j 10:47	26°♌23'35	17.58118 AU
direct	-3065 May 28 j 10:39	24°♌19'47	
evening set	-3065 Aug 31 j 12:16	27°♌45'28	
conjunction	-3065 Sep 16 j 08:58	28°♌44'39	0°46'45
minimum elong	-3065 Sep 16 j 08:58	28°♌44'39	0°46'48
max. Earth dist.	-3065 Sep 16 j 00:56	28°♌43'23	19.60717 AU
morning rise	-3065 Oct 02 j 02:44	29°♌43'23	
	-3065 Oct 06 j 16:18	0°♍	
retrograde	-3064 Jan 01 j 06:46	3°♍01'55	
opposition	-3064 Mar 16 j 03:42	1°♍00'59	0°51'39
min. Earth dist.	-3064 Mar 16 j 09:46	1°♍00'20	17.63454 AU
	-3064 Apr 10 j 09:55	30°℞♌	
direct	-3064 Jun 01 j 11:16	28°♌56'43	
	-3064 Jul 21 j 11:53	0°♍	
evening set	-3064 Sep 04 j 08:05	2°♍21'23	
conjunction	-3064 Sep 20 j 03:52	3°♍20'16	0°45'56
minimum elong	-3064 Sep 20 j 03:52	3°♍20'16	0°45'59
max. Earth dist.	-3064 Sep 19 j 22:47	3°♍19'28	19.66269 AU
morning rise	-3064 Oct 05 j 20:48	4°♍18'45	
retrograde	-3063 Jan 05 j 02:58	7°♍36'49	
opposition	-3063 Mar 21 j 04:04	5°♍36'03	0°50'34
min. Earth dist.	-3063 Mar 21 j 07:18	5°♍35'42	17.69182 AU
direct	-3063 Jun 06 j 12:36	3°♍32'14	
evening set	-3063 Sep 09 j 03:05	6°♍55'48	
conjunction	-3063 Sep 24 j 21:52	7°♍54'23	0°44'51
minimum elong	-3063 Sep 24 j 21:52	7°♍54'23	0°44'53
max. Earth dist.	-3063 Sep 24 j 18:48	7°♍53'54	19.72180 AU
morning rise	-3063 Oct 10 j 14:09	8°♍52'36	
retrograde	-3062 Jan 09 j 22:10	12°♍10'13	
opposition	-3062 Mar 26 j 04:14	10°♍09'37	0°49'10
min. Earth dist.	-3062 Mar 26 j 05:58	10°♍09'26	17.75257 AU
direct	-3062 Jun 11 j 11:56	8°♍06'15	
evening set	-3062 Sep 13 j 21:00	11°♍28'41	
conjunction	-3062 Sep 29 j 14:59	12°♍26'58	0°43'28
minimum elong	-3062 Sep 29 j 14:59	12°♍26'58	0°43'30
max. Earth dist.	-3062 Sep 29 j 14:28	12°♍26'53	19.78396 AU
morning rise	-3062 Oct 15 j 06:40	13°♍24'55	
retrograde	-3061 Jan 14 j 17:43	16°♍42'03	
opposition	-3061 Mar 31 j 03:48	14°♍41'37	0°47'29
min. Earth dist.	-3061 Mar 31 j 02:35	14°♍41'45	17.81576 AU
direct	-3061 Jun 16 j 12:13	12°♍38'44	
evening set	-3061 Sep 18 j 14:15	15°♍59'59	
conjunction	-3061 Oct 04 j 07:25	16°♍57'58	0°41'50
minimum elong	-3061 Oct 04 j 07:25	16°♍57'58	0°41'52
max. Earth dist.	-3061 Oct 04 j 08:59	16°♍58'12	19.84810 AU
morning rise	-3061 Oct 19 j 22:34	17°♍55'39	
retrograde	-3060 Jan 19 j 11:07	21°♍12'17	
opposition	-3060 Apr 04 j 02:47	19°♍12'01	0°45'30
min. Earth dist.	-3060 Apr 04 j 00:33	19°♍12'15	17.88073 AU
direct	-3060 Jun 20 j 09:50	17°♍09'34	
evening set	-3060 Sep 22 j 06:36	20°♍29'37	
conjunction	-3060 Oct 07 j 23:03	21°♍27'18	0°39'57
minimum elong	-3060 Oct 07 j 23:03	21°♍27'18	0°39'57
max. Earth dist.	-3060 Oct 08 j 02:33	21°♍27'50	19.91369 AU
morning rise	-3060 Oct 23 j 13:47	22°♍24'44	
retrograde	-3059 Jan 23 j 05:39	25°♍40'50	
opposition	-3059 Apr 09 j 01:15	23°♍40'43	0°43'15
min. Earth dist.	-3059 Apr 08 j 20:06	23°♍41'15	17.94664 AU
direct	-3059 Jun 25 j 08:47	21°♍38'43	
evening set	-3059 Sep 26 j 21:59	24°♍57'30	
conjunction	-3059 Oct 12 j 13:47	25°♍54'53	0°37'50
minimum elong	-3059 Oct 12 j 13:48	25°♍54'53	0°37'50
max. Earth dist.	-3059 Oct 12 j 19:30	25°♍55'46	19.97980 AU
morning rise	-3059 Oct 28 j 04:08	26°♍52'04	
	-3058 Jan 10 j 23:33	0°♎	
retrograde	-3058 Jan 27 j 21:36	0°♎07'39	
	-3058 Feb 14 j 04:00	30°℞♍	
opposition	-3058 Apr 13 j 23:18	28°♍07'39	0°40'45
min. Earth dist.	-3058 Apr 13 j 17:16	28°♍08'16	18.01293 AU
direct	-3058 Jun 30 j 04:29	26°♍06'03	
evening set	-3058 Oct 01 j 12:34	29°♍23'33	
	-3058 Oct 11 j 13:10	0°♎	
conjunction	-3058 Oct 17 j 03:48	0°♎20'38	0°35'30
minimum elong	-3058 Oct 17 j 03:48	0°♎20'38	0°35'30
max. Earth dist.	-3058 Oct 17 j 11:01	0°♎21'45	20.04613 AU
morning rise	-3058 Nov 01 j 17:56	1°♎17'35	
retrograde	-3057 Feb 01 j 15:09	4°♎32'35	
opposition	-3057 Apr 18 j 20:20	2°♎32'41	0°38'02
min. Earth dist.	-3057 Apr 18 j 11:26	2°♎33'36	18.07909 AU
direct	-3057 Jul 05 j 01:21	0°♎31'29	
evening set	-3057 Oct 06 j 02:08	3°♎47'40	
conjunction	-3057 Oct 21 j 16:58	4°♎44'29	0°32'58
minimum elong	-3057 Oct 21 j 16:58	4°♎44'29	0°32'58
max. Earth dist.	-3057 Oct 22 j 02:28	4°♎45'55	20.11203 AU
morning rise	-3057 Nov 06 j 06:53	5°♎41'11	
retrograde	-3056 Feb 06 j 05:45	8°♎55'36	
opposition	-3056 Apr 22 j 16:50	6°♎55'46	0°35'07
min. Earth dist.	-3056 Apr 22 j 07:15	6°♎56'45	18.14476 AU
direct	-3056 Jul 08 j 19:25	4°♎54'55	
evening set	-3056 Oct 09 j 14:47	8°♎09'47	
conjunction	-3056 Oct 25 j 05:10	9°♎06'19	0°30'16
minimum elong	-3056 Oct 25 j 05:10	9°♎06'19	0°30'15
max. Earth dist.	-3056 Oct 25 j 15:58	9°♎07'57	20.17751 AU
morning rise	-3056 Nov 09 j 19:03	10°♎02'47	
retrograde	-3055 Feb 09 j 21:52	13°♎16'37	

Attention, astronomical year style is used: The year -3055 in astronomical counting style is the year 3056 BCE in historical counting style.

opposition	-3055 Apr 27 j 12:25	11°♎16'49	0°32'00
min. Earth dist.	-3055 Apr 26 j 23:57	11°♎18'05	18.20995 AU
direct	-3055 Jul 13 j 14:21	9°♎16'19	
evening set	-3055 Oct 14 j 02:29	12°♎29'50	
conjunction	-3055 Oct 29 j 16:37	13°♎26'06	0°27'24
minimum elong	-3055 Oct 29 j 16:37	13°♎26'06	0°27'23
max. Earth dist.	-3055 Oct 30 j 06:02	13°♎28'08	20.24247 AU
morning rise	-3055 Nov 14 j 06:25	14°♎22'21	
retrograde	-3054 Feb 14 j 11:33	17°♎35'36	
opposition	-3054 May 02 j 07:23	15°♎35'49	0°28'45
min. Earth dist.	-3054 May 01 j 18:03	15°♎37'11	18.27483 AU
direct	-3054 Jul 18 j 07:05	13°♎35'39	
evening set	-3054 Oct 18 j 13:17	16°♎47'51	
conjunction	-3054 Nov 03 j 03:07	17°♎43'52	0°24'25
minimum elong	-3054 Nov 03 j 03:07	17°♎43'52	0°24'24
max. Earth dist.	-3054 Nov 03 j 17:47	17°♎46'04	20.30728 AU
morning rise	-3054 Nov 18 j 17:06	18°♎39'54	
retrograde	-3053 Feb 19 j 02:23	21°♎52'35	
min. Earth dist.	-3053 May 06 j 09:09	19°♎54'28	18.33955 AU
opposition	-3053 May 07 j 01:21	19°♎52'49	0°25'21
direct	-3053 Jul 22 j 23:47	17°♎52'59	
evening set	-3053 Oct 22 j 23:18	21°♎03'54	
conjunction	-3053 Nov 07 j 13:04	21°♎59'41	0°21'20
minimum elong	-3053 Nov 07 j 13:04	21°♎59'41	0°21'17
max. Earth dist.	-3053 Nov 08 j 06:23	22°♎02'17	20.37179 AU
morning rise	-3053 Nov 23 j 03:02	22°♎55'31	
retrograde	-3052 Feb 23 j 14:40	26°♎07'38	
opposition	-3052 May 10 j 18:31	24°♎07'55	0°21'51
min. Earth dist.	-3052 May 10 j 01:25	24°♎09'39	18.40400 AU
direct	-3052 Jul 26 j 15:21	22°♎08'27	
evening set	-3052 Oct 26 j 08:40	25°♎18'08	
conjunction	-3052 Nov 10 j 22:14	26°♎13'41	0°18'09
minimum elong	-3052 Nov 10 j 22:14	26°♎13'41	0°18'06
max. Earth dist.	-3052 Nov 11 j 16:32	26°♎16'25	20.43615 AU
morning rise	-3052 Nov 26 j 12:32	27°♎09'20	
	-3051 Jan 29 j 10:08	0°♏	
retrograde	-3051 Feb 27 j 04:47	0°♏20'56	
	-3051 Mar 28 j 14:08	30°℞♎	
opposition	-3051 May 15 j 11:00	28°♎21'17	0°18'16
min. Earth dist.	-3051 May 14 j 15:15	28°♎23'16	18.46814 AU
direct	-3051 Jul 31 j 05:51	26°♎22'10	
evening set	-3051 Oct 30 j 17:07	29°♎30'40	
	-3051 Nov 08 j 00:21	0°♏	
conjunction	-3051 Nov 15 j 06:48	0°♏26'00	0°14'53
minimum elong	-3051 Nov 15 j 06:47	0°♏26'00	0°14'50
behind sun begin	-3051 Nov 15 j 04:00	0°♏25'35	
behind sun end	-3051 Nov 15 j 09:35	0°♏26'24	
max. Earth dist.	-3051 Nov 16 j 03:43	0°♏29'07	20.49985 AU
morning rise	-3051 Nov 30 j 21:15	1°♏21'28	
retrograde	-3050 Mar 03 j 16:00	4°♏32'35	
min. Earth dist.	-3050 May 19 j 06:16	2°♏35'06	18.53137 AU
opposition	-3050 May 20 j 02:51	2°♏33'01	0°14'36
direct	-3050 Aug 04 j 20:01	0°♏34'18	
evening set	-3050 Nov 04 j 01:11	3°♏41'39	
conjunction	-3050 Nov 19 j 14:49	4°♏36'47	0°11'34
minimum elong	-3050 Nov 19 j 14:49	4°♏36'47	0°11'30
behind sun begin	-3050 Nov 19 j 10:03	4°♏36'05	
behind sun end	-3050 Nov 19 j 19:36	4°♏37'28	
max. Earth dist.	-3050 Nov 20 j 12:20	4°♏39'59	20.56249 AU
morning rise	-3050 Dec 05 j 05:46	5°♏32'06	
retrograde	-3049 Mar 08 j 05:19	8°♏42'45	
opposition	-3049 May 24 j 17:42	6°♏43'17	0°10'53
min. Earth dist.	-3049 May 23 j 19:05	6°♏45'33	18.59324 AU
direct	-3049 Aug 09 j 08:42	4°♏44'55	
evening set	-3049 Nov 08 j 08:36	7°♏51'12	
conjunction	-3049 Nov 23 j 22:29	8°♏46'09	0°08'12
minimum elong	-3049 Nov 23 j 22:29	8°♏46'09	0°08'09
behind sun begin	-3049 Nov 23 j 16:39	8°♏45'19	
behind sun end	-3049 Nov 24 j 04:19	8°♏47'00	
max. Earth dist.	-3049 Nov 24 j 22:15	8°♏49'40	20.62327 AU
morning rise	-3049 Dec 09 j 13:43	9°♏41'20	
retrograde	-3048 Mar 11 j 15:36	12°♏51'32	
min. Earth dist.	-3048 May 27 j 08:57	10°♏54'30	18.65289 AU
opposition	-3048 May 28 j 08:05	10°♏52'11	0°07'07
direct	-3048 Aug 12 j 21:03	8°♏54'12	
evening set	-3048 Nov 11 j 15:31	11°♏59'27	
conjunction	-3048 Nov 27 j 05:28	12°♏54'14	0°04'49
minimum elong	-3048 Nov 27 j 05:28	12°♏54'14	0°04'44
behind sun begin	-3048 Nov 26 j 23:04	12°♏53'19	
behind sun end	-3048 Nov 27 j 11:51	12°♏55'09	
max. Earth dist.	-3048 Nov 28 j 05:25	12°♏57'46	20.68164 AU
morning rise	-3048 Dec 12 j 21:16	13°♏49'16	
	-3047 Jan 03 j 11:48	15°♏	
retrograde	-3047 Mar 16 j 04:09	16°♏59'05	
opposition	-3047 Jun 01 j 21:50	14°♏59'49	0°03'20
min. Earth dist.	-3047 May 31 j 21:11	15°♏02'17	18.70985 AU
	-3047 Jun 01 j 20:00	15°℞♏	
direct	-3047 Aug 17 j 08:24	13°♏02'10	
	-3047 Oct 26 j 14:28	15°♏	
evening set	-3047 Nov 15 j 22:02	16°♏06'28	
conjunction	-3047 Dec 01 j 12:22	17°♏01'06	0°01'22
minimum elong	-3047 Dec 01 j 12:22	17°♏01'06	0°01'19
behind sun begin	-3047 Dec 01 j 05:50	17°♏00'10	
behind sun end	-3047 Dec 01 j 18:54	17°♏02'02	
max. Earth dist.	-3047 Dec 02 j 14:16	17°♏04'54	20.73684 AU
morning rise	-3047 Dec 17 j 04:34	17°♏56'01	
retrograde	-3046 Mar 20 j 13:41	21°♏05'27	
desc. node	-3046 Apr 24 j 00:59	20°♏37'41	
min. Earth dist.	-3046 Jun 05 j 10:03	19°♏08'46	18.76326 AU
opposition	-3046 Jun 06 j 10:55	19°♏06'17	-0°00'27
direct	-3046 Aug 21 j 19:15	17°♏08'57	
evening set	-3046 Nov 20 j 04:16	20°♏12'19	
conjunction	-3046 Dec 05 j 18:49	21°♏06'49	-0°02'08
minimum elong	-3046 Dec 05 j 18:49	21°♏06'49	0°02'13
behind sun begin	-3046 Dec 05 j 12:17	21°♏05'53	
behind sun end	-3046 Dec 06 j 01:21	21°♏07'45	
max. Earth dist.	-3046 Dec 06 j 20:22	21°♏10'34	20.78829 AU
morning rise	-3046 Dec 21 j 11:45	22°♏01'39	
retrograde	-3045 Mar 25 j 01:22	25°♏10'44	
opposition	-3045 Jun 10 j 23:22	23°♏11'37	-0°04'12
min. Earth dist.	-3045 Jun 09 j 21:39	23°♏14'11	18.81264 AU
direct	-3045 Aug 26 j 05:23	21°♏14'32	
evening set	-3045 Nov 24 j 10:03	24°♏17'04	
conjunction	-3045 Dec 10 j 01:08	25°♏11'27	-0°05'32
minimum elong	-3045 Dec 10 j 01:07	25°♏11'27	0°05'37
behind sun begin	-3045 Dec 09 j 18:49	25°♏10'33	
behind sun end	-3045 Dec 10 j 07:25	25°♏12'21	
max. Earth dist.	-3045 Dec 11 j 04:10	25°♏15'24	20.83526 AU
morning rise	-3045 Dec 25 j 18:30	26°♏06'11	
retrograde	-3044 Mar 28 j 10:10	29°♏14'56	
min. Earth dist.	-3044 Jun 13 j 09:25	27°♏18'25	18.85726 AU
opposition	-3044 Jun 14 j 11:10	27°♏15'51	-0°07'56
direct	-3044 Aug 29 j 15:11	25°♏19'01	

Attention, astronomical year style is used: The year -3044 in astronomical counting style is the year 3045 BCE in historical counting style.

evening set	-3044 Nov 27 j 15:37	28°♏20'43	
conjunction	-3044 Dec 13 j 07:02	29°♏15'00	-0°08'51
minimum elong	-3044 Dec 13 j 07:01	29°♏15'00	0°08'56
behind sun begin	-3044 Dec 13 j 01:23	29°♏14'12	
behind sun end	-3044 Dec 13 j 12:40	29°♏15'48	
max. Earth dist.	-3044 Dec 14 j 09:25	29°♏18'50	20.87757 AU
	-3044 Dec 26 j 05:30	0°♐	
morning rise	-3044 Dec 29 j 01:14	0°♐09'40	
retrograde	-3043 Apr 01 j 20:30	3°♐18'06	
opposition	-3043 Jun 18 j 22:28	1°♐19'00	-0°11'36
min. Earth dist.	-3043 Jun 17 j 20:13	1°♐21'38	18.89725 AU
	-3043 Jul 25 j 02:50	30°℞♏	
direct	-3043 Sep 03 j 00:09	29°♏22'20	
	-3043 Oct 11 j 13:11	0°♐	
evening set	-3043 Dec 01 j 20:37	2°♐23'17	
conjunction	-3043 Dec 17 j 12:42	3°♐17'29	-0°12'07
minimum elong	-3043 Dec 17 j 12:41	3°♐17'29	0°12'13
behind sun begin	-3043 Dec 17 j 08:14	3°♐16'51	
behind sun end	-3043 Dec 17 j 17:09	3°♐18'07	
max. Earth dist.	-3043 Dec 18 j 16:30	3°♐21'31	20.91512 AU
morning rise	-3042 Jan 02 j 07:31	4°♐12'05	
retrograde	-3042 Apr 06 j 05:02	7°♐20'14	
min. Earth dist.	-3042 Jun 22 j 06:49	5°♐23'43	18.93247 AU
opposition	-3042 Jun 23 j 09:06	5°♐21'06	-0°15'11
direct	-3042 Sep 07 j 09:01	3°♐24'34	
evening set	-3042 Dec 06 j 01:32	6°♐24'48	
conjunction	-3042 Dec 21 j 18:04	7°♐18'56	-0°15'19
minimum elong	-3042 Dec 21 j 18:04	7°♐18'56	0°15'24
behind sun begin	-3042 Dec 21 j 15:58	7°♐18'38	
behind sun end	-3042 Dec 21 j 20:10	7°♐19'14	
max. Earth dist.	-3042 Dec 22 j 21:06	7°♐22'51	20.94820 AU
morning rise	-3041 Jan 06 j 13:49	8°♐13'30	
retrograde	-3041 Apr 10 j 13:40	11°♐21'22	
opposition	-3041 Jun 27 j 18:56	9°♐22'10	-0°18'40
min. Earth dist.	-3041 Jun 26 j 16:26	9°♐24'49	18.96353 AU
direct	-3041 Sep 11 j 16:27	7°♐25'43	
evening set	-3041 Dec 10 j 06:03	10°♐25'21	
conjunction	-3041 Dec 25 j 23:19	11°♐19'25	-0°18'25
minimum elong	-3041 Dec 25 j 23:19	11°♐19'25	0°18'31
max. Earth dist.	-3041 Dec 27 j 03:44	11°♐23'31	20.97715 AU
morning rise	-3040 Jan 10 j 19:43	12°♐13'57	
retrograde	-3040 Apr 13 j 21:50	15°♐21'35	
min. Earth dist.	-3040 Jun 30 j 01:38	13°♐25'00	18.99060 AU
opposition	-3040 Jul 01 j 04:18	13°♐22'20	-0°22'03
direct	-3040 Sep 15 j 00:05	11°♐25'59	
evening set	-3040 Dec 13 j 10:22	14°♐25'02	
conjunction	-3040 Dec 29 j 04:09	15°♐19'04	-0°21'25
minimum elong	-3040 Dec 29 j 04:09	15°♐19'04	0°21'30
max. Earth dist.	-3040 Dec 30 j 07:49	15°♐23'04	21.00246 AU
morning rise	-3039 Jan 14 j 01:32	16°♐13'36	
retrograde	-3039 Apr 18 j 05:53	19°♐21'03	
min. Earth dist.	-3039 Jul 04 j 10:27	17°♐24'25	19.01425 AU
opposition	-3039 Jul 05 j 13:15	17°♐21'44	-0°25'19
direct	-3039 Sep 19 j 06:15	15°♐25'27	
evening set	-3039 Dec 17 j 14:35	18°♐24'02	
conjunction	-3038 Jan 02 j 09:14	19°♐18'04	-0°24'19
minimum elong	-3038 Jan 02 j 09:14	19°♐18'04	0°24'25
max. Earth dist.	-3038 Jan 03 j 14:10	19°♐22'13	21.02428 AU
morning rise	-3038 Jan 18 j 07:20	20°♐12'35	
retrograde	-3038 Apr 22 j 13:38	23°♐19'52	
opposition	-3038 Jul 09 j 21:32	21°♐20'32	-0°28'26
min. Earth dist.	-3038 Jul 08 j 18:37	21°♐23'14	19.03435 AU
direct	-3038 Sep 23 j 12:29	19°♐24'20	
evening set	-3038 Dec 21 j 18:53	22°♐22'32	
conjunction	-3037 Jan 06 j 14:10	23°♐16'33	-0°27'05
minimum elong	-3037 Jan 06 j 14:10	23°♐16'33	0°27'10
max. Earth dist.	-3037 Jan 07 j 18:01	23°♐20'33	21.04270 AU
morning rise	-3037 Jan 22 j 13:20	24°♐11'06	
retrograde	-3037 Apr 26 j 22:01	27°♐18'17	
min. Earth dist.	-3037 Jul 13 j 02:53	25°♐21'35	19.05105 AU
opposition	-3037 Jul 14 j 05:33	25°♐18'55	-0°31'26
direct	-3037 Sep 27 j 17:44	23°♐22'47	
evening set	-3037 Dec 25 j 23:01	26°♐20'40	
conjunction	-3036 Jan 10 j 19:13	27°♐14'43	-0°29'43
minimum elong	-3036 Jan 10 j 19:13	27°♐14'43	0°29'49
max. Earth dist.	-3036 Jan 12 j 00:07	27°♐18'51	21.05748 AU
morning rise	-3036 Jan 26 j 19:07	28°♐09'18	
	-3036 Mar 03 j 17:03	0°♑	
retrograde	-3036 Apr 30 j 05:36	1°♑16'25	
	-3036 Jun 29 j 06:27	30°℞♐	
min. Earth dist.	-3036 Jul 16 j 10:33	29°♐19'43	19.06392 AU
opposition	-3036 Jul 17 j 13:11	29°♐17'03	-0°34'16
direct	-3036 Sep 30 j 23:07	27°♐20'59	
	-3036 Dec 23 j 12:24	0°♑	
evening set	-3036 Dec 29 j 03:27	0°♑18'38	
conjunction	-3035 Jan 14 j 00:21	1°♑12'43	-0°32'13
minimum elong	-3035 Jan 14 j 00:21	1°♑12'43	0°32'19
max. Earth dist.	-3035 Jan 15 j 03:55	1°♑16'39	21.06853 AU
morning rise	-3035 Jan 30 j 01:22	2°♑07'21	
retrograde	-3035 May 04 j 14:20	5°♑14'28	
opposition	-3035 Jul 21 j 20:36	3°♑15'05	-0°36'56
min. Earth dist.	-3035 Jul 20 j 18:40	3°♑17'41	19.07300 AU
direct	-3035 Oct 05 j 03:36	1°♑19'03	
evening set	-3034 Jan 02 j 07:56	4°♑16'33	
conjunction	-3034 Jan 18 j 05:53	5°♑10'42	-0°34'34
minimum elong	-3034 Jan 18 j 05:53	5°♑10'42	0°34'39
max. Earth dist.	-3034 Jan 19 j 10:06	5°♑14'44	21.07542 AU
morning rise	-3034 Feb 03 j 07:43	6°♑05'24	
retrograde	-3034 May 08 j 22:28	9°♑12'32	
min. Earth dist.	-3034 Jul 25 j 02:13	7°♑15'43	19.07760 AU
opposition	-3034 Jul 26 j 03:44	7°♑13'09	-0°39'26
direct	-3034 Oct 09 j 09:01	5°♑17'09	
evening set	-3033 Jan 06 j 12:55	8°♑14'35	
conjunction	-3033 Jan 22 j 11:36	9°♑08'48	-0°36'44
minimum elong	-3033 Jan 22 j 11:36	9°♑08'47	0°36'51
max. Earth dist.	-3033 Jan 23 j 13:59	9°♑12'33	21.07771 AU
morning rise	-3033 Feb 07 j 14:33	10°♑03'35	
retrograde	-3033 May 13 j 07:10	13°♑10'46	
min. Earth dist.	-3033 Jul 29 j 10:23	11°♑13'48	19.07746 AU
opposition	-3033 Jul 30 j 10:35	11°♑11'22	-0°41'45
direct	-3033 Oct 13 j 12:43	9°♑15'21	
evening set	-3032 Jan 10 j 18:03	12°♑12'47	
conjunction	-3032 Jan 26 j 17:48	13°♑07'06	-0°38'45
minimum elong	-3032 Jan 26 j 17:48	13°♑07'06	0°38'50
max. Earth dist.	-3032 Jan 27 j 20:20	13°♑10'53	21.07492 AU
morning rise	-3032 Feb 11 j 21:33	14°♑01'58	
retrograde	-3032 May 16 j 15:47	17°♑09'14	
opposition	-3032 Aug 02 j 17:23	15°♑09'48	-0°43'52
min. Earth dist.	-3032 Aug 01 j 17:54	15°♑12'10	19.07195 AU
direct	-3032 Oct 16 j 18:31	13°♑13'46	
evening set	-3031 Jan 13 j 23:33	16°♑11'15	

Attention, astronomical year style is used: The year -3031 in astronomical counting style is the year 3032 BCE in historical counting style.

conjunction	-3031 Jan 30 j 00:08	17°♉05'39	-0°40'34	
minimum elong	-3031 Jan 30 j 00:08	17°♉05'39	0°40'40	
max. Earth dist.	-3031 Jan 31 j 00:23	17°♉09'06	21.06671 AU	
morning rise	-3031 Feb 15 j 05:04	18°♉00'39		
retrograde	-3031 May 21 j 00:42	21°♉08'02		
min. Earth dist.	-3031 Aug 06 j 02:21	19°♉10'43	19.06093 AU	
opposition	-3031 Aug 07 j 00:11	19°♉08'31	-0°45'46	
direct	-3031 Oct 20 j 22:18	17°♉12'22		
evening set	-3030 Jan 18 j 05:24	20°♉09'58		
conjunction	-3030 Feb 03 j 07:09	21°♉04'30	-0°42'11	
minimum elong	-3030 Feb 03 j 07:09	21°♉04'30	0°42'16	
max. Earth dist.	-3030 Feb 04 j 07:09	21°♉07'55	21.05281 AU	
morning rise	-3030 Feb 19 j 12:56	21°♉59'37		
retrograde	-3030 May 25 j 09:22	25°♉07'07		
min. Earth dist.	-3030 Aug 10 j 09:43	23°♉09'37	19.04414 AU	
opposition	-3030 Aug 11 j 06:36	23°♉07'30	-0°47'27	
direct	-3030 Oct 25 j 04:16	21°♉11'12		
evening set	-3029 Jan 22 j 11:45	24°♉09'00		
conjunction	-3029 Feb 07 j 14:22	25°♉03'40	-0°43'37	
minimum elong	-3029 Feb 07 j 14:22	25°♉03'40	0°43'42	
max. Earth dist.	-3029 Feb 08 j 11:46	25°♉06'43	21.03340 AU	
morning rise	-3029 Feb 23 j 21:19	25°♉58'55		
retrograde	-3029 May 29 j 18:23	29°♉06'34		
opposition	-3029 Aug 15 j 13:08	27°♉06'49	-0°48'54	
min. Earth dist.	-3029 Aug 14 j 18:06	27°♉08'44	19.02212 AU	
direct	-3029 Oct 29 j 08:38	25°♉10'19		
evening set	-3028 Jan 26 j 18:08	28°♉08'21		
conjunction	-3028 Feb 11 j 21:55	29°♉03'10	-0°44'49	
minimum elong	-3028 Feb 11 j 21:55	29°♉03'10	0°44'54	
max. Earth dist.	-3028 Feb 12 j 19:07	29°♉06'11	21.00890 AU	
morning rise	-3028 Feb 28 j 05:42	29°♉58'35		
	-3028 Feb 28 j 15:56	0°♒		
retrograde	-3028 Jun 02 j 03:08	3°♒06'24		
opposition	-3028 Aug 18 j 19:29	1°♒06'30	-0°50'07	
min. Earth dist.	-3028 Aug 18 j 01:14	1°♒08'21	18.99524 AU	
	-3028 Sep 16 j 17:48	30°℞♉		
direct	-3028 Nov 01 j 14:15	29°♉09'48		
	-3028 Dec 16 j 04:33	0°♒		
evening set	-3027 Jan 30 j 01:12	2°♒08'08		
conjunction	-3027 Feb 15 j 05:53	3°♒03'08	-0°45'48	
minimum elong	-3027 Feb 15 j 05:53	3°♒03'08	0°45'53	
max. Earth dist.	-3027 Feb 16 j 00:35	3°♒05'48	20.97998 AU	
morning rise	-3027 Mar 03 j 14:50	3°♒58'42		
retrograde	-3027 Jun 06 j 12:33	7°♒06'45		
min. Earth dist.	-3027 Aug 22 j 09:28	5°♒08'21	18.96436 AU	
opposition	-3027 Aug 23 j 01:50	5°♒06'41	-0°51'06	
direct	-3027 Nov 05 j 19:00	3°♒09'43		
evening set	-3026 Feb 03 j 08:37	6°♒08'29		
conjunction	-3026 Feb 19 j 14:32	7°♒03'40	-0°46'34	
minimum elong	-3026 Feb 19 j 14:32	7°♒03'40	0°46'40	
max. Earth dist.	-3026 Feb 20 j 08:58	7°♒06'18	20.94719 AU	
morning rise	-3026 Mar 08 j 00:18	7°♒59'25		
retrograde	-3026 Jun 10 j 21:56	11°♒07'43		
opposition	-3026 Aug 27 j 08:09	9°♒07'30	-0°51'50	
min. Earth dist.	-3026 Aug 26 j 16:31	9°♒09'06	18.92975 AU	
direct	-3026 Nov 10 j 00:23	7°♒10'19		
evening set	-3025 Feb 07 j 16:43	10°♒09'33		
conjunction	-3025 Feb 23 j 23:29	11°♒04'56	-0°47'07	
minimum elong	-3025 Feb 23 j 23:29	11°♒04'56	0°47'11	
max. Earth dist.	-3025 Feb 24 j 15:19	11°♒07'11	20.91097 AU	
morning rise	-3025 Mar 12 j 10:21	12°♒00'52		
	-3025 May 26 j 15:25	15°♒		
retrograde	-3025 Jun 15 j 07:48	15°♒09'28		
	-3025 Jul 05 j 02:04	15°℞♒		
opposition	-3025 Aug 31 j 14:36	13°♒09'07	-0°52'18	
min. Earth dist.	-3025 Aug 31 j 00:54	13°♒10'32	18.89202 AU	
direct	-3025 Nov 14 j 05:20	11°♒11'41		
evening set	-3024 Feb 12 j 01:12	14°♒11'29		
	-3024 Feb 26 j 07:36	15°♒		
conjunction	-3024 Feb 28 j 09:11	15°♒07'06	-0°47'26	
minimum elong	-3024 Feb 28 j 09:11	15°♒07'06	0°47'30	
max. Earth dist.	-3024 Feb 29 j 00:43	15°♒09'19	20.87178 AU	
morning rise	-3024 Mar 15 j 20:49	16°♒03'14		
retrograde	-3024 Jun 18 j 18:25	19°♒12'11		
opposition	-3024 Sep 03 j 21:11	17°♒11'43	-0°52'32	
min. Earth dist.	-3024 Sep 03 j 08:10	17°♒13'03	18.85137 AU	
direct	-3024 Nov 17 j 11:20	15°♒14'03		
evening set	-3023 Feb 15 j 10:25	18°♒14'29		
conjunction	-3023 Mar 03 j 19:19	19°♒10'19	-0°47'31	
minimum elong	-3023 Mar 03 j 19:19	19°♒10'19	0°47'34	
max. Earth dist.	-3023 Mar 04 j 08:09	19°♒12'09	20.82988 AU	
morning rise	-3023 Mar 20 j 08:04	20°♒06'41		
retrograde	-3023 Jun 23 j 04:46	23°♒16'01		
opposition	-3023 Sep 08 j 04:08	21°♒15'28	-0°52'30	
min. Earth dist.	-3023 Sep 07 j 17:15	21°♒16'35	18.80813 AU	
direct	-3023 Nov 21 j 16:25	19°♒17'33		
evening set	-3022 Feb 19 j 20:22	22°♒18'43		
conjunction	-3022 Mar 08 j 06:29	23°♒14'48	-0°47'21	
minimum elong	-3022 Mar 08 j 06:29	23°♒14'48	0°47'25	
max. Earth dist.	-3022 Mar 08 j 18:45	23°♒16'34	20.78532 AU	
morning rise	-3022 Mar 24 j 19:57	24°♒11'23		
retrograde	-3022 Jun 27 j 17:03	27°♒21'08		
opposition	-3022 Sep 12 j 11:07	25°♒20'31	-0°52'13	
min. Earth dist.	-3022 Sep 12 j 01:09	25°♒21'33	18.76215 AU	
direct	-3022 Nov 25 j 23:39	23°♒22'23		
evening set	-3021 Feb 24 j 07:16	26°♒24'21		
conjunction	-3021 Mar 12 j 18:13	27°♒20'41	-0°46'58	
minimum elong	-3021 Mar 12 j 18:13	27°♒20'41	0°47'01	
max. Earth dist.	-3021 Mar 13 j 03:31	27°♒22'01	20.73808 AU	
morning rise	-3021 Mar 29 j 08:41	28°♒17'31		
	-3021 May 01 j 19:05	0°♓		
retrograde	-3021 Jul 02 j 03:41	1°♓27'43		
	-3021 Sep 03 j 09:06	30°℞♒		
opposition	-3021 Sep 16 j 18:42	29°♒27'01	-0°51'39	
min. Earth dist.	-3021 Sep 16 j 11:11	29°♒27'48	18.71354 AU	
direct	-3021 Nov 30 j 05:15	27°♒28'39		
	-3020 Feb 19 j 06:15	0°♓		
evening set	-3020 Feb 28 j 18:41	0°♓31'29		
conjunction	-3020 Mar 16 j 06:48	1°♓28'05	-0°46'20	
minimum elong	-3020 Mar 16 j 06:48	1°♓28'05	0°46'22	
max. Earth dist.	-3020 Mar 16 j 15:18	1°♓29'18	20.68804 AU	
morning rise	-3020 Apr 01 j 21:54	2°♓25'09		
retrograde	-3020 Jul 05 j 17:15	5°♓35'51		
opposition	-3020 Sep 20 j 02:34	3°♓35'05	-0°50'49	
min. Earth dist.	-3020 Sep 19 j 20:09	3°♓35'46	18.66190 AU	
direct	-3020 Dec 03 j 14:06	1°♓36'28		
evening set	-3019 Mar 04 j 07:23	4°♓40'13		
conjunction	-3019 Mar 20 j 20:18	5°♓37'06	-0°45'27	
minimum elong	-3019 Mar 20 j 20:18	5°♓37'06	0°45'30	
max. Earth dist.	-3019 Mar 21 j 01:27	5°♓37'51	20.63487 AU	
morning rise	-3019 Apr 06 j 12:20	6°♓34'26		
retrograde	-3019 Jul 10 j 04:33	9°♓45'37		

Attention, astronomical year style is used: The year -3019 in astronomical counting style is the year 3020 BCE in historical counting style.

opposition	-3019 Sep 24 j 10:55	7°♓44'47	-0°49'43
min. Earth dist.	-3019 Sep 24 j 07:23	7°♓45'09	18.60711 AU
direct	-3019 Dec 07 j 21:05	5°♓45'51	
evening set	-3018 Mar 08 j 20:52	8°♓50'35	
conjunction	-3018 Mar 25 j 10:53	9°♓47'45	-0°44'19
minimum elong	-3018 Mar 25 j 10:53	9°♓47'45	0°44'20
max. Earth dist.	-3018 Mar 25 j 14:39	9°♓48'18	20.57838 AU
morning rise	-3018 Apr 11 j 03:28	10°♓45'20	
retrograde	-3018 Jul 14 j 18:46	13°♓57'01	
opposition	-3018 Sep 28 j 19:43	11°♓56'04	-0°48'21
min. Earth dist.	-3018 Sep 28 j 17:23	11°♓56'19	18.54884 AU
direct	-3018 Dec 12 j 07:34	9°♓56'49	
evening set	-3017 Mar 13 j 11:17	13°♓02'33	
conjunction	-3017 Mar 30 j 02:00	14°♓00'01	-0°42'56
minimum elong	-3017 Mar 30 j 02:00	14°♓00'01	0°42'58
max. Earth dist.	-3017 Mar 30 j 02:15	14°♓00'03	20.51844 AU
morning rise	-3017 Apr 15 j 19:21	14°♓57'50	
retrograde	-3017 Jul 19 j 06:51	18°♓10'02	
opposition	-3017 Oct 03 j 05:07	16°♓08'57	-0°46'42
min. Earth dist.	-3017 Oct 03 j 05:43	16°♓08'54	18.48734 AU
direct	-3017 Dec 16 j 16:17	14°♓09'18	
evening set	-3016 Mar 17 j 02:24	17°♓16'05	
conjunction	-3016 Apr 02 j 18:09	18°♓13'51	-0°41'19
minimum elong	-3016 Apr 02 j 18:09	18°♓13'51	0°41'21
max. Earth dist.	-3016 Apr 02 j 16:54	18°♓13'40	20.45557 AU
morning rise	-3016 Apr 19 j 11:57	19°♓11'56	
retrograde	-3016 Jul 22 j 21:44	22°♓24'37	
opposition	-3016 Oct 06 j 14:46	20°♓23'23	-0°44'47
min. Earth dist.	-3016 Oct 06 j 16:29	20°♓23'12	18.42309 AU
direct	-3016 Dec 20 j 03:59	18°♓23'20	
evening set	-3015 Mar 21 j 18:30	21°♓31'11	
conjunction	-3015 Apr 07 j 10:56	22°♓29'14	-0°39'28
minimum elong	-3015 Apr 07 j 10:57	22°♓29'14	0°39'29
max. Earth dist.	-3015 Apr 07 j 06:23	22°♓28'34	20.39021 AU
morning rise	-3015 Apr 24 j 05:25	23°♓27'35	
retrograde	-3015 Jul 27 j 10:56	26°♓40'46	
opposition	-3015 Oct 11 j 01:07	24°♓39'21	-0°42'37
min. Earth dist.	-3015 Oct 11 j 05:44	24°♓38'52	18.35679 AU
direct	-3015 Dec 24 j 14:19	22°♓38'51	
evening set	-3014 Mar 26 j 11:25	25°♓47'50	
conjunction	-3014 Apr 12 j 04:44	26°♓46'11	-0°37'23
minimum elong	-3014 Apr 12 j 04:44	26°♓46'11	0°37'23
max. Earth dist.	-3014 Apr 11 j 22:42	26°♓45'18	20.32319 AU
morning rise	-3014 Apr 28 j 23:32	27°♓44'47	
	-3014 Jun 13 j 14:01	0°♈	
retrograde	-3014 Aug 01 j 02:48	0°♈58'28	
	-3014 Sep 19 j 11:13	30°℞♓	
opposition	-3014 Oct 15 j 11:45	28°♓56'53	-0°40'12
min. Earth dist.	-3014 Oct 15 j 17:16	28°♓56'18	18.28913 AU
direct	-3014 Dec 29 j 03:10	26°♓55'57	
	-3013 Mar 29 j 10:46	0°♈	
evening set	-3013 Mar 31 j 05:17	0°♈06'05	
conjunction	-3013 Apr 16 j 23:07	1°♈04'43	-0°35'04
minimum elong	-3013 Apr 16 j 23:07	1°♈04'43	0°35'04
max. Earth dist.	-3013 Apr 16 j 14:14	1°♈03'25	20.25516 AU
morning rise	-3013 May 03 j 18:21	2°♈03'35	
retrograde	-3013 Aug 05 j 17:15	5°♈17'47	
opposition	-3013 Oct 19 j 23:12	3°♈16'02	-0°37'32
min. Earth dist.	-3013 Oct 20 j 07:24	3°♈15'09	18.22101 AU
direct	-3012 Jan 02 j 14:45	1°♈14'38	
evening set	-3012 Apr 03 j 23:43	4°♈25'57	

conjunction	-3012 Apr 20 j 18:16	5°♈24'54	-0°32'33
minimum elong	-3012 Apr 20 j 18:17	5°♈24'54	0°32'33
max. Earth dist.	-3012 Apr 20 j 08:03	5°♈23'24	20.18707 AU
morning rise	-3012 May 07 j 13:46	6°♈24'01	
retrograde	-3012 Aug 09 j 10:38	9°♈38'45	
opposition	-3012 Oct 23 j 11:06	7°♈36'50	-0°34'38
min. Earth dist.	-3012 Oct 23 j 19:58	7°♈35'54	18.15303 AU
direct	-3011 Jan 06 j 05:04	5°♈35'01	
evening set	-3011 Apr 08 j 19:21	8°♈47'34	
conjunction	-3011 Apr 25 j 14:21	9°♈46'48	-0°29'50
minimum elong	-3011 Apr 25 j 14:22	9°♈46'48	0°29'49
max. Earth dist.	-3011 Apr 25 j 01:41	9°♈44'56	20.11935 AU
morning rise	-3011 May 12 j 10:04	10°♈46'11	
retrograde	-3011 Aug 14 j 02:14	14°♈01'25	
opposition	-3011 Oct 27 j 23:44	11°♈59'25	-0°31'31
min. Earth dist.	-3011 Oct 28 j 11:11	11°♈58'11	18.08586 AU
direct	-3010 Jan 10 j 17:53	9°♈57'10	
evening set	-3010 Apr 13 j 15:48	13°♈10'59	
conjunction	-3010 Apr 30 j 11:18	14°♈10'31	-0°26'56
minimum elong	-3010 Apr 30 j 11:19	14°♈10'31	0°26'54
max. Earth dist.	-3010 Apr 29 j 21:06	14°♈08'24	20.05282 AU
morning rise	-3010 May 17 j 07:06	15°♈10'08	
retrograde	-3010 Aug 18 j 21:15	18°♈25'56	
opposition	-3010 Nov 01 j 13:02	16°♈23'49	-0°28'12
min. Earth dist.	-3010 Nov 02 j 00:58	16°♈22'32	18.02001 AU
direct	-3009 Jan 15 j 09:46	14°♈21'13	
evening set	-3009 Apr 18 j 13:04	17°♈36'18	
conjunction	-3009 May 05 j 08:52	18°♈36'07	-0°23'51
minimum elong	-3009 May 05 j 08:52	18°♈36'07	0°23'49
max. Earth dist.	-3009 May 04 j 16:45	18°♈33'43	19.98771 AU
morning rise	-3009 May 22 j 04:36	19°♈35'59	
retrograde	-3009 Aug 23 j 14:17	22°♈52'21	
opposition	-3009 Nov 06 j 03:14	20°♈50'12	-0°24'42
min. Earth dist.	-3009 Nov 06 j 17:32	20°♈48'39	17.95584 AU
direct	-3008 Jan 20 j 00:09	18°♈47'14	
evening set	-3008 Apr 22 j 11:18	22°♈03'39	
conjunction	-3008 May 09 j 07:22	23°♈03'44	-0°20'36
minimum elong	-3008 May 09 j 07:22	23°♈03'44	0°20'33
max. Earth dist.	-3008 May 08 j 13:30	23°♈01'04	19.92454 AU
morning rise	-3008 May 26 j 03:06	24°♈03'50	
retrograde	-3008 Aug 27 j 10:39	27°♈20'45	
opposition	-3008 Nov 09 j 17:55	25°♈18'35	-0°21'00
min. Earth dist.	-3008 Nov 10 j 08:49	25°♈16'58	17.89356 AU
direct	-3007 Jan 23 j 17:23	23°♈15'18	
evening set	-3007 Apr 27 j 10:33	26°♈33'03	
max. Earth dist.	-3007 May 13 j 11:21	27°♈30'30	19.86305 AU
conjunction	-3007 May 14 j 06:49	27°♈33'25	-0°17'12
minimum elong	-3007 May 14 j 06:48	27°♈33'25	0°17'10
morning rise	-3007 May 31 j 02:16	28°♈33'44	
	-3007 Jun 26 j 04:43	0°♉	
retrograde	-3007 Sep 01 j 05:36	1°♉51'12	
	-3007 Nov 10 j 04:25	30°℞♈	
opposition	-3007 Nov 14 j 09:41	29°♈49'03	-0°17'09
min. Earth dist.	-3007 Nov 15 j 03:02	29°♈47'10	17.83296 AU
direct	-3006 Jan 28 j 09:43	27°♈45'28	
	-3006 Apr 13 j 09:12	0°♉	
evening set	-3006 May 02 j 10:42	1°♉04'32	
max. Earth dist.	-3006 May 18 j 09:17	2°♉01'53	19.80328 AU
conjunction	-3006 May 19 j 06:55	2°♉05'09	-0°13'40
minimum elong	-3006 May 19 j 06:55	2°♉05'09	0°13'36
behind sun begin	-3006 May 19 j 03:23	2°♉04'38	

Attention, astronomical year style is used: The year -3006 in astronomical counting style is the year 3007 BCE in historical counting style.

behind sun end	-3006 May 19 j 10:27	2°♉05'40	
morning rise	-3006 Jun 05 j 02:10	3°♉05'40	
retrograde	-3006 Sep 06 j 03:00	6°♉23'41	
opposition	-3006 Nov 19 j 02:05	4°♉21'32	-0°13'09
min. Earth dist.	-3006 Nov 19 j 20:10	4°♉19'34	17.77398 AU
direct	-3005 Feb 02 j 04:36	2°♉17'39	
evening set	-3005 May 07 j 11:38	5°♉38'01	
max. Earth dist.	-3005 May 23 j 09:03	6°♉35'25	19.74492 AU
conjunction	-3005 May 24 j 07:53	6°♉38'52	-0°10'01
minimum elong	-3005 May 24 j 07:53	6°♉38'52	0°09'58
behind sun begin	-3005 May 24 j 02:26	6°♉38'04	
behind sun end	-3005 May 24 j 13:19	6°♉39'41	
morning rise	-3005 Jun 10 j 02:35	7°♉39'34	
retrograde	-3005 Sep 10 j 23:15	10°♉58'07	
opposition	-3005 Nov 23 j 19:31	8°♉55'57	-0°09'02
min. Earth dist.	-3005 Nov 24 j 15:50	8°♉53'44	17.71647 AU
direct	-3004 Feb 06 j 23:05	6°♉51'45	
evening set	-3004 May 11 j 13:19	10°♉13'22	
max. Earth dist.	-3004 May 27 j 08:00	11°♉10'35	19.68822 AU
conjunction	-3004 May 28 j 09:19	11°♉14'27	-0°06'18
minimum elong	-3004 May 28 j 09:19	11°♉14'27	0°06'14
behind sun begin	-3004 May 28 j 02:54	11°♉13'29	
behind sun end	-3004 May 28 j 15:43	11°♉15'24	
morning rise	-3004 Jun 14 j 03:42	12°♉15'19	
	-3004 Aug 10 j 03:25	15°♉	
retrograde	-3004 Sep 14 j 21:05	15°♉34'21	
	-3004 Oct 20 j 23:45	15°℞♉	
opposition	-3004 Nov 27 j 13:37	13°♉32'08	-0°04'51
min. Earth dist.	-3004 Nov 28 j 10:41	13°♉29'51	17.66061 AU
direct	-3003 Feb 10 j 19:51	11°♉27'37	
evening set	-3003 May 16 j 15:44	14°♉50'27	
	-3003 May 19 j 07:34	15°♉	
max. Earth dist.	-3003 Jun 01 j 09:34	15°♉47'45	19.63314 AU
conjunction	-3003 Jun 02 j 11:35	15°♉51'44	-0°02'30
minimum elong	-3003 Jun 02 j 11:35	15°♉51'44	0°02'25
behind sun begin	-3003 Jun 02 j 04:48	15°♉50'43	
behind sun end	-3003 Jun 02 j 18:22	15°♉52'44	
morning rise	-3003 Jun 19 j 05:11	16°♉52'45	
retrograde	-3003 Sep 19 j 18:11	20°♉12'12	
opposition	-3003 Dec 02 j 08:32	18°♉09'58	-0°00'35
min. Earth dist.	-3003 Dec 03 j 07:26	18°♉07'28	17.60659 AU
asc. node	-3002 Jan 21 j 21:55	16°♉21'18	
direct	-3002 Feb 15 j 17:11	16°♉05'07	
evening set	-3002 May 21 j 18:51	19°♉29'05	
max. Earth dist.	-3002 Jun 06 j 09:44	20°♉26'11	19.58038 AU
conjunction	-3002 Jun 07 j 14:08	20°♉30'32	0°01'28
minimum elong	-3002 Jun 07 j 14:08	20°♉30'32	0°01'31
behind sun begin	-3002 Jun 07 j 07:21	20°♉29'32	
behind sun end	-3002 Jun 07 j 20:56	20°♉31'33	
morning rise	-3002 Jun 24 j 07:13	21°♉31'41	
retrograde	-3002 Sep 24 j 15:45	24°♉51'33	
opposition	-3002 Dec 07 j 04:11	22°♉49'15	0°03'42
min. Earth dist.	-3002 Dec 08 j 03:42	22°♉46'41	17.55526 AU
direct	-3001 Feb 20 j 15:49	20°♉44'05	
evening set	-3001 May 26 j 22:03	24°♉09'08	
conjunction	-3001 Jun 12 j 17:02	25°♉10'44	0°05'19
minimum elong	-3001 Jun 12 j 17:02	25°♉10'44	0°05'24
behind sun begin	-3001 Jun 12 j 10:30	25°♉09'45	
behind sun end	-3001 Jun 12 j 23:34	25°♉11'43	
max. Earth dist.	-3001 Jun 11 j 12:45	25°♉06'23	19.53047 AU
morning rise	-3001 Jun 29 j 09:10	26°♉11'59	
retrograde	-3001 Sep 29 j 13:42	29°♉32'12	
opposition	-3001 Dec 12 j 00:33	27°♉29'51	0°07'58
min. Earth dist.	-3001 Dec 13 j 01:10	27°♉27'10	17.50705 AU
direct	-3000 Feb 25 j 15:36	25°♉24'22	
evening set	-3000 May 31 j 01:59	28°♉50'25	
conjunction	-3000 Jun 16 j 20:12	29°♉52'09	0°09'08
minimum elong	-3000 Jun 16 j 20:12	29°♉52'09	0°09'13
behind sun begin	-3000 Jun 16 j 14:31	29°♉51'17	
behind sun end	-3000 Jun 17 j 01:54	29°♉53'00	
max. Earth dist.	-3000 Jun 15 j 13:59	29°♉47'28	19.48417 AU
	-3000 Jun 18 j 23:00	0°♊	
morning rise	-3000 Jul 03 j 11:39	0°♊53'29	
retrograde	-3000 Oct 03 j 11:31	4°♊14'00	
opposition	-3000 Dec 15 j 21:24	2°♊11'36	0°12'13
min. Earth dist.	-3000 Dec 16 j 22:37	2°♊08'51	17.46290 AU
direct	-2999 Mar 01 j 15:58	0°♊05'49	
evening set	-2999 Jun 05 j 06:07	3°♊32'49	
conjunction	-2999 Jun 21 j 23:49	4°♊34'38	0°12'53
minimum elong	-2999 Jun 21 j 23:49	4°♊34'38	0°12'58
behind sun begin	-2999 Jun 21 j 19:49	4°♊34'02	
behind sun end	-2999 Jun 22 j 03:49	4°♊35'14	
max. Earth dist.	-2999 Jun 20 j 18:15	4°♊30'03	19.44214 AU
morning rise	-2999 Jul 08 j 14:09	5°♊36'01	
retrograde	-2999 Oct 08 j 10:28	8°♊56'49	
opposition	-2999 Dec 20 j 19:06	6°♊54'23	0°16'23
min. Earth dist.	-2999 Dec 21 j 20:37	6°♊51'36	17.42326 AU
direct	-2998 Mar 06 j 17:14	4°♊48'20	
evening set	-2998 Jun 10 j 10:32	8°♊16'10	
max. Earth dist.	-2998 Jun 25 j 20:27	9°♊13'16	19.40506 AU
conjunction	-2998 Jun 27 j 03:14	9°♊18'03	0°16'35
minimum elong	-2998 Jun 27 j 03:14	9°♊18'03	0°16'41
morning rise	-2998 Jul 13 j 16:39	10°♊19'29	
retrograde	-2998 Oct 13 j 09:18	13°♊40'31	
opposition	-2998 Dec 25 j 17:25	11°♊38'04	0°20'27
min. Earth dist.	-2998 Dec 26 j 19:15	11°♊35'15	17.38905 AU
direct	-2997 Mar 11 j 18:17	9°♊31'46	
evening set	-2997 Jun 15 j 15:00	13°♊00'23	
max. Earth dist.	-2997 Jul 01 j 01:18	13°♊57'41	19.37369 AU
conjunction	-2997 Jul 02 j 06:57	14°♊02'19	0°20'10
minimum elong	-2997 Jul 02 j 06:57	14°♊02'19	0°20'15
morning rise	-2997 Jul 18 j 19:11	15°♊03'45	
retrograde	-2997 Oct 18 j 09:21	18°♊24'59	
opposition	-2997 Dec 30 j 16:15	16°♊22'33	0°24'24
min. Earth dist.	-2997 Dec 31 j 17:34	16°♊19'47	17.36065 AU
direct	-2996 Mar 15 j 20:08	14°♊16'06	
evening set	-2996 Jun 19 j 19:44	17°♊45'23	
max. Earth dist.	-2996 Jul 05 j 04:25	18°♊42'36	19.34836 AU
conjunction	-2996 Jul 06 j 10:38	18°♊47'20	0°23'38
minimum elong	-2996 Jul 06 j 10:38	18°♊47'20	0°23'44
morning rise	-2996 Jul 22 j 21:47	19°♊48'45	
retrograde	-2996 Oct 22 j 09:07	23°♊10'10	
opposition	-2995 Jan 03 j 15:48	21°♊07'47	0°28'11
min. Earth dist.	-2995 Jan 04 j 17:23	21°♊04'59	17.33855 AU
direct	-2995 Mar 20 j 21:26	19°♊01'13	
evening set	-2995 Jun 25 j 00:28	22°♊31'07	
max. Earth dist.	-2995 Jul 10 j 09:20	23°♊28'29	19.32938 AU
conjunction	-2995 Jul 11 j 14:22	23°♊33'02	0°26'57
minimum elong	-2995 Jul 11 j 14:22	23°♊33'02	0°27'03
morning rise	-2995 Jul 28 j 00:17	24°♊34'25	
retrograde	-2995 Oct 27 j 09:59	27°♊55'57	
opposition	-2994 Jan 08 j 15:50	25°♊53'41	0°31'48
min. Earth dist.	-2994 Jan 09 j 16:19	25°♊51'01	17.32258 AU

Attention, astronomical year style is used: The year -2994 in astronomical counting style is the year 2995 BCE in historical counting style.

direct	-2994 Mar 26 j 00:30	23°♊47'05	
evening set	-2994 Jun 30 j 05:16	27°♊17'28	
conjunction	-2994 Jul 16 j 18:00	28°♊19'22	0°30'05
minimum elong	-2994 Jul 16 j 18:00	28°♊19'22	0°30'11
max. Earth dist.	-2994 Jul 15 j 13:15	28°♊14'50	19.31648 AU
morning rise	-2994 Aug 02 j 02:40	29°♊20'40	
	-2994 Aug 13 j 00:33	0°♋	
retrograde	-2994 Nov 01 j 09:44	2°♋42'20	
opposition	-2993 Jan 13 j 16:32	0°♋40'10	0°35'11
min. Earth dist.	-2993 Jan 14 j 17:22	0°♋37'28	17.31277 AU
	-2993 Jan 29 j 07:34	30°℞♊	
direct	-2993 Mar 31 j 02:10	28°♊33'35	
	-2993 May 28 j 17:51	0°♋	
evening set	-2993 Jul 05 j 09:46	2°♋04'21	
conjunction	-2993 Jul 21 j 21:22	3°♋06'10	0°33'02
minimum elong	-2993 Jul 21 j 21:22	3°♋06'10	0°33'08
max. Earth dist.	-2993 Jul 20 j 17:33	3°♋01'47	19.30956 AU
morning rise	-2993 Aug 07 j 04:51	4°♋07'23	
retrograde	-2993 Nov 06 j 11:06	7°♋29'06	
opposition	-2992 Jan 18 j 17:35	5°♋27'04	0°38'21
min. Earth dist.	-2992 Jan 19 j 16:59	5°♋24'31	17.30850 AU
direct	-2992 Apr 04 j 06:44	3°♋20'32	
evening set	-2992 Jul 09 j 14:19	6°♋51'34	
max. Earth dist.	-2992 Jul 24 j 21:48	7°♋49'02	19.30788 AU
conjunction	-2992 Jul 26 j 00:43	7°♋53'17	0°35'45
minimum elong	-2992 Jul 26 j 00:42	7°♋53'17	0°35'50
morning rise	-2992 Aug 11 j 06:48	8°♋54'23	
retrograde	-2992 Nov 10 j 10:20	12°♋16'06	
opposition	-2991 Jan 22 j 19:07	10°♋14'12	0°41'15
min. Earth dist.	-2991 Jan 23 j 18:57	10°♋11'37	17.30946 AU
direct	-2991 Apr 09 j 09:21	8°♋07'44	
evening set	-2991 Jul 14 j 18:39	11°♋38'54	
max. Earth dist.	-2991 Jul 30 j 01:19	12°♋36'19	19.31135 AU
conjunction	-2991 Jul 31 j 03:41	12°♋40'29	0°38'13
minimum elong	-2991 Jul 31 j 03:41	12°♋40'29	0°38'18
morning rise	-2991 Aug 16 j 08:35	13°♋41'27	
retrograde	-2991 Nov 15 j 11:34	17°♋03'08	
opposition	-2990 Jan 27 j 21:00	15°♋01'20	0°43'51
min. Earth dist.	-2990 Jan 28 j 19:04	14°♋58'57	17.31528 AU
direct	-2990 Apr 14 j 14:58	12°♋54'58	
evening set	-2990 Jul 19 j 22:22	16°♋26'07	
max. Earth dist.	-2990 Aug 04 j 05:30	17°♋23'38	19.31949 AU
conjunction	-2990 Aug 05 j 06:12	17°♋27'32	0°40'25
minimum elong	-2990 Aug 05 j 06:12	17°♋27'32	0°40'30
morning rise	-2990 Aug 21 j 09:40	18°♋28'21	
retrograde	-2990 Nov 20 j 10:27	21°♋49'56	
opposition	-2989 Feb 01 j 23:18	19°♋48'15	0°46'09
min. Earth dist.	-2989 Feb 02 j 21:27	19°♋45'51	17.32578 AU
direct	-2989 Apr 19 j 18:22	17°♋41'58	
evening set	-2989 Jul 25 j 01:47	21°♋12'59	
max. Earth dist.	-2989 Aug 09 j 07:54	22°♋10'23	19.33234 AU
conjunction	-2989 Aug 10 j 08:12	22°♋14'14	0°42'20
minimum elong	-2989 Aug 10 j 08:12	22°♋14'14	0°42'24
morning rise	-2989 Aug 26 j 10:34	23°♋14'51	
retrograde	-2989 Nov 25 j 11:01	26°♋36'16	
opposition	-2988 Feb 07 j 01:23	24°♋34'40	0°48'08
min. Earth dist.	-2988 Feb 07 j 21:34	24°♋32'30	17.34087 AU
direct	-2988 Apr 24 j 00:25	22°♋28'30	
evening set	-2988 Jul 29 j 04:30	25°♋59'16	
max. Earth dist.	-2988 Aug 13 j 11:46	26°♋56'50	19.34968 AU
conjunction	-2988 Aug 14 j 09:47	27°♋00'18	0°43'57
minimum elong	-2988 Aug 14 j 09:47	27°♋00'18	0°44'02
morning rise	-2988 Aug 30 j 10:45	28°♋00'45	
	-2988 Oct 05 j 06:43	0°♌	
retrograde	-2988 Nov 29 j 09:12	1°♌21'56	
	-2987 Jan 26 j 12:33	30°℞♋	
opposition	-2987 Feb 11 j 03:51	29°♋20'25	0°49'45
min. Earth dist.	-2987 Feb 11 j 23:44	29°♋18'17	17.36046 AU
direct	-2987 Apr 29 j 04:11	27°♋14'23	
	-2987 Jul 21 j 20:43	0°♌	
evening set	-2987 Aug 03 j 06:36	0°♌44'44	
conjunction	-2987 Aug 19 j 10:25	1°♌45'33	0°45'15
minimum elong	-2987 Aug 19 j 10:25	1°♌45'33	0°45'20
max. Earth dist.	-2987 Aug 18 j 12:59	1°♌42'10	19.37169 AU
morning rise	-2987 Sep 04 j 10:20	2°♌45'47	
retrograde	-2987 Dec 04 j 09:01	6°♌06'43	
opposition	-2986 Feb 16 j 06:09	4°♌05'15	0°51'02
min. Earth dist.	-2986 Feb 16 j 23:48	4°♌03'21	17.38482 AU
direct	-2986 May 04 j 09:25	1°♌59'21	
evening set	-2986 Aug 08 j 07:44	5°♌29'10	
conjunction	-2986 Aug 24 j 10:28	6°♌29'46	0°46'14
minimum elong	-2986 Aug 24 j 10:28	6°♌29'46	0°46'20
max. Earth dist.	-2986 Aug 23 j 16:00	6°♌26'51	19.39849 AU
morning rise	-2986 Sep 09 j 09:04	7°♌29'46	
retrograde	-2986 Dec 09 j 06:54	10°♌50'22	
opposition	-2985 Feb 21 j 08:25	8°♌48'58	0°51'58
min. Earth dist.	-2985 Feb 22 j 01:04	8°♌47'11	17.41406 AU
direct	-2985 May 09 j 12:48	6°♌43'15	
evening set	-2985 Aug 13 j 08:06	10°♌12'25	
conjunction	-2985 Aug 29 j 09:26	11°♌12'45	0°46'55
minimum elong	-2985 Aug 29 j 09:26	11°♌12'44	0°46'59
max. Earth dist.	-2985 Aug 28 j 15:55	11°♌09'59	19.43035 AU
morning rise	-2985 Sep 14 j 07:08	12°♌12'31	
	-2985 Nov 09 j 20:22	15°♌	
retrograde	-2985 Dec 14 j 05:38	15°♌32'46	
	-2984 Jan 18 j 15:35	15°℞♌	
opposition	-2984 Feb 26 j 10:24	13°♌31'25	0°52'32
min. Earth dist.	-2984 Feb 27 j 00:42	13°♌29'53	17.44851 AU
direct	-2984 May 13 j 15:46	11°♌25'53	
evening set	-2984 Aug 17 j 07:31	14°♌54'20	
	-2984 Aug 18 j 20:22	15°♌	
conjunction	-2984 Sep 02 j 07:46	15°♌54'24	0°47'16
minimum elong	-2984 Sep 02 j 07:46	15°♌54'24	0°47'20
max. Earth dist.	-2984 Sep 01 j 17:34	15°♌52'09	19.46741 AU
morning rise	-2984 Sep 18 j 04:14	16°♌53'55	
retrograde	-2984 Dec 18 j 03:38	20°♌13'45	
opposition	-2983 Mar 02 j 12:13	18°♌12'30	0°52'45
min. Earth dist.	-2983 Mar 03 j 00:45	18°♌11'10	17.48814 AU
direct	-2983 May 18 j 18:43	16°♌07'14	
evening set	-2983 Aug 22 j 06:12	19°♌34'51	
conjunction	-2983 Sep 07 j 05:08	20°♌34'38	0°47'19
minimum elong	-2983 Sep 07 j 05:08	20°♌34'38	0°47'23
max. Earth dist.	-2983 Sep 06 j 16:16	20°♌32'36	19.50981 AU
morning rise	-2983 Sep 23 j 00:43	21°♌33'54	
retrograde	-2983 Dec 23 j 01:18	24°♌53'21	
opposition	-2982 Mar 07 j 13:50	22°♌52'11	0°52'37
min. Earth dist.	-2982 Mar 07 j 23:57	22°♌51'07	17.53323 AU
direct	-2982 May 23 j 19:41	20°♌47'14	
evening set	-2982 Aug 27 j 03:42	24°♌13'56	
conjunction	-2982 Sep 12 j 01:40	25°♌13'26	0°47'04
minimum elong	-2982 Sep 12 j 01:40	25°♌13'26	0°47'06

Attention, astronomical year style is used: The year -2982 in astronomical counting style is the year 2983 BCE in historical counting style.

max. Earth dist.	-2982 Sep 11 j 16:13	25°♌11'57	19.55749 AU
morning rise	-2982 Sep 27 j 20:14	26°♌12'27	
retrograde	-2982 Dec 27 j 23:16	29°♌31'27	
opposition	-2981 Mar 12 j 15:04	27°♌30'26	0°52'08
min. Earth dist.	-2981 Mar 12 j 22:53	27°♌29'37	17.58318 AU
direct	-2981 May 28 j 22:28	25°♌25'52	
evening set	-2981 Sep 01 j 00:35	28°♌51'36	
conjunction	-2981 Sep 16 j 21:22	29°♌50'48	0°46'30
minimum elong	-2981 Sep 16 j 21:22	29°♌50'48	0°46'33
max. Earth dist.	-2981 Sep 16 j 13:28	29°♌49'34	19.60980 AU
	-2981 Sep 19 j 08:07	0°♍	
morning rise	-2981 Oct 02 j 15:12	0°♍49'33	
retrograde	-2980 Jan 01 j 19:11	4°♍08'06	
opposition	-2980 Mar 16 j 15:48	2°♍07'15	0°51'20
min. Earth dist.	-2980 Mar 16 j 21:44	2°♍06'37	17.63763 AU
direct	-2980 Jun 01 j 22:25	0°♍03'04	
evening set	-2980 Sep 04 j 20:29	3°♍27'47	
conjunction	-2980 Sep 20 j 16:22	4°♍26'40	0°45'39
minimum elong	-2980 Sep 20 j 16:22	4°♍26'40	0°45'41
max. Earth dist.	-2980 Sep 20 j 11:31	4°♍25'55	19.66622 AU
morning rise	-2980 Oct 06 j 09:21	5°♍25'09	
retrograde	-2979 Jan 05 j 16:11	8°♍43'14	
opposition	-2979 Mar 21 j 16:18	6°♍42'33	0°50'12
min. Earth dist.	-2979 Mar 21 j 19:40	6°♍42'12	17.69562 AU
direct	-2979 Jun 07 j 00:48	4°♍38'49	
evening set	-2979 Sep 09 j 15:29	8°♍02'25	
conjunction	-2979 Sep 25 j 10:19	9°♍01'00	0°44'30
minimum elong	-2979 Sep 25 j 10:19	9°♍01'00	0°44'32
max. Earth dist.	-2979 Sep 25 j 07:14	9°♍00'31	19.72577 AU
morning rise	-2979 Oct 11 j 02:40	9°♍59'13	
retrograde	-2978 Jan 10 j 10:41	13°♍16'50	
opposition	-2978 Mar 26 j 16:29	11°♍16'17	0°48'46
min. Earth dist.	-2978 Mar 26 j 18:19	11°♍16'06	17.75659 AU
direct	-2978 Jun 11 j 23:42	9°♍12'59	
evening set	-2978 Sep 14 j 09:35	12°♍35'25	
conjunction	-2978 Sep 30 j 03:38	13°♍33'42	0°43'05
minimum elong	-2978 Sep 30 j 03:38	13°♍33'42	0°43'07
max. Earth dist.	-2978 Sep 30 j 03:07	13°♍33'37	19.78793 AU
morning rise	-2978 Oct 15 j 19:20	14°♍31'39	
retrograde	-2977 Jan 15 j 06:12	17°♍48'44	
opposition	-2977 Mar 31 j 15:55	15°♍48'21	0°47'02
min. Earth dist.	-2977 Mar 31 j 15:02	15°♍48'27	17.81960 AU
direct	-2977 Jun 17 j 00:45	13°♍45'29	
evening set	-2977 Sep 19 j 02:51	17°♍06'43	
conjunction	-2977 Oct 04 j 20:04	18°♍04'41	0°41'25
minimum elong	-2977 Oct 04 j 20:04	18°♍04'41	0°41'25
max. Earth dist.	-2977 Oct 04 j 21:20	18°♍04'53	19.85170 AU
morning rise	-2977 Oct 20 j 11:17	19°♍02'22	
retrograde	-2976 Jan 19 j 23:22	22°♍18'56	
opposition	-2976 Apr 04 j 15:01	20°♍18'41	0°45'00
min. Earth dist.	-2976 Apr 04 j 13:00	20°♍18'53	17.88404 AU
direct	-2976 Jun 20 j 22:06	18°♍16'12	
evening set	-2976 Sep 22 j 19:08	21°♍36'12	
conjunction	-2976 Oct 08 j 11:38	22°♍33'52	0°39'29
minimum elong	-2976 Oct 08 j 11:38	22°♍33'52	0°39'30
max. Earth dist.	-2976 Oct 08 j 14:58	22°♍34'23	19.91658 AU
morning rise	-2976 Oct 24 j 02:23	23°♍31'17	
retrograde	-2975 Jan 23 j 17:44	26°♍47'17	
opposition	-2975 Apr 09 j 13:24	24°♍47'09	0°42'43
min. Earth dist.	-2975 Apr 09 j 08:31	24°♍47'39	17.94913 AU
direct	-2975 Jun 25 j 21:16	22°♍45'05	
evening set	-2975 Sep 27 j 10:34	26°♍03'47	
conjunction	-2975 Oct 13 j 02:25	27°♍01'09	0°37'20
minimum elong	-2975 Oct 13 j 02:25	27°♍01'09	0°37'21
max. Earth dist.	-2975 Oct 13 j 07:43	27°♍01'58	19.98187 AU
morning rise	-2975 Oct 28 j 16:48	27°♍58'19	
	-2975 Dec 05 j 18:55	0°♎	
retrograde	-2974 Jan 28 j 09:41	1°♎13'45	
	-2974 Mar 26 j 05:08	30°℞♍	
opposition	-2974 Apr 14 j 11:17	29°♍13'42	0°40'12
min. Earth dist.	-2974 Apr 14 j 05:29	29°♍14'18	18.01460 AU
direct	-2974 Jun 30 j 17:01	27°♍12'01	
	-2974 Sep 23 j 17:00	0°♎	
evening set	-2974 Oct 02 j 00:54	0°♎29'23	
conjunction	-2974 Oct 17 j 16:14	1°♎26'28	0°34'59
minimum elong	-2974 Oct 17 j 16:14	1°♎26'28	0°34'59
max. Earth dist.	-2974 Oct 17 j 23:15	1°♎27'32	20.04743 AU
morning rise	-2974 Nov 02 j 06:25	2°♎23'23	
retrograde	-2973 Feb 02 j 02:49	5°♎38'14	
opposition	-2973 Apr 19 j 08:13	3°♎38'14	0°37'27
min. Earth dist.	-2973 Apr 18 j 23:32	3°♎39'07	18.08004 AU
direct	-2973 Jul 05 j 14:15	1°♎36'54	
evening set	-2973 Oct 06 j 14:22	4°♎52'57	
conjunction	-2973 Oct 22 j 05:14	5°♎49'45	0°32'26
minimum elong	-2973 Oct 22 j 05:14	5°♎49'45	0°32'25
max. Earth dist.	-2973 Oct 22 j 14:26	5°♎51'09	20.11279 AU
morning rise	-2973 Nov 06 j 19:11	6°♎46'25	
retrograde	-2972 Feb 06 j 17:10	10°♎00'40	
opposition	-2972 Apr 23 j 04:28	8°♎00'43	0°34'31
min. Earth dist.	-2972 Apr 22 j 18:59	8°♎01'41	18.14544 AU
direct	-2972 Jul 09 j 08:10	5°♎59'44	
evening set	-2972 Oct 10 j 02:53	9°♎14'27	
conjunction	-2972 Oct 25 j 17:19	10°♎10'57	0°29'43
minimum elong	-2972 Oct 25 j 17:19	10°♎10'58	0°29'42
max. Earth dist.	-2972 Oct 26 j 04:08	10°♎12'36	20.17830 AU
morning rise	-2972 Nov 10 j 07:13	11°♎07'24	
retrograde	-2971 Feb 10 j 09:08	14°♎21'03	
opposition	-2971 Apr 27 j 23:54	12°♎21'08	0°31'24
min. Earth dist.	-2971 Apr 27 j 11:21	12°♎22'25	18.21098 AU
direct	-2971 Jul 14 j 03:23	10°♎20'30	
evening set	-2971 Oct 14 j 14:20	13°♎33'53	
conjunction	-2971 Oct 30 j 04:29	14°♎30'08	0°26'52
minimum elong	-2971 Oct 30 j 04:29	14°♎30'08	0°26'51
max. Earth dist.	-2971 Oct 30 j 17:53	14°♎32'10	20.24389 AU
morning rise	-2971 Nov 14 j 18:19	15°♎26'22	
retrograde	-2970 Feb 14 j 22:07	18°♎39'27	
opposition	-2970 May 02 j 18:43	16°♎39'34	0°28'08
min. Earth dist.	-2970 May 02 j 05:13	16°♎40'57	18.27679 AU
direct	-2970 Jul 18 j 19:15	14°♎39'18	
evening set	-2970 Oct 19 j 01:08	17°♎51'24	
conjunction	-2970 Nov 03 j 15:00	18°♎47'24	0°23'53
minimum elong	-2970 Nov 03 j 15:00	18°♎47'24	0°23'50
max. Earth dist.	-2970 Nov 04 j 05:48	18°♎49'37	20.30986 AU
morning rise	-2970 Nov 19 j 04:57	19°♎43'24	
retrograde	-2969 Feb 19 j 13:06	22°♎55'55	
opposition	-2969 May 07 j 12:21	20°♎56'07	0°24'45
min. Earth dist.	-2969 May 06 j 19:56	20°♎57'47	18.34285 AU
direct	-2969 Jul 23 j 12:13	18°♎56'14	
evening set	-2969 Oct 23 j 11:03	22°♎07'05	
conjunction	-2969 Nov 08 j 00:49	23°♎02'51	0°20'47
minimum elong	-2969 Nov 08 j 00:49	23°♎02'51	0°20'45

Attention, astronomical year style is used: The year -2969 in astronomical counting style is the year 2970 BCE in historical counting style.

max. Earth dist.	-2969 Nov 08 j 18:09	23°♎05'27	20.37586 AU
morning rise	-2969 Nov 23 j 14:49	23°♎58'40	
retrograde	-2968 Feb 24 j 01:15	27°♎10'39	
opposition	-2968 May 11 j 05:32	25°♎10'57	0°21'15
min. Earth dist.	-2968 May 10 j 12:17	25°♎12'42	18.40882 AU
direct	-2968 Jul 27 j 01:58	23°♎11'28	
evening set	-2968 Oct 26 j 20:13	26°♎21'07	
conjunction	-2968 Nov 11 j 09:48	27°♎16'39	0°17'36
minimum elong	-2968 Nov 11 j 09:48	27°♎16'39	0°17'33
max. Earth dist.	-2968 Nov 12 j 04:17	27°♎19'24	20.44170 AU
morning rise	-2968 Nov 27 j 00:05	28°♎12'17	
	-2968 Dec 31 j 00:12	0°♏	
retrograde	-2967 Feb 27 j 15:19	1°♏23'47	
	-2967 Apr 30 j 21:54	30°℞♎	
opposition	-2967 May 15 j 21:56	29°♎24'11	0°17'40
min. Earth dist.	-2967 May 15 j 02:01	29°♎26'12	18.47433 AU
direct	-2967 Jul 31 j 17:24	27°♎25'07	
	-2967 Oct 21 j 09:01	0°♏	
evening set	-2967 Oct 31 j 04:44	0°♏33'36	
conjunction	-2967 Nov 15 j 18:24	1°♏28'55	0°14'20
minimum elong	-2967 Nov 15 j 18:24	1°♏28'55	0°14'18
behind sun begin	-2967 Nov 15 j 15:10	1°♏28'27	
behind sun end	-2967 Nov 15 j 21:39	1°♏29'24	
max. Earth dist.	-2967 Nov 16 j 15:20	1°♏32'03	20.50666 AU
morning rise	-2967 Dec 01 j 08:52	2°♏24'23	
retrograde	-2966 Mar 04 j 03:14	5°♏35'25	
opposition	-2966 May 20 j 13:40	3°♏35'57	0°14'00
min. Earth dist.	-2966 May 19 j 17:10	3°♏38'01	18.53871 AU
direct	-2966 Aug 05 j 05:48	1°♏37'17	
evening set	-2966 Nov 04 j 12:41	4°♏44'39	
conjunction	-2966 Nov 20 j 02:21	5°♏39'46	0°11'01
minimum elong	-2966 Nov 20 j 02:21	5°♏39'46	0°10'58
behind sun begin	-2966 Nov 19 j 21:22	5°♏39'03	
behind sun end	-2966 Nov 20 j 07:20	5°♏40'30	
max. Earth dist.	-2966 Nov 20 j 23:58	5°♏42'59	20.57028 AU
morning rise	-2966 Dec 05 j 17:17	6°♏35'05	
retrograde	-2965 Mar 08 j 16:13	9°♏45'40	
min. Earth dist.	-2965 May 24 j 06:02	7°♏48'35	18.60134 AU
opposition	-2965 May 25 j 04:37	7°♏46'19	0°10'17
direct	-2965 Aug 09 j 19:27	5°♏48'03	
evening set	-2965 Nov 08 j 20:05	8°♏54'21	
conjunction	-2965 Nov 24 j 09:56	9°♏49'17	0°07'40
minimum elong	-2965 Nov 24 j 09:56	9°♏49'17	0°07'35
behind sun begin	-2965 Nov 24 j 03:59	9°♏48'26	
behind sun end	-2965 Nov 24 j 15:53	9°♏50'09	
max. Earth dist.	-2965 Nov 25 j 09:40	9°♏52'48	20.63160 AU
morning rise	-2965 Dec 10 j 01:07	10°♏44'26	
retrograde	-2964 Mar 12 j 03:22	13°♏54'37	
opposition	-2964 May 28 j 19:00	11°♏55'23	0°06'31
min. Earth dist.	-2964 May 27 j 20:07	11°♏57'40	18.66136 AU
direct	-2964 Aug 13 j 07:20	9°♏57'29	
evening set	-2964 Nov 12 j 03:07	13°♏02'45	
conjunction	-2964 Nov 27 j 17:03	13°♏57'31	0°04'17
minimum elong	-2964 Nov 27 j 17:03	13°♏57'31	0°04'13
behind sun begin	-2964 Nov 27 j 10:37	13°♏56'36	
behind sun end	-2964 Nov 27 j 23:29	13°♏58'27	
max. Earth dist.	-2964 Nov 28 j 16:58	14°♏01'03	20.69017 AU
morning rise	-2964 Dec 13 j 08:48	14°♏52'33	
	-2964 Dec 15 j 12:47	15°♏	
retrograde	-2963 Mar 16 j 15:20	18°♏02'19	
min. Earth dist.	-2963 Jun 01 j 08:16	16°♏05'37	18.71833 AU
opposition	-2963 Jun 02 j 08:44	16°♏03'10	0°02'45
	-2963 Jun 30 j 02:22	15°℞♏	
direct	-2963 Aug 17 j 19:05	14°♏05'36	
	-2963 Oct 03 j 09:50	15°♏	
evening set	-2963 Nov 16 j 09:34	17°♏09'54	
conjunction	-2963 Dec 01 j 23:53	18°♏04'31	0°00'50
minimum elong	-2963 Dec 01 j 23:53	18°♏04'31	0°00'45
behind sun begin	-2963 Dec 01 j 17:21	18°♏03'35	
behind sun end	-2963 Dec 02 j 06:24	18°♏05'27	
max. Earth dist.	-2963 Dec 03 j 01:32	18°♏08'17	20.74517 AU
morning rise	-2963 Dec 17 j 16:03	18°♏59'25	
desc. node	-2962 Feb 27 j 10:58	21°♏57'16	
retrograde	-2962 Mar 21 j 01:29	22°♏08'48	
opposition	-2962 Jun 06 j 21:52	20°♏09'43	-0°01'01
min. Earth dist.	-2962 Jun 05 j 21:21	20°♏12'10	18.77137 AU
direct	-2962 Aug 22 j 06:20	18°♏12'27	
evening set	-2962 Nov 20 j 15:50	21°♏15'48	
conjunction	-2962 Dec 06 j 06:23	22°♏10'17	-0°02'39
minimum elong	-2962 Dec 06 j 06:22	22°♏10'17	0°02'43
behind sun begin	-2962 Dec 05 j 23:51	22°♏09'21	
behind sun end	-2962 Dec 06 j 12:53	22°♏11'12	
max. Earth dist.	-2962 Dec 07 j 07:38	22°♏13'59	20.79611 AU
morning rise	-2962 Dec 21 j 23:13	23°♏05'04	
retrograde	-2961 Mar 25 j 12:12	26°♏14'04	
min. Earth dist.	-2961 Jun 10 j 08:35	24°♏17'34	18.82015 AU
opposition	-2961 Jun 11 j 10:07	24°♏15'01	-0°04'46
direct	-2961 Aug 26 j 16:29	22°♏17'58	
evening set	-2961 Nov 24 j 21:33	25°♏20'27	
conjunction	-2961 Dec 10 j 12:35	26°♏14'48	-0°06'01
minimum elong	-2961 Dec 10 j 12:35	26°♏14'48	0°06'06
behind sun begin	-2961 Dec 10 j 06:21	26°♏13'55	
behind sun end	-2961 Dec 10 j 18:49	26°♏15'41	
max. Earth dist.	-2961 Dec 11 j 15:15	26°♏18'42	20.84252 AU
morning rise	-2961 Dec 26 j 05:56	27°♏09'31	
	-2960 Mar 01 j 15:42	0°♐	
retrograde	-2960 Mar 28 j 21:04	0°♐18'08	
	-2960 Apr 25 j 14:13	30°℞♏	
opposition	-2960 Jun 14 j 21:56	28°♏19'04	-0°08'28
min. Earth dist.	-2960 Jun 13 j 20:27	28°♏21'37	18.86428 AU
direct	-2960 Aug 30 j 02:40	26°♏22'14	
evening set	-2960 Nov 28 j 02:48	29°♏23'50	
	-2960 Dec 08 j 14:04	0°♐	
conjunction	-2960 Dec 13 j 18:11	0°♐18'05	-0°09'19
minimum elong	-2960 Dec 13 j 18:11	0°♐18'05	0°09'24
behind sun begin	-2960 Dec 13 j 12:41	0°♐17'18	
behind sun end	-2960 Dec 13 j 23:42	0°♐18'52	
max. Earth dist.	-2960 Dec 14 j 20:24	0°♐21'54	20.88449 AU
morning rise	-2960 Dec 29 j 12:21	1°♐12'43	
retrograde	-2959 Apr 02 j 07:04	4°♐21'00	
min. Earth dist.	-2959 Jun 18 j 06:48	2°♐24'30	18.90411 AU
opposition	-2959 Jun 19 j 09:04	2°♐21'53	-0°12'06
direct	-2959 Sep 03 j 11:29	0°♐25'11	
evening set	-2959 Dec 02 j 07:43	3°♐26'00	
conjunction	-2959 Dec 17 j 23:44	4°♐20'10	-0°12'33
minimum elong	-2959 Dec 17 j 23:44	4°♐20'10	0°12'38
behind sun begin	-2959 Dec 17 j 19:29	4°♐19'34	
behind sun end	-2959 Dec 18 j 03:59	4°♐20'46	
max. Earth dist.	-2959 Dec 19 j 03:25	4°♐24'11	20.92211 AU
morning rise	-2958 Jan 02 j 18:30	5°♐14'44	
retrograde	-2958 Apr 06 j 14:33	8°♐22'41	
opposition	-2958 Jun 23 j 19:24	6°♐23'31	-0°15'39
min. Earth dist.	-2958 Jun 22 j 17:12	6°♐26'08	18.93975 AU
direct	-2958 Sep 07 j 20:07	4°♐26'56	

Attention, astronomical year style is used: The year -2958 in astronomical counting style is the year 2959 BCE in historical counting style.

evening set	-2958 Dec 06 j 12:25	7°♐27'02	
conjunction	-2958 Dec 22 j 04:53	8°♐21'07	-0°15'43
minimum elong	-2958 Dec 22 j 04:53	8°♐21'07	0°15'49
behind sun begin	-2958 Dec 22 j 03:25	8°♐20'55	
behind sun end	-2958 Dec 22 j 06:20	8°♐21'19	
max. Earth dist.	-2958 Dec 23 j 08:00	8°♐25'02	20.95587 AU
morning rise	-2957 Jan 07 j 00:33	9°♐15'38	
retrograde	-2957 Apr 11 j 00:09	12°♐23'18	
min. Earth dist.	-2957 Jun 27 j 02:25	10°♐26'45	18.97172 AU
opposition	-2957 Jun 28 j 05:11	10°♐24'05	-0°19'06
direct	-2957 Sep 12 j 03:25	8°♐27'35	
evening set	-2957 Dec 10 j 16:41	11°♐27'03	
conjunction	-2957 Dec 26 j 09:51	12°♐21'05	-0°18'48
minimum elong	-2957 Dec 26 j 09:51	12°♐21'05	0°18'53
max. Earth dist.	-2957 Dec 27 j 14:25	12°♐25'13	20.98591 AU
morning rise	-2956 Jan 11 j 06:08	13°♐15'34	
retrograde	-2956 Apr 14 j 06:56	16°♐23'00	
min. Earth dist.	-2956 Jun 30 j 11:37	14°♐26'25	19.00005 AU
opposition	-2956 Jul 01 j 14:27	14°♐23'44	-0°22'27
direct	-2956 Sep 15 j 10:43	12°♐27'22	
evening set	-2956 Dec 13 j 20:58	15°♐26'16	
conjunction	-2956 Dec 29 j 14:41	16°♐20'15	-0°21'46
minimum elong	-2956 Dec 29 j 14:41	16°♐20'15	0°21'52
max. Earth dist.	-2956 Dec 30 j 18:34	16°♐24'16	21.01259 AU
morning rise	-2955 Jan 14 j 11:56	17°♐14'44	
retrograde	-2955 Apr 18 j 16:11	20°♐21'59	
opposition	-2955 Jul 05 j 23:14	18°♐22'41	-0°25'41
min. Earth dist.	-2955 Jul 04 j 20:06	18°♐25'23	19.02509 AU
direct	-2955 Sep 19 j 16:39	16°♐26'24	
evening set	-2955 Dec 18 j 01:02	19°♐24'51	
conjunction	-2954 Jan 02 j 19:35	20°♐18'50	-0°24'38
minimum elong	-2954 Jan 02 j 19:35	20°♐18'50	0°24'43
max. Earth dist.	-2954 Jan 04 j 00:41	20°♐23'00	21.03576 AU
morning rise	-2954 Jan 18 j 17:36	21°♐13'18	
retrograde	-2954 Apr 22 j 23:24	24°♐20'24	
min. Earth dist.	-2954 Jul 09 j 04:33	22°♐23'48	19.04642 AU
opposition	-2954 Jul 10 j 07:32	22°♐21'06	-0°28'47
direct	-2954 Sep 23 j 22:56	20°♐24'56	
evening set	-2954 Dec 22 j 05:14	23°♐23'00	
conjunction	-2953 Jan 07 j 00:25	24°♐16'59	-0°27'23
minimum elong	-2953 Jan 07 j 00:25	24°♐16'59	0°27'29
max. Earth dist.	-2953 Jan 08 j 04:28	24°♐21'00	21.05528 AU
morning rise	-2953 Jan 22 j 23:27	25°♐11'29	
retrograde	-2953 Apr 27 j 08:07	28°♐18'30	
opposition	-2953 Jul 14 j 15:24	26°♐19'12	-0°31'45
min. Earth dist.	-2953 Jul 13 j 12:33	26°♐21'53	19.06405 AU
direct	-2953 Sep 28 j 03:54	24°♐23'08	
evening set	-2953 Dec 26 j 09:24	27°♐20'55	
conjunction	-2952 Jan 11 j 05:30	28°♐14'55	-0°30'00
minimum elong	-2952 Jan 11 j 05:30	28°♐14'55	0°30'05
max. Earth dist.	-2952 Jan 12 j 10:26	28°♐19'03	21.07084 AU
morning rise	-2952 Jan 27 j 05:18	29°♐09'27	
	-2952 Feb 11 j 20:22	0°♑	
retrograde	-2952 Apr 30 j 15:56	2°♑16'25	
opposition	-2952 Jul 17 j 23:03	0°♑17'09	-0°34'33
min. Earth dist.	-2952 Jul 16 j 20:35	0°♑19'48	19.07749 AU
	-2952 Jul 25 j 02:53	30°℞♐	
direct	-2952 Oct 01 j 09:33	28°♐21'11	
	-2952 Dec 04 j 09:29	0°♑	
evening set	-2952 Dec 29 j 13:43	1°♑18'44	

conjunction	-2951 Jan 14 j 10:32	2°♑12'47	-0°32'28
minimum elong	-2951 Jan 14 j 10:32	2°♑12'47	0°32'33
max. Earth dist.	-2951 Jan 15 j 14:05	2°♑16'43	21.08218 AU
morning rise	-2951 Jan 30 j 11:26	3°♑07'22	
retrograde	-2951 May 05 j 00:32	6°♑14'22	
min. Earth dist.	-2951 Jul 21 j 04:40	4°♑17'41	19.08654 AU
opposition	-2951 Jul 22 j 06:30	4°♑15'06	-0°37'12
direct	-2951 Oct 05 j 14:09	2°♑19'11	
evening set	-2950 Jan 02 j 18:19	5°♑16'37	
conjunction	-2950 Jan 18 j 16:09	6°♑10'43	-0°34'47
minimum elong	-2950 Jan 18 j 16:08	6°♑10'43	0°34'53
max. Earth dist.	-2950 Jan 19 j 20:05	6°♑14'42	21.08870 AU
morning rise	-2950 Feb 03 j 17:51	7°♑05'23	
retrograde	-2950 May 09 j 08:35	10°♑12'24	
opposition	-2950 Jul 26 j 13:30	8°♑13'09	-0°39'40
min. Earth dist.	-2950 Jul 25 j 12:29	8°♑15'40	19.09048 AU
direct	-2950 Oct 09 j 19:13	6°♑17'16	
evening set	-2949 Jan 06 j 23:19	9°♑14'39	
conjunction	-2949 Jan 22 j 21:54	10°♑08'49	-0°36'56
minimum elong	-2949 Jan 22 j 21:54	10°♑08'49	0°37'01
max. Earth dist.	-2949 Jan 23 j 23:51	10°♑12'31	21.09003 AU
morning rise	-2949 Feb 08 j 00:43	11°♑03'34	
retrograde	-2949 May 13 j 17:21	14°♑10'41	
opposition	-2949 Jul 30 j 20:32	12°♑11'24	-0°41'57
min. Earth dist.	-2949 Jul 29 j 20:38	12°♑13'48	19.08907 AU
direct	-2949 Oct 13 j 23:48	10°♑15'29	
evening set	-2948 Jan 11 j 04:20	13°♑12'52	
conjunction	-2948 Jan 27 j 03:58	14°♑07'09	-0°38'55
minimum elong	-2948 Jan 27 j 03:58	14°♑07'09	0°39'01
max. Earth dist.	-2948 Jan 28 j 05:56	14°♑10'51	21.08567 AU
morning rise	-2948 Feb 12 j 07:36	15°♑01'59	
retrograde	-2948 May 17 j 01:29	18°♑09'12	
min. Earth dist.	-2948 Aug 02 j 04:26	16°♑12'10	19.08175 AU
opposition	-2948 Aug 03 j 03:24	16°♑09'51	-0°44'01
direct	-2948 Oct 17 j 04:37	14°♑13'53	
evening set	-2947 Jan 14 j 09:53	17°♑11'19	
conjunction	-2947 Jan 30 j 10:22	18°♑05'42	-0°40'42
minimum elong	-2947 Jan 30 j 10:22	18°♑05'42	0°40'47
max. Earth dist.	-2947 Jan 31 j 10:02	18°♑09'04	21.07556 AU
morning rise	-2947 Feb 15 j 15:11	19°♑00'40	
retrograde	-2947 May 21 j 10:22	22°♑07'59	
opposition	-2947 Aug 07 j 10:05	20°♑08'32	-0°45'53
min. Earth dist.	-2947 Aug 06 j 12:34	20°♑10'42	19.06880 AU
direct	-2947 Oct 21 j 09:22	18°♑12'26	
evening set	-2946 Jan 18 j 15:35	21°♑09'59	
conjunction	-2946 Feb 03 j 17:15	22°♑04'30	-0°42'17
minimum elong	-2946 Feb 03 j 17:15	22°♑04'30	0°42'23
max. Earth dist.	-2946 Feb 04 j 16:43	22°♑07'50	21.05979 AU
morning rise	-2946 Feb 19 j 22:56	22°♑59'35	
retrograde	-2946 May 25 j 18:49	26°♑07'01	
opposition	-2946 Aug 11 j 16:34	24°♑07'27	-0°47'32
min. Earth dist.	-2946 Aug 10 j 20:04	24°♑09'32	19.05026 AU
direct	-2946 Oct 25 j 14:26	22°♑11'11	
evening set	-2945 Jan 22 j 21:43	25°♑08'55	
conjunction	-2945 Feb 08 j 00:13	26°♑03'34	-0°43'40
minimum elong	-2945 Feb 08 j 00:13	26°♑03'34	0°43'45
max. Earth dist.	-2945 Feb 08 j 21:22	26°♑06'34	21.03882 AU
morning rise	-2945 Feb 24 j 07:03	26°♑58'47	
	-2945 May 13 j 22:46	0°♒	
retrograde	-2945 May 30 j 03:30	0°♒06'23	
	-2945 Jun 15 j 11:36	30°℞♑	

Attention, astronomical year style is used: The year -2945 in astronomical counting style is the year 2946 BCE in historical counting style.

opposition	-2945 Aug 15 j 22:56	28°♓06'39	-0°48'57
min. Earth dist.	-2945 Aug 15 j 03:59	28°♓08'34	19.02695 AU
direct	-2945 Oct 29 j 18:43	26°♓10'11	
evening set	-2944 Jan 27 j 04:04	29°♓08'10	
	-2944 Feb 11 j 10:53	0°♒	
conjunction	-2944 Feb 12 j 07:44	0°♒02'58	-0°44'50
minimum elong	-2944 Feb 12 j 07:44	0°♒02'58	0°44'55
max. Earth dist.	-2944 Feb 13 j 04:47	0°♒05'58	21.01330 AU
morning rise	-2944 Feb 28 j 15:24	0°♒58'21	
retrograde	-2944 Jun 02 j 12:35	4°♒06'08	
min. Earth dist.	-2944 Aug 18 j 11:07	2°♒08'05	18.99934 AU
opposition	-2944 Aug 19 j 05:12	2°♒06'14	-0°50'07
direct	-2944 Nov 02 j 00:23	0°♒09'33	
evening set	-2943 Jan 30 j 10:55	3°♒07'51	
conjunction	-2943 Feb 15 j 15:30	4°♒02'49	-0°45'47
minimum elong	-2943 Feb 15 j 15:30	4°♒02'49	0°45'53
max. Earth dist.	-2943 Feb 16 j 10:13	4°♒05'29	20.98386 AU
morning rise	-2943 Mar 04 j 00:21	4°♒58'23	
retrograde	-2943 Jun 06 j 21:37	8°♒06'24	
opposition	-2943 Aug 23 j 11:33	6°♒06'20	-0°51'04
min. Earth dist.	-2943 Aug 22 j 19:05	6°♒08'01	18.96811 AU
direct	-2943 Nov 06 j 04:11	4°♒09'24	
evening set	-2942 Feb 03 j 18:16	7°♒08'07	
conjunction	-2942 Feb 20 j 00:03	8°♒03'17	-0°46'31
minimum elong	-2942 Feb 20 j 00:03	8°♒03'17	0°46'35
max. Earth dist.	-2942 Feb 20 j 18:31	8°♒05'55	20.95085 AU
morning rise	-2942 Mar 08 j 09:42	8°♒59'01	
retrograde	-2942 Jun 11 j 07:24	12°♒07'17	
opposition	-2942 Aug 27 j 17:43	10°♒07'06	-0°51'45
min. Earth dist.	-2942 Aug 27 j 02:09	10°♒08'41	18.93341 AU
direct	-2942 Nov 10 j 10:21	8°♒09'56	
evening set	-2941 Feb 08 j 02:14	11°♒09'09	
conjunction	-2941 Feb 24 j 08:55	12°♒04'30	-0°47'02
minimum elong	-2941 Feb 24 j 08:55	12°♒04'30	0°47'06
max. Earth dist.	-2941 Feb 25 j 00:51	12°♒06'47	20.91470 AU
morning rise	-2941 Mar 12 j 19:41	13°♒00'26	
	-2941 Apr 22 j 08:12	15°♒	
retrograde	-2941 Jun 15 j 17:06	16°♒09'01	
	-2941 Aug 10 j 11:26	15°℞♒	
min. Earth dist.	-2941 Aug 31 j 10:24	14°♒10'07	18.89579 AU
opposition	-2941 Sep 01 j 00:15	14°♒08'41	-0°52'12
direct	-2941 Nov 14 j 14:39	12°♒11'18	
	-2940 Feb 09 j 02:39	15°♒	
evening set	-2940 Feb 12 j 10:32	15°♒11'04	
conjunction	-2940 Feb 28 j 18:25	16°♒06'39	-0°47'19
minimum elong	-2940 Feb 28 j 18:25	16°♒06'39	0°47'22
max. Earth dist.	-2940 Feb 29 j 10:04	16°♒08'53	20.87560 AU
morning rise	-2940 Mar 16 j 05:59	17°♒02'47	
retrograde	-2940 Jun 19 j 03:37	20°♒11'43	
opposition	-2940 Sep 04 j 06:54	18°♒11'17	-0°52'23
min. Earth dist.	-2940 Sep 03 j 17:55	18°♒12'38	18.85518 AU
direct	-2940 Nov 17 j 21:01	16°♒13'40	
evening set	-2939 Feb 15 j 19:50	19°♒14'05	
conjunction	-2939 Mar 04 j 04:38	20°♒09'54	-0°47'22
minimum elong	-2939 Mar 04 j 04:38	20°♒09'54	0°47'25
max. Earth dist.	-2939 Mar 04 j 17:31	20°♒11'44	20.83367 AU
morning rise	-2939 Mar 20 j 17:18	21°♒06'15	
retrograde	-2939 Jun 23 j 14:29	24°♒15'35	
opposition	-2939 Sep 08 j 13:45	22°♒15'03	-0°52'19
min. Earth dist.	-2939 Sep 08 j 02:51	22°♒16'11	18.81181 AU
direct	-2939 Nov 22 j 02:28	20°♒17'12	
evening set	-2938 Feb 20 j 05:49	23°♒18'20	
conjunction	-2938 Mar 08 j 15:49	24°♒14'24	-0°47'11
minimum elong	-2938 Mar 08 j 15:49	24°♒14'24	0°47'14
max. Earth dist.	-2938 Mar 09 j 04:03	24°♒16'10	20.78881 AU
morning rise	-2938 Mar 25 j 05:12	25°♒10'59	
retrograde	-2938 Jun 28 j 01:44	28°♒20'44	
opposition	-2938 Sep 12 j 20:55	26°♒20'09	-0°51'59
min. Earth dist.	-2938 Sep 12 j 11:07	26°♒21'10	18.76531 AU
direct	-2938 Nov 26 j 09:10	24°♒22'04	
evening set	-2937 Feb 24 j 16:40	27°♒24'00	
conjunction	-2937 Mar 13 j 03:29	28°♒20'19	-0°46'45
minimum elong	-2937 Mar 13 j 03:29	28°♒20'19	0°46'48
max. Earth dist.	-2937 Mar 13 j 12:38	28°♒21'38	20.74077 AU
morning rise	-2937 Mar 29 j 17:51	29°♒17'08	
	-2937 Apr 11 j 20:04	0°♓	
retrograde	-2937 Jul 02 j 13:40	2°♓27'22	
opposition	-2937 Sep 17 j 04:31	0°♓26'41	-0°51'24
min. Earth dist.	-2937 Sep 16 j 21:07	0°♓27'27	18.71563 AU
	-2937 Sep 27 j 23:26	30°℞♒	
direct	-2937 Nov 30 j 15:50	28°♒28'20	
	-2936 Jan 30 j 21:05	0°♓	
evening set	-2936 Feb 29 j 04:18	1°♓31'09	
conjunction	-2936 Mar 16 j 16:17	2°♓27'44	-0°46'05
minimum elong	-2936 Mar 16 j 16:17	2°♓27'44	0°46'08
max. Earth dist.	-2936 Mar 17 j 00:27	2°♓28'55	20.68937 AU
morning rise	-2936 Apr 02 j 07:17	3°♓24'48	
retrograde	-2936 Jul 06 j 01:54	6°♓35'30	
opposition	-2936 Sep 20 j 12:24	4°♓34'44	-0°50'32
min. Earth dist.	-2936 Sep 20 j 06:19	4°♓35'22	18.66236 AU
direct	-2936 Dec 03 j 23:39	2°♓36'06	
evening set	-2935 Mar 04 j 17:01	5°♓39'50	
conjunction	-2935 Mar 21 j 05:50	6°♓36'42	-0°45'10
minimum elong	-2935 Mar 21 j 05:50	6°♓36'42	0°45'11
max. Earth dist.	-2935 Mar 21 j 10:28	6°♓37'22	20.63431 AU
morning rise	-2935 Apr 06 j 21:47	7°♓34'01	
retrograde	-2935 Jul 10 j 14:34	10°♓45'13	
opposition	-2935 Sep 24 j 20:55	8°♓44'20	-0°49'23
min. Earth dist.	-2935 Sep 24 j 17:35	8°♓44'41	18.60544 AU
direct	-2935 Dec 08 j 07:34	6°♓45'22	
evening set	-2934 Mar 09 j 06:28	9°♓50'04	
conjunction	-2934 Mar 25 j 20:23	10°♓47'13	-0°44'00
minimum elong	-2934 Mar 25 j 20:23	10°♓47'13	0°44'02
max. Earth dist.	-2934 Mar 25 j 23:41	10°♓47'42	20.57554 AU
morning rise	-2934 Apr 11 j 12:52	11°♓44'47	
retrograde	-2934 Jul 15 j 04:01	14°♓56'29	
opposition	-2934 Sep 29 j 05:38	12°♓55'28	-0°47'58
min. Earth dist.	-2934 Sep 29 j 03:38	12°♓55'41	18.54484 AU
direct	-2934 Dec 12 j 17:10	10°♓56'08	
evening set	-2933 Mar 13 j 20:52	14°♓01'50	
conjunction	-2933 Mar 30 j 11:31	14°♓59'17	-0°42'35
minimum elong	-2933 Mar 30 j 11:31	14°♓59'17	0°42'36
max. Earth dist.	-2933 Mar 30 j 11:18	14°♓59'15	20.51342 AU
morning rise	-2933 Apr 16 j 04:49	15°♓57'07	
retrograde	-2933 Jul 19 j 16:51	19°♓09'19	
opposition	-2933 Oct 03 j 15:01	17°♓08'08	-0°46'18
min. Earth dist.	-2933 Oct 03 j 15:48	17°♓08'03	18.48130 AU
direct	-2933 Dec 17 j 02:06	15°♓08'24	
evening set	-2932 Mar 17 j 11:47	18°♓15'08	
conjunction	-2932 Apr 03 j 03:30	19°♓12'54	-0°40'56
minimum elong	-2932 Apr 03 j 03:30	19°♓12'54	0°40'57

Attention, astronomical year style is used: The year -2932 in astronomical counting style is the year 2933 BCE in historical counting style.

max. Earth dist.	-2932 Apr 03 j 02:07	19°♓12'42	20.44867 AU
morning rise	-2932 Apr 19 j 21:16	20°♓10'59	
retrograde	-2932 Jul 23 j 07:33	23°♓23'42	
opposition	-2932 Oct 07 j 00:43	21°♓22'20	-0°44'21
min. Earth dist.	-2932 Oct 07 j 02:38	21°♓22'08	18.41536 AU
direct	-2932 Dec 20 j 13:32	19°♓22'12	
evening set	-2931 Mar 22 j 03:55	22°♓30'01	
conjunction	-2931 Apr 07 j 20:17	23°♓28'05	-0°39'03
minimum elong	-2931 Apr 07 j 20:17	23°♓28'05	0°39'04
max. Earth dist.	-2931 Apr 07 j 15:36	23°♓27'24	20.38187 AU
morning rise	-2931 Apr 24 j 14:44	24°♓26'27	
retrograde	-2931 Jul 27 j 20:46	27°♓39'40	
opposition	-2931 Oct 11 j 10:55	25°♓38'08	-0°42'09
min. Earth dist.	-2931 Oct 11 j 15:37	25°♓37'39	18.34790 AU
direct	-2931 Dec 24 j 23:36	23°♓37'33	
evening set	-2930 Mar 26 j 20:44	26°♓46'32	
conjunction	-2930 Apr 12 j 14:00	27°♓44'54	-0°36'57
minimum elong	-2930 Apr 12 j 14:00	27°♓44'54	0°36'57
max. Earth dist.	-2930 Apr 12 j 08:10	27°♓44'02	20.31390 AU
morning rise	-2930 Apr 29 j 08:47	28°♓43'31	
	-2930 May 22 j 22:30	0°♈	
retrograde	-2930 Aug 01 j 12:41	1°♈57'16	
	-2930 Oct 14 j 04:09	30°℞♓	
opposition	-2930 Oct 15 j 21:38	29°♓55'35	-0°39'43
min. Earth dist.	-2930 Oct 16 j 03:12	29°♓54'59	18.27956 AU
direct	-2930 Dec 29 j 12:51	27°♓54'34	
	-2929 Mar 11 j 21:54	0°♈	
evening set	-2929 Mar 31 j 14:24	1°♈04'43	
conjunction	-2929 Apr 17 j 08:11	2°♈03'23	-0°34'38
minimum elong	-2929 Apr 17 j 08:11	2°♈03'23	0°34'38
max. Earth dist.	-2929 Apr 16 j 23:27	2°♈02'06	20.24539 AU
morning rise	-2929 May 04 j 03:25	3°♈02'17	
retrograde	-2929 Aug 06 j 02:44	6°♈16'36	
opposition	-2929 Oct 20 j 09:06	4°♈14'45	-0°37'02
min. Earth dist.	-2929 Oct 20 j 17:12	4°♈13'53	18.21115 AU
direct	-2928 Jan 03 j 00:09	2°♈13'18	
evening set	-2928 Apr 04 j 08:56	5°♈24'41	
conjunction	-2928 Apr 21 j 03:28	6°♈23'39	-0°32'06
minimum elong	-2928 Apr 21 j 03:28	6°♈23'39	0°32'05
max. Earth dist.	-2928 Apr 20 j 17:34	6°♈22'12	20.17718 AU
morning rise	-2928 May 07 j 22:55	7°♈22'48	
retrograde	-2928 Aug 09 j 20:04	10°♈37'40	
opposition	-2928 Oct 23 j 20:57	8°♈35'42	-0°34'07
min. Earth dist.	-2928 Oct 24 j 05:40	8°♈34'46	18.14322 AU
direct	-2927 Jan 06 j 14:47	6°♈33'52	
evening set	-2927 Apr 09 j 04:35	9°♈46'30	
conjunction	-2927 Apr 25 j 23:33	10°♈45'46	-0°29'22
minimum elong	-2927 Apr 25 j 23:33	10°♈45'46	0°29'22
max. Earth dist.	-2927 Apr 25 j 11:00	10°♈43'55	20.10966 AU
morning rise	-2927 May 12 j 19:16	11°♈45'11	
retrograde	-2927 Aug 14 j 11:53	15°♈00'37	
opposition	-2927 Oct 28 j 09:45	12°♈58'33	-0°31'00
min. Earth dist.	-2927 Oct 28 j 20:58	12°♈57'21	18.07631 AU
direct	-2926 Jan 11 j 03:37	10°♈56'20	
evening set	-2926 Apr 14 j 00:59	14°♈10'16	
conjunction	-2926 Apr 30 j 20:28	15°♈09'50	-0°26'27
minimum elong	-2926 Apr 30 j 20:28	15°♈09'50	0°26'26
max. Earth dist.	-2926 Apr 30 j 06:38	15°♈07'47	20.04340 AU
morning rise	-2926 May 17 j 16:15	16°♈09'29	
retrograde	-2926 Aug 19 j 06:44	19°♈25'30	
opposition	-2926 Nov 01 j 23:05	17°♈23'24	-0°27'40

min. Earth dist.	-2926 Nov 02 j 10:47	17°♈22'08	18.01071 AU
direct	-2925 Jan 15 j 19:29	15°♈20'49	
evening set	-2925 Apr 18 j 22:27	18°♈36'04	
conjunction	-2925 May 05 j 18:13	19°♈35'55	-0°23'21
minimum elong	-2925 May 05 j 18:13	19°♈35'55	0°23'20
max. Earth dist.	-2925 May 05 j 02:12	19°♈33'32	19.97852 AU
morning rise	-2925 May 22 j 14:01	20°♈35'50	
retrograde	-2925 Aug 24 j 00:27	23°♈52'25	
opposition	-2925 Nov 06 j 13:20	21°♈50'17	-0°24'08
min. Earth dist.	-2925 Nov 07 j 03:32	21°♈48'45	17.94667 AU
direct	-2924 Jan 20 j 09:40	19°♈47'22	
evening set	-2924 Apr 22 j 20:45	23°♈03'57	
conjunction	-2924 May 09 j 16:51	24°♈04'05	-0°20'06
minimum elong	-2924 May 09 j 16:51	24°♈04'05	0°20'04
max. Earth dist.	-2924 May 08 j 23:12	24°♈01'27	19.91527 AU
morning rise	-2924 May 26 j 12:38	25°♈04'14	
retrograde	-2924 Aug 27 j 21:09	28°♈21'24	
opposition	-2924 Nov 10 j 04:15	26°♈19'14	-0°20'26
min. Earth dist.	-2924 Nov 10 j 19:05	26°♈17'38	17.88403 AU
direct	-2923 Jan 24 j 03:23	24°♈16'00	
evening set	-2923 Apr 27 j 20:14	27°♈33'55	
conjunction	-2923 May 14 j 16:28	28°♈34'20	-0°16'41
minimum elong	-2923 May 14 j 16:28	28°♈34'20	0°16'38
max. Earth dist.	-2923 May 13 j 20:52	28°♈31'23	19.85316 AU
morning rise	-2923 May 31 j 11:58	29°♈34'42	
	-2923 Jun 07 j 18:23	0°♉	
retrograde	-2923 Sep 01 j 16:02	2°♉52'25	
opposition	-2923 Nov 14 j 20:07	0°♉50'15	-0°16'34
min. Earth dist.	-2923 Nov 15 j 13:33	0°♉48'21	17.82262 AU
	-2923 Dec 04 j 17:16	30°℞♈	
direct	-2922 Jan 28 j 19:13	28°♈46'41	
	-2922 Mar 23 j 16:11	0°♉	
evening set	-2922 May 02 j 20:33	2°♉05'54	
conjunction	-2922 May 19 j 16:48	3°♉06'34	-0°13'09
minimum elong	-2922 May 19 j 16:49	3°♉06'34	0°13'06
behind sun begin	-2922 May 19 j 12:55	3°♉06'00	
behind sun end	-2922 May 19 j 20:42	3°♉07'09	
max. Earth dist.	-2922 May 18 j 19:07	3°♉03'18	19.79238 AU
morning rise	-2922 Jun 05 j 12:06	4°♉07'08	
retrograde	-2922 Sep 06 j 13:55	7°♉25'23	
opposition	-2922 Nov 19 j 12:46	5°♉23'11	-0°12'34
min. Earth dist.	-2922 Nov 20 j 06:47	5°♉21'13	17.76249 AU
direct	-2921 Feb 02 j 15:06	3°♉19'16	
evening set	-2921 May 07 j 21:30	6°♉39'46	
conjunction	-2921 May 24 j 17:45	7°♉40'40	-0°09'30
minimum elong	-2921 May 24 j 17:46	7°♉40'40	0°09'27
behind sun begin	-2921 May 24 j 12:08	7°♉39'50	
behind sun end	-2921 May 24 j 23:23	7°♉41'30	
max. Earth dist.	-2921 May 23 j 18:40	7°♉37'10	19.73278 AU
morning rise	-2921 Jun 10 j 12:33	8°♉41'26	
retrograde	-2921 Sep 11 j 09:41	12°♉00'10	
opposition	-2921 Nov 24 j 06:22	9°♉57'55	-0°08'28
min. Earth dist.	-2921 Nov 25 j 02:43	9°♉55'42	17.70368 AU
direct	-2920 Feb 07 j 09:10	7°♉53'40	
evening set	-2920 May 11 j 23:25	11°♉15'23	
conjunction	-2920 May 28 j 19:26	12°♉16'30	-0°05'47
minimum elong	-2920 May 28 j 19:27	12°♉16'30	0°05'43
behind sun begin	-2920 May 28 j 12:57	12°♉15'32	
behind sun end	-2920 May 29 j 01:56	12°♉17'28	
max. Earth dist.	-2920 May 27 j 18:03	12°♉12'38	19.67487 AU
morning rise	-2920 Jun 14 j 13:53	13°♉17'26	

Attention, astronomical year style is used: The year -2920 in astronomical counting style is the year 2921 BCE in historical counting style.

	-2920 Jul	15 j 18:56	15°♉	
retrograde	-2920 Sep	15 j 07:52	16°♉36'37	
	-2920 Nov	18 j 02:54	15°℞♉	
opposition	-2920 Nov	28 j 00:26	14°♉34'18	-0°04'16
min. Earth dist.	-2920 Nov	28 j 21:24	14°♉32'01	17.64675 AU
direct	-2919 Feb	11 j 07:13	12°♉29'41	
	-2919 May	01 j 21:42	15°♉	
evening set	-2919 May	17 j 01:57	15°♉52'36	
conjunction	-2919 Jun	02 j 21:48	16°♉53'55	-0°01'59
minimum elong	-2919 Jun	02 j 21:50	16°♉53'55	0°01'56
behind sun begin	-2919 Jun	02 j 15:02	16°♉52'55	
behind sun end	-2919 Jun	03 j 04:37	16°♉54'56	
max. Earth dist.	-2919 Jun	01 j 19:42	16°♉49'56	19.61894 AU
morning rise	-2919 Jun	19 j 15:31	17°♉54'59	
retrograde	-2919 Sep	20 j 04:19	21°♉14'35	
opposition	-2919 Dec	02 j 19:31	19°♉12'13	-0°00'02
min. Earth dist.	-2919 Dec	03 j 18:22	19°♉09'43	17.59213 AU
asc. node	-2919 Dec	05 j 01:33	19°♉06'19	
direct	-2918 Feb	16 j 03:32	17°♉07'15	
evening set	-2918 May	22 j 05:00	20°♉31'17	
max. Earth dist.	-2918 Jun	06 j 20:08	21°♉28'27	19.56580 AU
conjunction	-2918 Jun	08 j 00:21	21°♉32'47	0°01'58
minimum elong	-2918 Jun	08 j 00:20	21°♉32'47	0°02'03
behind sun begin	-2918 Jun	07 j 17:33	21°♉31'46	
behind sun end	-2918 Jun	08 j 07:07	21°♉33'48	
morning rise	-2918 Jun	24 j 17:29	22°♉33'58	
retrograde	-2918 Sep	25 j 02:57	25°♉53'58	
opposition	-2918 Dec	07 j 15:10	23°♉51'31	0°04'14
min. Earth dist.	-2918 Dec	08 j 14:24	23°♉48'58	17.54068 AU
direct	-2917 Feb	21 j 03:28	21°♉46'12	
evening set	-2917 May	27 j 08:26	25°♉11'18	
max. Earth dist.	-2917 Jun	11 j 23:24	26°♉08'38	19.51607 AU
conjunction	-2917 Jun	13 j 03:28	26°♉12'57	0°05'48
minimum elong	-2917 Jun	13 j 03:27	26°♉12'57	0°05'52
behind sun begin	-2917 Jun	12 j 20:59	26°♉11'59	
behind sun end	-2917 Jun	13 j 09:55	26°♉13'55	
morning rise	-2917 Jun	29 j 19:40	27°♉14'14	
	-2917 Aug	25 j 11:42	0°♊	
retrograde	-2917 Sep	30 j 00:07	0°♊34'34	
	-2917 Nov	05 j 01:55	30°℞♉	
opposition	-2917 Dec	12 j 11:30	28°♉32'04	0°08'30
min. Earth dist.	-2917 Dec	13 j 11:58	28°♉29'23	17.49296 AU
direct	-2916 Feb	26 j 01:50	26°♉26'26	
evening set	-2916 May	31 j 12:26	29°♉52'34	
	-2916 Jun	02 j 13:38	0°♊	
max. Earth dist.	-2916 Jun	16 j 00:52	0°♊49'42	19.47051 AU
conjunction	-2916 Jun	17 j 06:43	0°♊54'19	0°09'35
minimum elong	-2916 Jun	17 j 06:43	0°♊54'19	0°09'40
behind sun begin	-2916 Jun	17 j 01:10	0°♊53'29	
behind sun end	-2916 Jun	17 j 12:15	0°♊55'09	
morning rise	-2916 Jul	03 j 22:15	1°♊55'42	
retrograde	-2916 Oct	03 j 23:04	5°♊16'20	
opposition	-2916 Dec	16 j 08:32	3°♊13'47	0°12'43
min. Earth dist.	-2916 Dec	17 j 09:16	3°♊11'05	17.44978 AU
direct	-2915 Mar	02 j 02:54	1°♊07'52	
evening set	-2915 Jun	05 j 16:36	4°♊34'56	
max. Earth dist.	-2915 Jun	21 j 05:17	5°♊32'17	19.42966 AU
conjunction	-2915 Jun	22 j 10:21	5°♊36'47	0°13'20
minimum elong	-2915 Jun	22 j 10:20	5°♊36'47	0°13'25
behind sun begin	-2915 Jun	22 j 06:38	5°♊36'14	
behind sun end	-2915 Jun	22 j 14:02	5°♊37'21	
morning rise	-2915 Jul	09 j 00:44	6°♊38'13	
retrograde	-2915 Oct	08 j 21:30	9°♊59'08	
opposition	-2915 Dec	21 j 06:17	7°♊56'35	0°16'51
min. Earth dist.	-2915 Dec	22 j 07:26	7°♊53'49	17.41155 AU
direct	-2914 Mar	07 j 03:28	5°♊50'26	
evening set	-2914 Jun	10 j 21:12	9°♊18'21	
max. Earth dist.	-2914 Jun	26 j 07:40	10°♊15'34	19.39421 AU
conjunction	-2914 Jun	27 j 13:58	10°♊20'17	0°17'00
minimum elong	-2914 Jun	27 j 13:58	10°♊20'17	0°17'04
morning rise	-2914 Jul	14 j 03:28	11°♊21'45	
retrograde	-2914 Oct	13 j 20:39	14°♊42'55	
opposition	-2914 Dec	26 j 04:42	12°♊40'23	0°20'54
min. Earth dist.	-2914 Dec	27 j 05:55	12°♊37'37	17.37912 AU
direct	-2913 Mar	12 j 05:00	10°♊34'03	
evening set	-2913 Jun	16 j 01:41	14°♊02'46	
conjunction	-2913 Jul	02 j 17:45	15°♊04'44	0°20'34
minimum elong	-2913 Jul	02 j 17:45	15°♊04'44	0°20'39
max. Earth dist.	-2913 Jul	01 j 12:42	15°♊00'12	19.36468 AU
morning rise	-2913 Jul	19 j 06:04	16°♊06'12	
retrograde	-2913 Oct	18 j 20:46	19°♊27'36	
opposition	-2913 Dec	31 j 03:44	17°♊25'09	0°24'49
min. Earth dist.	-2912 Jan	01 j 04:39	17°♊22'25	17.35249 AU
direct	-2912 Mar	16 j 07:01	15°♊18'42	
evening set	-2912 Jun	20 j 06:41	18°♊48'08	
conjunction	-2912 Jul	06 j 21:38	19°♊50'07	0°24'00
minimum elong	-2912 Jul	06 j 21:38	19°♊50'07	0°24'05
max. Earth dist.	-2912 Jul	05 j 15:52	19°♊45'28	19.34105 AU
morning rise	-2912 Jul	23 j 08:53	20°♊51'35	
retrograde	-2912 Oct	22 j 20:22	24°♊13'11	
opposition	-2911 Jan	04 j 03:17	22°♊10'50	0°28'35
min. Earth dist.	-2911 Jan	05 j 04:30	22°♊08'05	17.33193 AU
direct	-2911 Mar	21 j 08:38	20°♊04'19	
evening set	-2911 Jun	25 j 11:38	23°♊34'23	
max. Earth dist.	-2911 Jul	10 j 21:06	24°♊31'53	19.32340 AU
conjunction	-2911 Jul	12 j 01:38	24°♊36'21	0°27'18
minimum elong	-2911 Jul	12 j 01:38	24°♊36'21	0°27'23
morning rise	-2911 Jul	28 j 11:38	25°♊37'47	
retrograde	-2911 Oct	27 j 22:07	28°♊59'32	
opposition	-2910 Jan	09 j 03:33	26°♊57'19	0°32'10
min. Earth dist.	-2910 Jan	10 j 03:57	26°♊54'39	17.31703 AU
direct	-2910 Mar	26 j 11:34	24°♊50'48	
evening set	-2910 Jun	30 j 16:33	28°♊21'22	
max. Earth dist.	-2910 Jul	16 j 00:48	29°♊18'49	19.31123 AU
conjunction	-2910 Jul	17 j 05:21	29°♊23'19	0°30'24
minimum elong	-2910 Jul	17 j 05:21	29°♊23'18	0°30'30
	-2910 Jul	26 j 23:02	0°♋	
morning rise	-2910 Aug	02 j 14:08	0°♋24'40	
retrograde	-2910 Nov	01 j 22:03	3°♋46'33	
opposition	-2909 Jan	14 j 04:24	1°♋44'28	0°35'32
min. Earth dist.	-2909 Jan	15 j 05:11	1°♋41'46	17.30765 AU
	-2909 Mar	02 j 07:41	30°℞♊	
direct	-2909 Mar	31 j 13:41	29°♊37'57	
	-2909 Apr	29 j 12:34	0°♋	
evening set	-2909 Jul	05 j 21:26	3°♋08'56	
max. Earth dist.	-2909 Jul	21 j 05:28	4°♋06'26	19.30442 AU
conjunction	-2909 Jul	22 j 09:06	4°♋10'47	0°33'19
minimum elong	-2909 Jul	22 j 09:05	4°♋10'47	0°33'24
morning rise	-2909 Aug	07 j 16:38	5°♋12'04	
retrograde	-2909 Nov	06 j 23:53	8°♋33'59	
opposition	-2908 Jan	19 j 05:31	6°♋32'02	0°38'39
min. Earth dist.	-2908 Jan	20 j 05:05	6°♋29'28	17.30327 AU
direct	-2908 Apr	04 j 17:35	4°♋25'34	

Attention, astronomical year style is used: The year -2908 in astronomical counting style is the year 2909 BCE in historical counting style.

evening set	-2908 Jul	10 j 02:14	7°♋56'47	
max. Earth dist.	-2908 Jul	25 j 09:37	8°♋54'17	19.30243 AU
conjunction	-2908 Jul	26 j 12:41	8°♋58'33	0°36'00
minimum elong	-2908 Jul	26 j 12:41	8°♋58'33	0°36'06
morning rise	-2908 Aug	11 j 18:52	9°♋59'43	
retrograde	-2908 Nov	10 j 23:28	13°♋21'38	
opposition	-2907 Jan	23 j 07:19	11°♋19'47	0°41'31
min. Earth dist.	-2907 Jan	24 j 07:15	11°♋17'11	17.30375 AU
direct	-2907 Apr	09 j 20:42	9°♋13'22	
evening set	-2907 Jul	15 j 06:38	12°♋44'43	
conjunction	-2907 Jul	31 j 15:45	13°♋46'21	0°38'26
minimum elong	-2907 Jul	31 j 15:45	13°♋46'20	0°38'31
max. Earth dist.	-2907 Jul	30 j 13:24	13°♋42'11	19.30527 AU
morning rise	-2907 Aug	16 j 20:43	14°♋47'21	
retrograde	-2907 Nov	16 j 00:41	18°♋09'13	
opposition	-2906 Jan	28 j 09:18	16°♋07'28	0°44'05
min. Earth dist.	-2906 Jan	29 j 07:30	16°♋05'03	17.30885 AU
direct	-2906 Apr	15 j 02:21	14°♋01'07	
evening set	-2906 Jul	20 j 10:37	17°♋32'26	
conjunction	-2906 Aug	05 j 18:32	18°♋33'54	0°40'35
minimum elong	-2906 Aug	05 j 18:32	18°♋33'54	0°40'40
max. Earth dist.	-2906 Aug	04 j 17:39	18°♋29'58	19.31270 AU
morning rise	-2906 Aug	21 j 22:06	19°♋34'45	
retrograde	-2906 Nov	20 j 23:20	22°♋56'29	
opposition	-2905 Feb	02 j 11:36	20°♋54'48	0°46'20
min. Earth dist.	-2905 Feb	03 j 09:55	20°♋52'23	17.31871 AU
direct	-2905 Apr	20 j 06:20	18°♋48'31	
evening set	-2905 Jul	25 j 14:03	22°♋19'41	
conjunction	-2905 Aug	10 j 20:36	23°♋20'58	0°42'27
minimum elong	-2905 Aug	10 j 20:36	23°♋20'58	0°42'33
max. Earth dist.	-2905 Aug	09 j 20:18	23°♋17'07	19.32500 AU
morning rise	-2905 Aug	26 j 23:04	24°♋21'38	
retrograde	-2905 Nov	25 j 23:43	27°♋43'11	
opposition	-2904 Feb	07 j 13:52	25°♋41'33	0°48'15
min. Earth dist.	-2904 Feb	08 j 10:05	25°♋39'22	17.33330 AU
direct	-2904 Apr	24 j 12:28	23°♋35'21	
evening set	-2904 Jul	29 j 16:49	27°♋06'13	
conjunction	-2904 Aug	14 j 22:12	28°♋07'18	0°44'02
minimum elong	-2904 Aug	14 j 22:12	28°♋07'18	0°44'06
max. Earth dist.	-2904 Aug	14 j 00:11	28°♋03'49	19.34200 AU
morning rise	-2904 Aug	30 j 23:15	29°♋07'46	
	-2904 Sep	14 j 12:23	0°♌	
retrograde	-2904 Nov	29 j 21:52	2°♌29'03	
opposition	-2903 Feb	11 j 16:20	0°♌27'29	0°49'50
min. Earth dist.	-2903 Feb	12 j 12:14	0°♌25'21	17.35278 AU
	-2903 Feb	22 j 09:53	30°℞♋	
direct	-2903 Apr	29 j 16:42	28°♋21'24	
	-2903 Jul	01 j 15:14	0°♌	
evening set	-2903 Aug	03 j 18:59	1°♌51'49	
conjunction	-2903 Aug	19 j 22:55	2°♌52'40	0°45'17
minimum elong	-2903 Aug	19 j 22:55	2°♌52'40	0°45'22
max. Earth dist.	-2903 Aug	19 j 01:41	2°♌49'19	19.36416 AU
morning rise	-2903 Sep	04 j 22:57	3°♌52'56	
retrograde	-2903 Dec	04 j 21:35	7°♌13'55	
opposition	-2902 Feb	16 j 18:41	5°♌12'23	0°51'03
min. Earth dist.	-2902 Feb	17 j 12:06	5°♌10'31	17.37756 AU
direct	-2902 May	04 j 21:57	3°♌06'25	
evening set	-2902 Aug	08 j 20:02	6°♌36'17	
conjunction	-2902 Aug	24 j 22:52	7°♌36'54	0°46'14
minimum elong	-2902 Aug	24 j 22:52	7°♌36'54	0°46'18
max. Earth dist.	-2902 Aug	24 j 04:42	7°♌34'02	19.39162 AU
morning rise	-2902 Sep	09 j 21:35	8°♌36'56	
retrograde	-2902 Dec	09 j 19:22	11°♌57'35	
opposition	-2901 Feb	21 j 21:02	9°♌56'06	0°51'56
min. Earth dist.	-2901 Feb	22 j 13:25	9°♌54'21	17.40772 AU
direct	-2901 May	10 j 01:02	7°♌50'19	
evening set	-2901 Aug	13 j 20:35	11°♌19'31	
conjunction	-2901 Aug	29 j 21:59	12°♌19'52	0°46'52
minimum elong	-2901 Aug	29 j 21:59	12°♌19'52	0°46'55
max. Earth dist.	-2901 Aug	29 j 04:49	12°♌17'10	19.42467 AU
morning rise	-2901 Sep	14 j 19:44	13°♌19'40	
	-2901 Oct	14 j 06:07	15°♌	
retrograde	-2901 Dec	14 j 18:31	16°♌39'56	
	-2900 Feb	18 j 12:30	15°℞♌	
opposition	-2900 Feb	26 j 22:56	14°♌38'31	0°52'27
min. Earth dist.	-2900 Feb	27 j 12:44	14°♌37'03	17.44360 AU
direct	-2900 May	14 j 04:46	12°♌32'57	
	-2900 Jul	31 j 12:28	15°♌	
evening set	-2900 Aug	17 j 20:08	16°♌01'26	
conjunction	-2900 Sep	02 j 20:29	17°♌01'31	0°47'11
minimum elong	-2900 Sep	02 j 20:28	17°♌01'31	0°47'14
max. Earth dist.	-2900 Sep	02 j 06:41	16°♌59'20	19.46338 AU
morning rise	-2900 Sep	18 j 17:00	18°♌01'03	
retrograde	-2900 Dec	18 j 15:58	21°♌20'55	
opposition	-2899 Mar	03 j 00:55	19°♌19'38	0°52'37
min. Earth dist.	-2899 Mar	03 j 13:04	19°♌18'20	17.48500 AU
direct	-2899 May	19 j 06:54	17°♌14'21	
evening set	-2899 Aug	22 j 18:51	20°♌42'00	
conjunction	-2899 Sep	07 j 17:51	21°♌41'48	0°47'11
minimum elong	-2899 Sep	07 j 17:51	21°♌41'48	0°47'13
max. Earth dist.	-2899 Sep	07 j 05:21	21°♌39'50	19.50759 AU
morning rise	-2899 Sep	23 j 13:31	22°♌41'05	
retrograde	-2899 Dec	23 j 14:25	26°♌00'33	