

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

opposition	-10400 Jan 16 j 15:56	12° 8 47'19	1°59'51	direct	-10394 Apr 20 j 22:10	24° 8 25'31	
min. Earth dist.	-10400 Jan 17 j 06:30	12° 8 46'20	29.30659 AU	evening set	-10394 Jul 18 j 23:57	26° 8 20'33	
direct	-10400 Apr 06 j 23:25	11° 8 23'10					
evening set	-10400 Jul 05 j 15:37	13° 8 18'40		conjunction	-10394 Aug 03 j 01:48	26° 8 54'27	2°16'37
				minimum elong	-10394 Aug 03 j 01:47	26° 8 54'27	2°17'05
conjunction	-10400 Jul 20 j 20:26	13° 8 52'47	1°54'21	max. Earth dist.	-10394 Aug 02 j 17:03	26° 8 53'38	31.30160 AU
minimum elong	-10400 Jul 20 j 20:26	13° 8 52'47	1°54'43	morning rise	-10394 Aug 18 j 02:24	27° 8 28'17	
max. Earth dist.	-10400 Jul 20 j 05:10	13° 8 51'21	31.30482 AU	retrograde	-10394 Nov 13 j 17:49	29° 8 22'17	
morning rise	-10400 Aug 04 j 23:16	14° 8 26'45		opposition	-10393 Feb 01 j 08:35	27° 8 59'53	2°27'37
	-10400 Aug 20 j 14:55	15° 8		min. Earth dist.	-10393 Feb 01 j 15:59	27° 8 59'23	29.30398 AU
retrograde	-10400 Oct 31 j 03:56	16° 8 19'59		direct	-10393 Apr 23 j 08:35	26° 8 36'07	
	-10399 Jan 16 j 20:45	15° 8		evening set	-10393 Jul 21 j 09:16	28° 8 31'06	
opposition	-10399 Jan 18 j 04:39	14° 8 57'51	2°04'23				
min. Earth dist.	-10399 Jan 18 j 19:01	14° 8 56'53	29.30551 AU	conjunction	-10393 Aug 05 j 10:41	29° 8 05'00	2°19'41
direct	-10399 Apr 09 j 11:16	13° 8 33'44		minimum elong	-10393 Aug 05 j 10:40	29° 8 05'00	2°20'09
	-10399 Jun 24 j 09:20	15° 8		max. Earth dist.	-10393 Aug 05 j 02:55	29° 8 04'16	31.30284 AU
evening set	-10399 Jul 08 j 01:09	15° 8 29'08		morning rise	-10393 Aug 20 j 10:59	29° 8 38'48	
					-10393 Aug 30 j 05:46	0° II	
conjunction	-10399 Jul 23 j 05:34	16° 8 03'13	1°58'30	retrograde	-10393 Nov 16 j 05:26	1° II 32'59	
minimum elong	-10399 Jul 23 j 05:33	16° 8 03'13	1°58'53	opposition	-10392 Feb 03 j 21:35	0° II 10'34	2°30'47
max. Earth dist.	-10399 Jul 22 j 15:58	16° 8 01'56	31.30337 AU	min. Earth dist.	-10392 Feb 04 j 05:05	0° II 10'04	29.30525 AU
morning rise	-10399 Aug 07 j 07:52	16° 8 37'09			-10392 Feb 10 j 11:05	30° R 8	
retrograde	-10399 Nov 02 j 13:15	18° 8 30'28		direct	-10392 Apr 24 j 17:55	28° 8 46'54	
opposition	-10398 Jan 20 j 17:14	17° 8 08'16	2°08'44		-10392 Jul 02 j 19:01	0° II	
min. Earth dist.	-10398 Jan 21 j 06:35	17° 8 07'22	29.30390 AU	evening set	-10392 Jul 22 j 18:28	0° II 41'51	
direct	-10398 Apr 12 j 00:41	15° 8 44'10					
evening set	-10398 Jul 10 j 10:40	17° 8 39'28		conjunction	-10392 Aug 06 j 19:31	1° II 15'43	2°22'32
				minimum elong	-10392 Aug 06 j 19:31	1° II 15'43	2°23'02
conjunction	-10398 Jul 25 j 14:24	18° 8 13'30	2°02'29	max. Earth dist.	-10392 Aug 06 j 13:06	1° II 15'06	31.30382 AU
minimum elong	-10398 Jul 25 j 14:23	18° 8 13'30	2°02'53	morning rise	-10392 Aug 21 j 19:31	1° II 49'31	
max. Earth dist.	-10398 Jul 25 j 00:47	18° 8 12'13	31.30171 AU	retrograde	-10392 Nov 17 j 17:11	3° II 43'52	
morning rise	-10398 Aug 09 j 16:28	18° 8 47'25		opposition	-10391 Feb 05 j 10:33	2° II 21'26	2°33'44
retrograde	-10398 Nov 04 j 23:57	20° 8 40'50		min. Earth dist.	-10391 Feb 05 j 16:22	2° II 21'03	29.30583 AU
opposition	-10397 Jan 23 j 05:50	19° 8 18'33	2°12'54	direct	-10391 Apr 27 j 07:07	0° II 57'52	
min. Earth dist.	-10397 Jan 23 j 18:02	19° 8 17'44	29.30251 AU	evening set	-10391 Jul 25 j 03:54	2° II 52'46	
direct	-10397 Apr 14 j 11:53	17° 8 54'29					
evening set	-10397 Jul 12 j 19:59	19° 8 49'42		conjunction	-10391 Aug 09 j 04:28	3° II 26'36	2°25'12
				minimum elong	-10391 Aug 09 j 04:27	3° II 26'36	2°25'41
conjunction	-10397 Jul 27 j 23:20	20° 8 23'42	2°06'18	max. Earth dist.	-10391 Aug 08 j 22:02	3° II 26'00	31.30382 AU
minimum elong	-10397 Jul 27 j 23:19	20° 8 23'42	2°06'42	morning rise	-10391 Aug 24 j 04:20	4° II 00'24	
max. Earth dist.	-10397 Jul 27 j 11:51	20° 8 22'37	31.30039 AU	retrograde	-10391 Nov 20 j 06:46	5° II 54'54	
morning rise	-10397 Aug 12 j 00:49	20° 8 57'35		opposition	-10390 Feb 07 j 23:32	4° II 32'27	2°36'28
retrograde	-10397 Nov 07 j 08:36	22° 8 51'07		min. Earth dist.	-10390 Feb 08 j 05:10	4° II 32'04	29.30543 AU
opposition	-10396 Jan 25 j 18:31	21° 8 28'47	2°16'53	direct	-10390 Apr 29 j 17:55	3° II 08'57	
min. Earth dist.	-10396 Jan 26 j 06:06	21° 8 28'00	29.30161 AU	evening set	-10390 Jul 27 j 13:10	5° II 03'48	
direct	-10396 Apr 16 j 00:31	20° 8 04'46					
evening set	-10396 Jul 14 j 05:27	21° 8 59'54		conjunction	-10390 Aug 11 j 13:34	5° II 37'37	2°27'39
				minimum elong	-10390 Aug 11 j 13:33	5° II 37'37	2°28'10
conjunction	-10396 Jul 29 j 08:08	22° 8 33'52	2°09'55	max. Earth dist.	-10390 Aug 11 j 08:42	5° II 37'10	31.30261 AU
minimum elong	-10396 Jul 29 j 08:07	22° 8 33'52	2°10'21	morning rise	-10390 Aug 26 j 13:06	6° II 11'24	
max. Earth dist.	-10396 Jul 28 j 20:52	22° 8 32'49	31.29996 AU	retrograde	-10390 Nov 22 j 17:00	8° II 06'03	
morning rise	-10396 Aug 13 j 09:24	23° 8 07'44		opposition	-10389 Feb 10 j 12:34	6° II 43'33	2°38'58
retrograde	-10396 Nov 08 j 20:18	25° 8 01'25		min. Earth dist.	-10389 Feb 10 j 17:20	6° II 43'14	29.30344 AU
opposition	-10395 Jan 27 j 07:12	23° 8 39'02	2°20'39	direct	-10389 May 02 j 06:44	5° II 20'07	
min. Earth dist.	-10395 Jan 27 j 16:42	23° 8 38'24	29.30175 AU	evening set	-10389 Jul 29 j 22:33	7° II 14'54	
direct	-10395 Apr 18 j 11:12	22° 8 15'05					
evening set	-10395 Jul 16 j 14:36	24° 8 10'09		conjunction	-10389 Aug 13 j 22:27	7° II 48'41	2°29'53
				minimum elong	-10389 Aug 13 j 22:26	7° II 48'41	2°30'24
conjunction	-10395 Jul 31 j 16:57	24° 8 44'06	2°13'22	max. Earth dist.	-10389 Aug 13 j 17:14	7° II 48'12	31.29984 AU
minimum elong	-10395 Jul 31 j 16:56	24° 8 44'06	2°13'48	morning rise	-10389 Aug 28 j 21:58	8° II 22'28	
max. Earth dist.	-10395 Jul 31 j 07:31	24° 8 43'12	31.30041 AU	retrograde	-10389 Nov 25 j 04:53	10° II 17'15	
morning rise	-10395 Aug 15 j 17:48	25° 8 17'57		opposition	-10388 Feb 13 j 01:39	8° II 54'41	2°41'15
retrograde	-10395 Nov 11 j 06:00	27° 8 11'47		min. Earth dist.	-10388 Feb 13 j 05:33	8° II 54'26	29.30002 AU
opposition	-10394 Jan 29 j 20:03	25° 8 49'23	2°24'14	direct	-10388 May 03 j 18:21	7° II 31'17	
min. Earth dist.	-10394 Jan 30 j 05:25	25° 8 48'45	29.30264 AU	evening set	-10388 Jul 31 j 07:47	9° II 25'58	

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

conjunction	-10388 Aug 15 j 07:35	9°II59'45	2°31'55	direct	-10381 May 20 j 01:21	22°II47'23	
minimum elong	-10388 Aug 15 j 07:35	9°II59'45	2°32'27	evening set	-10381 Aug 15 j 22:43	24°II41'23	
max. Earth dist.	-10388 Aug 15 j 04:07	9°II59'26	31.29561 AU				
morning rise	-10388 Aug 30 j 06:49	10°II33'31		conjunction	-10381 Aug 30 j 21:35	25°II15'07	2°39'54
retrograde	-10388 Nov 26 j 14:40	12°II28'26		minimum elong	-10381 Aug 30 j 21:35	25°II15'07	2°40'29
opposition	-10387 Feb 14 j 14:50	11°II05'47	2°43'19	max. Earth dist.	-10381 Aug 31 j 01:43	25°II15'30	31.26029 AU
min. Earth dist.	-10387 Feb 14 j 18:28	11°II05'32	29.29517 AU	morning rise	-10381 Sep 14 j 20:54	25°II48'55	
direct	-10387 May 06 j 07:48	9°II42'24		retrograde	-10381 Dec 12 j 22:04	27°II44'43	
evening set	-10387 Aug 02 j 16:57	11°II36'58		opposition	-10380 Mar 02 j 10:05	26°II21'32	2°51'01
				min. Earth dist.	-10380 Mar 02 j 05:33	26°II21'50	29.26092 AU
conjunction	-10387 Aug 17 j 16:24	12°II10'44	2°33'44	direct	-10380 May 21 j 13:28	24°II58'23	
minimum elong	-10387 Aug 17 j 16:23	12°II10'44	2°34'16	evening set	-10380 Aug 17 j 07:48	26°II52'20	
max. Earth dist.	-10387 Aug 17 j 12:55	12°II10'25	31.29027 AU				
morning rise	-10387 Sep 01 j 15:42	12°II44'31		conjunction	-10380 Sep 01 j 06:31	27°II26'04	2°40'08
retrograde	-10387 Nov 29 j 02:40	14°II39'31		minimum elong	-10380 Sep 01 j 06:31	27°II26'04	2°40'43
opposition	-10386 Feb 17 j 03:50	13°II16'47	2°45'08	max. Earth dist.	-10380 Sep 01 j 10:40	27°II26'28	31.25692 AU
min. Earth dist.	-10386 Feb 17 j 05:46	13°II16'39	29.28943 AU	morning rise	-10380 Sep 16 j 06:09	27°II59'53	
direct	-10386 May 08 j 19:17	11°II53'24		retrograde	-10380 Dec 14 j 11:29	29°II55'51	
evening set	-10386 Aug 05 j 02:01	13°II47'51		opposition	-10379 Mar 04 j 23:15	28°II32'38	2°51'08
				min. Earth dist.	-10379 Mar 04 j 17:40	28°II33'00	29.25746 AU
conjunction	-10386 Aug 20 j 01:21	14°II21'36	2°35'19	direct	-10379 May 24 j 00:21	27°II09'33	
minimum elong	-10386 Aug 20 j 01:21	14°II21'36	2°35'52	evening set	-10379 Aug 19 j 16:44	29°II03'26	
max. Earth dist.	-10386 Aug 19 j 23:19	14°II21'25	31.28412 AU				
morning rise	-10386 Sep 04 j 00:30	14°II55'23		conjunction	-10379 Sep 03 j 15:39	29°II37'11	2°40'07
retrograde	-10386 Dec 01 j 11:29	16°II50'30		minimum elong	-10379 Sep 03 j 15:39	29°II37'11	2°40'43
opposition	-10385 Feb 19 j 16:49	15°II27'39	2°46'43	max. Earth dist.	-10379 Sep 03 j 21:39	29°II37'45	31.25307 AU
min. Earth dist.	-10385 Feb 19 j 18:46	15°II27'31	29.28325 AU		-10379 Sep 13 j 16:58	0°☾	
direct	-10385 May 11 j 06:50	14°II04'16		morning rise	-10379 Sep 18 j 15:20	0°☾11'02	
evening set	-10385 Aug 07 j 11:05	15°II58'37		retrograde	-10379 Dec 16 j 22:41	2°☾07'09	
				opposition	-10378 Mar 07 j 12:28	0°☾43'53	2°51'01
conjunction	-10385 Aug 22 j 10:11	16°II32'21	2°36'41	min. Earth dist.	-10378 Mar 07 j 06:38	0°☾44'17	29.25317 AU
minimum elong	-10385 Aug 22 j 10:11	16°II32'21	2°37'14		-10378 Apr 05 j 02:19	30°☾II	
max. Earth dist.	-10385 Aug 22 j 09:05	16°II32'15	31.27804 AU	direct	-10378 May 26 j 13:07	29°II20'53	
morning rise	-10385 Sep 06 j 09:20	17°II06'07			-10378 Jul 14 j 11:01	0°☾	
retrograde	-10385 Dec 03 j 22:38	19°II01'21		evening set	-10378 Aug 22 j 01:56	1°☾14'42	
opposition	-10384 Feb 22 j 05:48	17°II38'24	2°48'04				
min. Earth dist.	-10384 Feb 22 j 05:31	17°II38'25	29.27736 AU	conjunction	-10378 Sep 06 j 00:48	1°☾48'28	2°39'53
direct	-10384 May 12 j 17:51	16°II15'02		minimum elong	-10378 Sep 06 j 00:48	1°☾48'28	2°40'28
evening set	-10384 Aug 08 j 19:59	18°II09'16		max. Earth dist.	-10378 Sep 06 j 06:45	1°☾49'02	31.24832 AU
				morning rise	-10378 Sep 21 j 00:47	2°☾22'20	
conjunction	-10384 Aug 23 j 18:55	18°II43'00	2°37'50	retrograde	-10378 Dec 19 j 11:33	4°☾18'35	
minimum elong	-10384 Aug 23 j 18:55	18°II43'00	2°38'24	opposition	-10377 Mar 10 j 01:31	2°☾55'17	2°50'38
max. Earth dist.	-10384 Aug 23 j 18:54	18°II43'00	31.27238 AU	min. Earth dist.	-10377 Mar 09 j 18:09	2°☾55'47	29.24782 AU
morning rise	-10384 Sep 07 j 18:06	19°II16'46		direct	-10377 May 29 j 00:12	1°☾32'19	
retrograde	-10384 Dec 05 j 10:03	21°II12'09		evening set	-10377 Aug 24 j 11:05	3°☾26'05	
opposition	-10383 Feb 23 j 19:00	19°II49'06	2°49'10				
min. Earth dist.	-10383 Feb 23 j 18:28	19°II49'08	29.27223 AU	conjunction	-10377 Sep 08 j 10:06	3°☾59'51	2°39'25
direct	-10383 May 15 j 03:32	18°II25'46		minimum elong	-10377 Sep 08 j 10:06	3°☾59'51	2°40'00
evening set	-10383 Aug 11 j 04:56	20°II19'55		max. Earth dist.	-10377 Sep 08 j 17:06	4°☾00'31	31.24223 AU
				morning rise	-10377 Sep 23 j 10:17	4°☾33'46	
conjunction	-10383 Aug 26 j 03:52	20°II53'38	2°38'45	retrograde	-10377 Dec 21 j 21:36	6°☾30'09	
minimum elong	-10383 Aug 26 j 03:52	20°II53'38	2°39'19	opposition	-10376 Mar 11 j 14:52	5°☾06'47	2°50'01
max. Earth dist.	-10383 Aug 26 j 05:36	20°II53'48	31.26768 AU	min. Earth dist.	-10376 Mar 11 j 07:45	5°☾07'16	29.24107 AU
morning rise	-10383 Sep 10 j 03:01	21°II27'25		direct	-10376 May 30 j 11:42	3°☾43'52	
retrograde	-10383 Dec 07 j 21:40	23°II22'55		evening set	-10376 Aug 25 j 20:09	5°☾37'32	
opposition	-10382 Feb 26 j 07:51	21°II59'49	2°50'02				
min. Earth dist.	-10382 Feb 26 j 05:15	21°II59'59	29.26792 AU	conjunction	-10376 Sep 09 j 19:21	6°☾11'19	2°38'44
direct	-10382 May 17 j 15:46	20°II36'31		minimum elong	-10376 Sep 09 j 19:21	6°☾11'19	2°39'19
evening set	-10382 Aug 13 j 13:56	22°II30'36		max. Earth dist.	-10376 Sep 10 j 03:02	6°☾12'03	31.23489 AU
				morning rise	-10376 Sep 24 j 19:50	6°☾45'15	
conjunction	-10382 Aug 28 j 12:41	23°II04'19	2°39'26	retrograde	-10376 Dec 23 j 09:27	8°☾41'46	
minimum elong	-10382 Aug 28 j 12:41	23°II04'19	2°40'01	opposition	-10375 Mar 14 j 04:04	7°☾18'19	2°49'09
max. Earth dist.	-10382 Aug 28 j 14:41	23°II04'30	31.26372 AU	min. Earth dist.	-10375 Mar 13 j 19:11	7°☾18'55	29.23297 AU
morning rise	-10382 Sep 12 j 12:04	23°II38'06		direct	-10375 Jun 01 j 22:59	5°☾55'25	
retrograde	-10382 Dec 10 j 11:16	25°II33'45		evening set	-10375 Aug 28 j 05:21	7°☾49'00	
opposition	-10381 Feb 28 j 20:57	24°II10'36	2°50'39				
min. Earth dist.	-10381 Feb 28 j 17:43	24°II10'49	29.26434 AU	conjunction	-10375 Sep 12 j 04:41	8°☾22'48	2°37'48

Attention, astronomical year style is used: The year -10375 in astronomical counting style is the year 10376 BCE in historical counting style.

minimum elong	-10375 Sep 12 j 04:41	8° $\overline{022}$ '48	2°38'24	evening set	-10368 Sep 11 j 20:22	23° $\overline{008}$ '35	
max. Earth dist.	-10375 Sep 12 j 12:45	8° $\overline{023}$ '34	31.22617 AU				
morning rise	-10375 Sep 27 j 05:36	8° $\overline{056}$ '45		conjunction	-10368 Sep 26 j 22:03	23° $\overline{042}$ '35	2°25'06
retrograde	-10375 Dec 25 j 21:06	10° $\overline{053}$ '23		minimum elong	-10368 Sep 26 j 22:03	23° $\overline{042}$ '35	2°25'40
opposition	-10374 Mar 16 j 17:10	9° $\overline{029}$ '51	2°48'03	max. Earth dist.	-10368 Sep 27 j 13:41	23° $\overline{044}$ '04	31.17008 AU
min. Earth dist.	-10374 Mar 16 j 08:39	9° $\overline{030}$ '25	29.22380 AU	morning rise	-10368 Oct 12 j 02:08	24° $\overline{016}$ '49	
direct	-10374 Jun 04 j 08:45	8° $\overline{006}$ '56		retrograde	-10367 Jan 10 j 11:16	26° $\overline{014}$ '12	
evening set	-10374 Aug 30 j 14:21	10° $\overline{000}$ '25		opposition	-10367 Apr 01 j 12:06	24° $\overline{050}$ '08	2°33'39
				min. Earth dist.	-10367 Mar 31 j 20:22	24° $\overline{051}$ '12	29.16939 AU
conjunction	-10374 Sep 14 j 14:03	10° $\overline{034}$ '14	2°36'40	direct	-10367 Jun 19 j 15:09	23° $\overline{027}$ '24	
minimum elong	-10374 Sep 14 j 14:03	10° $\overline{034}$ '14	2°37'15	evening set	-10367 Sep 14 j 05:37	25° $\overline{020}$ '19	
max. Earth dist.	-10374 Sep 14 j 23:37	10° $\overline{035}$ '08	31.21669 AU				
morning rise	-10374 Sep 29 j 15:12	11° $\overline{008}$ '13		conjunction	-10367 Sep 29 j 07:47	25° $\overline{054}$ '22	2°22'25
retrograde	-10374 Dec 28 j 08:42	13° $\overline{004}$ '57		minimum elong	-10367 Sep 29 j 07:48	25° $\overline{054}$ '22	2°22'58
opposition	-10373 Mar 19 j 06:10	11° $\overline{041}$ '18	2°46'42	max. Earth dist.	-10367 Sep 30 j 00:20	25° $\overline{055}$ '56	31.16470 AU
min. Earth dist.	-10373 Mar 18 j 19:55	11° $\overline{042}$ '00	29.21400 AU	morning rise	-10367 Oct 14 j 12:25	26° $\overline{028}$ '39	
direct	-10373 Jun 06 j 20:58	10° $\overline{018}$ '23		retrograde	-10366 Jan 13 j 00:11	28° $\overline{026}$ '08	
evening set	-10373 Sep 01 j 23:20	12° $\overline{011}$ '45		min. Earth dist.	-10366 Apr 03 j 07:26	27° $\overline{003}$ '14	29.16379 AU
				opposition	-10366 Apr 04 j 00:50	27° $\overline{002}$ '03	2°30'39
conjunction	-10373 Sep 16 j 23:07	12° $\overline{045}$ '36	2°35'17	direct	-10366 Jun 22 j 02:32	25° $\overline{039}$ '21	
minimum elong	-10373 Sep 16 j 23:07	12° $\overline{045}$ '36	2°35'52	evening set	-10366 Sep 16 j 15:02	27° $\overline{032}$ '13	
max. Earth dist.	-10373 Sep 17 j 08:46	12° $\overline{046}$ '30	31.20689 AU				
morning rise	-10373 Oct 02 j 00:49	13° $\overline{019}$ '37		conjunction	-10366 Oct 01 j 17:34	28° $\overline{006}$ '18	2°19'30
retrograde	-10373 Dec 30 j 22:13	15° $\overline{016}$ '27		minimum elong	-10366 Oct 01 j 17:35	28° $\overline{006}$ '18	2°20'03
opposition	-10372 Mar 20 j 19:19	13° $\overline{052}$ '41	2°45'07	max. Earth dist.	-10366 Oct 02 j 10:21	28° $\overline{007}$ '53	31.15885 AU
min. Earth dist.	-10372 Mar 20 j 08:33	13° $\overline{053}$ '25	29.20441 AU	morning rise	-10366 Oct 16 j 22:53	28° $\overline{040}$ '38	
direct	-10372 Jun 08 j 06:10	12° $\overline{029}$ '46			-10366 Nov 27 j 07:44	0° $\overline{000}$ '00	
evening set	-10372 Sep 03 j 08:15	14° $\overline{023}$ '02		retrograde	-10365 Jan 15 j 12:02	0° $\overline{038}$ '15	
					-10365 Mar 07 j 18:13	30° $\overline{000}$ '00	
conjunction	-10372 Sep 18 j 08:29	14° $\overline{056}$ '54	2°33'42	opposition	-10365 Apr 06 j 13:55	29° $\overline{014}$ '07	2°27'26
minimum elong	-10372 Sep 18 j 08:30	14° $\overline{056}$ '54	2°34'17	min. Earth dist.	-10365 Apr 05 j 21:00	29° $\overline{015}$ '16	29.15760 AU
max. Earth dist.	-10372 Sep 18 j 20:17	14° $\overline{058}$ '01	31.19759 AU	direct	-10365 Jun 24 j 12:16	27° $\overline{051}$ '28	
morning rise	-10372 Oct 03 j 10:27	15° $\overline{030}$ '57		evening set	-10365 Sep 19 j 00:18	29° $\overline{044}$ '16	
retrograde	-10371 Jan 01 j 09:07	17° $\overline{027}$ '53			-10365 Sep 26 j 01:01	0° $\overline{000}$ '00	
opposition	-10371 Mar 23 j 08:14	16° $\overline{004}$ '02	2°43'18				
min. Earth dist.	-10371 Mar 22 j 20:05	16° $\overline{004}$ '51	29.19548 AU	conjunction	-10365 Oct 04 j 03:29	0° $\overline{018}$ '23	2°16'24
direct	-10371 Jun 10 j 17:52	14° $\overline{041}$ '07		minimum elong	-10365 Oct 04 j 03:30	0° $\overline{018}$ '23	2°16'56
evening set	-10371 Sep 05 j 17:19	16° $\overline{034}$ '18		max. Earth dist.	-10365 Oct 04 j 21:38	0° $\overline{020}$ '06	31.15228 AU
				morning rise	-10365 Oct 19 j 09:16	0° $\overline{052}$ '46	
conjunction	-10371 Sep 20 j 17:45	17° $\overline{008}$ '12	2°31'53	retrograde	-10364 Jan 17 j 23:38	2° $\overline{050}$ '29	
minimum elong	-10371 Sep 20 j 17:46	17° $\overline{008}$ '12	2°32'27	min. Earth dist.	-10364 Apr 07 j 08:36	1° $\overline{027}$ '33	29.15036 AU
max. Earth dist.	-10371 Sep 21 j 05:41	17° $\overline{009}$ '19	31.18926 AU	opposition	-10364 Apr 08 j 02:55	1° $\overline{026}$ '18	2°24'01
morning rise	-10371 Oct 05 j 20:21	17° $\overline{042}$ '17		direct	-10364 Jun 25 j 23:56	0° $\overline{003}$ '40	
retrograde	-10370 Jan 03 j 23:14	19° $\overline{039}$ '19		evening set	-10364 Sep 20 j 09:58	1° $\overline{056}$ '24	
opposition	-10370 Mar 25 j 21:11	18° $\overline{015}$ '23	2°41'15				
min. Earth dist.	-10370 Mar 25 j 07:48	18° $\overline{016}$ '18	29.18769 AU	conjunction	-10364 Oct 05 j 13:31	2° $\overline{030}$ '34	2°13'05
direct	-10370 Jun 13 j 04:41	16° $\overline{052}$ '30		minimum elong	-10364 Oct 05 j 13:32	2° $\overline{030}$ '34	2°13'37
evening set	-10370 Sep 08 j 02:16	18° $\overline{045}$ '37		max. Earth dist.	-10364 Oct 06 j 07:07	2° $\overline{032}$ '14	31.14452 AU
				morning rise	-10364 Oct 20 j 20:07	3° $\overline{005}$ '00	
conjunction	-10370 Sep 23 j 03:10	19° $\overline{019}$ '32	2°29'50	retrograde	-10363 Jan 19 j 13:04	5° $\overline{002}$ '48	
minimum elong	-10370 Sep 23 j 03:11	19° $\overline{019}$ '32	2°30'25	opposition	-10363 Apr 10 j 15:56	3° $\overline{038}$ '33	2°20'22
max. Earth dist.	-10370 Sep 23 j 17:06	19° $\overline{020}$ '51	31.18194 AU	min. Earth dist.	-10363 Apr 09 j 21:47	3° $\overline{039}$ '47	29.14198 AU
morning rise	-10370 Oct 08 j 06:06	19° $\overline{053}$ '40		direct	-10363 Jun 28 j 08:46	2° $\overline{015}$ '55	
retrograde	-10369 Jan 06 j 11:11	21° $\overline{050}$ '49		evening set	-10363 Sep 22 j 19:28	4° $\overline{008}$ '34	
opposition	-10369 Mar 28 j 10:05	20° $\overline{026}$ '50	2°38'57				
min. Earth dist.	-10369 Mar 27 j 20:05	20° $\overline{027}$ '46	29.18082 AU	conjunction	-10363 Oct 07 j 23:47	4° $\overline{042}$ '47	2°09'35
direct	-10369 Jun 15 j 17:00	19° $\overline{003}$ '59		minimum elong	-10363 Oct 07 j 23:48	4° $\overline{042}$ '47	2°10'06
evening set	-10369 Sep 10 j 11:20	20° $\overline{057}$ '02		max. Earth dist.	-10363 Oct 08 j 18:50	4° $\overline{044}$ '35	31.13554 AU
				morning rise	-10363 Oct 23 j 06:54	5° $\overline{017}$ '16	
conjunction	-10369 Sep 25 j 12:34	21° $\overline{030}$ '59	2°27'35	retrograde	-10362 Jan 22 j 00:49	7° $\overline{015}$ '08	
minimum elong	-10369 Sep 25 j 12:34	21° $\overline{030}$ '59	2°28'09	min. Earth dist.	-10362 Apr 12 j 09:57	5° $\overline{052}$ '05	29.13225 AU
max. Earth dist.	-10369 Sep 26 j 02:55	21° $\overline{032}$ '21	31.17573 AU	opposition	-10362 Apr 13 j 04:50	5° $\overline{050}$ '48	2°16'31
morning rise	-10369 Oct 10 j 16:06	22° $\overline{005}$ '10		direct	-10362 Jun 30 j 20:41	4° $\overline{028}$ '09	
retrograde	-10368 Jan 09 j 00:28	24° $\overline{002}$ '26		evening set	-10362 Sep 25 j 05:05	6° $\overline{020}$ '43	
opposition	-10368 Mar 29 j 23:01	22° $\overline{038}$ '24	2°36'25				
min. Earth dist.	-10368 Mar 29 j 07:12	22° $\overline{039}$ '28	29.17493 AU	conjunction	-10362 Oct 10 j 09:49	6° $\overline{054}$ '58	2°05'53
direct	-10368 Jun 17 j 03:32	21° $\overline{015}$ '36		minimum elong	-10362 Oct 10 j 09:50	6° $\overline{054}$ '58	2°06'24

Attention, astronomical year style is used: The year -10362 in astronomical counting style is the year 10363 BCE in historical counting style.

max. Earth dist.	-10362 Oct 11 j 04:26	6°Ω56'44	31.12548 AU	min. Earth dist.	-10355 Apr 27 j 21:30	21°Ω17'56	29.06935 AU
morning rise	-10362 Oct 25 j 17:46	7°Ω29'31		direct	-10355 Jul 16 j 02:10	19°Ω53'41	
retrograde	-10361 Jan 24 j 15:08	9°Ω27'26		evening set	-10355 Oct 10 j 01:15	21°Ω45'52	
opposition	-10361 Apr 15 j 17:40	8°Ω03'00	2°12'29				
min. Earth dist.	-10361 Apr 14 j 22:13	8°Ω04'19	29.12178 AU	conjunction	-10355 Oct 25 j 10:32	22°Ω20'28	1°35'12
direct	-10361 Jul 03 j 07:14	6°Ω40'19		minimum elong	-10355 Oct 25 j 10:32	22°Ω20'28	1°35'37
evening set	-10361 Sep 27 j 14:37	8°Ω32'48		max. Earth dist.	-10355 Oct 26 j 10:12	22°Ω22'42	31.06517 AU
				morning rise	-10355 Nov 09 j 23:42	22°Ω55'26	
conjunction	-10361 Oct 12 j 20:03	9°Ω07'06	2°02'01	retrograde	-10354 Feb 09 j 07:03	24°Ω53'50	
minimum elong	-10361 Oct 12 j 20:04	9°Ω07'06	2°02'31	min. Earth dist.	-10354 Apr 30 j 10:18	23°Ω30'40	29.06322 AU
max. Earth dist.	-10361 Oct 13 j 16:11	9°Ω09'00	31.11483 AU	opposition	-10354 May 01 j 09:54	23°Ω29'03	1°39'03
morning rise	-10361 Oct 28 j 04:36	9°Ω41'42		direct	-10354 Jul 18 j 10:19	22°Ω06'27	
retrograde	-10360 Jan 27 j 03:16	11°Ω39'40		evening set	-10354 Oct 12 j 11:19	23°Ω58'38	
min. Earth dist.	-10360 Apr 16 j 10:52	10°Ω16'28	29.11104 AU				
opposition	-10360 Apr 17 j 06:29	10°Ω15'08	2°08'15	conjunction	-10354 Oct 27 j 21:24	24°Ω33'18	1°30'11
direct	-10360 Jul 04 j 19:14	8°Ω52'26		minimum elong	-10354 Oct 27 j 21:25	24°Ω33'18	1°30'35
evening set	-10360 Sep 29 j 00:10	10°Ω44'49		max. Earth dist.	-10354 Oct 28 j 22:35	24°Ω35'40	31.05901 AU
				morning rise	-10354 Nov 12 j 11:08	25°Ω08'19	
conjunction	-10360 Oct 14 j 06:12	11°Ω19'10	1°57'58	retrograde	-10353 Feb 11 j 19:10	27°Ω06'49	
minimum elong	-10360 Oct 14 j 06:13	11°Ω19'10	1°58'27	opposition	-10353 May 03 j 22:22	25°Ω42'01	1°33'37
max. Earth dist.	-10360 Oct 15 j 02:33	11°Ω21'05	31.10440 AU	min. Earth dist.	-10353 May 02 j 22:11	25°Ω43'41	29.05678 AU
morning rise	-10360 Oct 29 j 15:33	11°Ω53'49		direct	-10353 Jul 20 j 21:37	24°Ω19'27	
retrograde	-10359 Jan 28 j 16:56	13°Ω51'50		evening set	-10353 Oct 14 j 21:44	26°Ω11'37	
opposition	-10359 Apr 19 j 19:09	12°Ω27'13	2°03'49				
min. Earth dist.	-10359 Apr 18 j 22:03	12°Ω28'39	29.10080 AU	conjunction	-10353 Oct 30 j 08:23	26°Ω46'20	1°25'02
direct	-10359 Jul 07 j 06:06	11°Ω04'29		minimum elong	-10353 Oct 30 j 08:24	26°Ω46'20	1°25'24
evening set	-10359 Oct 01 j 09:54	12°Ω56'49		max. Earth dist.	-10353 Oct 31 j 08:52	26°Ω48'39	31.05246 AU
				morning rise	-10353 Nov 14 j 23:02	27°Ω21'25	
conjunction	-10359 Oct 16 j 16:32	13°Ω31'12	1°53'45	retrograde	-10352 Feb 14 j 09:58	29°Ω20'00	
minimum elong	-10359 Oct 16 j 16:33	13°Ω31'12	1°54'12	min. Earth dist.	-10352 May 04 j 10:35	27°Ω56'51	29.04981 AU
max. Earth dist.	-10359 Oct 17 j 13:49	13°Ω33'13	31.09450 AU	opposition	-10352 May 05 j 10:54	27°Ω55'10	1°28'01
morning rise	-10359 Nov 01 j 02:36	14°Ω05'55		direct	-10352 Jul 22 j 07:26	26°Ω32'38	
	-10359 Nov 27 j 11:07	15°Ω		evening set	-10352 Oct 16 j 08:12	28°Ω24'47	
retrograde	-10358 Jan 31 j 04:33	16°Ω04'00					
	-10358 Apr 09 j 13:48	15°Ω		conjunction	-10352 Oct 31 j 19:40	28°Ω59'33	1°19'44
min. Earth dist.	-10358 Apr 21 j 10:47	14°Ω40'44	29.09137 AU	minimum elong	-10352 Oct 31 j 19:41	28°Ω59'34	1°20'05
opposition	-10358 Apr 22 j 07:43	14°Ω39'18	1°59'13	max. Earth dist.	-10352 Nov 01 j 21:05	29°Ω01'57	31.04494 AU
direct	-10358 Jul 09 j 17:43	13°Ω16'35		morning rise	-10352 Nov 16 j 11:00	29°Ω34'42	
	-10358 Sep 29 j 18:37	15°Ω			-10352 Nov 28 j 05:27	0°Ω	
evening set	-10358 Oct 03 j 19:35	15°Ω08'51		retrograde	-10351 Feb 15 j 22:30	1°Ω33'20	
				opposition	-10351 May 07 j 23:28	0°Ω08'29	1°22'18
conjunction	-10358 Oct 19 j 02:56	15°Ω43'18	1°49'21	min. Earth dist.	-10351 May 06 j 23:35	0°Ω10'07	29.04159 AU
minimum elong	-10358 Oct 19 j 02:57	15°Ω43'18	1°49'49		-10351 May 13 j 02:44	30°Ω	
max. Earth dist.	-10358 Oct 20 j 01:15	15°Ω45'25	31.08577 AU	direct	-10351 Jul 24 j 18:41	28°Ω45'55	
morning rise	-10358 Nov 03 j 13:40	16°Ω18'04			-10351 Sep 30 j 16:55	0°Ω	
retrograde	-10357 Feb 02 j 18:14	18°Ω16'13		evening set	-10351 Oct 18 j 18:54	0°Ω38'03	
opposition	-10357 Apr 24 j 20:14	16°Ω51'28	1°54'26				
min. Earth dist.	-10357 Apr 23 j 21:28	16°Ω53'02	29.08308 AU	conjunction	-10351 Nov 03 j 07:03	1°Ω12'53	1°14'20
direct	-10357 Jul 12 j 05:21	15°Ω28'46		minimum elong	-10351 Nov 03 j 07:04	1°Ω12'53	1°14'40
evening set	-10357 Oct 06 j 05:17	17°Ω21'00		max. Earth dist.	-10351 Nov 04 j 07:54	1°Ω15'14	31.03623 AU
				morning rise	-10351 Nov 18 j 23:11	1°Ω48'05	
conjunction	-10357 Oct 21 j 13:11	17°Ω55'30	1°44'48	retrograde	-10350 Feb 18 j 13:01	3°Ω46'45	
minimum elong	-10357 Oct 21 j 13:12	17°Ω55'30	1°45'14	min. Earth dist.	-10350 May 09 j 11:14	2°Ω23'32	29.03215 AU
max. Earth dist.	-10357 Oct 22 j 11:50	17°Ω57'38	31.07806 AU	opposition	-10350 May 10 j 11:47	2°Ω21'50	1°16'27
morning rise	-10357 Nov 06 j 00:47	18°Ω30'20		direct	-10350 Jul 27 j 05:27	0°Ω59'15	
retrograde	-10356 Feb 05 j 05:56	20°Ω28'34		evening set	-10350 Oct 21 j 05:37	2°Ω51'21	
min. Earth dist.	-10356 Apr 25 j 10:31	19°Ω05'20	29.07585 AU				
opposition	-10356 Apr 26 j 08:57	19°Ω03'48	1°49'28	conjunction	-10350 Nov 05 j 18:27	3°Ω26'14	1°08'49
direct	-10356 Jul 13 j 15:01	17°Ω41'08		minimum elong	-10350 Nov 05 j 18:28	3°Ω26'14	1°09'08
evening set	-10356 Oct 07 j 15:08	19°Ω33'19		max. Earth dist.	-10350 Nov 06 j 19:27	3°Ω28'35	31.02619 AU
				morning rise	-10350 Nov 21 j 11:22	4°Ω01'30	
conjunction	-10356 Oct 22 j 23:53	20°Ω07'52	1°40'05	retrograde	-10349 Feb 21 j 02:03	6°Ω00'10	
minimum elong	-10356 Oct 22 j 23:54	20°Ω07'52	1°40'31	min. Earth dist.	-10349 May 12 j 00:34	4°Ω36'49	29.02155 AU
max. Earth dist.	-10356 Oct 24 j 00:04	20°Ω10'10	31.07136 AU	opposition	-10349 May 13 j 00:16	4°Ω35'11	1°10'30
morning rise	-10356 Nov 07 j 12:07	20°Ω42'46		direct	-10349 Jul 29 j 17:48	3°Ω12'33	
retrograde	-10355 Feb 06 j 17:37	22°Ω41'05		evening set	-10349 Oct 23 j 16:11	5°Ω04'36	
opposition	-10355 Apr 28 j 21:19	21°Ω16'18	1°44'21				

Attention, astronomical year style is used: The year -10349 in astronomical counting style is the year 10350 BCE in historical counting style.

conjunction	-10349 Nov 08 j 05:50	5° $\mathring{\mu}$ 39'32	1°03'12	direct	-10342 Aug 13 j 21:20	18° $\mathring{\mu}$ 44'31	
minimum elong	-10349 Nov 08 j 05:51	5° $\mathring{\mu}$ 39'32	1°03'29	evening set	-10342 Nov 07 j 21:42	20° $\mathring{\mu}$ 36'32	
max. Earth dist.	-10349 Nov 09 j 07:16	5° $\mathring{\mu}$ 41'56	31.01540 AU				
morning rise	-10349 Nov 23 j 23:28	6° $\mathring{\mu}$ 14'51		conjunction	-10342 Nov 23 j 16:05	21° $\mathring{\mu}$ 11'48	0°21'41
retrograde	-10348 Feb 23 j 16:28	8° $\mathring{\mu}$ 13'32		minimum elong	-10342 Nov 23 j 16:05	21° $\mathring{\mu}$ 11'48	0°21'50
min. Earth dist.	-10348 May 13 j 11:43	6° $\mathring{\mu}$ 50'10	29.01040 AU	max. Earth dist.	-10342 Nov 24 j 19:07	21° $\mathring{\mu}$ 14'21	30.95446 AU
opposition	-10348 May 14 j 12:32	6° $\mathring{\mu}$ 48'27	1°04'27	morning rise	-10342 Dec 09 j 14:41	21° $\mathring{\mu}$ 47'29	
direct	-10348 Jul 31 j 06:29	5° $\mathring{\mu}$ 25'45		retrograde	-10341 Mar 11 j 08:45	23° $\mathring{\mu}$ 46'17	
evening set	-10348 Oct 25 j 03:06	7° $\mathring{\mu}$ 17'45		min. Earth dist.	-10341 May 29 j 22:30	22° $\mathring{\mu}$ 22'44	28.95195 AU
				opposition	-10341 May 31 j 00:24	22° $\mathring{\mu}$ 20'56	0°19'48
				direct	-10341 Aug 16 j 07:44	20° $\mathring{\mu}$ 58'04	
				evening set	-10341 Nov 10 j 09:17	22° $\mathring{\mu}$ 50'07	
conjunction	-10348 Nov 09 j 17:20	7° $\mathring{\mu}$ 52'44	0°57'29				
minimum elong	-10348 Nov 09 j 17:20	7° $\mathring{\mu}$ 52'44	0°57'46				
max. Earth dist.	-10348 Nov 10 j 18:27	7° $\mathring{\mu}$ 55'06	31.00419 AU				
morning rise	-10348 Nov 25 j 11:50	8° $\mathring{\mu}$ 28'07		conjunction	-10341 Nov 26 j 04:16	23° $\mathring{\mu}$ 25'27	0°15'33
retrograde	-10347 Feb 25 j 03:59	10° $\mathring{\mu}$ 26'47		minimum elong	-10341 Nov 26 j 04:16	23° $\mathring{\mu}$ 25'27	0°15'40
min. Earth dist.	-10347 May 16 j 00:47	9° $\mathring{\mu}$ 03'16	28.99931 AU	behind sun begin	-10341 Nov 26 j 02:58	23° $\mathring{\mu}$ 25'20	
opposition	-10347 May 17 j 00:42	9° $\mathring{\mu}$ 01'37	0°58'17	behind sun end	-10341 Nov 26 j 05:34	23° $\mathring{\mu}$ 25'34	
direct	-10347 Aug 02 j 16:50	7° $\mathring{\mu}$ 38'52		max. Earth dist.	-10341 Nov 27 j 07:23	23° $\mathring{\mu}$ 28'00	30.94863 AU
evening set	-10347 Oct 27 j 13:55	9° $\mathring{\mu}$ 30'49		morning rise	-10341 Dec 12 j 03:31	24° $\mathring{\mu}$ 01'11	
				retrograde	-10340 Mar 12 j 22:10	26° $\mathring{\mu}$ 00'02	
conjunction	-10347 Nov 12 j 05:01	10° $\mathring{\mu}$ 05'51	0°51'41	min. Earth dist.	-10340 May 31 j 11:34	24° $\mathring{\mu}$ 36'24	28.94601 AU
minimum elong	-10347 Nov 12 j 05:01	10° $\mathring{\mu}$ 05'51	0°51'57	opposition	-10340 Jun 01 j 12:20	24° $\mathring{\mu}$ 34'41	0°13'12
max. Earth dist.	-10347 Nov 13 j 07:18	10° $\mathring{\mu}$ 08'20	30.99340 AU	direct	-10340 Aug 17 j 19:19	23° $\mathring{\mu}$ 11'49	
morning rise	-10347 Nov 28 j 00:05	10° $\mathring{\mu}$ 41'17		evening set	-10340 Nov 11 j 21:09	25° $\mathring{\mu}$ 03'56	
retrograde	-10346 Feb 27 j 16:03	12° $\mathring{\mu}$ 39'57					
min. Earth dist.	-10346 May 18 j 11:41	11° $\mathring{\mu}$ 16'26	28.98880 AU	conjunction	-10340 Nov 27 j 16:51	25° $\mathring{\mu}$ 39'18	0°09'23
opposition	-10346 May 19 j 12:43	11° $\mathring{\mu}$ 14'42	0°52'03	minimum elong	-10340 Nov 27 j 16:51	25° $\mathring{\mu}$ 39'18	0°09'29
direct	-10346 Aug 05 j 04:58	9° $\mathring{\mu}$ 51'54		behind sun begin	-10340 Nov 27 j 11:26	25° $\mathring{\mu}$ 38'49	
evening set	-10346 Oct 30 j 00:50	11° $\mathring{\mu}$ 43'50		behind sun end	-10340 Nov 27 j 22:16	25° $\mathring{\mu}$ 39'48	
				max. Earth dist.	-10340 Nov 28 j 19:54	25° $\mathring{\mu}$ 41'51	30.94254 AU
conjunction	-10346 Nov 14 j 16:26	12° $\mathring{\mu}$ 18'55	0°45'49	morning rise	-10340 Dec 13 j 16:39	26° $\mathring{\mu}$ 15'05	
minimum elong	-10346 Nov 14 j 16:26	12° $\mathring{\mu}$ 18'55	0°46'03	retrograde	-10339 Mar 15 j 13:02	28° $\mathring{\mu}$ 13'57	
max. Earth dist.	-10346 Nov 15 j 18:04	12° $\mathring{\mu}$ 21'19	30.98340 AU	opposition	-10339 Jun 03 j 23:59	26° $\mathring{\mu}$ 48'36	0°06'35
morning rise	-10346 Nov 30 j 12:22	12° $\mathring{\mu}$ 54'23		min. Earth dist.	-10339 Jun 02 j 22:38	26° $\mathring{\mu}$ 50'22	28.93951 AU
retrograde	-10345 Mar 02 j 05:06	14° $\mathring{\mu}$ 53'04		direct	-10339 Aug 20 j 07:40	25° $\mathring{\mu}$ 25'43	
min. Earth dist.	-10345 May 21 j 00:03	13° $\mathring{\mu}$ 29'29	28.97939 AU	evening set	-10339 Nov 14 j 09:19	27° $\mathring{\mu}$ 17'54	
opposition	-10345 May 22 j 00:50	13° $\mathring{\mu}$ 27'46	0°45'44				
direct	-10345 Aug 07 j 14:07	12° $\mathring{\mu}$ 04'55		conjunction	-10339 Nov 30 j 05:30	27° $\mathring{\mu}$ 53'19	0°03'12
evening set	-10345 Nov 01 j 11:47	13° $\mathring{\mu}$ 56'51		minimum elong	-10339 Nov 30 j 05:29	27° $\mathring{\mu}$ 53'19	0°03'18
				behind sun begin	-10339 Nov 29 j 23:00	27° $\mathring{\mu}$ 52'44	
conjunction	-10345 Nov 17 j 04:14	14° $\mathring{\mu}$ 31'58	0°39'52	behind sun end	-10339 Nov 30 j 11:58	27° $\mathring{\mu}$ 53'54	
minimum elong	-10345 Nov 17 j 04:14	14° $\mathring{\mu}$ 31'58	0°40'06	max. Earth dist.	-10339 Dec 01 j 07:33	27° $\mathring{\mu}$ 55'46	30.93554 AU
max. Earth dist.	-10345 Nov 18 j 07:19	14° $\mathring{\mu}$ 34'31	30.97460 AU	morning rise	-10339 Dec 16 j 05:58	28° $\mathring{\mu}$ 29'09	
morning rise	-10345 Dec 03 j 00:43	15° $\mathring{\mu}$ 07'30			-10338 Feb 04 j 00:53	0° $\mathring{\mu}$	
retrograde	-10344 Mar 03 j 16:23	17° $\mathring{\mu}$ 06'12		retrograde	-10338 Mar 18 j 01:50	0° $\mathring{\mu}$ 28'01	
min. Earth dist.	-10344 May 22 j 11:19	15° $\mathring{\mu}$ 42'37	28.97113 AU		-10338 Apr 29 j 21:17	30° $\mathring{\mu}$	
opposition	-10344 May 23 j 12:45	15° $\mathring{\mu}$ 40'51	0°39'20	desc. node	-10338 Jun 04 j 00:13	29° $\mathring{\mu}$ 06'50	
direct	-10344 Aug 09 j 01:37	14° $\mathring{\mu}$ 18'00		opposition	-10338 Jun 06 j 11:55	29° $\mathring{\mu}$ 02'40	-0°00'03
evening set	-10344 Nov 02 j 22:59	16° $\mathring{\mu}$ 09'56		min. Earth dist.	-10338 Jun 05 j 12:01	29° $\mathring{\mu}$ 04'20	28.93207 AU
				direct	-10338 Aug 22 j 18:02	27° $\mathring{\mu}$ 39'45	
conjunction	-10344 Nov 18 j 16:01	16° $\mathring{\mu}$ 45'06	0°33'52	evening set	-10338 Nov 16 j 21:14	29° $\mathring{\mu}$ 31'58	
minimum elong	-10344 Nov 18 j 16:01	16° $\mathring{\mu}$ 45'06	0°34'04		-10338 Nov 29 j 11:07	0° $\mathring{\mu}$	
max. Earth dist.	-10344 Nov 19 j 18:25	16° $\mathring{\mu}$ 47'35	30.96705 AU				
morning rise	-10344 Dec 04 j 13:22	17° $\mathring{\mu}$ 20'41		conjunction	-10338 Dec 02 j 18:09	0° $\mathring{\mu}$ 07'26	-0°03'09
retrograde	-10343 Mar 06 j 06:01	19° $\mathring{\mu}$ 19'25		minimum elong	-10338 Dec 02 j 18:09	0° $\mathring{\mu}$ 07'26	0°03'05
min. Earth dist.	-10343 May 24 j 23:06	17° $\mathring{\mu}$ 55'50	28.96408 AU	behind sun begin	-10338 Dec 02 j 11:39	0° $\mathring{\mu}$ 06'51	
opposition	-10343 May 26 j 00:44	17° $\mathring{\mu}$ 54'03	0°32'53	behind sun end	-10338 Dec 03 j 00:39	0° $\mathring{\mu}$ 08'01	
direct	-10343 Aug 11 j 10:58	16° $\mathring{\mu}$ 31'10		max. Earth dist.	-10338 Dec 03 j 20:42	0° $\mathring{\mu}$ 09'55	30.92764 AU
evening set	-10343 Nov 05 j 10:16	18° $\mathring{\mu}$ 23'08		morning rise	-10338 Dec 18 j 19:03	0° $\mathring{\mu}$ 43'18	
				retrograde	-10337 Mar 20 j 15:22	2° $\mathring{\mu}$ 42'10	
conjunction	-10343 Nov 21 j 04:01	18° $\mathring{\mu}$ 58'22	0°27'48	opposition	-10337 Jun 08 j 23:38	1° $\mathring{\mu}$ 16'47	-0°06'41
minimum elong	-10343 Nov 21 j 04:01	18° $\mathring{\mu}$ 58'22	0°27'58	min. Earth dist.	-10337 Jun 07 j 23:17	1° $\mathring{\mu}$ 18'29	28.92363 AU
max. Earth dist.	-10343 Nov 22 j 07:29	19° $\mathring{\mu}$ 00'57	30.96037 AU		-10337 Aug 06 j 05:26	30° $\mathring{\mu}$	
morning rise	-10343 Dec 07 j 01:55	19° $\mathring{\mu}$ 34'00		direct	-10337 Aug 25 j 06:43	29° $\mathring{\mu}$ 53'49	
retrograde	-10342 Mar 08 j 17:56	21° $\mathring{\mu}$ 32'45			-10337 Sep 12 j 23:52	0° $\mathring{\mu}$	
min. Earth dist.	-10342 May 27 j 11:17	20° $\mathring{\mu}$ 09'09	28.95773 AU	evening set	-10337 Nov 19 j 09:32	1° $\mathring{\mu}$ 46'04	
opposition	-10342 May 28 j 12:32	20° $\mathring{\mu}$ 07'24	0°26'22				

Attention, astronomical year style is used: The year -10337 in astronomical counting style is the year 10338 BCE in historical counting style.

conjunction	-10337 Dec 05 j 06:53	2° <u>21</u> '34	-0°09'19	morning rise	-10330 Jan 03 j 17:09	16° <u>21</u> '56	
minimum elong	-10337 Dec 05 j 06:53	2° <u>21</u> '34	0°09'16	retrograde	-10330 Apr 05 j 08:02	18° <u>20</u> '37	
behind sun begin	-10337 Dec 05 j 01:23	2° <u>21</u> '05		min. Earth dist.	-10330 Jun 23 j 08:30	16° <u>25</u> '42	28.87568 AU
behind sun end	-10337 Dec 05 j 12:22	2° <u>22</u> '04		opposition	-10330 Jun 24 j 07:24	16° <u>25</u> '05	-0°52'15
max. Earth dist.	-10337 Dec 06 j 07:58	2° <u>23</u> '55	30.91889 AU	direct	-10330 Sep 09 j 10:45	15° <u>31</u> '43	
morning rise	-10337 Dec 21 j 08:30	2° <u>25</u> '28		evening set	-10330 Dec 05 j 01:15	17° <u>24</u> '23	
retrograde	-10336 Mar 22 j 04:54	4° <u>25</u> '20					
opposition	-10336 Jun 10 j 11:18	3° <u>23</u> '54	-0°13'18	conjunction	-10330 Dec 21 j 02:04	18° <u>20</u> '07	-0°51'46
min. Earth dist.	-10336 Jun 09 j 12:01	3° <u>23</u> '32	28.91468 AU	minimum elong	-10330 Dec 21 j 02:03	18° <u>20</u> '07	0°51'53
direct	-10336 Aug 26 j 16:34	2° <u>20</u> '52		max. Earth dist.	-10330 Dec 22 j 02:09	18° <u>20</u> '22	30.87391 AU
evening set	-10336 Nov 20 j 21:46	4° <u>20</u> '08		morning rise	-10329 Jan 06 j 06:42	18° <u>23</u> '12	
				retrograde	-10329 Apr 07 j 21:19	20° <u>23</u> '53	
conjunction	-10336 Dec 06 j 19:51	4° <u>23</u> '41	-0°15'29	opposition	-10329 Jun 26 j 18:46	19° <u>20</u> '23	-0°58'33
minimum elong	-10336 Dec 06 j 19:51	4° <u>23</u> '41	0°15'29	min. Earth dist.	-10329 Jun 25 j 21:14	19° <u>20</u> '54	28.87339 AU
behind sun begin	-10336 Dec 06 j 18:17	4° <u>23</u> '32		direct	-10329 Sep 11 j 21:06	17° <u>24</u> '00	
behind sun end	-10336 Dec 06 j 21:25	4° <u>23</u> '49		evening set	-10329 Dec 07 j 14:17	19° <u>23</u> '46	
max. Earth dist.	-10336 Dec 07 j 21:42	4° <u>23</u> '06	30.90979 AU				
morning rise	-10336 Dec 22 j 21:51	5° <u>21</u> '37		conjunction	-10329 Dec 23 j 15:40	20° <u>24</u> '31	-0°57'36
retrograde	-10335 Mar 24 j 15:50	7° <u>21</u> '02		minimum elong	-10329 Dec 23 j 15:39	20° <u>24</u> '31	0°57'44
opposition	-10335 Jun 12 j 22:49	5° <u>24</u> '57	-0°19'54	max. Earth dist.	-10329 Dec 24 j 16:10	20° <u>26</u> '49	30.87192 AU
min. Earth dist.	-10335 Jun 11 j 23:29	5° <u>24</u> '36	28.90556 AU	morning rise	-10328 Jan 08 j 20:30	20° <u>25</u> '38	
direct	-10335 Aug 29 j 04:46	4° <u>21</u> '51		retrograde	-10328 Apr 09 j 11:55	22° <u>24</u> '17	
evening set	-10335 Nov 23 j 10:11	6° <u>21</u> '09		min. Earth dist.	-10328 Jun 27 j 08:05	21° <u>25</u> '22	28.87155 AU
				opposition	-10328 Jun 28 j 05:50	21° <u>23</u> '50	-1°04'45
conjunction	-10335 Dec 09 j 08:39	6° <u>24</u> '43	-0°21'38	direct	-10328 Sep 13 j 10:09	20° <u>20</u> '26	
minimum elong	-10335 Dec 09 j 08:39	6° <u>24</u> '43	0°21'39	evening set	-10328 Dec 09 j 03:44	21° <u>25</u> '18	
max. Earth dist.	-10335 Dec 10 j 09:17	6° <u>25</u> '02	30.90089 AU				
morning rise	-10335 Dec 25 j 11:15	7° <u>25</u> '42		conjunction	-10328 Dec 25 j 05:19	22° <u>29</u> '06	-1°03'22
retrograde	-10334 Mar 27 j 04:28	9° <u>24</u> '28		minimum elong	-10328 Dec 25 j 05:19	22° <u>29</u> '06	1°03'32
min. Earth dist.	-10334 Jun 14 j 11:05	8° <u>20</u> '35	28.89708 AU	max. Earth dist.	-10328 Dec 26 j 04:05	22° <u>31</u> '14	30.87005 AU
opposition	-10334 Jun 15 j 10:13	7° <u>25</u> '57	-0°26'28	morning rise	-10327 Jan 10 j 10:36	23° <u>20</u> '51	
direct	-10334 Aug 31 j 14:24	6° <u>23</u> '46		retrograde	-10327 Apr 12 j 01:45	25° <u>20</u> '52	
evening set	-10334 Nov 25 j 22:33	8° <u>22</u> '07		opposition	-10327 Jun 30 j 17:08	23° <u>38</u> '27	-1°10'51
				min. Earth dist.	-10327 Jun 29 j 20:44	23° <u>39</u> '54	28.86967 AU
conjunction	-10334 Dec 11 j 21:37	9° <u>20</u> '44	-0°27'45	direct	-10327 Sep 15 j 20:43	22° <u>21</u> '50	
minimum elong	-10334 Dec 11 j 21:36	9° <u>20</u> '44	0°27'48	evening set	-10327 Dec 11 j 17:07	24° <u>20</u> '08	
max. Earth dist.	-10334 Dec 12 j 23:03	9° <u>20</u> '07	30.89279 AU				
morning rise	-10334 Dec 28 j 00:33	9° <u>23</u> '43		conjunction	-10327 Dec 27 j 19:12	24° <u>23</u> '49	-1°09'02
retrograde	-10333 Mar 29 j 15:57	11° <u>23</u> '29		minimum elong	-10327 Dec 27 j 19:11	24° <u>23</u> '49	1°09'13
opposition	-10333 Jun 17 j 21:37	10° <u>21</u> '56	-0°33'00	max. Earth dist.	-10327 Dec 28 j 18:14	24° <u>25</u> '58	30.86776 AU
min. Earth dist.	-10333 Jun 16 j 22:59	10° <u>21</u> '31	28.88962 AU	morning rise	-10326 Jan 13 j 00:31	25° <u>21</u> '58	
direct	-10333 Sep 03 j 00:34	8° <u>24</u> '41		retrograde	-10326 Apr 14 j 13:45	27° <u>21</u> '34	
evening set	-10333 Nov 28 j 10:59	10° <u>24</u> '05		min. Earth dist.	-10326 Jul 02 j 08:20	25° <u>25</u> '36	28.86704 AU
				opposition	-10326 Jul 03 j 04:19	25° <u>25</u> '11	-1°16'52
conjunction	-10333 Dec 14 j 10:32	11° <u>21</u> '43	-0°33'50	direct	-10326 Sep 18 j 09:00	24° <u>22</u> '43	
minimum elong	-10333 Dec 14 j 10:32	11° <u>21</u> '43	0°33'53	evening set	-10326 Dec 14 j 06:46	26° <u>22</u> '48	
max. Earth dist.	-10333 Dec 15 j 11:19	11° <u>22</u> '02	30.88607 AU				
morning rise	-10333 Dec 30 j 14:01	11° <u>25</u> '44		conjunction	-10326 Dec 30 j 09:03	26° <u>25</u> '38	-1°14'35
retrograde	-10332 Mar 31 j 05:37	13° <u>25</u> '28		minimum elong	-10326 Dec 30 j 09:02	26° <u>25</u> '37	1°14'48
min. Earth dist.	-10332 Jun 18 j 09:46	12° <u>28</u> '32	28.88362 AU	max. Earth dist.	-10326 Dec 31 j 06:05	27° <u>20</u> '36	30.86474 AU
opposition	-10332 Jun 19 j 08:56	12° <u>26</u> '55	-0°39'28	morning rise	-10325 Jan 15 j 14:46	27° <u>23</u> '47	
direct	-10332 Sep 04 j 11:18	11° <u>20</u> '36		retrograde	-10325 Apr 17 j 03:28	29° <u>23</u> '21	
evening set	-10332 Nov 29 j 23:42	12° <u>25</u> '05		opposition	-10325 Jul 05 j 15:30	28° <u>20</u> '59	-1°22'45
				min. Earth dist.	-10325 Jul 04 j 20:20	28° <u>20</u> '20	28.86370 AU
conjunction	-10332 Dec 15 j 23:42	13° <u>23</u> '45	-0°39'52	direct	-10325 Sep 20 j 19:19	26° <u>24</u> '27	
minimum elong	-10332 Dec 15 j 23:41	13° <u>23</u> '45	0°39'57	evening set	-10325 Dec 16 j 20:22	28° <u>23</u> '37	
max. Earth dist.	-10332 Dec 17 j 00:30	13° <u>23</u> '04	30.88064 AU				
morning rise	-10331 Jan 01 j 03:34	14° <u>20</u> '48		conjunction	-10324 Jan 01 j 23:06	29° <u>21</u> '28	-1°20'02
retrograde	-10331 Apr 02 j 17:52	16° <u>20</u> '30		minimum elong	-10324 Jan 01 j 23:06	29° <u>21</u> '28	1°20'16
opposition	-10331 Jun 21 j 20:12	14° <u>24</u> '57	-0°45'54	max. Earth dist.	-10324 Jan 02 j 20:11	29° <u>21</u> '52	30.86083 AU
min. Earth dist.	-10331 Jun 20 j 22:04	14° <u>24</u> '30	28.87897 AU	morning rise	-10324 Jan 18 j 04:56	29° <u>24</u> '37	
direct	-10331 Sep 06 j 22:44	13° <u>21</u> '36			-10324 Jan 22 j 23:56	0° <u>24</u> '	
evening set	-10331 Dec 02 j 12:26	15° <u>21</u> '10		retrograde	-10324 Apr 18 j 15:02	1° <u>24</u> '48	07
				min. Earth dist.	-10324 Jul 06 j 08:46	0° <u>24</u> '02	28.85941 AU
conjunction	-10331 Dec 18 j 12:57	15° <u>24</u> '52	-0°45'51	opposition	-10324 Jul 07 j 02:42	0° <u>22</u> '45	-1°28'31
minimum elong	-10331 Dec 18 j 12:57	15° <u>24</u> '52	0°45'56		-10324 Jul 20 j 16:07	30° <u>24</u> '	
max. Earth dist.	-10331 Dec 19 j 13:44	15° <u>24</u> '11	30.87674 AU	direct	-10324 Sep 22 j 06:18	28° <u>25</u> '09	

Attention, astronomical year style is used: The year -10324 in astronomical counting style is the year 10325 BCE in historical counting style.

	-10324 Nov 22 j 14:22	0°M		max. Earth dist.	-10317 Jan 18 j 18:44	14°M.57'53	30.84226 AU
evening set	-10324 Dec 18 j 10:13	0°M.52'24			-10317 Jan 19 j 17:27	15°M	
				morning rise	-10317 Feb 03 j 08:38	15°M.32'29	
conjunction	-10323 Jan 03 j 13:12	1°M.28'15	-1°25'22	retrograde	-10317 May 05 j 09:00	17°M.30'30	
minimum elong	-10323 Jan 03 j 13:11	1°M.28'15	1°25'38	opposition	-10317 Jul 23 j 06:36	16°M.05'19	-2°04'36
max. Earth dist.	-10323 Jan 04 j 08:42	1°M.30'05	30.85633 AU	min. Earth dist.	-10317 Jul 22 j 16:32	16°M.06'19	28.84438 AU
morning rise	-10323 Jan 19 j 19:17	2°M.04'25			-10317 Sep 05 j 02:35	15°R.M	
retrograde	-10323 Apr 21 j 03:53	4°M.02'51		direct	-10317 Oct 08 j 17:10	14°M.41'16	
opposition	-10323 Jul 09 j 13:36	2°M.37'28	-1°34'08		-10317 Nov 10 j 19:37	15°M	
min. Earth dist.	-10323 Jul 08 j 19:50	2°M.38'44	28.85482 AU	evening set	-10316 Jan 04 j 12:07	16°M.35'20	
direct	-10323 Sep 24 j 17:41	1°M.13'46					
evening set	-10323 Dec 21 j 00:03	3°M.07'07		conjunction	-10316 Jan 20 j 16:30	17°M.11'16	-1°58'35
				minimum elong	-10316 Jan 20 j 16:29	17°M.11'16	1°58'58
conjunction	-10322 Jan 06 j 03:17	3°M.42'59	-1°30'34	max. Earth dist.	-10316 Jan 21 j 07:10	17°M.12'39	30.84407 AU
minimum elong	-10322 Jan 06 j 03:16	3°M.42'59	1°30'50	morning rise	-10316 Feb 05 j 23:11	17°M.47'26	
max. Earth dist.	-10322 Jan 06 j 22:22	3°M.44'46	30.85159 AU	retrograde	-10316 May 06 j 23:34	19°M.45'24	
morning rise	-10322 Jan 22 j 09:29	4°M.19'09		opposition	-10316 Jul 24 j 17:23	18°M.20'17	-2°09'04
retrograde	-10322 Apr 23 j 15:05	6°M.17'30		min. Earth dist.	-10316 Jul 24 j 04:04	18°M.21'14	28.84659 AU
min. Earth dist.	-10322 Jul 11 j 08:21	4°M.53'16	28.85034 AU	direct	-10316 Oct 10 j 03:53	16°M.56'13	
opposition	-10322 Jul 12 j 00:39	4°M.52'07	-1°39'37	evening set	-10315 Jan 06 j 02:33	18°M.50'27	
direct	-10322 Sep 27 j 05:04	3°M.28'19					
evening set	-10322 Dec 23 j 13:42	5°M.21'45		conjunction	-10315 Jan 22 j 07:11	19°M.26'24	-2°02'40
				minimum elong	-10315 Jan 22 j 07:10	19°M.26'24	2°03'05
conjunction	-10321 Jan 08 j 17:15	5°M.57'38	-1°35'37	max. Earth dist.	-10315 Jan 22 j 21:56	19°M.27'46	30.84627 AU
minimum elong	-10321 Jan 08 j 17:14	5°M.57'38	1°35'55	morning rise	-10315 Feb 07 j 13:40	20°M.02'33	
max. Earth dist.	-10321 Jan 09 j 11:46	5°M.59'22	30.84743 AU	retrograde	-10315 May 09 j 11:10	22°M.00'27	
morning rise	-10321 Jan 24 j 23:34	6°M.33'48		opposition	-10315 Jul 27 j 04:06	20°M.35'26	-2°13'20
retrograde	-10321 Apr 26 j 04:34	8°M.32'04		min. Earth dist.	-10315 Jul 26 j 16:11	20°M.36'17	28.84886 AU
opposition	-10321 Jul 14 j 11:29	7°M.06'42	-1°44'57	direct	-10315 Oct 12 j 14:51	19°M.11'21	
min. Earth dist.	-10321 Jul 13 j 18:45	7°M.07'53	28.84664 AU	evening set	-10314 Jan 08 j 17:10	21°M.05'44	
direct	-10321 Sep 29 j 17:23	5°M.42'49					
evening set	-10321 Dec 26 j 03:43	7°M.36'22		conjunction	-10314 Jan 24 j 21:48	21°M.41'40	-2°06'34
				minimum elong	-10314 Jan 24 j 21:47	21°M.41'40	2°06'59
conjunction	-10320 Jan 11 j 07:23	8°M.12'15	-1°40'32	max. Earth dist.	-10314 Jan 25 j 10:39	21°M.42'52	30.84843 AU
minimum elong	-10320 Jan 11 j 07:22	8°M.12'15	1°40'50	morning rise	-10314 Feb 10 j 04:22	22°M.17'49	
max. Earth dist.	-10320 Jan 12 j 00:55	8°M.13'53	30.84410 AU	retrograde	-10314 May 12 j 00:05	24°M.15'40	
morning rise	-10320 Jan 27 j 13:52	8°M.48'25		opposition	-10314 Jul 29 j 14:53	22°M.50'43	-2°17'23
retrograde	-10320 Apr 27 j 17:05	10°M.46'37		min. Earth dist.	-10314 Jul 29 j 03:19	22°M.51'33	28.85087 AU
opposition	-10320 Jul 15 j 22:19	9°M.21'15	-1°50'07	direct	-10314 Oct 15 j 02:18	21°M.26'36	
min. Earth dist.	-10320 Jul 15 j 07:08	9°M.22'20	28.84408 AU	evening set	-10313 Jan 11 j 07:41	23°M.21'07	
direct	-10320 Oct 01 j 04:10	7°M.57'18					
evening set	-10320 Dec 27 j 17:41	9°M.50'58		conjunction	-10313 Jan 27 j 12:28	23°M.57'04	-2°10'16
				minimum elong	-10313 Jan 27 j 12:27	23°M.57'04	2°10'42
conjunction	-10319 Jan 12 j 21:42	10°M.26'52	-1°45'17	max. Earth dist.	-10313 Jan 28 j 00:35	23°M.58'12	30.84986 AU
minimum elong	-10319 Jan 12 j 21:41	10°M.26'52	1°45'38	morning rise	-10313 Feb 12 j 18:55	24°M.33'12	
max. Earth dist.	-10319 Jan 13 j 15:24	10°M.28'31	30.84214 AU	retrograde	-10313 May 14 j 11:11	26°M.30'58	
morning rise	-10319 Jan 29 j 04:09	11°M.03'02		opposition	-10313 Aug 01 j 01:48	25°M.06'05	-2°21'15
retrograde	-10319 Apr 30 j 07:10	13°M.01'09		min. Earth dist.	-10313 Jul 31 j 16:12	25°M.06'46	28.85192 AU
opposition	-10319 Jul 18 j 09:05	11°M.35'50	-1°55'08	direct	-10313 Oct 17 j 13:18	23°M.41'54	
min. Earth dist.	-10319 Jul 17 j 17:36	11°M.36'56	28.84282 AU	evening set	-10312 Jan 13 j 22:26	25°M.36'32	
direct	-10319 Oct 03 j 17:47	10°M.11'51					
evening set	-10319 Dec 30 j 07:45	12°M.05'38		conjunction	-10312 Jan 30 j 03:20	26°M.12'29	-2°13'46
				minimum elong	-10312 Jan 30 j 03:20	26°M.12'29	2°14'12
conjunction	-10318 Jan 15 j 11:46	12°M.41'33	-1°49'53	max. Earth dist.	-10312 Jan 30 j 13:55	26°M.13'28	30.85042 AU
minimum elong	-10318 Jan 15 j 11:45	12°M.41'33	1°50'14	morning rise	-10312 Feb 15 j 09:45	26°M.48'36	
max. Earth dist.	-10318 Jan 16 j 03:55	12°M.43'03	30.84149 AU	retrograde	-10312 May 16 j 00:31	28°M.46'15	
morning rise	-10318 Jan 31 j 18:22	13°M.17'42		opposition	-10312 Aug 02 j 12:25	27°M.21'25	-2°24'53
	-10318 Apr 01 j 19:56	15°M		min. Earth dist.	-10312 Aug 02 j 02:58	27°M.22'05	28.85200 AU
retrograde	-10318 May 02 j 20:23	15°M.15'47		direct	-10312 Oct 19 j 01:16	25°M.57'08	
	-10318 Jun 03 j 01:08	15°R.M		evening set	-10311 Jan 15 j 13:18	27°M.51'54	
opposition	-10318 Jul 20 j 19:55	13°M.50'30	-1°59'57				
min. Earth dist.	-10318 Jul 20 j 05:32	13°M.51'32	28.84303 AU	conjunction	-10311 Jan 31 j 18:12	28°M.27'50	-2°17'04
direct	-10318 Oct 06 j 04:48	12°M.26'29		minimum elong	-10311 Jan 31 j 18:11	28°M.27'50	2°17'33
evening set	-10317 Jan 01 j 21:47	14°M.20'24		max. Earth dist.	-10311 Feb 01 j 03:14	28°M.28'41	30.84994 AU
				morning rise	-10311 Feb 17 j 00:33	29°M.03'56	
conjunction	-10317 Jan 18 j 02:09	14°M.56'20	-1°54'20		-10311 Mar 16 j 18:57	0°Z	
minimum elong	-10317 Jan 18 j 02:08	14°M.56'20	1°54'42	retrograde	-10311 May 18 j 11:42	1°Z.01'28	

Attention, astronomical year style is used: The year -10311 in astronomical counting style is the year 10312 BCE in historical counting style.

	-10311 Jul 22 j 02:56	30° \mathbb{M}		conjunction	-10304 Feb 18 j 00:55	14° \mathbb{A} 11'37	-2°34'03
opposition	-10311 Aug 04 j 23:14	29° \mathbb{M} 36'39	-2°28'18	minimum elong	-10304 Feb 18 j 00:54	14° \mathbb{A} 11'37	2°34'35
min. Earth dist.	-10311 Aug 04 j 15:51	29° \mathbb{M} 37'11	28.85131 AU	max. Earth dist.	-10304 Feb 18 j 04:06	14° \mathbb{A} 11'55	30.85845 AU
direct	-10311 Oct 21 j 12:56	28° \mathbb{M} 12'17		morning rise	-10304 Mar 05 j 06:14	14° \mathbb{A} 47'34	
	-10310 Jan 14 j 20:43	0° \mathbb{A}		retrograde	-10304 Jun 03 j 01:50	16° \mathbb{A} 44'12	
evening set	-10310 Jan 18 j 03:50	0° \mathbb{A} 07'08		opposition	-10304 Aug 20 j 00:31	15° \mathbb{A} 19'42	-2°45'36
				min. Earth dist.	-10304 Aug 19 j 22:36	15° \mathbb{A} 19'50	28.86344 AU
conjunction	-10310 Feb 03 j 08:54	0° \mathbb{A} 43'04	-2°20'10	direct	-10304 Nov 06 j 02:51	13° \mathbb{A} 54'49	
minimum elong	-10310 Feb 03 j 08:53	0° \mathbb{A} 43'04	2°20'38	evening set	-10303 Feb 03 j 10:32	15° \mathbb{A} 50'26	
max. Earth dist.	-10310 Feb 03 j 17:28	0° \mathbb{A} 43'52	30.84902 AU				
morning rise	-10310 Feb 19 j 15:04	1° \mathbb{A} 19'08		conjunction	-10303 Feb 19 j 15:40	16° \mathbb{A} 26'21	-2°35'34
retrograde	-10310 May 21 j 00:20	3° \mathbb{A} 16'32		minimum elong	-10303 Feb 19 j 15:40	16° \mathbb{A} 26'21	2°36'07
opposition	-10310 Aug 07 j 09:47	1° \mathbb{A} 51'44	-2°31'29	max. Earth dist.	-10303 Feb 19 j 17:32	16° \mathbb{A} 26'31	30.86430 AU
min. Earth dist.	-10310 Aug 07 j 02:33	1° \mathbb{A} 52'15	28.85030 AU	morning rise	-10303 Mar 07 j 20:52	17° \mathbb{A} 02'17	
direct	-10310 Oct 24 j 03:10	0° \mathbb{A} 27'15		retrograde	-10303 Jun 05 j 14:47	18° \mathbb{A} 58'49	
evening set	-10309 Jan 20 j 18:35	2° \mathbb{A} 22'11		opposition	-10303 Aug 22 j 10:54	17° \mathbb{A} 34'25	-2°47'05
				min. Earth dist.	-10303 Aug 22 j 08:54	17° \mathbb{A} 34'34	28.86956 AU
conjunction	-10309 Feb 05 j 23:33	2° \mathbb{A} 58'07	-2°23'02	direct	-10303 Nov 08 j 14:21	16° \mathbb{A} 09'32	
minimum elong	-10309 Feb 05 j 23:32	2° \mathbb{A} 58'07	2°23'33	evening set	-10302 Feb 06 j 01:15	18° \mathbb{A} 05'18	
max. Earth dist.	-10309 Feb 06 j 06:13	2° \mathbb{A} 58'44	30.84803 AU				
morning rise	-10309 Feb 22 j 05:44	3° \mathbb{A} 34'10		conjunction	-10302 Feb 22 j 06:17	18° \mathbb{A} 41'12	-2°36'50
retrograde	-10309 May 23 j 12:47	5° \mathbb{A} 31'26		minimum elong	-10302 Feb 22 j 06:17	18° \mathbb{A} 41'12	2°37'23
opposition	-10309 Aug 09 j 20:19	4° \mathbb{A} 06'38	-2°34'26	max. Earth dist.	-10302 Feb 22 j 07:00	18° \mathbb{A} 41'16	30.87044 AU
min. Earth dist.	-10309 Aug 09 j 14:34	4° \mathbb{A} 07'03	28.84970 AU	morning rise	-10302 Mar 10 j 11:17	19° \mathbb{A} 17'07	
direct	-10309 Oct 26 j 14:52	2° \mathbb{A} 42'03		retrograde	-10302 Jun 08 j 01:30	21° \mathbb{A} 13'34	
evening set	-10308 Jan 23 j 09:11	4° \mathbb{A} 37'05		opposition	-10302 Aug 24 j 21:28	19° \mathbb{A} 49'17	-2°48'19
				min. Earth dist.	-10302 Aug 24 j 21:28	19° \mathbb{A} 49'17	28.87580 AU
conjunction	-10308 Feb 08 j 14:22	5° \mathbb{A} 13'00	-2°25'42	direct	-10302 Nov 11 j 01:32	18° \mathbb{A} 24'22	
minimum elong	-10308 Feb 08 j 14:21	5° \mathbb{A} 13'00	2°26'12	evening set	-10301 Feb 08 j 16:03	20° \mathbb{A} 20'16	
max. Earth dist.	-10308 Feb 08 j 21:08	5° \mathbb{A} 13'38	30.84766 AU				
morning rise	-10308 Feb 24 j 20:17	5° \mathbb{A} 49'02		conjunction	-10301 Feb 24 j 21:09	20° \mathbb{A} 56'10	-2°37'52
retrograde	-10308 May 25 j 01:10	7° \mathbb{A} 46'09		minimum elong	-10301 Feb 24 j 21:09	20° \mathbb{A} 56'10	2°38'26
opposition	-10308 Aug 11 j 06:47	6° \mathbb{A} 21'22	-2°37'10	max. Earth dist.	-10301 Feb 24 j 21:05	20° \mathbb{A} 56'10	30.87649 AU
min. Earth dist.	-10308 Aug 11 j 01:30	6° \mathbb{A} 21'45	28.84976 AU	morning rise	-10301 Mar 13 j 01:55	21° \mathbb{A} 32'04	
direct	-10308 Oct 28 j 04:15	4° \mathbb{A} 56'42		retrograde	-10301 Jun 10 j 13:50	23° \mathbb{A} 28'24	
evening set	-10307 Jan 24 j 23:55	6° \mathbb{A} 51'49		opposition	-10301 Aug 27 j 07:49	22° \mathbb{A} 04'13	-2°49'17
				min. Earth dist.	-10301 Aug 27 j 08:14	22° \mathbb{A} 04'11	28.88151 AU
conjunction	-10307 Feb 10 j 04:57	7° \mathbb{A} 27'44	-2°28'08	direct	-10301 Nov 13 j 15:03	20° \mathbb{A} 39'16	
minimum elong	-10307 Feb 10 j 04:56	7° \mathbb{A} 27'44	2°28'39	evening set	-10300 Feb 11 j 07:04	22° \mathbb{A} 35'18	
max. Earth dist.	-10307 Feb 10 j 09:41	7° \mathbb{A} 28'11	30.84823 AU				
morning rise	-10307 Feb 26 j 10:52	8° \mathbb{A} 03'45		conjunction	-10300 Feb 27 j 12:02	23° \mathbb{A} 11'12	-2°38'39
retrograde	-10307 May 27 j 15:01	10° \mathbb{A} 00'44		minimum elong	-10300 Feb 27 j 12:01	23° \mathbb{A} 11'12	2°39'13
opposition	-10307 Aug 13 j 17:13	8° \mathbb{A} 35'59	-2°39'38	max. Earth dist.	-10300 Feb 27 j 09:46	23° \mathbb{A} 10'59	30.88175 AU
min. Earth dist.	-10307 Aug 13 j 12:32	8° \mathbb{A} 36'19	28.85111 AU	morning rise	-10300 Mar 14 j 16:41	23° \mathbb{A} 47'05	
direct	-10307 Oct 30 j 16:23	7° \mathbb{A} 11'13		retrograde	-10300 Jun 12 j 02:10	25° \mathbb{A} 43'18	
evening set	-10306 Jan 27 j 14:30	9° \mathbb{A} 06'28		opposition	-10300 Aug 28 j 18:26	24° \mathbb{A} 19'11	-2°50'00
				min. Earth dist.	-10300 Aug 28 j 20:35	24° \mathbb{A} 19'02	28.88643 AU
conjunction	-10306 Feb 12 j 19:40	9° \mathbb{A} 42'23	-2°30'20	direct	-10300 Nov 15 j 02:30	22° \mathbb{A} 54'11	
minimum elong	-10306 Feb 12 j 19:39	9° \mathbb{A} 42'23	2°30'51	evening set	-10299 Feb 12 j 21:51	24° \mathbb{A} 50'20	
max. Earth dist.	-10306 Feb 13 j 00:44	9° \mathbb{A} 42'51	30.85017 AU				
morning rise	-10306 Mar 01 j 01:15	10° \mathbb{A} 18'22		conjunction	-10299 Mar 01 j 02:54	25° \mathbb{A} 26'13	-2°39'12
retrograde	-10306 May 30 j 01:51	12° \mathbb{A} 15'13		minimum elong	-10299 Mar 01 j 02:54	25° \mathbb{A} 26'13	2°39'47
opposition	-10306 Aug 16 j 03:42	10° \mathbb{A} 50'32	-2°41'53	max. Earth dist.	-10299 Mar 01 j 00:15	25° \mathbb{A} 25'58	30.88616 AU
min. Earth dist.	-10306 Aug 16 j 00:04	10° \mathbb{A} 50'47	28.85383 AU	morning rise	-10299 Mar 17 j 07:12	26° \mathbb{A} 02'05	
direct	-10306 Nov 02 j 04:28	9° \mathbb{A} 25'43		retrograde	-10299 Jun 14 j 14:20	27° \mathbb{A} 58'09	
evening set	-10305 Jan 30 j 05:02	11° \mathbb{A} 21'04		opposition	-10299 Aug 31 j 04:54	26° \mathbb{A} 34'06	-2°50'27
				min. Earth dist.	-10299 Aug 31 j 07:53	26° \mathbb{A} 33'53	28.89037 AU
conjunction	-10305 Feb 15 j 10:08	11° \mathbb{A} 56'59	-2°32'19	direct	-10299 Nov 17 j 16:21	25° \mathbb{A} 09'02	
minimum elong	-10305 Feb 15 j 10:07	11° \mathbb{A} 56'58	2°32'51	evening set	-10298 Feb 15 j 12:43	27° \mathbb{A} 05'16	
max. Earth dist.	-10305 Feb 15 j 13:33	11° \mathbb{A} 57'18	30.85368 AU				
morning rise	-10305 Mar 03 j 15:44	12° \mathbb{A} 32'57		conjunction	-10298 Mar 03 j 17:34	27° \mathbb{A} 41'09	-2°39'31
retrograde	-10305 Jun 01 j 14:50	14° \mathbb{A} 29'41		minimum elong	-10298 Mar 03 j 17:33	27° \mathbb{A} 41'09	2°40'05
opposition	-10305 Aug 18 j 14:05	13° \mathbb{A} 05'05	-2°43'52	max. Earth dist.	-10298 Mar 03 j 12:28	27° \mathbb{A} 40'40	30.88986 AU
min. Earth dist.	-10305 Aug 18 j 10:29	13° \mathbb{A} 05'20	28.85808 AU	morning rise	-10298 Mar 19 j 21:49	28° \mathbb{A} 16'59	
direct	-10305 Nov 04 j 16:12	11° \mathbb{A} 40'13			-10298 May 20 j 12:40	0° \mathbb{B}	
evening set	-10304 Feb 01 j 19:45	13° \mathbb{A} 35'42		retrograde	-10298 Jun 17 j 04:03	0° \mathbb{B} 12'54	
					-10298 Jul 14 j 21:43	30° \mathbb{R} \mathbb{A}	

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

opposition	-10298 Sep 02 j 15:18	28° \mathring{A} 48'53	-2°50'39	conjunction	-10291 Mar 19 j 22:04	13° \mathring{B} 21'32	-2°34'58
min. Earth dist.	-10298 Sep 02 j 19:13	28° \mathring{A} 48'37	28.89395 AU	minimum elong	-10291 Mar 19 j 22:04	13° \mathring{B} 21'32	2°35'34
direct	-10298 Nov 20 j 05:23	27° \mathring{A} 23'45		max. Earth dist.	-10291 Mar 19 j 11:14	13° \mathring{B} 20'32	30.93090 AU
evening set	-10297 Feb 18 j 03:13	29° \mathring{A} 20'04		morning rise	-10291 Apr 05 j 00:45	13° \mathring{B} 57'13	
				retrograde	-10291 Jul 02 j 09:59	15° \mathring{B} 52'02	
conjunction	-10297 Mar 06 j 08:14	29° \mathring{A} 55'56	-2°39'35	opposition	-10291 Sep 17 j 15:39	14° \mathring{B} 28'31	-2°44'54
minimum elong	-10297 Mar 06 j 08:14	29° \mathring{A} 55'56	2°40'10	min. Earth dist.	-10291 Sep 18 j 01:04	14° \mathring{B} 27'51	28.93823 AU
max. Earth dist.	-10297 Mar 06 j 03:08	29° \mathring{A} 55'28	30.89328 AU	direct	-10291 Dec 05 j 16:54	13° \mathring{B} 03'03	
	-10297 Mar 08 j 03:57	0° \mathring{B}		evening set	-10290 Mar 06 j 07:49	14° \mathring{B} 59'51	
morning rise	-10297 Mar 22 j 12:09	0° \mathring{B} 31'44					
retrograde	-10297 Jun 19 j 14:27	2° \mathring{B} 27'29		conjunction	-10290 Mar 22 j 12:18	15° \mathring{B} 35'39	-2°33'22
opposition	-10297 Sep 05 j 01:44	1° \mathring{B} 03'32	-2°50'36	minimum elong	-10290 Mar 22 j 12:18	15° \mathring{B} 35'39	2°33'57
min. Earth dist.	-10297 Sep 05 j 07:05	1° \mathring{B} 03'09	28.89731 AU	max. Earth dist.	-10290 Mar 22 j 01:31	15° \mathring{B} 34'39	30.94120 AU
	-10297 Oct 17 j 01:43	30° \mathring{R} \mathring{A}		morning rise	-10290 Apr 07 j 14:39	16° \mathring{B} 11'19	
direct	-10297 Nov 22 j 18:34	29° \mathring{A} 38'19		retrograde	-10290 Jul 04 j 21:10	18° \mathring{B} 06'00	
	-10297 Dec 29 j 00:10	0° \mathring{B}		opposition	-10290 Sep 20 j 01:59	16° \mathring{B} 42'36	-2°43'04
evening set	-10296 Feb 20 j 17:56	1° \mathring{B} 34'41		min. Earth dist.	-10290 Sep 20 j 12:04	16° \mathring{B} 41'53	28.94856 AU
				direct	-10290 Dec 08 j 06:32	15° \mathring{B} 17'08	
conjunction	-10296 Mar 07 j 22:45	2° \mathring{B} 10'33	-2°39'25	evening set	-10289 Mar 08 j 22:09	17° \mathring{B} 14'01	
minimum elong	-10296 Mar 07 j 22:45	2° \mathring{B} 10'33	2°39'59				
max. Earth dist.	-10296 Mar 07 j 15:39	2° \mathring{B} 09'53	30.89686 AU	conjunction	-10289 Mar 25 j 02:24	17° \mathring{B} 49'49	-2°31'32
morning rise	-10296 Mar 24 j 02:37	2° \mathring{B} 46'20		minimum elong	-10289 Mar 25 j 02:25	17° \mathring{B} 49'49	2°32'07
retrograde	-10296 Jun 21 j 03:24	4° \mathring{B} 41'54		max. Earth dist.	-10289 Mar 24 j 13:27	17° \mathring{B} 48'37	30.95156 AU
opposition	-10296 Sep 06 j 11:56	3° \mathring{B} 17'59	-2°50'17	morning rise	-10289 Apr 10 j 04:41	18° \mathring{B} 25'27	
min. Earth dist.	-10296 Sep 06 j 17:29	3° \mathring{B} 17'35	28.90118 AU	retrograde	-10289 Jul 07 j 10:11	20° \mathring{B} 20'02	
direct	-10296 Nov 24 j 07:11	1° \mathring{B} 52'41		opposition	-10289 Sep 22 j 12:26	18° \mathring{B} 56'43	-2°40'59
evening set	-10295 Feb 22 j 08:25	3° \mathring{B} 49'07		min. Earth dist.	-10289 Sep 22 j 23:22	18° \mathring{B} 55'57	28.95874 AU
				direct	-10289 Dec 10 j 19:12	17° \mathring{B} 31'15	
conjunction	-10295 Mar 10 j 13:16	4° \mathring{B} 24'58	-2°39'00	evening set	-10288 Mar 10 j 12:25	19° \mathring{B} 28'13	
minimum elong	-10295 Mar 10 j 13:16	4° \mathring{B} 24'59	2°39'35				
max. Earth dist.	-10295 Mar 10 j 06:07	4° \mathring{B} 24'19	30.90104 AU	conjunction	-10288 Mar 26 j 16:43	20° \mathring{B} 04'01	-2°29'29
morning rise	-10295 Mar 26 j 16:46	5° \mathring{B} 00'44		minimum elong	-10288 Mar 26 j 16:43	20° \mathring{B} 04'01	2°30'02
retrograde	-10295 Jun 23 j 14:15	6° \mathring{B} 56'08		max. Earth dist.	-10288 Mar 26 j 03:41	20° \mathring{B} 02'48	30.96136 AU
opposition	-10295 Sep 08 j 22:24	5° \mathring{B} 32'16	-2°49'43	morning rise	-10288 Apr 11 j 18:34	20° \mathring{B} 39'37	
min. Earth dist.	-10295 Sep 09 j 05:30	5° \mathring{B} 31'46	28.90591 AU	retrograde	-10288 Jul 08 j 20:49	22° \mathring{B} 34'03	
direct	-10295 Nov 26 j 18:39	4° \mathring{B} 06'54		opposition	-10288 Sep 23 j 23:00	21° \mathring{B} 10'50	-2°38'39
evening set	-10294 Feb 24 j 22:40	6° \mathring{B} 03'23		min. Earth dist.	-10288 Sep 24 j 11:29	21° \mathring{B} 09'57	28.96801 AU
				direct	-10288 Dec 12 j 08:17	19° \mathring{B} 45'22	
conjunction	-10294 Mar 13 j 03:23	6° \mathring{B} 39'14	-2°38'21	evening set	-10287 Mar 13 j 02:47	21° \mathring{B} 42'23	
minimum elong	-10294 Mar 13 j 03:23	6° \mathring{B} 39'14	2°38'56				
max. Earth dist.	-10294 Mar 12 j 19:02	6° \mathring{B} 38'27	30.90645 AU	conjunction	-10287 Mar 29 j 06:48	22° \mathring{B} 18'10	-2°27'12
morning rise	-10294 Mar 29 j 06:46	7° \mathring{B} 14'58		minimum elong	-10287 Mar 29 j 06:49	22° \mathring{B} 18'10	2°27'45
retrograde	-10294 Jun 26 j 01:57	9° \mathring{B} 10'13		max. Earth dist.	-10287 Mar 28 j 15:33	22° \mathring{B} 16'45	30.97026 AU
opposition	-10294 Sep 11 j 08:40	7° \mathring{B} 46'25	-2°48'54	morning rise	-10287 Apr 14 j 08:34	22° \mathring{B} 53'45	
min. Earth dist.	-10294 Sep 11 j 15:20	7° \mathring{B} 45'56	28.91195 AU	retrograde	-10287 Jul 11 j 10:06	24° \mathring{B} 48'02	
direct	-10294 Nov 29 j 06:44	6° \mathring{B} 20'59		opposition	-10287 Sep 26 j 09:32	23° \mathring{B} 24'54	-2°36'06
evening set	-10293 Feb 27 j 13:00	8° \mathring{B} 17'33		min. Earth dist.	-10287 Sep 26 j 22:18	23° \mathring{B} 24'00	28.97639 AU
				direct	-10287 Dec 14 j 21:26	21° \mathring{B} 59'24	
conjunction	-10293 Mar 15 j 17:40	8° \mathring{B} 53'23	-2°37'28	evening set	-10286 Mar 15 j 16:44	23° \mathring{B} 56'27	
minimum elong	-10293 Mar 15 j 17:40	8° \mathring{B} 53'23	2°38'03				
max. Earth dist.	-10293 Mar 15 j 08:38	8° \mathring{B} 52'32	30.91317 AU	conjunction	-10286 Mar 31 j 20:47	24° \mathring{B} 32'14	-2°24'41
morning rise	-10293 Mar 31 j 20:47	9° \mathring{B} 29'06		minimum elong	-10286 Mar 31 j 20:48	24° \mathring{B} 32'14	2°25'15
retrograde	-10293 Jun 28 j 11:19	11° \mathring{B} 24'11		max. Earth dist.	-10286 Mar 31 j 05:19	24° \mathring{B} 30'47	30.97812 AU
opposition	-10293 Sep 13 j 18:56	10° \mathring{B} 00'28	-2°47'49	morning rise	-10286 Apr 16 j 22:10	25° \mathring{B} 07'47	
min. Earth dist.	-10293 Sep 14 j 03:12	9° \mathring{B} 59'52	28.91946 AU	retrograde	-10286 Jul 13 j 20:52	27° \mathring{B} 01'55	
direct	-10293 Dec 01 j 17:53	8° \mathring{B} 35'00		opposition	-10286 Sep 28 j 20:10	25° \mathring{B} 38'51	-2°33'18
evening set	-10292 Mar 01 j 03:19	10° \mathring{B} 31'38		min. Earth dist.	-10286 Sep 29 j 10:48	25° \mathring{B} 37'48	28.98376 AU
				direct	-10286 Dec 17 j 09:56	24° \mathring{B} 13'18	
conjunction	-10292 Mar 17 j 07:58	11° \mathring{B} 07'28	-2°36'20	evening set	-10285 Mar 18 j 06:50	26° \mathring{B} 10'23	
minimum elong	-10292 Mar 17 j 07:58	11° \mathring{B} 07'28	2°36'55				
max. Earth dist.	-10292 Mar 16 j 22:29	11° \mathring{B} 06'35	30.92148 AU	conjunction	-10285 Apr 03 j 10:42	26° \mathring{B} 46'09	-2°21'59
morning rise	-10292 Apr 02 j 10:51	11° \mathring{B} 43'10		minimum elong	-10285 Apr 03 j 10:42	26° \mathring{B} 46'09	2°22'32
retrograde	-10292 Jun 29 j 22:42	13° \mathring{B} 38'06		max. Earth dist.	-10285 Apr 02 j 17:33	26° \mathring{B} 44'33	30.98525 AU
opposition	-10292 Sep 15 j 05:16	12° \mathring{B} 14'29	-2°46'29	morning rise	-10285 Apr 19 j 11:57	27° \mathring{B} 21'41	
min. Earth dist.	-10292 Sep 15 j 13:25	12° \mathring{B} 13'54	28.92828 AU	retrograde	-10285 Jul 16 j 08:25	29° \mathring{B} 15'39	
direct	-10292 Dec 03 j 06:26	10° \mathring{B} 49'00		opposition	-10285 Oct 01 j 06:28	27° \mathring{B} 52'37	-2°30'18
evening set	-10291 Mar 03 j 17:38	12° \mathring{B} 45'43		min. Earth dist.	-10285 Oct 01 j 21:03	27° \mathring{B} 51'36	28.99047 AU

Attention, astronomical year style is used: The year -10285 in astronomical counting style is the year 10286 BCE in historical counting style.

direct	-10285 Dec 19 j 23:03	26° \approx 27'02		conjunction	-10278 Apr 19 j 08:15	12° \approx 19'23	-1°57'24
evening set	-10284 Mar 19 j 20:50	28° \approx 24'08		minimum elong	-10278 Apr 19 j 08:16	12° \approx 19'23	1°57'53
max. Earth dist.	-10284 Apr 04 j 06:40	28° \approx 58'13	30.99180 AU	morning rise	-10278 May 05 j 07:38	12° \approx 54'46	
				retrograde	-10278 Jul 31 j 11:53	14° \approx 47'49	
conjunction	-10284 Apr 05 j 00:35	28° \approx 59'53	-2°19'03	opposition	-10278 Oct 16 j 08:04	13° \approx 25'16	-2°03'19
minimum elong	-10284 Apr 05 j 00:35	28° \approx 59'53	2°19'36	min. Earth dist.	-10278 Oct 17 j 02:29	13° \approx 23'59	29.05152 AU
morning rise	-10284 Apr 21 j 01:30	29° \approx 35'24		direct	-10277 Jan 04 j 12:50	11° \approx 59'37	
	-10284 May 02 j 16:01	0° \approx		evening set	-10277 Apr 05 j 18:49	13° \approx 56'54	
retrograde	-10284 Jul 17 j 17:52	1° \approx 29'12					
opposition	-10284 Oct 02 j 17:04	0° \approx 06'13	-2°27'04	conjunction	-10277 Apr 21 j 21:24	14° \approx 32'34	-1°53'09
min. Earth dist.	-10284 Oct 03 j 09:23	0° \approx 05'04	28.99698 AU	minimum elong	-10277 Apr 21 j 21:25	14° \approx 32'34	1°53'36
	-10284 Oct 06 j 09:12	30° \approx 00'00		max. Earth dist.	-10277 Apr 21 j 00:09	14° \approx 30'35	31.05577 AU
direct	-10284 Dec 21 j 10:31	28° \approx 40'35			-10277 May 04 j 05:24	15° \approx	
	-10283 Mar 04 j 07:10	0° \approx		morning rise	-10277 May 07 j 20:18	15° \approx 07'55	
evening set	-10283 Mar 22 j 10:30	0° \approx 37'42		retrograde	-10277 Aug 02 j 22:44	17° \approx 00'52	
				opposition	-10277 Oct 18 j 18:44	15° \approx 38'26	-1°58'40
conjunction	-10283 Apr 07 j 14:07	1° \approx 13'26	-2°15'56	min. Earth dist.	-10277 Oct 19 j 14:49	15° \approx 37'01	29.06269 AU
minimum elong	-10283 Apr 07 j 14:08	1° \approx 13'26	2°16'28		-10277 Nov 11 j 11:15	15° \approx 00'00	
max. Earth dist.	-10283 Apr 06 j 19:42	1° \approx 11'43	30.99846 AU	direct	-10276 Jan 07 j 01:42	14° \approx 12'49	
morning rise	-10283 Apr 23 j 14:47	1° \approx 48'55			-10276 Mar 02 j 04:09	15° \approx	
retrograde	-10283 Jul 20 j 04:29	3° \approx 42'34		evening set	-10276 Apr 07 j 08:09	16° \approx 10'08	
opposition	-10283 Oct 05 j 03:31	2° \approx 19'38	-2°23'37	max. Earth dist.	-10276 Apr 22 j 11:45	16° \approx 43'40	31.06678 AU
min. Earth dist.	-10283 Oct 05 j 19:43	2° \approx 18'30	29.00369 AU				
direct	-10283 Dec 23 j 23:08	0° \approx 53'57		conjunction	-10276 Apr 23 j 10:22	16° \approx 45'46	-1°48'44
evening set	-10282 Mar 25 j 00:10	2° \approx 51'04		minimum elong	-10276 Apr 23 j 10:23	16° \approx 45'46	1°49'10
max. Earth dist.	-10282 Apr 09 j 08:03	3° \approx 24'59	31.00554 AU	morning rise	-10276 May 09 j 09:05	17° \approx 21'07	
				retrograde	-10276 Aug 04 j 10:23	19° \approx 13'57	
conjunction	-10282 Apr 10 j 03:33	3° \approx 26'48	-2°12'37	opposition	-10276 Oct 20 j 05:28	17° \approx 51'36	-1°53'51
minimum elong	-10282 Apr 10 j 03:33	3° \approx 26'48	2°13'08	min. Earth dist.	-10276 Oct 21 j 01:15	17° \approx 50'13	29.07318 AU
morning rise	-10282 Apr 26 j 03:59	4° \approx 02'16		direct	-10275 Jan 08 j 15:08	16° \approx 26'01	
retrograde	-10282 Jul 22 j 14:44	5° \approx 55'46		evening set	-10275 Apr 09 j 21:13	18° \approx 23'20	
opposition	-10282 Oct 07 j 13:56	4° \approx 32'53	-2°19'58				
min. Earth dist.	-10282 Oct 08 j 07:10	4° \approx 31'40	29.01126 AU	conjunction	-10275 Apr 25 j 23:12	18° \approx 58'58	-1°44'09
direct	-10282 Dec 26 j 09:30	3° \approx 07'10		minimum elong	-10275 Apr 25 j 23:13	18° \approx 58'58	1°44'34
evening set	-10281 Mar 27 j 13:36	5° \approx 04'19		max. Earth dist.	-10275 Apr 25 j 00:04	18° \approx 56'49	31.07674 AU
				morning rise	-10275 May 11 j 21:28	19° \approx 34'16	
conjunction	-10281 Apr 12 j 16:57	5° \approx 40'01	-2°09'06	retrograde	-10275 Aug 06 j 20:17	21° \approx 27'01	
minimum elong	-10281 Apr 12 j 16:58	5° \approx 40'01	2°09'36	opposition	-10275 Oct 22 j 16:24	20° \approx 04'44	-1°48'53
max. Earth dist.	-10281 Apr 11 j 21:47	5° \approx 38'14	31.01366 AU	min. Earth dist.	-10275 Oct 23 j 13:49	20° \approx 03'14	29.08259 AU
morning rise	-10281 Apr 28 j 17:03	6° \approx 15'28		direct	-10274 Jan 11 j 02:40	18° \approx 39'09	
retrograde	-10281 Jul 25 j 00:39	8° \approx 08'50		evening set	-10274 Apr 12 j 10:18	20° \approx 36'27	
opposition	-10281 Oct 10 j 00:27	6° \approx 46'01	-2°16'06				
min. Earth dist.	-10281 Oct 10 j 17:54	6° \approx 44'47	29.01973 AU	conjunction	-10274 Apr 28 j 12:02	21° \approx 12'04	-1°39'25
direct	-10281 Dec 28 j 23:17	5° \approx 20'18		minimum elong	-10274 Apr 28 j 12:03	21° \approx 12'04	1°39'50
evening set	-10280 Mar 29 j 03:08	7° \approx 17'28		max. Earth dist.	-10274 Apr 27 j 12:13	21° \approx 09'51	31.08567 AU
max. Earth dist.	-10280 Apr 13 j 09:25	7° \approx 51'14	31.02282 AU	morning rise	-10274 May 14 j 10:01	21° \approx 47'21	
				retrograde	-10274 Aug 09 j 07:07	23° \approx 39'58	
conjunction	-10280 Apr 14 j 06:08	7° \approx 53'09	-2°05'23	opposition	-10274 Oct 25 j 03:04	22° \approx 17'44	-1°43'45
minimum elong	-10280 Apr 14 j 06:09	7° \approx 53'09	2°05'53	min. Earth dist.	-10274 Oct 26 j 00:33	22° \approx 16'14	29.09076 AU
morning rise	-10280 Apr 30 j 06:03	8° \approx 28'35		direct	-10273 Jan 13 j 15:36	20° \approx 52'08	
retrograde	-10280 Jul 26 j 12:38	10° \approx 21'49		evening set	-10273 Apr 14 j 23:21	22° \approx 49'25	
opposition	-10280 Oct 11 j 10:56	8° \approx 59'05	-2°12'02	max. Earth dist.	-10273 Apr 29 j 23:43	23° \approx 22'40	31.09333 AU
min. Earth dist.	-10280 Oct 12 j 04:33	8° \approx 57'51	29.02948 AU				
direct	-10280 Dec 30 j 11:18	7° \approx 33'22		conjunction	-10273 May 01 j 00:46	23° \approx 25'00	-1°34'33
evening set	-10279 Mar 31 j 16:24	9° \approx 30'35		minimum elong	-10273 May 01 j 00:47	23° \approx 25'00	1°34'57
				morning rise	-10273 May 16 j 22:25	24° \approx 00'16	
conjunction	-10279 Apr 16 j 19:24	10° \approx 06'15	-2°01'29	retrograde	-10273 Aug 11 j 16:39	25° \approx 52'46	
minimum elong	-10279 Apr 16 j 19:25	10° \approx 06'16	2°01'59	opposition	-10273 Oct 27 j 13:56	24° \approx 30'33	-1°38'28
max. Earth dist.	-10279 Apr 15 j 23:21	10° \approx 04'24	31.03319 AU	min. Earth dist.	-10273 Oct 28 j 12:32	24° \approx 28'58	29.09792 AU
morning rise	-10279 May 02 j 18:52	10° \approx 41'40		direct	-10272 Jan 16 j 02:39	23° \approx 04'55	
retrograde	-10279 Jul 28 j 22:44	12° \approx 34'48		evening set	-10272 Apr 16 j 12:08	25° \approx 02'10	
opposition	-10279 Oct 13 j 21:34	11° \approx 12'09	-2°07'46				
min. Earth dist.	-10279 Oct 14 j 16:10	11° \approx 10'51	29.04019 AU	conjunction	-10272 May 02 j 13:21	25° \approx 37'44	-1°29'32
direct	-10278 Jan 01 j 23:32	9° \approx 46'29		minimum elong	-10272 May 02 j 13:22	25° \approx 37'44	1°29'55
evening set	-10278 Apr 03 j 05:37	11° \approx 43'43		max. Earth dist.	-10272 May 01 j 12:33	25° \approx 35'25	31.10014 AU
max. Earth dist.	-10278 Apr 18 j 10:43	12° \approx 17'23	31.04441 AU	morning rise	-10272 May 18 j 10:34	26° \approx 12'57	
				retrograde	-10272 Aug 13 j 01:20	28° \approx 05'19	

Attention, astronomical year style is used: The year -10272 in astronomical counting style is the year 10273 BCE in historical counting style.

opposition	-10272 Oct 29 j 00:47	26° \approx 43'07	-1°33'03	direct	-10265 Jan 31 j 18:41	8° \approx 28'48	
min. Earth dist.	-10272 Oct 29 j 23:46	26° \approx 41'31	29.10424 AU	evening set	-10265 May 03 j 02:00	10° \approx 25'50	
direct	-10271 Jan 17 j 16:17	25° \approx 17'28		max. Earth dist.	-10265 May 17 j 22:48	10° \approx 58'48	31.15701 AU
evening set	-10271 Apr 19 j 00:53	27° \approx 14'40					
max. Earth dist.	-10271 May 03 j 23:25	27° \approx 47'45	31.10641 AU	conjunction	-10265 May 19 j 00:37	11° \approx 01'12	-0°51'25
				minimum elong	-10265 May 19 j 00:38	11° \approx 01'12	0°51'40
conjunction	-10271 May 05 j 01:39	27° \approx 50'12	-1°24'25	morning rise	-10265 Jun 03 j 19:06	11° \approx 36'13	
minimum elong	-10271 May 05 j 01:40	27° \approx 50'12	1°24'46	retrograde	-10265 Aug 29 j 03:10	13° \approx 28'03	
morning rise	-10271 May 20 j 22:37	28° \approx 25'24		opposition	-10265 Nov 14 j 04:53	12° \approx 06'07	-0°51'56
	-10271 Jul 14 j 11:38	0° \approx		min. Earth dist.	-10265 Nov 15 j 04:31	12° \approx 04'28	29.16278 AU
retrograde	-10271 Aug 15 j 12:17	0° \approx 17'39		direct	-10264 Feb 03 j 07:38	10° \approx 40'36	
	-10271 Sep 17 j 03:23	30° \approx		evening set	-10264 May 04 j 14:00	12° \approx 37'38	
opposition	-10271 Oct 31 j 11:33	28° \approx 55'26	-1°27'30	max. Earth dist.	-10264 May 19 j 09:42	13° \approx 10'31	31.16748 AU
min. Earth dist.	-10271 Nov 01 j 10:38	28° \approx 53'50	29.11050 AU				
direct	-10270 Jan 20 j 03:28	27° \approx 29'45		conjunction	-10264 May 20 j 12:06	13° \approx 12'58	-0°45'37
evening set	-10270 Apr 21 j 13:10	29° \approx 26'54		minimum elong	-10264 May 20 j 12:06	13° \approx 12'58	0°45'51
	-10270 May 06 j 12:02	0° \approx		morning rise	-10264 Jun 05 j 06:06	13° \approx 47'58	
				retrograde	-10264 Aug 30 j 13:02	15° \approx 39'47	
conjunction	-10270 May 07 j 13:48	0° \approx 02'24	-1°19'10	opposition	-10264 Nov 15 j 16:03	14° \approx 17'55	-0°45'42
minimum elong	-10270 May 07 j 13:49	0° \approx 02'24	1°19'31	min. Earth dist.	-10264 Nov 16 j 16:22	14° \approx 16'14	29.17308 AU
max. Earth dist.	-10270 May 06 j 12:25	0° \approx 00'02	31.11276 AU	direct	-10263 Feb 04 j 18:18	12° \approx 52'28	
morning rise	-10270 May 23 j 10:16	0° \approx 37'34		evening set	-10263 May 07 j 01:52	14° \approx 49'29	
retrograde	-10270 Aug 17 j 21:23	2° \approx 29'43					
opposition	-10270 Nov 02 j 22:26	1° \approx 07'31	-1°21'51	conjunction	-10263 May 22 j 23:36	15° \approx 24'48	-0°39'45
min. Earth dist.	-10270 Nov 03 j 22:20	1° \approx 05'51	29.11692 AU	minimum elong	-10263 May 22 j 23:37	15° \approx 24'48	0°39'57
	-10270 Dec 19 j 11:52	30° \approx		max. Earth dist.	-10263 May 21 j 21:49	15° \approx 22'24	31.17743 AU
direct	-10269 Jan 22 j 16:00	29° \approx 41'48		morning rise	-10263 Jun 07 j 17:04	15° \approx 59'46	
	-10269 Feb 25 j 11:51	0° \approx		retrograde	-10263 Sep 01 j 21:45	17° \approx 51'34	
evening set	-10269 Apr 24 j 01:38	1° \approx 38'54		opposition	-10263 Nov 18 j 03:16	16° \approx 29'45	-0°39'23
max. Earth dist.	-10269 May 08 j 23:11	2° \approx 11'54	31.11961 AU	min. Earth dist.	-10263 Nov 19 j 03:46	16° \approx 28'03	29.18247 AU
				direct	-10262 Feb 07 j 06:59	15° \approx 04'22	
conjunction	-10269 May 10 j 01:44	2° \approx 14'22	-1°13'49	evening set	-10262 May 09 j 13:45	17° \approx 01'21	
minimum elong	-10269 May 10 j 01:45	2° \approx 14'22	1°14'08	max. Earth dist.	-10262 May 24 j 07:46	17° \approx 34'07	31.18631 AU
morning rise	-10269 May 25 j 21:58	2° \approx 49'30					
retrograde	-10269 Aug 20 j 09:13	4° \approx 41'33		conjunction	-10262 May 25 j 10:53	17° \approx 36'39	-0°33'49
opposition	-10269 Nov 05 j 09:07	3° \approx 19'22	-1°16'04	minimum elong	-10262 May 25 j 10:53	17° \approx 36'39	0°34'00
min. Earth dist.	-10269 Nov 06 j 08:21	3° \approx 17'45	29.12416 AU	morning rise	-10262 Jun 10 j 04:01	18° \approx 11'35	
direct	-10268 Jan 25 j 05:20	1° \approx 53'38		retrograde	-10262 Sep 04 j 08:49	20° \approx 03'21	
evening set	-10268 Apr 25 j 13:52	3° \approx 50'43		opposition	-10262 Nov 20 j 14:29	18° \approx 41'34	-0°33'02
				min. Earth dist.	-10262 Nov 21 j 14:58	18° \approx 39'53	29.19077 AU
conjunction	-10268 May 11 j 13:44	4° \approx 26'09	-1°08'21	direct	-10261 Feb 09 j 17:15	17° \approx 16'13	
minimum elong	-10268 May 11 j 13:44	4° \approx 26'10	1°08'40	evening set	-10261 May 12 j 01:27	19° \approx 13'11	
max. Earth dist.	-10268 May 10 j 12:07	4° \approx 23'46	31.12737 AU				
morning rise	-10268 May 27 j 09:22	5° \approx 01'15		conjunction	-10261 May 27 j 22:15	19° \approx 48'26	-0°27'51
retrograde	-10268 Aug 21 j 19:12	6° \approx 53'14		minimum elong	-10261 May 27 j 22:15	19° \approx 48'26	0°28'00
opposition	-10268 Nov 06 j 20:09	5° \approx 31'04	-1°10'11	max. Earth dist.	-10261 May 26 j 19:55	19° \approx 45'58	31.19395 AU
min. Earth dist.	-10268 Nov 07 j 18:20	5° \approx 29'23	29.13245 AU	morning rise	-10261 Jun 12 j 14:43	20° \approx 23'20	
direct	-10267 Jan 26 j 18:05	4° \approx 05'23		retrograde	-10261 Sep 06 j 17:48	22° \approx 15'05	
evening set	-10267 Apr 28 j 01:56	6° \approx 02'25		opposition	-10261 Nov 23 j 01:47	20° \approx 53'20	-0°26'37
max. Earth dist.	-10267 May 12 j 23:10	6° \approx 35'24	31.13639 AU	min. Earth dist.	-10261 Nov 24 j 03:12	20° \approx 51'35	29.19773 AU
				direct	-10260 Feb 12 j 05:26	19° \approx 28'00	
conjunction	-10267 May 14 j 01:18	6° \approx 37'50	-1°02'48	evening set	-10260 May 13 j 13:14	21° \approx 24'55	
minimum elong	-10267 May 14 j 01:18	6° \approx 37'50	1°03'05	max. Earth dist.	-10260 May 28 j 05:49	21° \approx 57'33	31.20049 AU
morning rise	-10267 May 29 j 20:40	7° \approx 12'54					
retrograde	-10267 Aug 24 j 06:24	9° \approx 04'49		conjunction	-10260 May 29 j 09:21	22° \approx 00'07	-0°21'51
opposition	-10267 Nov 09 j 07:00	7° \approx 42'43	-1°04'11	minimum elong	-10260 May 29 j 09:21	22° \approx 00'07	0°22'00
min. Earth dist.	-10267 Nov 10 j 06:04	7° \approx 41'07	29.14190 AU	morning rise	-10260 Jun 14 j 01:29	22° \approx 34'59	
direct	-10266 Jan 29 j 07:16	6° \approx 17'04		retrograde	-10260 Sep 08 j 05:36	24° \approx 26'42	
evening set	-10266 Apr 30 j 13:58	8° \approx 14'06		opposition	-10260 Nov 24 j 13:07	23° \approx 04'56	-0°20'11
max. Earth dist.	-10266 May 15 j 11:10	8° \approx 47'05	31.14636 AU	min. Earth dist.	-10260 Nov 25 j 13:48	23° \approx 03'15	29.20379 AU
				direct	-10259 Feb 13 j 18:29	21° \approx 39'37	
conjunction	-10266 May 16 j 13:00	8° \approx 49'30	-0°57'09	evening set	-10259 May 16 j 00:33	23° \approx 36'28	
minimum elong	-10266 May 16 j 13:01	8° \approx 49'30	0°57'26				
morning rise	-10266 Jun 01 j 07:52	9° \approx 24'32		conjunction	-10259 May 31 j 20:18	24° \approx 11'38	-0°15'50
retrograde	-10266 Aug 26 j 16:26	11° \approx 16'24		minimum elong	-10259 May 31 j 20:18	24° \approx 11'38	0°15'56
opposition	-10266 Nov 11 j 17:52	9° \approx 54'23	-0°58'06	behind sun begin	-10259 May 31 j 19:34	24° \approx 11'35	
min. Earth dist.	-10266 Nov 12 j 17:59	9° \approx 52'42	29.15224 AU	behind sun end	-10259 May 31 j 21:03	24° \approx 11'42	

Attention, astronomical year style is used: The year -10259 in astronomical counting style is the year 10260 BCE in historical counting style.

max. Earth dist.	-10259 May 30 j 17:43	24° H 09'10	31.20614 AU	opposition	-10254 Dec 08 j 09:31	6° Y 11'05	0°18'34
morning rise	-10259 Jun 16 j 11:48	24° H 46'28		min. Earth dist.	-10254 Dec 09 j 09:02	6° Y 09'28	29.24253 AU
retrograde	-10259 Sep 10 j 15:20	26° H 38'10		direct	-10253 Feb 27 j 22:17	4° Y 45'56	
opposition	-10259 Nov 27 j 00:33	25° H 16'22	-0°13'44	evening set	-10253 May 29 j 19:01	6° Y 42'26	
min. Earth dist.	-10259 Nov 28 j 02:16	25° H 14'36	29.20917 AU	max. Earth dist.	-10253 Jun 13 j 10:06	7° Y 15'01	31.24669 AU
direct	-10258 Feb 16 j 06:53	23° H 51'03					
evening set	-10258 May 18 j 11:57	25° H 47'51		conjunction	-10253 Jun 14 j 11:10	7° Y 17'21	0°20'28
max. Earth dist.	-10258 Jun 02 j 04:02	26° H 20'27	31.21146 AU	minimum elong	-10253 Jun 14 j 11:09	7° Y 17'21	0°20'30
				morning rise	-10253 Jun 29 j 23:35	7° Y 51'57	
conjunction	-10258 Jun 03 j 07:04	26° H 22'58	-0°09'48	retrograde	-10253 Sep 24 j 03:23	9° Y 43'38	
minimum elong	-10258 Jun 03 j 07:04	26° H 22'58	0°09'54	opposition	-10253 Dec 10 j 21:03	8° Y 21'54	0°24'59
behind sun begin	-10258 Jun 03 j 01:48	26° H 22'30		min. Earth dist.	-10253 Dec 11 j 19:51	8° Y 20'20	29.25156 AU
behind sun end	-10258 Jun 03 j 12:20	26° H 23'26		direct	-10252 Mar 01 j 08:18	6° Y 56'50	
morning rise	-10258 Jun 18 j 22:12	26° H 57'45		evening set	-10252 May 31 j 05:48	8° Y 53'18	
retrograde	-10258 Sep 13 j 02:07	28° H 49'24					
opposition	-10258 Nov 29 j 11:40	27° H 27'37	-0°07'16	conjunction	-10252 Jun 15 j 21:29	9° Y 28'10	0°26'27
min. Earth dist.	-10258 Nov 30 j 12:15	27° H 25'55	29.21440 AU	minimum elong	-10252 Jun 15 j 21:28	9° Y 28'10	0°26'29
direct	-10257 Feb 18 j 20:06	26° H 02'17		max. Earth dist.	-10252 Jun 14 j 21:52	9° Y 25'58	31.25571 AU
evening set	-10257 May 20 j 23:11	27° H 59'01		morning rise	-10252 Jul 01 j 09:11	10° Y 02'44	
				retrograde	-10252 Sep 25 j 12:19	11° Y 54'29	
conjunction	-10257 Jun 05 j 17:48	28° H 34'05	-0°03'46	opposition	-10252 Dec 12 j 08:54	10° Y 32'46	0°31'22
minimum elong	-10257 Jun 05 j 17:48	28° H 34'05	0°03'51	min. Earth dist.	-10252 Dec 13 j 08:07	10° Y 31'11	29.26044 AU
behind sun begin	-10257 Jun 05 j 11:24	28° H 33'31		direct	-10251 Mar 03 j 20:16	9° Y 07'48	
behind sun end	-10257 Jun 06 j 00:12	28° H 34'40		evening set	-10251 Jun 02 j 16:35	11° Y 04'14	
max. Earth dist.	-10257 Jun 04 j 15:15	28° H 31'37	31.21677 AU	max. Earth dist.	-10251 Jun 17 j 07:11	11° Y 36'47	31.26434 AU
morning rise	-10257 Jun 21 j 08:18	29° H 08'50					
	-10257 Jul 16 j 11:48	0° Y		conjunction	-10251 Jun 18 j 07:28	11° Y 39'03	0°32'24
retrograde	-10257 Sep 15 j 12:24	1° Y 00'28		minimum elong	-10251 Jun 18 j 07:28	11° Y 39'03	0°32'28
	-10257 Nov 18 j 20:32	30° R H		morning rise	-10251 Jul 03 j 18:47	12° Y 13'35	
opposition	-10257 Dec 01 j 23:09	29° H 38'39	-0°00'48	retrograde	-10251 Sep 27 j 23:49	14° Y 05'24	
min. Earth dist.	-10257 Dec 03 j 00:21	29° H 36'55	29.22004 AU	opposition	-10251 Dec 14 j 20:38	12° Y 43'43	0°37'42
asc. node	-10256 Jan 15 j 18:27	28° H 33'44		min. Earth dist.	-10251 Dec 15 j 18:50	12° Y 42'12	29.26868 AU
direct	-10256 Feb 21 j 08:44	28° H 13'21		direct	-10250 Mar 06 j 07:40	11° Y 18'49	
	-10256 May 17 j 19:19	0° Y		evening set	-10250 Jun 05 j 03:21	13° Y 15'12	
evening set	-10256 May 22 j 10:13	0° Y 10'00					
max. Earth dist.	-10256 Jun 06 j 02:19	0° Y 42'37	31.22281 AU	conjunction	-10250 Jun 20 j 17:44	13° Y 50'00	0°38'18
				minimum elong	-10250 Jun 20 j 17:43	13° Y 50'00	0°38'23
conjunction	-10256 Jun 07 j 04:14	0° Y 45'02	0°02'25	max. Earth dist.	-10250 Jun 19 j 18:26	13° Y 47'49	31.27191 AU
minimum elong	-10256 Jun 07 j 04:13	0° Y 45'02	0°02'21	morning rise	-10250 Jul 06 j 04:18	14° Y 24'29	
behind sun begin	-10256 Jun 06 j 21:46	0° Y 44'27		retrograde	-10250 Sep 30 j 09:46	16° Y 16'21	
behind sun end	-10256 Jun 07 j 10:41	0° Y 45'36		opposition	-10250 Dec 17 j 08:29	14° Y 54'41	0°43'59
morning rise	-10256 Jun 22 j 18:13	1° Y 19'44		min. Earth dist.	-10250 Dec 18 j 07:39	14° Y 53'06	29.27569 AU
retrograde	-10256 Sep 16 j 22:45	3° Y 11'21		direct	-10249 Mar 08 j 18:49	13° Y 29'51	
opposition	-10256 Dec 03 j 10:36	1° Y 49'32	0°05'40	evening set	-10249 Jun 07 j 14:13	15° Y 26'13	
min. Earth dist.	-10256 Dec 04 j 10:40	1° Y 47'53	29.22646 AU	max. Earth dist.	-10249 Jun 22 j 04:11	15° Y 58'44	31.27822 AU
direct	-10255 Feb 22 j 22:48	0° Y 24'15					
evening set	-10255 May 24 j 21:16	2° Y 20'51		conjunction	-10249 Jun 23 j 03:50	16° Y 00'57	0°44'09
				minimum elong	-10249 Jun 23 j 03:50	16° Y 00'57	0°44'15
conjunction	-10255 Jun 09 j 14:38	2° Y 55'50	0°08'27	morning rise	-10249 Jul 08 j 13:57	16° Y 35'23	
minimum elong	-10255 Jun 09 j 14:38	2° Y 55'50	0°08'25	retrograde	-10249 Oct 02 j 21:06	18° Y 27'19	
behind sun begin	-10255 Jun 09 j 08:56	2° Y 55'20		opposition	-10249 Dec 19 j 20:25	17° Y 05'39	0°50'12
behind sun end	-10255 Jun 09 j 20:19	2° Y 56'21		min. Earth dist.	-10249 Dec 20 j 18:22	17° Y 04'10	29.28126 AU
max. Earth dist.	-10255 Jun 08 j 12:45	2° Y 53'26	31.22976 AU	direct	-10248 Mar 10 j 07:45	15° Y 40'52	
morning rise	-10255 Jun 25 j 04:06	3° Y 30'30		evening set	-10248 Jun 09 j 00:49	17° Y 37'10	
retrograde	-10255 Sep 19 j 08:07	5° Y 22'08					
opposition	-10255 Dec 05 j 22:00	4° Y 00'19	0°12'07	conjunction	-10248 Jun 24 j 13:49	18° Y 11'52	0°49'56
min. Earth dist.	-10255 Dec 06 j 22:00	3° Y 58'40	29.23410 AU	minimum elong	-10248 Jun 24 j 13:49	18° Y 11'52	0°50'03
direct	-10254 Feb 25 j 09:29	2° Y 35'06		max. Earth dist.	-10248 Jun 23 j 14:29	18° Y 09'41	31.28298 AU
evening set	-10254 May 27 j 08:04	4° Y 31'38		morning rise	-10248 Jul 09 j 23:17	18° Y 46'16	
max. Earth dist.	-10254 Jun 11 j 00:29	5° Y 04'18	31.23790 AU	retrograde	-10248 Oct 04 j 08:03	20° Y 38'15	
				opposition	-10248 Dec 21 j 08:33	19° Y 16'34	0°56'20
conjunction	-10254 Jun 12 j 00:59	5° Y 06'36	0°14'28	min. Earth dist.	-10248 Dec 22 j 07:11	19° Y 15'02	29.28544 AU
minimum elong	-10254 Jun 12 j 00:59	5° Y 06'36	0°14'27	direct	-10247 Mar 12 j 20:13	17° Y 51'50	
behind sun begin	-10254 Jun 11 j 22:02	5° Y 06'20		evening set	-10247 Jun 11 j 11:24	19° Y 48'04	
behind sun end	-10254 Jun 12 j 03:56	5° Y 06'51					
morning rise	-10254 Jun 27 j 13:51	5° Y 41'13		conjunction	-10247 Jun 26 j 23:47	20° Y 22'42	0°55'38
retrograde	-10254 Sep 21 j 16:23	7° Y 32'52		minimum elong	-10247 Jun 26 j 23:46	20° Y 22'42	0°55'47

Attention, astronomical year style is used: The year -10247 in astronomical counting style is the year 10248 BCE in historical counting style.

max. Earth dist.	-10247 Jun 26 j 00:59	20° Υ 20'34	31.28652 AU	min. Earth dist.	-10240 Jan 07 j 15:25	4° B 29'03	29.30565 AU
morning rise	-10247 Jul 12 j 08:42	20° Υ 57'04		direct	-10240 Mar 28 j 06:10	3° B 05'53	
retrograde	-10247 Oct 06 j 18:33	22° Υ 49'06		evening set	-10240 Jun 26 j 10:01	5° B 01'40	
opposition	-10247 Dec 23 j 20:25	21° Υ 27'23	1°02'24				
min. Earth dist.	-10247 Dec 24 j 18:10	21° Υ 25'54	29.28837 AU	conjunction	-10240 Jul 11 j 17:50	5° B 35'59	1°32'49
direct	-10246 Mar 15 j 10:17	20° Υ 02'40		minimum elong	-10240 Jul 11 j 17:49	5° B 35'59	1°33'06
evening set	-10246 Jun 13 j 21:50	21° Υ 58'50		max. Earth dist.	-10240 Jul 11 j 00:00	5° B 34'18	31.30704 AU
max. Earth dist.	-10246 Jun 28 j 10:30	22° Υ 31'16	31.28892 AU	morning rise	-10240 Jul 26 j 23:00	6° B 10'06	
				retrograde	-10240 Oct 21 j 16:33	8° B 02'45	
conjunction	-10246 Jun 29 j 09:31	22° Υ 33'26	1°01'16	opposition	-10239 Jan 08 j 09:28	6° B 40'52	1°41'44
minimum elong	-10246 Jun 29 j 09:30	22° Υ 33'26	1°01'25	min. Earth dist.	-10239 Jan 09 j 01:55	6° B 39'45	29.31018 AU
morning rise	-10246 Jul 14 j 17:57	23° Υ 07'45		direct	-10239 Mar 30 j 18:23	5° B 16'32	
retrograde	-10246 Oct 09 j 04:25	24° Υ 59'50		evening set	-10239 Jun 28 j 19:55	7° B 12'17	
opposition	-10246 Dec 26 j 08:26	23° Υ 38'04	1°08'21	max. Earth dist.	-10239 Jul 13 j 09:57	7° B 44'57	31.31131 AU
min. Earth dist.	-10246 Dec 27 j 06:10	23° Υ 36'36	29.29055 AU				
direct	-10245 Mar 17 j 21:25	22° Υ 13'23		conjunction	-10239 Jul 14 j 03:07	7° B 46'34	1°37'40
evening set	-10245 Jun 16 j 08:01	24° Υ 09'28		minimum elong	-10239 Jul 14 j 03:06	7° B 46'34	1°37'58
				morning rise	-10239 Jul 29 j 07:45	8° B 20'39	
conjunction	-10245 Jul 01 j 19:10	24° Υ 44'01	1°06'47	retrograde	-10239 Oct 24 j 04:29	10° B 13'25	
minimum elong	-10245 Jul 01 j 19:09	24° Υ 44'01	1°07'00	opposition	-10238 Jan 10 j 21:49	8° B 51'32	1°46'50
max. Earth dist.	-10245 Jun 30 j 21:40	24° Υ 42'00	31.29081 AU	min. Earth dist.	-10238 Jan 11 j 14:37	8° B 50'24	29.31435 AU
morning rise	-10245 Jul 17 j 02:55	25° Υ 18'18		direct	-10238 Apr 02 j 05:52	7° B 27'18	
retrograde	-10245 Oct 11 j 12:34	27° Υ 10'26		evening set	-10238 Jul 01 j 05:47	9° B 23'01	
opposition	-10245 Dec 28 j 20:32	25° Υ 48'38	1°14'13				
min. Earth dist.	-10245 Dec 29 j 17:39	25° Υ 47'12	29.29234 AU	conjunction	-10238 Jul 16 j 12:25	9° B 57'15	1°42'22
direct	-10244 Mar 19 j 11:02	24° Υ 23'58		minimum elong	-10238 Jul 16 j 12:24	9° B 57'15	1°42'41
evening set	-10244 Jun 17 j 18:16	26° Υ 19'58		max. Earth dist.	-10238 Jul 15 j 20:12	9° B 55'43	31.31498 AU
max. Earth dist.	-10244 Jul 02 j 06:49	26° Υ 52'25	31.29268 AU	morning rise	-10238 Jul 31 j 16:31	10° B 31'18	
				retrograde	-10238 Oct 26 j 15:42	12° B 24'12	
conjunction	-10244 Jul 03 j 04:36	26° Υ 54'28	1°12'13	opposition	-10237 Jan 13 j 10:17	11° B 02'18	1°51'46
minimum elong	-10244 Jul 03 j 04:35	26° Υ 54'28	1°12'25	min. Earth dist.	-10237 Jan 14 j 01:55	11° B 01'14	29.31743 AU
morning rise	-10244 Jul 18 j 11:57	27° Υ 28'43		direct	-10237 Apr 04 j 19:11	9° B 38'08	
retrograde	-10244 Oct 12 j 23:33	29° Υ 20'55		evening set	-10237 Jul 03 j 15:41	11° B 33'48	
opposition	-10244 Dec 30 j 08:37	27° Υ 59'04	1°19'58				
min. Earth dist.	-10244 Dec 31 j 04:32	27° Υ 57'43	29.29461 AU	conjunction	-10237 Jul 18 j 21:35	12° B 08'00	1°46'55
direct	-10243 Mar 21 j 21:35	26° Υ 34'26		minimum elong	-10237 Jul 18 j 21:34	12° B 08'00	1°47'16
evening set	-10243 Jun 20 j 04:09	28° Υ 30'22		max. Earth dist.	-10237 Jul 18 j 05:13	12° B 06'27	31.31733 AU
				morning rise	-10237 Aug 03 j 01:16	12° B 42'01	
conjunction	-10243 Jul 05 j 14:00	29° Υ 04'49	1°17'33	retrograde	-10237 Oct 29 j 02:30	14° B 35'02	
minimum elong	-10243 Jul 05 j 13:59	29° Υ 04'49	1°17'47	opposition	-10236 Jan 15 j 22:56	13° B 13'06	1°56'34
max. Earth dist.	-10243 Jul 04 j 18:07	29° Υ 02'57	31.29515 AU	min. Earth dist.	-10236 Jan 16 j 14:24	13° B 12'04	29.31928 AU
morning rise	-10243 Jul 20 j 20:39	29° Υ 39'02		direct	-10236 Apr 06 j 06:11	11° B 49'00	
	-10243 Jul 30 j 14:37	0° B		evening set	-10236 Jul 05 j 01:29	13° B 44'36	
retrograde	-10243 Oct 15 j 07:56	1° B 31'20					
opposition	-10242 Jan 01 j 20:49	0° B 09'27	1°25'36	conjunction	-10236 Jul 20 j 06:56	14° B 18'45	1°51'19
min. Earth dist.	-10242 Jan 02 j 16:34	0° B 08'07	29.29749 AU	minimum elong	-10236 Jul 20 j 06:55	14° B 18'45	1°51'40
	-10242 Jan 07 j 16:21	30° R Υ		max. Earth dist.	-10236 Jul 19 j 16:04	14° B 17'21	31.31835 AU
direct	-10242 Mar 24 j 09:48	28° B 44'53		morning rise	-10236 Aug 04 j 10:01	14° B 52'44	
	-10242 Jun 03 j 01:21	0° B			-10236 Aug 07 j 17:38	15° B	
evening set	-10242 Jun 22 j 14:15	0° B 40'45		retrograde	-10236 Oct 30 j 11:51	16° B 45'52	
				opposition	-10235 Jan 17 j 11:36	15° B 23'53	2°01'11
conjunction	-10242 Jul 07 j 23:18	1° B 15'09	1°22'45	min. Earth dist.	-10235 Jan 18 j 02:31	15° B 22'53	29.31957 AU
minimum elong	-10242 Jul 07 j 23:17	1° B 15'09	1°22'59		-10235 Feb 01 j 10:54	15° R B	
max. Earth dist.	-10242 Jul 07 j 03:20	1° B 13'16	31.29847 AU	direct	-10235 Apr 08 j 20:21	13° B 59'50	
morning rise	-10242 Jul 23 j 05:33	1° B 49'20			-10235 Jun 10 j 05:38	15° B	
retrograde	-10242 Oct 17 j 18:55	3° B 41'43		evening set	-10235 Jul 07 j 11:17	15° B 55'20	
opposition	-10241 Jan 04 j 08:47	2° B 19'50	1°31'06				
min. Earth dist.	-10241 Jan 05 j 02:49	2° B 18'37	29.30127 AU	conjunction	-10235 Jul 22 j 16:01	16° B 29'27	1°55'33
direct	-10241 Mar 26 j 20:18	0° B 55'20		minimum elong	-10235 Jul 22 j 16:00	16° B 29'27	1°55'57
evening set	-10241 Jun 25 j 00:10	2° B 51'09		max. Earth dist.	-10235 Jul 22 j 00:37	16° B 28'00	31.31787 AU
				morning rise	-10235 Aug 06 j 18:51	17° B 03'24	
conjunction	-10241 Jul 10 j 08:42	3° B 25'32	1°27'51	retrograde	-10235 Nov 01 j 23:32	18° B 56'38	
minimum elong	-10241 Jul 10 j 08:41	3° B 25'31	1°28'07	opposition	-10234 Jan 20 j 00:11	17° B 34'36	2°05'38
max. Earth dist.	-10241 Jul 09 j 14:21	3° B 23'48	31.30250 AU	min. Earth dist.	-10234 Jan 20 j 14:08	17° B 33'39	29.31850 AU
morning rise	-10241 Jul 25 j 14:17	3° B 59'40		direct	-10234 Apr 11 j 07:50	16° B 10'33	
retrograde	-10241 Oct 20 j 05:01	5° B 52'11		evening set	-10234 Jul 09 j 20:53	18° B 05'58	
opposition	-10240 Jan 06 j 21:10	4° B 30'17	1°36'29	max. Earth dist.	-10234 Jul 24 j 11:24	18° B 38'44	31.31601 AU

Attention, astronomical year style is used: The year -10234 in astronomical counting style is the year 10235 BCE in historical counting style.

conjunction	-10234 Jul 25 j 01:14	18°8'40"03	1°59'38	opposition	-10227 Feb 04 j 16:51	2°II'46"40	2°31'23
minimum elong	-10234 Jul 25 j 01:13	18°8'40"03	2°00'01	min. Earth dist.	-10227 Feb 05 j 00:08	2°II'46"11	29.30631 AU
morning rise	-10234 Aug 09 j 03:27	19°8'13"58		direct	-10227 Apr 26 j 15:11	1°II'22"55	
retrograde	-10234 Nov 04 j 07:45	21°8'07"18		evening set	-10227 Jul 24 j 13:54	3°II'17"48	
opposition	-10233 Jan 22 j 12:48	19°8'45"10	2°09'54				
min. Earth dist.	-10233 Jan 23 j 02:49	19°8'44"14	29.31614 AU	conjunction	-10227 Aug 08 j 15:01	3°II'51"38	2°23'03
direct	-10233 Apr 13 j 20:29	18°8'21"09		minimum elong	-10227 Aug 08 j 15:00	3°II'51"38	2°23'34
evening set	-10233 Jul 12 j 06:32	20°8'16"27		max. Earth dist.	-10227 Aug 08 j 08:39	3°II'51"02	31.30454 AU
				morning rise	-10227 Aug 23 j 14:58	4°II'25"25	
conjunction	-10233 Jul 27 j 10:12	20°8'50"29	2°03'32	retrograde	-10227 Nov 19 j 12:12	6°II'19"40	
minimum elong	-10233 Jul 27 j 10:11	20°8'50"29	2°03'57	opposition	-10226 Feb 07 j 05:41	4°II'57"10	2°34'14
max. Earth dist.	-10233 Jul 26 j 20:20	20°8'49"11	31.31330 AU	min. Earth dist.	-10226 Feb 07 j 12:01	4°II'56"44	29.30648 AU
morning rise	-10233 Aug 11 j 12:10	21°8'24"23		direct	-10226 Apr 29 j 04:40	3°II'33"31	
retrograde	-10233 Nov 06 j 18:21	23°8'17"48		evening set	-10226 Jul 26 j 23:10	5°II'28"21	
opposition	-10232 Jan 25 j 01:26	21°8'55"35	2°13'59				
min. Earth dist.	-10232 Jan 25 j 13:43	21°8'54"46	29.31326 AU	conjunction	-10226 Aug 10 j 23:43	6°II'02"11	2°25'37
direct	-10232 Apr 15 j 07:37	20°8'31"34		minimum elong	-10226 Aug 10 j 23:43	6°II'02"11	2°26'07
evening set	-10232 Jul 13 j 15:49	22°8'26"46		max. Earth dist.	-10226 Aug 10 j 17:12	6°II'01"34	31.30454 AU
				morning rise	-10226 Aug 25 j 23:36	6°II'35"57	
conjunction	-10232 Jul 28 j 19:05	23°8'00"46	2°07'16	retrograde	-10226 Nov 22 j 00:56	8°II'30"22	
minimum elong	-10232 Jul 28 j 19:04	23°8'00"46	2°07'41	opposition	-10225 Feb 09 j 18:30	7°II'07"51	2°36'52
max. Earth dist.	-10232 Jul 28 j 06:49	22°8'59"36	31.31019 AU	min. Earth dist.	-10225 Feb 09 j 23:35	7°II'07"31	29.30631 AU
morning rise	-10232 Aug 12 j 20:34	23°8'34"38		direct	-10225 May 01 j 15:37	5°II'44"17	
retrograde	-10232 Nov 08 j 04:08	25°8'28"10		evening set	-10225 Jul 29 j 08:21	7°II'39"05	
opposition	-10231 Jan 26 j 14:12	24°8'05"51	2°17'52				
min. Earth dist.	-10231 Jan 27 j 02:32	24°8'05"01	29.31036 AU	conjunction	-10225 Aug 13 j 08:43	8°II'12"53	2°27'59
direct	-10231 Apr 17 j 18:07	22°8'41"51		minimum elong	-10225 Aug 13 j 08:42	8°II'12"53	2°28'30
evening set	-10231 Jul 16 j 01:12	24°8'36"57		max. Earth dist.	-10225 Aug 13 j 03:56	8°II'12"26	31.30385 AU
				morning rise	-10225 Aug 28 j 08:13	8°II'46"40	
conjunction	-10231 Jul 31 j 03:55	25°8'10"54	2°10'48	retrograde	-10225 Nov 24 j 10:09	10°II'41"14	
minimum elong	-10231 Jul 31 j 03:54	25°8'10"54	2°11'15	opposition	-10224 Feb 12 j 07:37	9°II'18"42	2°39'17
max. Earth dist.	-10231 Jul 30 j 16:31	25°8'09"50	31.30750 AU	min. Earth dist.	-10224 Feb 12 j 12:35	9°II'18"22	29.30519 AU
morning rise	-10231 Aug 15 j 05:06	25°8'44"45		direct	-10224 May 03 j 03:46	7°II'55"13	
retrograde	-10231 Nov 10 j 15:10	27°8'38"23		evening set	-10224 Jul 30 j 17:35	9°II'49"56	
opposition	-10230 Jan 29 j 02:37	26°8'16"01	2°21'33				
min. Earth dist.	-10230 Jan 29 j 12:47	26°8'15"20	29.30804 AU	conjunction	-10224 Aug 14 j 17:32	10°II'23"44	2°30'08
direct	-10230 Apr 20 j 06:05	24°8'52"02		minimum elong	-10224 Aug 14 j 17:31	10°II'23"44	2°30'38
evening set	-10230 Jul 18 j 10:31	26°8'47"04		max. Earth dist.	-10224 Aug 14 j 12:48	10°II'23"17	31.30217 AU
				morning rise	-10224 Aug 29 j 17:01	10°II'57"30	
conjunction	-10230 Aug 02 j 12:45	27°8'20"59	2°14'09	retrograde	-10224 Nov 25 j 21:26	12°II'52"14	
minimum elong	-10230 Aug 02 j 12:44	27°8'20"59	2°14'36	opposition	-10223 Feb 13 j 20:37	11°II'29"39	2°41'28
max. Earth dist.	-10230 Aug 02 j 02:13	27°8'20"00	31.30547 AU	min. Earth dist.	-10223 Feb 13 j 23:57	11°II'29"26	29.30290 AU
morning rise	-10230 Aug 17 j 13:36	27°8'54"49		direct	-10223 May 05 j 14:50	10°II'06"14	
retrograde	-10230 Nov 13 j 03:00	29°8'48"35		evening set	-10223 Aug 02 j 02:51	12°II'00"53	
opposition	-10229 Jan 31 j 15:21	28°8'26"09	2°25'02				
min. Earth dist.	-10229 Feb 01 j 01:12	28°8'25"29	29.30665 AU	conjunction	-10223 Aug 17 j 02:36	12°II'34"40	2°32'04
direct	-10229 Apr 22 j 16:37	27°8'02"14		minimum elong	-10223 Aug 17 j 02:35	12°II'34"40	2°32'36
evening set	-10229 Jul 20 j 19:36	28°8'57"11		max. Earth dist.	-10223 Aug 16 j 22:57	12°II'34"19	31.29905 AU
				morning rise	-10223 Sep 01 j 01:53	13°II'08"26	
conjunction	-10229 Aug 04 j 21:27	29°8'31"05	2°17'19	retrograde	-10223 Nov 28 j 07:54	15°II'03"18	
minimum elong	-10229 Aug 04 j 21:26	29°8'31"05	2°17'48	opposition	-10222 Feb 16 j 09:37	13°II'40"40	2°43'25
max. Earth dist.	-10229 Aug 04 j 12:41	29°8'30"15	31.30452 AU	min. Earth dist.	-10222 Feb 16 j 13:20	13°II'40"25	29.29918 AU
	-10229 Aug 17 j 17:02	0°II'		direct	-10222 May 08 j 01:06	12°II'17"17	
morning rise	-10229 Aug 19 j 21:56	0°II'04"53		evening set	-10222 Aug 04 j 12:04	14°II'11"51	
retrograde	-10229 Nov 15 j 14:08	1°II'58"48					
opposition	-10228 Feb 03 j 04:05	0°II'36"20	2°28'19	conjunction	-10222 Aug 19 j 11:35	14°II'45"37	2°33'47
min. Earth dist.	-10228 Feb 03 j 12:04	0°II'35"48	29.30610 AU	minimum elong	-10222 Aug 19 j 11:35	14°II'45"37	2°34'19
	-10228 Feb 26 j 10:08	30°8'8		max. Earth dist.	-10222 Aug 19 j 08:36	14°II'45"20	31.29469 AU
direct	-10228 Apr 24 j 04:56	29°8'12"30		morning rise	-10222 Sep 03 j 10:47	15°II'19"23	
	-10228 Jun 18 j 01:04	0°II'		retrograde	-10222 Nov 30 j 19:21	17°II'14"23	
evening set	-10228 Jul 22 j 04:51	1°II'07"25		opposition	-10221 Feb 18 j 22:37	15°II'51"40	2°45'08
				min. Earth dist.	-10221 Feb 19 j 00:28	15°II'51"33	29.29416 AU
conjunction	-10228 Aug 06 j 06:11	1°II'41"17	2°20'17	direct	-10221 May 10 j 13:10	14°II'28"19	
minimum elong	-10228 Aug 06 j 06:10	1°II'41"17	2°20'46	evening set	-10221 Aug 06 j 21:06	16°II'22"46	
max. Earth dist.	-10228 Aug 05 j 21:45	1°II'40"29	31.30431 AU				
morning rise	-10228 Aug 21 j 06:31	2°II'15"05		conjunction	-10221 Aug 21 j 20:22	16°II'56"31	2°35'16
retrograde	-10228 Nov 17 j 01:56	4°II'09"09		minimum elong	-10221 Aug 21 j 20:21	16°II'56"31	2°35'50

Attention, astronomical year style is used: The year -10221 in astronomical counting style is the year 10222 BCE in historical counting style.

max. Earth dist.	-10221 Aug 21 j 17:52	16° Π 56'17	31.28908 AU	min. Earth dist.	-10214 Mar 06 j 11:39	1° Θ 07'36	29.26004 AU
morning rise	-10221 Sep 05 j 19:35	17° Π 30'17			-10214 Apr 24 j 00:20	30° κ Π	
retrograde	-10221 Dec 03 j 07:32	19° Π 25'25		direct	-10214 May 25 j 21:04	29° Π 44'05	
opposition	-10220 Feb 21 j 11:49	18° Π 02'36	2°46'37		-10214 Jun 25 j 18:37	0° Θ	
min. Earth dist.	-10220 Feb 21 j 13:39	18° Π 02'28	29.28827 AU	evening set	-10214 Aug 21 j 11:34	1° Θ 37'56	
direct	-10220 May 11 j 23:16	16° Π 39'15					
evening set	-10220 Aug 08 j 06:05	18° Π 33'36		conjunction	-10214 Sep 05 j 10:27	2° Θ 11'40	2°39'28
				minimum elong	-10214 Sep 05 j 10:27	2° Θ 11'40	2°40'03
conjunction	-10220 Aug 23 j 05:18	19° Π 07'20	2°36'33	max. Earth dist.	-10214 Sep 05 j 16:08	2° Θ 12'13	31.25615 AU
minimum elong	-10220 Aug 23 j 05:18	19° Π 07'20	2°37'06	morning rise	-10214 Sep 20 j 10:13	2° Θ 45'31	
max. Earth dist.	-10220 Aug 23 j 04:29	19° Π 07'15	31.28294 AU	retrograde	-10214 Dec 18 j 15:55	4° Θ 41'33	
morning rise	-10220 Sep 07 j 04:24	19° Π 41'06		opposition	-10213 Mar 09 j 06:52	3° Θ 18'17	2°50'16
retrograde	-10220 Dec 04 j 18:41	21° Π 36'20		min. Earth dist.	-10213 Mar 09 j 01:00	3° Θ 18'40	29.25689 AU
opposition	-10219 Feb 23 j 00:43	20° Π 13'25	2°47'52	direct	-10213 May 28 j 07:32	1° Θ 55'15	
min. Earth dist.	-10219 Feb 23 j 00:52	20° Π 13'25	29.28200 AU	evening set	-10213 Aug 23 j 20:28	3° Θ 49'01	
direct	-10219 May 14 j 10:58	18° Π 50'04					
evening set	-10219 Aug 10 j 15:05	20° Π 44'19		conjunction	-10213 Sep 07 j 19:28	4° Θ 22'46	2°39'09
				minimum elong	-10213 Sep 07 j 19:28	4° Θ 22'46	2°39'45
conjunction	-10219 Aug 25 j 14:02	21° Π 18'03	2°37'36	max. Earth dist.	-10213 Sep 08 j 02:13	4° Θ 23'25	31.25284 AU
minimum elong	-10219 Aug 25 j 14:02	21° Π 18'03	2°38'11	morning rise	-10213 Sep 22 j 19:26	4° Θ 56'38	
max. Earth dist.	-10219 Aug 25 j 13:26	21° Π 17'59	31.27670 AU	retrograde	-10213 Dec 21 j 03:39	6° Θ 52'50	
morning rise	-10219 Sep 09 j 13:19	21° Π 51'49		opposition	-10212 Mar 10 j 20:01	5° Θ 29'32	2°49'48
retrograde	-10219 Dec 07 j 06:57	23° Π 47'10		min. Earth dist.	-10212 Mar 10 j 12:15	5° Θ 30'03	29.25315 AU
opposition	-10218 Feb 25 j 13:45	22° Π 24'09	2°48'53	direct	-10212 May 29 j 18:58	4° Θ 06'34	
min. Earth dist.	-10218 Feb 25 j 13:07	22° Π 24'11	29.27608 AU	evening set	-10212 Aug 25 j 05:38	6° Θ 00'17	
direct	-10218 May 16 j 21:42	21° Π 00'49					
evening set	-10218 Aug 12 j 23:54	22° Π 54'58		conjunction	-10212 Sep 09 j 04:39	6° Θ 34'03	2°38'36
				minimum elong	-10212 Sep 09 j 04:40	6° Θ 34'03	2°39'11
conjunction	-10218 Aug 27 j 22:53	23° Π 28'41	2°38'26	max. Earth dist.	-10212 Sep 09 j 11:37	6° Θ 34'42	31.24857 AU
minimum elong	-10218 Aug 27 j 22:52	23° Π 28'41	2°39'00	morning rise	-10212 Sep 24 j 04:59	7° Θ 07'56	
max. Earth dist.	-10218 Aug 28 j 00:32	23° Π 28'50	31.27100 AU	retrograde	-10212 Dec 22 j 16:09	9° Θ 04'17	
morning rise	-10218 Sep 11 j 22:00	24° Π 02'27		opposition	-10211 Mar 13 j 09:11	7° Θ 40'56	2°49'05
retrograde	-10218 Dec 09 j 18:03	25° Π 57'55		min. Earth dist.	-10211 Mar 13 j 01:38	7° Θ 41'27	29.24840 AU
opposition	-10217 Feb 28 j 02:44	24° Π 34'49	2°49'39	direct	-10211 Jun 01 j 04:17	6° Θ 18'01	
min. Earth dist.	-10217 Feb 28 j 00:49	24° Π 34'57	29.27078 AU	evening set	-10211 Aug 27 j 14:43	8° Θ 11'40	
direct	-10217 May 19 j 11:03	23° Π 11'31					
evening set	-10217 Aug 15 j 08:54	25° Π 05'35		conjunction	-10211 Sep 11 j 14:03	8° Θ 45'27	2°37'49
				minimum elong	-10211 Sep 11 j 14:03	8° Θ 45'27	2°38'25
conjunction	-10217 Aug 30 j 07:39	25° Π 39'18	2°39'02	max. Earth dist.	-10211 Sep 11 j 22:26	8° Θ 46'15	31.24317 AU
minimum elong	-10217 Aug 30 j 07:39	25° Π 39'18	2°39'37	morning rise	-10211 Sep 26 j 14:33	9° Θ 19'23	
max. Earth dist.	-10217 Aug 30 j 09:29	25° Π 39'28	31.26625 AU	retrograde	-10211 Dec 25 j 03:59	11° Θ 15'52	
morning rise	-10217 Sep 14 j 07:01	26° Π 13'04		opposition	-10210 Mar 15 j 22:21	9° Θ 52'28	2°48'08
retrograde	-10217 Dec 12 j 07:07	28° Π 08'40		min. Earth dist.	-10210 Mar 15 j 13:26	9° Θ 53'04	29.24217 AU
opposition	-10216 Mar 01 j 15:45	26° Π 45'30	2°50'10	direct	-10210 Jun 03 j 15:37	8° Θ 29'35	
min. Earth dist.	-10216 Mar 01 j 12:07	26° Π 45'45	29.26659 AU	evening set	-10210 Aug 29 j 23:55	10° Θ 23'09	
direct	-10216 May 20 j 21:42	25° Π 22'15					
evening set	-10216 Aug 16 j 17:38	27° Π 16'14		conjunction	-10210 Sep 13 j 23:16	10° Θ 56'57	2°36'49
				minimum elong	-10210 Sep 13 j 23:16	10° Θ 56'57	2°37'23
conjunction	-10216 Aug 31 j 16:32	27° Π 49'57	2°39'25	max. Earth dist.	-10210 Sep 14 j 07:20	10° Θ 57'43	31.23623 AU
minimum elong	-10216 Aug 31 j 16:31	27° Π 49'57	2°39'59	morning rise	-10210 Sep 29 j 00:14	11° Θ 30'55	
max. Earth dist.	-10216 Aug 31 j 20:26	27° Π 50'20	31.26241 AU	retrograde	-10210 Dec 27 j 17:23	13° Θ 27'31	
morning rise	-10216 Sep 15 j 15:54	28° Π 23'45		opposition	-10209 Mar 18 j 11:38	12° Θ 04'02	2°46'57
	-10216 Nov 09 j 03:30	0° Θ		min. Earth dist.	-10209 Mar 18 j 02:27	12° Θ 04'40	29.23455 AU
retrograde	-10216 Dec 13 j 16:51	0° Θ 19'30		direct	-10209 Jun 06 j 02:03	10° Θ 41'11	
	-10215 Jan 18 j 07:19	30° κ Π		evening set	-10209 Sep 01 j 08:59	12° Θ 34'40	
opposition	-10215 Mar 04 j 04:51	28° Π 56'17	2°50'27				
min. Earth dist.	-10215 Mar 04 j 00:43	28° Π 56'34	29.26308 AU	conjunction	-10209 Sep 16 j 08:44	13° Θ 08'30	2°35'35
direct	-10215 May 23 j 09:47	27° Π 33'06		minimum elong	-10209 Sep 16 j 08:45	13° Θ 08'30	2°36'11
evening set	-10215 Aug 19 j 02:38	29° Π 27'01		max. Earth dist.	-10209 Sep 16 j 18:34	13° Θ 09'25	31.22795 AU
	-10215 Sep 02 j 17:42	0° Θ		morning rise	-10209 Oct 01 j 09:56	13° Θ 42'29	
				retrograde	-10209 Dec 30 j 05:35	15° Θ 39'12	
conjunction	-10215 Sep 03 j 01:27	0° Θ 00'44	2°39'33	opposition	-10208 Mar 20 j 00:50	14° Θ 15'37	2°45'31
minimum elong	-10215 Sep 03 j 01:27	0° Θ 00'44	2°40'09	min. Earth dist.	-10208 Mar 19 j 14:54	14° Θ 16'18	29.22560 AU
max. Earth dist.	-10215 Sep 03 j 05:51	0° Θ 01'09	31.25925 AU	direct	-10208 Jun 07 j 14:57	12° Θ 52'47	
morning rise	-10215 Sep 18 j 01:04	0° Θ 34'33		evening set	-10208 Sep 02 j 18:06	14° Θ 46'10	
retrograde	-10215 Dec 16 j 04:42	2° Θ 30'26					
opposition	-10214 Mar 06 j 17:40	1° Θ 07'12	2°50'29	conjunction	-10208 Sep 17 j 18:01	15° Θ 20'00	2°34'08

Attention, astronomical year style is used: The year -10208 in astronomical counting style is the year 10209 BCE in historical counting style.

minimum elong	-10208 Sep 17 j 18:01	15°☾20'00	2°34'42	min. Earth dist.	-10201 Apr 05 j 02:39	29°☾37'55	29.16742 AU
max. Earth dist.	-10208 Sep 18 j 03:37	15°☾20'55	31.21868 AU	direct	-10201 Jun 23 j 19:41	28°☾14'04	
morning rise	-10208 Oct 02 j 19:47	15°☾54'02			-10201 Sep 15 j 06:22	0°♈	
retrograde	-10208 Dec 31 j 19:11	17°☾50'50		evening set	-10201 Sep 18 j 09:48	0°♈06'55	
opposition	-10207 Mar 22 j 13:56	16°☾27'10	2°43'51				
min. Earth dist.	-10207 Mar 22 j 02:51	16°☾27'55	29.21599 AU	conjunction	-10201 Oct 03 j 12:24	0°♈40'59	2°17'52
direct	-10207 Jun 10 j 01:37	15°☾04'19		minimum elong	-10201 Oct 03 j 12:25	0°♈40'59	2°18'25
evening set	-10207 Sep 05 j 03:08	16°☾57'36		max. Earth dist.	-10201 Oct 04 j 04:53	0°♈42'33	31.16234 AU
				morning rise	-10201 Oct 18 j 17:50	1°♈15'20	
conjunction	-10207 Sep 20 j 03:26	17°☾31'28	2°32'28	retrograde	-10200 Jan 17 j 06:32	3°♈12'55	
minimum elong	-10207 Sep 20 j 03:27	17°☾31'28	2°33'02	opposition	-10200 Apr 07 j 08:45	1°♈48'48	2°25'39
max. Earth dist.	-10207 Sep 20 j 14:41	17°☾32'32	31.20882 AU	min. Earth dist.	-10200 Apr 06 j 15:28	1°♈49'58	29.16091 AU
morning rise	-10207 Oct 05 j 05:31	18°☾05'32		direct	-10200 Jun 25 j 05:24	0°♈26'09	
retrograde	-10206 Jan 03 j 05:29	20°☾02'26		evening set	-10200 Sep 19 j 19:06	2°♈18'56	
opposition	-10206 Mar 25 j 02:54	18°☾38'39	2°41'56				
min. Earth dist.	-10206 Mar 24 j 15:33	18°☾39'25	29.20611 AU	conjunction	-10200 Oct 04 j 22:23	2°♈53'04	2°14'41
direct	-10206 Jun 12 j 13:58	17°☾15'48		minimum elong	-10200 Oct 04 j 22:24	2°♈53'04	2°15'12
evening set	-10206 Sep 07 j 12:13	19°☾09'00		max. Earth dist.	-10200 Oct 05 j 16:35	2°♈54'47	31.15557 AU
				morning rise	-10200 Oct 20 j 04:17	3°♈27'27	
conjunction	-10206 Sep 22 j 12:47	19°☾42'53	2°30'34	retrograde	-10199 Jan 18 j 19:18	5°♈25'09	
minimum elong	-10206 Sep 22 j 12:47	19°☾42'53	2°31'07	opposition	-10199 Apr 09 j 21:42	4°♈01'00	2°22'09
max. Earth dist.	-10206 Sep 23 j 00:38	19°☾44'01	31.19926 AU	min. Earth dist.	-10199 Apr 09 j 03:50	4°♈02'13	29.15365 AU
morning rise	-10206 Oct 07 j 15:22	20°☾16'59		direct	-10199 Jun 27 j 17:00	2°♈38'23	
retrograde	-10205 Jan 05 j 18:05	22°☾13'59		evening set	-10199 Sep 22 j 04:42	4°♈31'07	
opposition	-10205 Mar 27 j 15:53	20°☾50'07	2°39'48				
min. Earth dist.	-10205 Mar 27 j 02:34	20°☾51'01	29.19681 AU	conjunction	-10199 Oct 07 j 08:22	5°♈05'17	2°11'19
direct	-10205 Jun 15 j 01:55	19°☾27'16		minimum elong	-10199 Oct 07 j 08:22	5°♈05'17	2°11'50
evening set	-10205 Sep 09 j 21:11	21°☾20'22		max. Earth dist.	-10199 Oct 08 j 02:04	5°♈06'58	31.14796 AU
				morning rise	-10199 Oct 22 j 15:00	5°♈39'43	
conjunction	-10205 Sep 24 j 22:06	21°☾54'18	2°28'28	retrograde	-10198 Jan 21 j 09:16	7°♈37'31	
minimum elong	-10205 Sep 24 j 22:06	21°☾54'18	2°29'01	opposition	-10198 Apr 12 j 10:33	6°♈13'18	2°18'26
max. Earth dist.	-10205 Sep 25 j 11:12	21°☾55'33	31.19031 AU	min. Earth dist.	-10198 Apr 11 j 15:56	6°♈14'34	29.14546 AU
morning rise	-10205 Oct 10 j 01:11	22°☾28'26		direct	-10198 Jun 30 j 02:51	4°♈50'42	
retrograde	-10204 Jan 08 j 05:35	24°☾25'33		evening set	-10198 Sep 24 j 14:17	6°♈43'23	
opposition	-10204 Mar 29 j 05:01	23°☾01'36	2°37'26				
min. Earth dist.	-10204 Mar 28 j 15:39	23°☾02'31	29.18833 AU	conjunction	-10198 Oct 09 j 18:35	7°♈17'35	2°07'45
direct	-10204 Jun 16 j 12:46	21°☾38'47		minimum elong	-10198 Oct 09 j 18:36	7°♈17'35	2°08'14
evening set	-10204 Sep 11 j 06:15	23°☾31'48		max. Earth dist.	-10198 Oct 10 j 13:23	7°♈19'22	31.13915 AU
				morning rise	-10198 Oct 25 j 01:47	7°♈52'05	
conjunction	-10204 Sep 26 j 07:39	24°☾05'46	2°26'08	retrograde	-10197 Jan 23 j 21:23	9°♈49'58	
minimum elong	-10204 Sep 26 j 07:40	24°☾05'46	2°26'41	opposition	-10197 Apr 14 j 23:34	8°♈25'40	2°14'32
max. Earth dist.	-10204 Sep 26 j 22:05	24°☾07'08	31.18242 AU	min. Earth dist.	-10197 Apr 14 j 05:07	8°♈26'56	29.13593 AU
morning rise	-10204 Oct 11 j 11:13	24°☾39'57		direct	-10197 Jul 02 j 15:10	7°♈03'04	
retrograde	-10203 Jan 09 j 16:42	26°☾37'10		evening set	-10197 Sep 26 j 23:51	8°♈55'39	
opposition	-10203 Mar 31 j 17:46	25°☾13'11	2°34'50				
min. Earth dist.	-10203 Mar 31 j 02:19	25°☾14'13	29.18078 AU	conjunction	-10197 Oct 12 j 04:44	9°♈29'55	2°04'00
direct	-10203 Jun 19 j 00:00	23°☾50'23		minimum elong	-10197 Oct 12 j 04:44	9°♈29'55	2°04'30
evening set	-10203 Sep 13 j 15:26	25°☾43'21		max. Earth dist.	-10197 Oct 12 j 23:38	9°♈31'42	31.12920 AU
				morning rise	-10197 Oct 27 j 12:41	10°♈04'28	
conjunction	-10203 Sep 28 j 17:09	26°☾17'21	2°23'35	retrograde	-10196 Jan 26 j 11:36	12°♈02'24	
minimum elong	-10203 Sep 28 j 17:09	26°☾17'21	2°24'09	opposition	-10196 Apr 16 j 12:27	10°♈38'01	2°10'25
max. Earth dist.	-10203 Sep 29 j 07:54	26°☾18'45	31.17528 AU	min. Earth dist.	-10196 Apr 15 j 16:45	10°♈39'22	29.12527 AU
morning rise	-10203 Oct 13 j 21:23	26°☾51'35		direct	-10196 Jul 04 j 03:28	9°♈15'23	
retrograde	-10202 Jan 12 j 04:45	28°☾48'55		evening set	-10196 Sep 28 j 09:35	11°♈07'54	
opposition	-10202 Apr 03 j 06:48	27°☾24'53	2°32'00				
min. Earth dist.	-10202 Apr 02 j 15:19	27°☾25'56	29.17397 AU	conjunction	-10196 Oct 13 j 15:03	11°♈42'12	2°00'04
direct	-10202 Jun 21 j 08:56	26°☾02'09		minimum elong	-10196 Oct 13 j 15:04	11°♈42'12	2°00'32
evening set	-10202 Sep 16 j 00:25	27°☾55'02		max. Earth dist.	-10196 Oct 14 j 10:25	11°♈44'02	31.11803 AU
				morning rise	-10196 Oct 28 j 23:46	12°♈16'49	
conjunction	-10202 Oct 01 j 02:43	28°☾29'05	2°20'50	retrograde	-10195 Jan 27 j 23:19	14°♈14'47	
minimum elong	-10202 Oct 01 j 02:44	28°☾29'05	2°21'22	min. Earth dist.	-10195 Apr 18 j 06:10	12°♈51'36	29.11368 AU
max. Earth dist.	-10202 Oct 01 j 19:21	28°☾30'39	31.16876 AU	opposition	-10195 Apr 19 j 01:13	12°♈50'18	2°06'08
morning rise	-10202 Oct 16 j 07:22	29°☾03'22		direct	-10195 Jul 06 j 14:37	11°♈27'39	
	-10202 Nov 13 j 00:17	0°♈		evening set	-10195 Sep 30 j 19:12	13°♈20'03	
retrograde	-10201 Jan 14 j 16:39	1°♈00'50					
	-10201 Mar 22 j 08:24	30°♈		conjunction	-10195 Oct 16 j 01:23	13°♈54'24	1°55'58
opposition	-10201 Apr 05 j 19:44	29°☾36'45	2°28'56	minimum elong	-10195 Oct 16 j 01:24	13°♈54'24	1°56'26

Attention, astronomical year style is used: The year -10195 in astronomical counting style is the year 10196 BCE in historical counting style.

max. Earth dist.	-10195 Oct 16 j 21:42	13° Ω 56'20	31.10637 AU	min. Earth dist.	-10188 May 03 j 17:19	28° Ω 17'50	29.04862 AU
morning rise	-10195 Oct 31 j 10:44	14° Ω 29'04		direct	-10188 Jul 21 j 16:25	26° Ω 53'33	
	-10195 Nov 14 j 22:02	15° Ω		evening set	-10188 Oct 15 j 16:20	28° Ω 45'40	
retrograde	-10194 Jan 30 j 10:50	16° Ω 27'05					
opposition	-10194 Apr 21 j 13:51	15° Ω 02'30	2°01'39	conjunction	-10188 Oct 31 j 03:09	29° Ω 20'23	1°22'48
min. Earth dist.	-10194 Apr 20 j 17:11	15° Ω 03'54	29.10182 AU	minimum elong	-10188 Oct 31 j 03:10	29° Ω 20'24	1°23'08
	-10194 Apr 23 j 02:22	15° $\mathbb{R}\Omega$		max. Earth dist.	-10188 Nov 01 j 04:04	29° Ω 22'45	31.04448 AU
direct	-10194 Jul 09 j 02:36	13° Ω 39'47		morning rise	-10188 Nov 15 j 17:49	29° Ω 55'29	
	-10194 Sep 18 j 02:44	15° Ω			-10188 Nov 17 j 19:14	0° \mathbb{N}	
evening set	-10194 Oct 03 j 04:49	15° Ω 32'07		retrograde	-10187 Feb 15 j 06:17	1° \mathbb{N} 53'59	
				min. Earth dist.	-10187 May 06 j 04:32	0° \mathbb{N} 30'48	29.04205 AU
conjunction	-10194 Oct 18 j 11:28	16° Ω 06'31	1°51'42	opposition	-10187 May 07 j 05:22	0° \mathbb{N} 29'05	1°25'38
minimum elong	-10194 Oct 18 j 11:29	16° Ω 06'31	1°52'08		-10187 May 25 j 05:20	30° $\mathbb{R}\Omega$	
max. Earth dist.	-10194 Oct 19 j 07:50	16° Ω 08'26	31.09465 AU	direct	-10187 Jul 24 j 04:06	29° Ω 06'28	
morning rise	-10194 Nov 02 j 21:41	16° Ω 41'14			-10187 Sep 19 j 01:41	0° \mathbb{N}	
retrograde	-10193 Feb 01 j 22:43	18° Ω 39'18		evening set	-10187 Oct 18 j 02:48	0° \mathbb{N} 58'36	
min. Earth dist.	-10193 Apr 23 j 06:08	17° Ω 16'01	29.09039 AU				
opposition	-10193 Apr 24 j 02:38	17° Ω 14'36	1°57'00	conjunction	-10187 Nov 02 j 14:15	1° \mathbb{N} 33'23	1°17'30
direct	-10193 Jul 11 j 12:22	15° Ω 51'53		minimum elong	-10187 Nov 02 j 14:16	1° \mathbb{N} 33'23	1°17'50
evening set	-10193 Oct 05 j 14:28	17° Ω 44'07		max. Earth dist.	-10187 Nov 03 j 15:23	1° \mathbb{N} 35'45	31.03771 AU
				morning rise	-10187 Nov 18 j 05:42	2° \mathbb{N} 08'32	
conjunction	-10193 Oct 20 j 21:57	18° Ω 18'34	1°47'16	retrograde	-10186 Feb 17 j 18:54	4° \mathbb{N} 07'07	
minimum elong	-10193 Oct 20 j 21:58	18° Ω 18'34	1°47'42	opposition	-10186 May 09 j 17:53	2° \mathbb{N} 42'12	1°19'53
max. Earth dist.	-10193 Oct 21 j 20:05	18° Ω 20'40	31.08372 AU	min. Earth dist.	-10186 May 08 j 17:59	2° \mathbb{N} 43'51	29.03497 AU
morning rise	-10193 Nov 05 j 08:44	18° Ω 53'21		direct	-10186 Jul 26 j 14:45	1° \mathbb{N} 19'36	
retrograde	-10192 Feb 04 j 10:21	20° Ω 51'28		evening set	-10186 Oct 20 j 13:11	3° \mathbb{N} 11'43	
opposition	-10192 Apr 25 j 15:06	19° Ω 26'42	1°52'11				
min. Earth dist.	-10192 Apr 24 j 17:06	19° Ω 28'12	29.07988 AU	conjunction	-10186 Nov 05 j 01:27	3° \mathbb{N} 46'33	1°12'04
direct	-10192 Jul 12 j 23:32	18° Ω 03'57		minimum elong	-10186 Nov 05 j 01:28	3° \mathbb{N} 46'33	1°12'22
evening set	-10192 Oct 07 j 00:20	19° Ω 56'08		max. Earth dist.	-10186 Nov 06 j 03:11	3° \mathbb{N} 48'59	31.03035 AU
				morning rise	-10186 Nov 20 j 17:33	4° \mathbb{N} 21'46	
conjunction	-10192 Oct 22 j 08:19	20° Ω 30'38	1°42'40	retrograde	-10185 Feb 20 j 07:58	6° \mathbb{N} 20'25	
minimum elong	-10192 Oct 22 j 08:20	20° Ω 30'38	1°43'05	min. Earth dist.	-10185 May 11 j 05:19	4° \mathbb{N} 57'12	29.02701 AU
max. Earth dist.	-10192 Oct 23 j 06:14	20° Ω 32'42	31.07387 AU	opposition	-10185 May 12 j 06:19	4° \mathbb{N} 55'29	1°14'02
morning rise	-10192 Nov 06 j 20:02	21° Ω 05'28		direct	-10185 Jul 29 j 02:51	3° \mathbb{N} 32'53	
retrograde	-10191 Feb 05 j 23:33	23° Ω 03'40		evening set	-10185 Oct 23 j 00:00	5° \mathbb{N} 24'59	
min. Earth dist.	-10191 Apr 27 j 05:24	21° Ω 40'21	29.07062 AU				
opposition	-10191 Apr 28 j 03:41	21° Ω 38'50	1°47'11	conjunction	-10185 Nov 07 j 12:50	5° \mathbb{N} 59'52	1°06'32
direct	-10191 Jul 15 j 08:53	20° Ω 16'05		minimum elong	-10185 Nov 07 j 12:50	5° \mathbb{N} 59'52	1°06'50
evening set	-10191 Oct 09 j 10:05	22° Ω 08'15		max. Earth dist.	-10185 Nov 08 j 13:47	6° \mathbb{N} 02'14	31.02187 AU
				morning rise	-10185 Nov 23 j 05:50	6° \mathbb{N} 35'09	
conjunction	-10191 Oct 24 j 18:53	22° Ω 42'48	1°37'55	retrograde	-10184 Feb 22 j 21:17	8° \mathbb{N} 33'51	
minimum elong	-10191 Oct 24 j 18:54	22° Ω 42'48	1°38'20	opposition	-10184 May 13 j 18:44	7° \mathbb{N} 08'51	1°08'03
max. Earth dist.	-10191 Oct 25 j 18:38	22° Ω 45'02	31.06519 AU	min. Earth dist.	-10184 May 12 j 18:42	7° \mathbb{N} 10'30	29.01797 AU
morning rise	-10191 Nov 09 j 07:10	23° Ω 17'41		direct	-10184 Jul 30 j 13:01	5° \mathbb{N} 46'14	
retrograde	-10190 Feb 08 j 11:40	25° Ω 15'57		evening set	-10184 Oct 24 j 10:44	7° \mathbb{N} 38'18	
opposition	-10190 Apr 30 j 16:06	23° Ω 51'05	1°42'01				
min. Earth dist.	-10190 Apr 29 j 17:03	23° Ω 52'40	29.06240 AU	conjunction	-10184 Nov 09 j 00:27	8° \mathbb{N} 13'15	1°00'54
direct	-10190 Jul 17 j 19:42	22° Ω 28'22		minimum elong	-10184 Nov 09 j 00:28	8° \mathbb{N} 13'15	1°01'10
evening set	-10190 Oct 11 j 20:04	24° Ω 20'30		max. Earth dist.	-10184 Nov 10 j 02:22	8° \mathbb{N} 15'42	31.01237 AU
				morning rise	-10184 Nov 24 j 18:04	8° \mathbb{N} 48'35	
conjunction	-10190 Oct 27 j 05:25	24° Ω 55'07	1°33'01	retrograde	-10183 Feb 24 j 09:07	10° \mathbb{N} 47'17	
minimum elong	-10190 Oct 27 j 05:26	24° Ω 55'07	1°33'24	min. Earth dist.	-10183 May 15 j 06:13	9° \mathbb{N} 23'57	29.00783 AU
max. Earth dist.	-10190 Oct 28 j 04:58	24° Ω 57'20	31.05769 AU	opposition	-10183 May 16 j 07:00	9° \mathbb{N} 22'14	1°01'59
morning rise	-10190 Nov 11 j 18:36	25° Ω 30'04		direct	-10183 Aug 02 j 00:55	7° \mathbb{N} 59'34	
retrograde	-10189 Feb 11 j 01:59	27° Ω 28'25		evening set	-10183 Oct 26 j 21:36	9° \mathbb{N} 51'36	
min. Earth dist.	-10189 May 02 j 04:38	26° Ω 05'11	29.05529 AU				
opposition	-10189 May 03 j 04:36	26° Ω 03'32	1°36'42	conjunction	-10183 Nov 11 j 11:50	10° \mathbb{N} 26'36	0°55'10
direct	-10189 Jul 20 j 04:47	24° Ω 40'50		minimum elong	-10183 Nov 11 j 11:51	10° \mathbb{N} 26'36	0°55'26
evening set	-10189 Oct 14 j 06:02	26° Ω 32'58		max. Earth dist.	-10183 Nov 12 j 12:50	10° \mathbb{N} 28'57	31.00196 AU
				morning rise	-10183 Nov 27 j 06:21	11° \mathbb{N} 01'59	
conjunction	-10189 Oct 29 j 16:10	27° Ω 07'38	1°27'59	retrograde	-10182 Feb 26 j 21:18	13° \mathbb{N} 00'42	
minimum elong	-10189 Oct 29 j 16:11	27° Ω 07'38	1°28'22	opposition	-10182 May 18 j 19:14	11° \mathbb{N} 35'34	0°55'49
max. Earth dist.	-10189 Oct 30 j 16:58	27° Ω 09'58	31.05090 AU	min. Earth dist.	-10182 May 17 j 18:53	11° \mathbb{N} 37'15	28.99721 AU
morning rise	-10189 Nov 14 j 06:03	27° Ω 42'39		direct	-10182 Aug 04 j 10:40	10° \mathbb{N} 12'51	
retrograde	-10188 Feb 13 j 14:56	29° Ω 41'06		evening set	-10182 Oct 29 j 08:24	12° \mathbb{N} 04'50	
opposition	-10188 May 04 j 17:07	28° Ω 16'12	1°31'14				

Attention, astronomical year style is used: The year -10182 in astronomical counting style is the year 10183 BCE in historical counting style.

conjunction	-10182 Nov 13 j 23:28	12° \mathring{M} 39'53	0°49'22	min. Earth dist.	-10175 Jun 02 j 05:42	27° \mathring{M} 10'29	28.94391 AU
minimum elong	-10182 Nov 13 j 23:29	12° \mathring{M} 39'53	0°49'35	opposition	-10175 Jun 03 j 06:46	27° \mathring{M} 08'45	0°10'47
max. Earth dist.	-10182 Nov 15 j 01:47	12° \mathring{M} 42'21	30.99132 AU	direct	-10175 Aug 19 j 14:49	25° \mathring{M} 45'52	
morning rise	-10182 Nov 29 j 18:33	13° \mathring{M} 15'19		evening set	-10175 Nov 13 j 15:34	27° \mathring{M} 37'57	
retrograde	-10181 Mar 01 j 08:27	15° \mathring{M} 14'02					
min. Earth dist.	-10181 May 20 j 06:41	13° \mathring{M} 50'31	28.98663 AU	conjunction	-10175 Nov 29 j 11:15	28° \mathring{M} 13'20	0°07'08
opposition	-10181 May 21 j 07:18	13° \mathring{M} 48'49	0°49'34	minimum elong	-10175 Nov 29 j 11:15	28° \mathring{M} 13'20	0°07'13
direct	-10181 Aug 06 j 21:29	12° \mathring{M} 26'02		behind sun begin	-10175 Nov 29 j 05:16	28° \mathring{M} 12'48	
evening set	-10181 Oct 31 j 19:23	14° \mathring{M} 18'00		behind sun end	-10175 Nov 29 j 17:15	28° \mathring{M} 13'52	
				max. Earth dist.	-10175 Nov 30 j 15:00	28° \mathring{M} 15'56	30.94108 AU
conjunction	-10181 Nov 16 j 11:03	14° \mathring{M} 53'05	0°43'29	morning rise	-10175 Dec 15 j 10:58	28° \mathring{M} 49'06	
minimum elong	-10181 Nov 16 j 11:04	14° \mathring{M} 53'05	0°43'42		-10174 Jan 20 j 15:23	0° \mathring{A}	
max. Earth dist.	-10181 Nov 17 j 12:45	14° \mathring{M} 55'30	30.98115 AU	retrograde	-10174 Mar 17 j 06:40	0° \mathring{A} 47'58	
morning rise	-10181 Dec 02 j 07:00	15° \mathring{M} 28'34			-10174 May 13 j 15:00	30° \mathring{R} \mathring{M}	
retrograde	-10180 Mar 02 j 22:28	17° \mathring{M} 27'18		opposition	-10174 Jun 05 j 18:32	29° \mathring{M} 22'36	0°04'11
opposition	-10180 May 22 j 19:21	16° \mathring{M} 02'00	0°43'15	min. Earth dist.	-10174 Jun 04 j 16:57	29° \mathring{M} 24'23	28.93885 AU
min. Earth dist.	-10180 May 21 j 18:15	16° \mathring{M} 03'44	28.97684 AU	direct	-10174 Aug 22 j 02:44	27° \mathring{M} 59'43	
direct	-10180 Aug 08 j 06:59	14° \mathring{M} 39'10		evening set	-10174 Nov 16 j 03:39	29° \mathring{M} 51'53	
evening set	-10180 Nov 02 j 06:29	16° \mathring{M} 31'07			-10174 Nov 19 j 19:55	0° \mathring{A}	
conjunction	-10180 Nov 17 j 22:53	17° \mathring{M} 06'15	0°37'33	conjunction	-10174 Dec 01 j 23:46	0° \mathring{A} 27'18	0°00'56
minimum elong	-10180 Nov 17 j 22:53	17° \mathring{M} 06'15	0°37'44	minimum elong	-10174 Dec 01 j 23:47	0° \mathring{A} 27'18	0°00'59
max. Earth dist.	-10180 Nov 19 j 01:29	17° \mathring{M} 08'45	30.97176 AU	behind sun begin	-10174 Dec 01 j 17:16	0° \mathring{A} 26'43	
morning rise	-10180 Dec 03 j 19:25	17° \mathring{M} 41'47		behind sun end	-10174 Dec 02 j 06:18	0° \mathring{A} 27'53	
retrograde	-10179 Mar 05 j 10:25	19° \mathring{M} 40'30		max. Earth dist.	-10174 Dec 03 j 02:10	0° \mathring{A} 29'46	30.93584 AU
min. Earth dist.	-10179 May 24 j 06:24	18° \mathring{M} 16'53	28.96800 AU	morning rise	-10174 Dec 18 j 00:15	1° \mathring{A} 03'07	
opposition	-10179 May 25 j 07:13	18° \mathring{M} 15'10	0°36'52	desc. node	-10173 Jan 25 j 02:26	2° \mathring{A} 17'05	
direct	-10179 Aug 10 j 18:31	16° \mathring{M} 52'17		retrograde	-10173 Mar 19 j 19:54	3° \mathring{A} 02'00	
evening set	-10179 Nov 04 j 17:38	18° \mathring{M} 44'15		min. Earth dist.	-10173 Jun 07 j 05:44	1° \mathring{A} 38'23	28.93333 AU
				opposition	-10173 Jun 08 j 06:24	1° \mathring{A} 36'39	-0°02'26
conjunction	-10179 Nov 20 j 10:43	19° \mathring{M} 19'25	0°31'33	direct	-10173 Aug 24 j 12:20	0° \mathring{A} 13'46	
minimum elong	-10179 Nov 20 j 10:43	19° \mathring{M} 19'25	0°31'44	evening set	-10173 Nov 18 j 15:47	2° \mathring{A} 05'59	
max. Earth dist.	-10179 Nov 21 j 13:22	19° \mathring{M} 21'56	30.96370 AU				
morning rise	-10179 Dec 06 j 07:57	19° \mathring{M} 55'00		conjunction	-10173 Dec 04 j 12:40	2° \mathring{A} 41'27	-0°05'22
retrograde	-10178 Mar 08 j 01:09	21° \mathring{M} 53'44		minimum elong	-10173 Dec 04 j 12:40	2° \mathring{A} 41'27	0°05'19
opposition	-10178 May 27 j 19:06	20° \mathring{M} 28'21	0°30'25	behind sun begin	-10173 Dec 04 j 06:21	2° \mathring{A} 40'53	
min. Earth dist.	-10178 May 26 j 17:11	20° \mathring{M} 30'09	28.96053 AU	behind sun end	-10173 Dec 04 j 18:58	2° \mathring{A} 42'01	
direct	-10178 Aug 13 j 05:54	19° \mathring{M} 05'27		max. Earth dist.	-10173 Dec 05 j 15:41	2° \mathring{A} 43'59	30.92978 AU
evening set	-10178 Nov 07 j 04:48	20° \mathring{M} 57'26		morning rise	-10173 Dec 20 j 13:33	3° \mathring{A} 17'19	
				retrograde	-10172 Mar 21 j 07:50	5° \mathring{A} 16'13	
conjunction	-10178 Nov 22 j 22:29	21° \mathring{M} 32'40	0°25'30	opposition	-10172 Jun 09 j 18:13	3° \mathring{A} 50'52	-0°09'03
minimum elong	-10178 Nov 22 j 22:29	21° \mathring{M} 32'40	0°25'38	min. Earth dist.	-10172 Jun 08 j 17:58	3° \mathring{A} 52'33	28.92665 AU
max. Earth dist.	-10178 Nov 24 j 01:27	21° \mathring{M} 35'12	30.95679 AU	direct	-10172 Aug 25 j 23:19	2° \mathring{A} 27'57	
morning rise	-10178 Dec 08 j 20:27	22° \mathring{M} 08'17		evening set	-10172 Nov 20 j 04:12	4° \mathring{A} 20'13	
retrograde	-10177 Mar 10 j 13:43	24° \mathring{M} 07'03					
min. Earth dist.	-10177 May 29 j 06:02	22° \mathring{M} 43'24	28.95421 AU	conjunction	-10172 Dec 06 j 01:33	4° \mathring{A} 55'43	-0°11'31
opposition	-10177 May 30 j 07:08	22° \mathring{M} 41'39	0°23'55	minimum elong	-10172 Dec 06 j 01:32	4° \mathring{A} 55'43	0°11'30
direct	-10177 Aug 15 j 16:17	21° \mathring{M} 18'45		behind sun begin	-10172 Dec 05 j 20:52	4° \mathring{A} 55'18	
evening set	-10177 Nov 09 j 16:12	23° \mathring{M} 10'45		behind sun end	-10172 Dec 06 j 06:13	4° \mathring{A} 56'08	
				max. Earth dist.	-10172 Dec 07 j 03:02	4° \mathring{A} 58'06	30.92260 AU
conjunction	-10177 Nov 25 j 10:39	23° \mathring{M} 46'02	0°19'24	morning rise	-10172 Dec 22 j 03:05	5° \mathring{A} 31'37	
minimum elong	-10177 Nov 25 j 10:39	23° \mathring{M} 46'02	0°19'33	retrograde	-10171 Mar 23 j 21:49	7° \mathring{A} 30'31	
max. Earth dist.	-10177 Nov 26 j 14:16	23° \mathring{M} 48'37	30.95108 AU	min. Earth dist.	-10171 Jun 11 j 05:57	6° \mathring{A} 06'49	28.91893 AU
morning rise	-10177 Dec 11 j 09:12	24° \mathring{M} 21'43		opposition	-10171 Jun 12 j 05:54	6° \mathring{A} 05'08	-0°15'39
retrograde	-10176 Mar 12 j 04:04	26° \mathring{M} 20'29		direct	-10171 Aug 28 j 09:06	4° \mathring{A} 42'10	
opposition	-10176 May 31 j 18:50	24° \mathring{M} 55'06	0°17'22	evening set	-10171 Nov 22 j 16:35	6° \mathring{A} 34'29	
min. Earth dist.	-10176 May 30 j 16:43	24° \mathring{M} 56'55	28.94882 AU				
direct	-10176 Aug 17 j 04:31	23° \mathring{M} 32'12		conjunction	-10171 Dec 08 j 14:32	7° \mathring{A} 10'02	-0°17'40
evening set	-10176 Nov 11 j 03:55	25° \mathring{M} 24'15		minimum elong	-10171 Dec 08 j 14:32	7° \mathring{A} 10'01	0°17'40
				max. Earth dist.	-10171 Dec 09 j 16:11	7° \mathring{A} 12'26	30.91432 AU
conjunction	-10176 Nov 26 j 22:52	25° \mathring{M} 59'35	0°13'16	morning rise	-10171 Dec 24 j 16:29	7° \mathring{A} 45'58	
minimum elong	-10176 Nov 26 j 22:52	25° \mathring{M} 59'35	0°13'22	retrograde	-10170 Mar 26 j 09:21	9° \mathring{A} 44'50	
behind sun begin	-10176 Nov 26 j 19:11	25° \mathring{M} 59'15		opposition	-10170 Jun 14 j 17:38	8° \mathring{A} 19'26	-0°22'13
behind sun end	-10176 Nov 27 j 02:33	25° \mathring{M} 59'55		min. Earth dist.	-10170 Jun 13 j 18:39	8° \mathring{A} 21'03	28.91027 AU
max. Earth dist.	-10176 Nov 28 j 01:42	26° \mathring{M} 02'06	30.94596 AU	direct	-10170 Aug 30 j 20:47	6° \mathring{A} 56'24	
morning rise	-10176 Dec 12 j 22:10	26° \mathring{M} 35'19		evening set	-10170 Nov 25 j 04:54	8° \mathring{A} 48'45	
retrograde	-10175 Mar 14 j 18:14	28° \mathring{M} 34'08					

Attention, astronomical year style is used: The year -10170 in astronomical counting style is the year 10171 BCE in historical counting style.

conjunction	-10170 Dec 11 j 03:24	9° <u>24</u> '19	-0°23'47	direct	-10163 Sep 15 j 05:05	22° <u>35</u> '47	
minimum elong	-10170 Dec 11 j 03:24	9° <u>24</u> '19	0°23'50	evening set	-10163 Dec 10 j 22:47	24° <u>28</u> '40	
max. Earth dist.	-10170 Dec 12 j 04:22	9° <u>26</u> '39	30.90555 AU				
morning rise	-10170 Dec 27 j 05:55	10° <u>00</u> '17		conjunction	-10163 Dec 27 j 00:19	25° <u>04</u> '27	-1°05'13
retrograde	-10169 Mar 28 j 23:32	11° <u>59</u> '08		minimum elong	-10163 Dec 27 j 00:18	25° <u>04</u> '27	1°05'24
min. Earth dist.	-10169 Jun 16 j 05:47	10° <u>35</u> '20	28.90139 AU	max. Earth dist.	-10163 Dec 27 j 23:06	25° <u>06</u> '35	30.86451 AU
opposition	-10169 Jun 17 j 05:11	10° <u>33</u> '41	-0°28'45	morning rise	-10162 Jan 12 j 05:28	25° <u>40</u> '35	
direct	-10169 Sep 02 j 08:31	9° <u>10</u> '33		retrograde	-10162 Apr 13 j 20:00	27° <u>39</u> '15	
evening set	-10169 Nov 27 j 17:32	11° <u>02</u> '58		opposition	-10162 Jul 02 j 12:11	26° <u>13</u> '49	-1°12'49
				min. Earth dist.	-10162 Jul 01 j 15:16	26° <u>15</u> '17	28.86399 AU
conjunction	-10169 Dec 13 j 16:29	11° <u>38</u> '34	-0°29'53	direct	-10162 Sep 17 j 15:06	24° <u>50</u> '22	
minimum elong	-10169 Dec 13 j 16:29	11° <u>38</u> '34	0°29'56	evening set	-10162 Dec 13 j 12:06	26° <u>43</u> '22	
max. Earth dist.	-10169 Dec 14 j 17:10	11° <u>40</u> '53	30.89662 AU				
morning rise	-10169 Dec 29 j 19:29	12° <u>14</u> '34		conjunction	-10162 Dec 29 j 14:04	27° <u>19</u> '10	-1°10'49
retrograde	-10168 Mar 30 j 11:44	14° <u>13</u> '23		minimum elong	-10162 Dec 29 j 14:04	27° <u>19</u> '10	1°11'03
opposition	-10168 Jun 18 j 16:38	12° <u>47</u> '53	-0°35'15	max. Earth dist.	-10162 Dec 30 j 12:58	27° <u>21</u> '19	30.86210 AU
min. Earth dist.	-10168 Jun 17 j 18:35	12° <u>49</u> '26	28.89276 AU	morning rise	-10161 Jan 14 j 19:23	27° <u>55</u> '19	
direct	-10168 Sep 03 j 19:05	11° <u>24</u> '41		retrograde	-10161 Apr 16 j 06:58	29° <u>53</u> '58	
evening set	-10168 Nov 29 j 06:07	13° <u>17</u> '08		opposition	-10161 Jul 04 j 23:27	28° <u>28</u> '34	-1°18'45
				min. Earth dist.	-10161 Jul 04 j 03:47	28° <u>29</u> '58	28.86154 AU
conjunction	-10168 Dec 15 j 05:41	13° <u>52</u> '47	-0°35'56	direct	-10161 Sep 20 j 02:12	27° <u>05</u> '06	
minimum elong	-10168 Dec 15 j 05:40	13° <u>52</u> '47	0°36'01	evening set	-10161 Dec 16 j 01:48	28° <u>58</u> '12	
max. Earth dist.	-10168 Dec 16 j 06:32	13° <u>55</u> '06	30.88838 AU				
morning rise	-10168 Dec 31 j 09:01	14° <u>28</u> '48		conjunction	-10160 Jan 01 j 04:05	29° <u>34</u> '02	-1°16'19
retrograde	-10167 Apr 02 j 02:13	16° <u>27</u> '34		minimum elong	-10160 Jan 01 j 04:04	29° <u>34</u> '02	1°16'33
min. Earth dist.	-10167 Jun 20 j 05:07	15° <u>03</u> '39	28.88499 AU	max. Earth dist.	-10160 Jan 02 j 01:38	29° <u>36</u> '03	30.85945 AU
opposition	-10167 Jun 21 j 03:57	15° <u>02</u> '03	-0°41'42		-10160 Jan 12 j 18:35	0° <u>00</u> '00	
direct	-10167 Sep 06 j 08:11	13° <u>38</u> '47		morning rise	-10160 Jan 17 j 09:41	0° <u>10</u> '11	
evening set	-10167 Dec 01 j 18:46	15° <u>31</u> '17		retrograde	-10160 Apr 17 j 21:10	2° <u>08</u> '48	
				opposition	-10160 Jul 06 j 10:30	0° <u>43</u> '26	-1°24'34
conjunction	-10167 Dec 17 j 18:36	16° <u>06</u> '58	-0°41'55	min. Earth dist.	-10160 Jul 05 j 14:54	0° <u>44</u> '49	28.85861 AU
minimum elong	-10167 Dec 17 j 18:36	16° <u>06</u> '58	0°42'01		-10160 Aug 02 j 08:01	30° <u>00</u> '00	
max. Earth dist.	-10167 Dec 18 j 18:35	16° <u>09</u> '13	30.88106 AU	direct	-10160 Sep 21 j 13:15	29° <u>19</u> '54	
morning rise	-10166 Jan 02 j 22:27	16° <u>43</u> '01			-10160 Nov 09 j 14:21	0° <u>00</u> '00	
retrograde	-10166 Apr 04 j 16:06	18° <u>41</u> '46		evening set	-10160 Dec 17 j 15:39	1° <u>13</u> '08	
opposition	-10166 Jun 23 j 15:23	17° <u>16</u> '13	-0°48'05				
min. Earth dist.	-10166 Jun 22 j 17:36	17° <u>17</u> '45	28.87843 AU	conjunction	-10159 Jan 02 j 18:11	1° <u>48</u> '59	-1°21'43
direct	-10166 Sep 08 j 19:23	15° <u>52</u> '53		minimum elong	-10159 Jan 02 j 18:11	1° <u>48</u> '58	1°21'58
evening set	-10166 Dec 04 j 07:28	17° <u>45</u> '28		max. Earth dist.	-10159 Jan 03 j 14:53	1° <u>50</u> '55	30.85594 AU
				morning rise	-10159 Jan 18 j 23:58	2° <u>25</u> '08	
conjunction	-10166 Dec 20 j 07:56	18° <u>21</u> '11	-0°47'51	retrograde	-10159 Apr 20 j 08:59	4° <u>23</u> '42	
minimum elong	-10166 Dec 20 j 07:56	18° <u>21</u> '11	0°47'59	opposition	-10159 Jul 08 j 21:49	2° <u>58</u> '21	-1°30'16
max. Earth dist.	-10166 Dec 21 j 08:42	18° <u>23</u> '30	30.87517 AU	min. Earth dist.	-10159 Jul 08 j 04:03	2° <u>59</u> '37	28.85476 AU
morning rise	-10165 Jan 05 j 12:00	18° <u>57</u> '15		direct	-10159 Sep 23 j 23:47	1° <u>34</u> '45	
retrograde	-10165 Apr 07 j 04:31	20° <u>55</u> '58		evening set	-10159 Dec 20 j 05:16	3° <u>28</u> '04	
min. Earth dist.	-10165 Jun 25 j 04:12	19° <u>32</u> '00	28.87321 AU				
opposition	-10165 Jun 26 j 02:33	19° <u>30</u> '26	-0°54'23	conjunction	-10158 Jan 05 j 08:12	4° <u>03</u> '55	-1°26'59
direct	-10165 Sep 11 j 07:44	18° <u>07</u> '04		minimum elong	-10158 Jan 05 j 08:11	4° <u>03</u> '55	1°27'14
evening set	-10165 Dec 06 j 20:29	19° <u>59</u> '44		max. Earth dist.	-10158 Jan 06 j 04:18	4° <u>05</u> '48	30.85169 AU
				morning rise	-10158 Jan 21 j 14:07	4° <u>40</u> '05	
conjunction	-10165 Dec 22 j 21:14	20° <u>35</u> '28	-0°53'43	retrograde	-10158 Apr 22 j 22:51	6° <u>38</u> '35	
minimum elong	-10165 Dec 22 j 21:13	20° <u>35</u> '28	0°53'51	opposition	-10158 Jul 11 j 08:53	5° <u>13</u> '14	-1°35'50
max. Earth dist.	-10165 Dec 23 j 20:40	20° <u>37</u> '40	30.87060 AU	min. Earth dist.	-10158 Jul 10 j 14:59	5° <u>14</u> '30	28.85014 AU
morning rise	-10164 Jan 08 j 01:50	21° <u>11</u> '34		direct	-10158 Sep 26 j 13:26	3° <u>49</u> '32	
retrograde	-10164 Apr 08 j 18:15	23° <u>10</u> '16		evening set	-10158 Dec 22 j 19:13	5° <u>42</u> '56	
opposition	-10164 Jun 27 j 13:52	21° <u>44</u> '45	-1°00'37				
min. Earth dist.	-10164 Jun 26 j 16:18	21° <u>46</u> '16	28.86933 AU	conjunction	-10157 Jan 07 j 22:19	6° <u>18</u> '49	-1°32'06
direct	-10164 Sep 12 j 17:53	20° <u>21</u> '21		minimum elong	-10157 Jan 07 j 22:18	6° <u>18</u> '49	1°32'24
evening set	-10164 Dec 08 j 09:31	22° <u>14</u> '07		max. Earth dist.	-10157 Jan 08 j 16:51	6° <u>20</u> '33	30.84670 AU
				morning rise	-10157 Jan 24 j 04:30	6° <u>54</u> '59	
conjunction	-10164 Dec 24 j 10:48	22° <u>49</u> '53	-0°59'31	retrograde	-10157 Apr 25 j 11:47	8° <u>53</u> '24	
minimum elong	-10164 Dec 24 j 10:47	22° <u>49</u> '53	0°59'41	opposition	-10157 Jul 13 j 19:55	7° <u>28</u> '01	-1°41'14
max. Earth dist.	-10164 Dec 25 j 11:02	22° <u>52</u> '09	30.86713 AU	min. Earth dist.	-10157 Jul 13 j 03:45	7° <u>29</u> '10	28.84514 AU
morning rise	-10163 Jan 09 j 15:31	23° <u>26</u> '00		direct	-10157 Sep 29 j 01:01	6° <u>04</u> '14	
retrograde	-10163 Apr 11 j 06:35	25° <u>24</u> '41		evening set	-10157 Dec 25 j 09:06	7° <u>57</u> '43	
min. Earth dist.	-10163 Jun 29 j 03:46	24° <u>00</u> '42	28.86631 AU				
opposition	-10163 Jun 30 j 00:59	23° <u>59</u> '12	-1°06'46	conjunction	-10156 Jan 10 j 12:38	8° <u>33</u> '37	-1°37'06

Attention, astronomical year style is used: The year -10156 in astronomical counting style is the year 10157 BCE in historical counting style.

minimum elong	-10156 Jan 10 j 12:37	8°M.33'36	1°37'24	opposition	-10150 Jul 28 j 23:25	23°M.10'38	-2°14'21
max. Earth dist.	-10156 Jan 11 j 07:12	8°M.35'21	30.84165 AU	min. Earth dist.	-10150 Jul 28 j 11:26	23°M.11'29	28.83517 AU
morning rise	-10156 Jan 26 j 18:49	9°M.09'46		direct	-10150 Oct 14 j 07:56	21°M.46'27	
retrograde	-10156 Apr 27 j 00:43	11°M.08'06		evening set	-10149 Jan 10 j 11:55	23°M.40'48	
opposition	-10156 Jul 15 j 06:48	9°M.42'43	-1°46'30				
min. Earth dist.	-10156 Jul 14 j 14:34	9°M.43'52	28.84019 AU	conjunction	-10149 Jan 26 j 16:36	24°M.16'44	-2°07'28
direct	-10156 Sep 30 j 14:12	8°M.18'49		minimum elong	-10149 Jan 26 j 16:35	24°M.16'44	2°07'54
evening set	-10156 Dec 26 j 23:08	10°M.12'24		max. Earth dist.	-10149 Jan 27 j 06:17	24°M.18'01	30.83509 AU
				morning rise	-10149 Feb 11 j 23:03	24°M.52'53	
conjunction	-10155 Jan 12 j 02:41	10°M.48'18	-1°41'56	retrograde	-10149 May 13 j 16:47	26°M.50'44	
minimum elong	-10155 Jan 12 j 02:40	10°M.48'18	1°42'17	opposition	-10149 Jul 31 j 09:57	25°M.25'42	-2°18'18
max. Earth dist.	-10155 Jan 12 j 19:32	10°M.49'52	30.83689 AU	min. Earth dist.	-10149 Jul 30 j 21:58	25°M.26'33	28.83806 AU
morning rise	-10155 Jan 28 j 09:06	11°M.24'28		direct	-10149 Oct 16 j 21:13	24°M.01'30	
retrograde	-10155 Apr 29 j 14:28	13°M.22'42		evening set	-10148 Jan 13 j 02:40	25°M.56'01	
opposition	-10155 Jul 17 j 17:40	11°M.57'18	-1°51'35				
min. Earth dist.	-10155 Jul 17 j 02:29	11°M.58'23	28.83603 AU	conjunction	-10148 Jan 29 j 07:19	26°M.31'58	-2°11'05
direct	-10155 Oct 03 j 01:20	10°M.33'20		minimum elong	-10148 Jan 29 j 07:18	26°M.31'58	2°11'32
evening set	-10155 Dec 29 j 13:01	12°M.27'00		max. Earth dist.	-10148 Jan 29 j 19:23	26°M.33'05	30.83784 AU
				morning rise	-10148 Feb 14 j 13:48	27°M.08'06	
conjunction	-10154 Jan 14 j 16:56	13°M.02'55	-1°46'37	retrograde	-10148 May 15 j 05:26	29°M.05'53	
minimum elong	-10154 Jan 14 j 16:55	13°M.02'55	1°46'58	opposition	-10148 Aug 01 j 20:47	27°M.40'57	-2°22'04
max. Earth dist.	-10154 Jan 15 j 10:22	13°M.04'33	30.83314 AU	min. Earth dist.	-10148 Aug 01 j 10:45	27°M.41'39	28.84082 AU
morning rise	-10154 Jan 30 j 23:15	13°M.39'04		direct	-10148 Oct 18 j 08:28	26°M.16'42	
	-10154 Mar 14 j 19:23	15°M.		evening set	-10147 Jan 14 j 17:15	28°M.11'22	
retrograde	-10154 May 02 j 02:42	15°M.37'13					
	-10154 Jun 20 j 03:39	15°R.M.		conjunction	-10147 Jan 30 j 22:06	28°M.47'19	-2°14'30
opposition	-10154 Jul 20 j 04:25	14°M.11'51	-1°56'30	minimum elong	-10147 Jan 30 j 22:05	28°M.47'19	2°14'58
min. Earth dist.	-10154 Jul 19 j 13:40	14°M.12'54	28.83297 AU	max. Earth dist.	-10147 Jan 31 j 09:43	28°M.48'24	30.84023 AU
direct	-10154 Oct 05 j 13:31	12°M.47'48		morning rise	-10147 Feb 16 j 04:21	29°M.23'26	
evening set	-10153 Jan 01 j 03:02	14°M.41'35			-10147 Mar 05 j 15:39	0°X	
	-10153 Jan 09 j 11:22	15°M.		retrograde	-10147 May 17 j 18:43	1°X.21'09	
conjunction	-10153 Jan 17 j 07:02	15°M.17'30	-1°51'08		-10147 Aug 02 j 03:07	30°R.M.	
minimum elong	-10153 Jan 17 j 07:01	15°M.17'30	1°51'30	opposition	-10147 Aug 04 j 07:29	29°M.56'17	-2°25'36
max. Earth dist.	-10153 Jan 17 j 22:51	15°M.18'59	30.83079 AU	min. Earth dist.	-10147 Aug 03 j 21:45	29°M.56'58	28.84286 AU
morning rise	-10153 Feb 02 j 13:36	15°M.53'40		direct	-10147 Oct 20 j 21:33	28°M.31'59	
retrograde	-10153 May 04 j 15:42	17°M.51'44			-10146 Jan 04 j 16:18	0°X	
opposition	-10153 Jul 22 j 15:13	16°M.26'23	-2°01'15	evening set	-10146 Jan 17 j 08:05	0°X.26'47	
min. Earth dist.	-10153 Jul 22 j 00:44	16°M.27'25	28.83148 AU				
direct	-10153 Oct 08 j 00:19	15°M.02'17		conjunction	-10146 Feb 02 j 12:51	1°X.02'44	-2°17'42
evening set	-10152 Jan 03 j 17:09	16°M.56'12		minimum elong	-10146 Feb 02 j 12:50	1°X.02'44	2°18'11
				max. Earth dist.	-10146 Feb 02 j 22:07	1°X.03'36	30.84181 AU
conjunction	-10152 Jan 19 j 21:25	17°M.32'07	-1°55'29	morning rise	-10146 Feb 18 j 19:11	1°X.38'50	
minimum elong	-10152 Jan 19 j 21:24	17°M.32'07	1°55'52	retrograde	-10146 May 20 j 08:59	3°X.36'27	
max. Earth dist.	-10152 Jan 20 j 13:28	17°M.33'37	30.82987 AU	opposition	-10146 Aug 06 j 18:14	2°X.11'37	-2°28'55
morning rise	-10152 Feb 05 j 03:52	18°M.08'17		min. Earth dist.	-10146 Aug 06 j 10:03	2°X.12'12	28.84419 AU
retrograde	-10152 May 06 j 02:26	20°M.06'17		direct	-10146 Oct 23 j 09:40	0°X.47'15	
opposition	-10152 Jul 24 j 01:55	18°M.41'00	-2°05'48	evening set	-10145 Jan 19 j 22:45	2°X.42'10	
min. Earth dist.	-10152 Jul 23 j 12:29	18°M.41'57	28.83138 AU				
direct	-10152 Oct 09 j 11:21	17°M.16'52		conjunction	-10145 Feb 05 j 03:48	3°X.18'08	-2°20'42
evening set	-10151 Jan 05 j 07:22	19°M.10'54		minimum elong	-10145 Feb 05 j 03:47	3°X.18'07	2°21'12
				max. Earth dist.	-10145 Feb 05 j 12:56	3°X.18'59	30.84267 AU
conjunction	-10151 Jan 21 j 11:44	19°M.46'50	-1°59'40	morning rise	-10145 Feb 21 j 09:53	3°X.54'12	
minimum elong	-10151 Jan 21 j 11:43	19°M.46'50	2°00'04	retrograde	-10145 May 22 j 21:15	5°X.51'41	
max. Earth dist.	-10151 Jan 22 j 02:32	19°M.48'13	30.83055 AU	opposition	-10145 Aug 09 j 04:56	4°X.26'54	-2°32'01
morning rise	-10151 Feb 06 j 18:17	20°M.22'59		min. Earth dist.	-10145 Aug 08 j 21:46	4°X.27'24	28.84469 AU
retrograde	-10151 May 08 j 16:28	22°M.20'56		direct	-10145 Oct 25 j 23:21	3°X.02'27	
opposition	-10151 Jul 26 j 12:37	20°M.55'44	-2°10'10	evening set	-10144 Jan 22 j 13:40	4°X.57'28	
min. Earth dist.	-10151 Jul 25 j 22:56	20°M.56'42	28.83278 AU				
direct	-10151 Oct 11 j 21:56	19°M.31'34		conjunction	-10144 Feb 07 j 18:36	5°X.33'25	-2°23'29
evening set	-10150 Jan 07 j 21:31	21°M.25'46		minimum elong	-10144 Feb 07 j 18:35	5°X.33'24	2°24'00
				max. Earth dist.	-10144 Feb 08 j 01:26	5°X.34'03	30.84298 AU
conjunction	-10150 Jan 24 j 02:00	22°M.01'42	-2°03'39	morning rise	-10144 Feb 24 j 00:45	6°X.09'29	
minimum elong	-10150 Jan 24 j 01:59	22°M.01'42	2°04'04	retrograde	-10144 May 24 j 10:14	8°X.06'49	
max. Earth dist.	-10150 Jan 24 j 16:25	22°M.03'02	30.83237 AU	opposition	-10144 Aug 10 j 15:28	6°X.42'03	-2°34'52
morning rise	-10150 Feb 09 j 08:30	22°M.37'51		min. Earth dist.	-10144 Aug 10 j 09:05	6°X.42'30	28.84502 AU
retrograde	-10150 May 11 j 03:25	24°M.35'45		direct	-10144 Oct 27 j 11:15	5°X.17'30	
				evening set	-10143 Jan 24 j 04:23	7°X.12'36	

Attention, astronomical year style is used: The year -10143 in astronomical counting style is the year 10144 BCE in historical counting style.

conjunction	-10143 Feb 09 j 09:29	7°♂48'33	-2°26'03	direct	-10137 Nov 12 j 22:11	21°♂00'25	
minimum elong	-10143 Feb 09 j 09:28	7°♂48'33	2°26'34	evening set	-10136 Feb 10 j 11:18	22°♂56'20	
max. Earth dist.	-10143 Feb 09 j 16:14	7°♂49'11	30.84322 AU				
morning rise	-10143 Feb 25 j 15:20	8°♂24'36		conjunction	-10136 Feb 26 j 16:28	23°♂32'14	-2°37'35
retrograde	-10143 May 26 j 21:30	10°♂21'47		minimum elong	-10136 Feb 26 j 16:27	23°♂32'14	2°38'10
opposition	-10143 Aug 13 j 02:05	8°♂57'03	-2°37'30	max. Earth dist.	-10136 Feb 26 j 16:57	23°♂32'17	30.87288 AU
min. Earth dist.	-10143 Aug 12 j 21:06	8°♂57'24	28.84551 AU	morning rise	-10136 Mar 13 j 21:12	24°♂08'08	
direct	-10143 Oct 29 j 23:17	7°♂32'25		retrograde	-10136 Jun 11 j 09:57	26°♂04'28	
evening set	-10142 Jan 26 j 18:57	9°♂27'36		opposition	-10136 Aug 28 j 03:18	24°♂40'16	-2°48'56
				min. Earth dist.	-10136 Aug 28 j 03:45	24°♂40'14	28.87860 AU
conjunction	-10142 Feb 12 j 00:01	10°♂03'32	-2°28'24	direct	-10136 Nov 14 j 11:44	23°♂15'19	
minimum elong	-10142 Feb 11 j 24:00	10°♂03'32	2°28'55	evening set	-10135 Feb 12 j 02:16	25°♂11'21	
max. Earth dist.	-10142 Feb 12 j 05:07	10°♂04'00	30.84407 AU				
morning rise	-10142 Feb 28 j 05:53	10°♂39'33		conjunction	-10135 Feb 28 j 07:13	25°♂47'15	-2°38'17
retrograde	-10142 May 29 j 10:52	12°♂36'36		minimum elong	-10135 Feb 28 j 07:13	25°♂47'15	2°38'51
opposition	-10142 Aug 15 j 12:32	11°♂11'53	-2°39'53	max. Earth dist.	-10135 Feb 28 j 05:20	25°♂47'05	30.87971 AU
min. Earth dist.	-10142 Aug 15 j 07:30	11°♂12'15	28.84684 AU	morning rise	-10135 Mar 16 j 11:55	26°♂23'09	
direct	-10142 Nov 01 j 10:51	9°♂47'09		retrograde	-10135 Jun 13 j 23:34	28°♂19'22	
evening set	-10141 Jan 29 j 09:41	11°♂42'26		opposition	-10135 Aug 30 j 13:51	26°♂55'16	-2°49'33
				min. Earth dist.	-10135 Aug 30 j 15:08	26°♂55'10	28.88521 AU
conjunction	-10141 Feb 14 j 14:47	12°♂18'22	-2°30'31	direct	-10135 Nov 16 j 23:36	25°♂30'17	
minimum elong	-10141 Feb 14 j 14:47	12°♂18'22	2°31'02	evening set	-10134 Feb 14 j 16:56	27°♂26'27	
max. Earth dist.	-10141 Feb 14 j 19:26	12°♂18'48	30.84577 AU				
morning rise	-10141 Mar 02 j 20:27	12°♂54'23		conjunction	-10134 Mar 02 j 22:02	28°♂02'21	-2°38'44
retrograde	-10141 May 31 j 20:36	14°♂51'17		minimum elong	-10134 Mar 02 j 22:01	28°♂02'21	2°39'19
opposition	-10141 Aug 17 j 23:00	13°♂26'37	-2°42'01	max. Earth dist.	-10134 Mar 02 j 19:50	28°♂02'08	30.88577 AU
min. Earth dist.	-10141 Aug 17 j 19:42	13°♂26'51	28.84924 AU	morning rise	-10134 Mar 19 j 02:24	28°♂38'13	
direct	-10141 Nov 03 j 21:40	12°♂01'48			-10134 May 01 j 18:38	0°♂	
evening set	-10140 Feb 01 j 00:24	13°♂57'11		retrograde	-10134 Jun 16 j 11:28	0°♂34'19	
					-10134 Aug 01 j 20:26	30°♂	
conjunction	-10140 Feb 17 j 05:33	14°♂33'06	-2°32'24	opposition	-10134 Sep 02 j 00:30	29°♂10'17	-2°49'54
minimum elong	-10140 Feb 17 j 05:33	14°♂33'06	2°32'56	min. Earth dist.	-10134 Sep 02 j 03:32	29°♂10'04	28.89075 AU
max. Earth dist.	-10140 Feb 17 j 09:20	14°♂33'28	30.84885 AU	direct	-10134 Nov 19 j 12:20	27°♂45'17	
morning rise	-10140 Mar 04 j 11:05	15°♂09'05		evening set	-10133 Feb 17 j 07:54	29°♂41'32	
retrograde	-10140 Jun 02 j 08:46	17°♂05'51			-10133 Feb 25 j 17:28	0°♂	
opposition	-10140 Aug 19 j 09:26	15°♂41'15	-2°43'55				
min. Earth dist.	-10140 Aug 19 j 05:51	15°♂41'31	28.85301 AU	conjunction	-10133 Mar 05 j 12:52	0°♂17'26	-2°38'57
direct	-10140 Nov 05 j 10:41	14°♂16'23		minimum elong	-10133 Mar 05 j 12:52	0°♂17'26	2°39'31
evening set	-10139 Feb 02 j 15:03	16°♂11'53		max. Earth dist.	-10133 Mar 05 j 08:19	0°♂17'00	30.89086 AU
				morning rise	-10133 Mar 21 j 17:10	0°♂53'17	
conjunction	-10139 Feb 18 j 20:06	16°♂47'48	-2°34'03	retrograde	-10133 Jun 19 j 00:47	2°♂49'14	
minimum elong	-10139 Feb 18 j 20:06	16°♂47'48	2°34'36	opposition	-10133 Sep 04 j 10:54	1°♂25'17	-2°50'00
max. Earth dist.	-10139 Feb 18 j 22:47	16°♂48'03	30.85322 AU	min. Earth dist.	-10133 Sep 04 j 14:17	1°♂25'02	28.89534 AU
morning rise	-10139 Mar 07 j 01:28	17°♂23'46		direct	-10133 Nov 22 j 00:37	0°♂00'12	
retrograde	-10139 Jun 04 j 20:12	19°♂20'25		evening set	-10132 Feb 19 j 22:46	1°♂56'32	
opposition	-10139 Aug 21 j 19:59	17°♂55'54	-2°45'33				
min. Earth dist.	-10139 Aug 21 j 17:56	17°♂56'02	28.85820 AU	conjunction	-10132 Mar 07 j 03:45	2°♂32'26	-2°38'56
direct	-10139 Nov 07 j 21:15	16°♂30'59		minimum elong	-10132 Mar 07 j 03:45	2°♂32'26	2°39'31
evening set	-10138 Feb 05 j 05:40	18°♂26'37		max. Earth dist.	-10132 Mar 06 j 22:25	2°♂31'56	30.89496 AU
				morning rise	-10132 Mar 23 j 07:44	3°♂08'16	
conjunction	-10138 Feb 21 j 10:51	19°♂02'31	-2°35'28	retrograde	-10132 Jun 20 j 10:33	5°♂04'03	
minimum elong	-10138 Feb 21 j 10:50	19°♂02'31	2°36'02	opposition	-10132 Sep 05 j 21:31	3°♂40'10	-2°49'51
max. Earth dist.	-10138 Feb 21 j 13:19	19°♂02'45	30.85905 AU	min. Earth dist.	-10132 Sep 06 j 02:59	3°♂39'46	28.89914 AU
morning rise	-10138 Mar 09 j 15:59	19°♂38'28		direct	-10132 Nov 23 j 12:08	2°♂15'01	
retrograde	-10138 Jun 07 j 08:32	21°♂35'00		evening set	-10131 Feb 21 j 13:22	4°♂11'25	
opposition	-10138 Aug 24 j 06:18	20°♂10'35	-2°46'56				
min. Earth dist.	-10138 Aug 24 j 04:21	20°♂10'43	28.86452 AU	conjunction	-10131 Mar 09 j 18:16	4°♂47'18	-2°38'40
direct	-10138 Nov 10 j 10:15	18°♂45'39		minimum elong	-10131 Mar 09 j 18:17	4°♂47'18	2°39'15
evening set	-10137 Feb 07 j 20:30	20°♂41'25		max. Earth dist.	-10131 Mar 09 j 11:38	4°♂46'41	30.89863 AU
				morning rise	-10131 Mar 25 j 22:07	5°♂23'06	
conjunction	-10137 Feb 24 j 01:33	21°♂17'19	-2°36'39	retrograde	-10131 Jun 22 j 22:15	7°♂18'43	
minimum elong	-10137 Feb 24 j 01:33	21°♂17'19	2°37'13	opposition	-10131 Sep 08 j 07:54	5°♂54'53	-2°49'27
max. Earth dist.	-10137 Feb 24 j 02:03	21°♂17'22	30.86578 AU	min. Earth dist.	-10131 Sep 08 j 13:23	5°♂54'29	28.90267 AU
morning rise	-10137 Mar 12 j 06:39	21°♂53'15		direct	-10131 Nov 26 j 01:13	4°♂29'39	
retrograde	-10137 Jun 09 j 21:55	23°♂49'41		evening set	-10130 Feb 24 j 04:00	6°♂26'07	
opposition	-10137 Aug 26 j 16:49	22°♂25'22	-2°48'04				
min. Earth dist.	-10137 Aug 26 j 16:12	22°♂25'24	28.87160 AU	conjunction	-10130 Mar 12 j 08:50	7°♂01'59	-2°38'10

Attention, astronomical year style is used: The year -10130 in astronomical counting style is the year 10131 BCE in historical counting style.

minimum elong	-10130 Mar 12 j 08:50	7° $\overline{3}$ 01'59	2°38'46	evening set	-10123 Mar 12 j 08:05	22° $\overline{3}$ 05'44	
max. Earth dist.	-10130 Mar 12 j 01:01	7° $\overline{3}$ 01'16	30.90219 AU				
morning rise	-10130 Mar 28 j 12:28	7° $\overline{3}$ 37'46		conjunction	-10123 Mar 28 j 12:27	22° $\overline{3}$ 41'32	-2°28'04
retrograde	-10130 Jun 25 j 08:49	9° $\overline{3}$ 33'14		minimum elong	-10123 Mar 28 j 12:27	22° $\overline{3}$ 41'32	2°28'37
opposition	-10130 Sep 10 j 18:15	8° $\overline{3}$ 09'25	-2°48'47	max. Earth dist.	-10123 Mar 27 j 23:19	22° $\overline{3}$ 40'19	30.95411 AU
min. Earth dist.	-10130 Sep 11 j 01:31	8° $\overline{3}$ 08'54	28.90649 AU	morning rise	-10123 Apr 13 j 14:27	23° $\overline{3}$ 17'10	
direct	-10130 Nov 28 j 11:25	6° $\overline{3}$ 44'06		retrograde	-10123 Jul 10 j 17:54	25° $\overline{3}$ 11'36	
evening set	-10129 Feb 26 j 18:30	8° $\overline{3}$ 40'38		opposition	-10123 Sep 25 j 19:02	23° $\overline{3}$ 48'22	-2°37'06
				min. Earth dist.	-10123 Sep 26 j 07:30	23° $\overline{3}$ 47'29	28.96104 AU
conjunction	-10129 Mar 14 j 23:22	9° $\overline{3}$ 16'30	-2°37'26	direct	-10123 Dec 14 j 04:35	22° $\overline{3}$ 22'52	
minimum elong	-10129 Mar 14 j 23:23	9° $\overline{3}$ 16'30	2°38'00	evening set	-10122 Mar 14 j 22:19	24° $\overline{3}$ 19'53	
max. Earth dist.	-10129 Mar 14 j 15:08	9° $\overline{3}$ 15'44	30.90635 AU	max. Earth dist.	-10122 Mar 30 j 11:56	24° $\overline{3}$ 54'20	30.96368 AU
morning rise	-10129 Mar 31 j 02:46	9° $\overline{3}$ 52'15					
retrograde	-10129 Jun 27 j 19:35	11° $\overline{3}$ 47'32		conjunction	-10122 Mar 31 j 02:31	24° $\overline{3}$ 55'41	-2°25'42
opposition	-10129 Sep 13 j 04:36	10° $\overline{3}$ 23'47	-2°47'52	minimum elong	-10122 Mar 31 j 02:32	24° $\overline{3}$ 55'41	2°26'15
min. Earth dist.	-10129 Sep 13 j 11:55	10° $\overline{3}$ 23'16	28.91095 AU	morning rise	-10122 Apr 16 j 04:23	25° $\overline{3}$ 31'17	
direct	-10129 Dec 01 j 01:07	8° $\overline{3}$ 58'23		retrograde	-10122 Jul 13 j 06:06	27° $\overline{3}$ 25'35	
evening set	-10128 Feb 29 j 09:00	10° $\overline{3}$ 54'59		opposition	-10122 Sep 28 j 05:23	26° $\overline{3}$ 02'26	-2°34'27
				min. Earth dist.	-10122 Sep 28 j 17:58	26° $\overline{3}$ 01'32	28.97010 AU
conjunction	-10128 Mar 16 j 13:39	11° $\overline{3}$ 30'50	-2°36'27	direct	-10122 Dec 16 j 17:27	24° $\overline{3}$ 36'55	
minimum elong	-10128 Mar 16 j 13:39	11° $\overline{3}$ 30'50	2°37'02	evening set	-10121 Mar 17 j 12:34	26° $\overline{3}$ 33'59	
max. Earth dist.	-10128 Mar 16 j 03:44	11° $\overline{3}$ 29'55	30.91131 AU				
morning rise	-10128 Apr 01 j 16:54	12° $\overline{3}$ 06'34		conjunction	-10121 Apr 02 j 16:40	27° $\overline{3}$ 09'47	-2°23'07
retrograde	-10128 Jun 29 j 07:16	14° $\overline{3}$ 01'42		minimum elong	-10121 Apr 02 j 16:41	27° $\overline{3}$ 09'47	2°23'39
opposition	-10128 Sep 14 j 14:59	12° $\overline{3}$ 37'59	-2°46'42	max. Earth dist.	-10121 Apr 02 j 00:52	27° $\overline{3}$ 08'18	30.97226 AU
min. Earth dist.	-10128 Sep 14 j 23:18	12° $\overline{3}$ 37'24	28.91662 AU	morning rise	-10121 Apr 18 j 18:14	27° $\overline{3}$ 45'22	
direct	-10128 Dec 02 j 13:14	11° $\overline{3}$ 12'32		retrograde	-10121 Jul 15 j 16:32	29° $\overline{3}$ 39'30	
evening set	-10127 Mar 02 j 23:14	13° $\overline{3}$ 09'12		opposition	-10121 Sep 30 j 16:03	28° $\overline{3}$ 16'25	-2°31'35
				min. Earth dist.	-10121 Oct 01 j 06:30	28° $\overline{3}$ 15'24	28.97822 AU
conjunction	-10127 Mar 19 j 03:59	13° $\overline{3}$ 45'03	-2°35'14	direct	-10121 Dec 19 j 03:52	26° $\overline{3}$ 50'52	
minimum elong	-10127 Mar 19 j 03:59	13° $\overline{3}$ 45'03	2°35'49	evening set	-10120 Mar 19 j 02:35	28° $\overline{3}$ 47'58	
max. Earth dist.	-10127 Mar 18 j 18:24	13° $\overline{3}$ 44'09	30.91766 AU				
morning rise	-10127 Apr 04 j 06:51	14° $\overline{3}$ 20'45		conjunction	-10120 Apr 04 j 06:36	29° $\overline{3}$ 23'45	-2°20'20
retrograde	-10127 Jul 01 j 18:08	16° $\overline{3}$ 15'44		minimum elong	-10120 Apr 04 j 06:36	29° $\overline{3}$ 23'45	2°20'52
opposition	-10127 Sep 17 j 01:21	14° $\overline{3}$ 52'05	-2°45'16	max. Earth dist.	-10120 Apr 03 j 14:05	29° $\overline{3}$ 22'13	30.97995 AU
min. Earth dist.	-10127 Sep 17 j 10:15	14° $\overline{3}$ 51'28	28.92359 AU	morning rise	-10120 Apr 20 j 07:53	29° $\overline{3}$ 59'18	
direct	-10127 Dec 05 j 02:42	13° $\overline{3}$ 26'37			-10120 Apr 20 j 15:32	0° \approx	
evening set	-10126 Mar 05 j 13:28	15° $\overline{3}$ 23'21		retrograde	-10120 Jul 17 j 02:31	1° \approx 53'17	
				opposition	-10120 Oct 02 j 02:33	0° \approx 30'16	-2°28'29
conjunction	-10126 Mar 21 j 18:00	15° $\overline{3}$ 59'10	-2°33'48	min. Earth dist.	-10120 Oct 02 j 17:17	0° \approx 29'14	28.98531 AU
minimum elong	-10126 Mar 21 j 18:00	15° $\overline{3}$ 59'10	2°34'23		-10120 Oct 20 j 08:14	30° \overline{R} $\overline{3}$	
max. Earth dist.	-10126 Mar 21 j 06:38	15° $\overline{3}$ 58'07	30.92543 AU	direct	-10120 Dec 20 j 17:49	29° $\overline{3}$ 04'40	
morning rise	-10126 Apr 06 j 20:51	16° $\overline{3}$ 34'51			-10119 Feb 18 j 12:25	0° \approx	
retrograde	-10126 Jul 04 j 07:07	18° $\overline{3}$ 29'42		evening set	-10119 Mar 21 j 16:35	1° \approx 01'47	
opposition	-10126 Sep 19 j 11:41	17° $\overline{3}$ 06'08	-2°43'36				
min. Earth dist.	-10126 Sep 19 j 20:54	17° $\overline{3}$ 05'29	28.93200 AU	conjunction	-10119 Apr 06 j 20:22	1° \approx 37'33	-2°17'20
direct	-10126 Dec 07 j 14:35	15° $\overline{3}$ 40'38		minimum elong	-10119 Apr 06 j 20:22	1° \approx 37'33	2°17'52
evening set	-10125 Mar 08 j 03:41	17° $\overline{3}$ 37'27		max. Earth dist.	-10119 Apr 06 j 02:04	1° \approx 35'51	30.98678 AU
				morning rise	-10119 Apr 22 j 21:28	2° \approx 13'05	
conjunction	-10125 Mar 24 j 08:18	18° $\overline{3}$ 13'16	-2°32'07	retrograde	-10119 Jul 19 j 13:21	4° \approx 06'54	
minimum elong	-10125 Mar 24 j 08:18	18° $\overline{3}$ 13'16	2°32'41	opposition	-10119 Oct 04 j 13:03	2° \approx 43'55	-2°25'11
max. Earth dist.	-10125 Mar 23 j 21:16	18° $\overline{3}$ 12'15	30.93440 AU	min. Earth dist.	-10119 Oct 05 j 04:57	2° \approx 42'48	28.99194 AU
morning rise	-10125 Apr 09 j 10:45	18° $\overline{3}$ 48'56		direct	-10119 Dec 23 j 05:11	1° \approx 18'16	
retrograde	-10125 Jul 06 j 18:45	20° $\overline{3}$ 43'38		evening set	-10118 Mar 24 j 06:12	3° \approx 15'23	
opposition	-10125 Sep 21 j 22:03	19° $\overline{3}$ 20'11	-2°41'41				
min. Earth dist.	-10125 Sep 22 j 08:38	19° $\overline{3}$ 19'26	28.94134 AU	conjunction	-10118 Apr 09 j 10:02	3° \approx 51'08	-2°14'08
direct	-10125 Dec 10 j 04:09	17° $\overline{3}$ 54'41		minimum elong	-10118 Apr 09 j 10:03	3° \approx 51'08	2°14'40
evening set	-10124 Mar 09 j 18:02	19° $\overline{3}$ 51'35		max. Earth dist.	-10118 Apr 08 j 15:52	3° \approx 49'27	30.99330 AU
				morning rise	-10118 Apr 25 j 10:48	4° \approx 26'39	
conjunction	-10124 Mar 25 j 22:24	20° $\overline{3}$ 27'24	-2°30'12	retrograde	-10118 Jul 21 j 23:22	6° \approx 20'18	
minimum elong	-10124 Mar 25 j 22:25	20° $\overline{3}$ 27'24	2°30'47	opposition	-10118 Oct 06 j 23:32	4° \approx 57'22	-2°21'40
max. Earth dist.	-10124 Mar 25 j 09:33	20° $\overline{3}$ 26'12	30.94421 AU	min. Earth dist.	-10118 Oct 07 j 16:15	4° \approx 56'11	28.99822 AU
morning rise	-10124 Apr 11 j 00:47	21° $\overline{3}$ 03'02		direct	-10118 Dec 25 j 18:29	3° \approx 31'39	
retrograde	-10124 Jul 08 j 07:34	22° $\overline{3}$ 57'36		evening set	-10117 Mar 26 j 19:59	5° \approx 28'47	
opposition	-10124 Sep 23 j 08:27	21° $\overline{3}$ 34'16	-2°39'31				
min. Earth dist.	-10124 Sep 23 j 18:59	21° $\overline{3}$ 33'31	28.95127 AU	conjunction	-10117 Apr 11 j 23:29	6° \approx 04'31	-2°10'45
direct	-10124 Dec 11 j 16:59	20° $\overline{3}$ 08'46		minimum elong	-10117 Apr 11 j 23:29	6° \approx 04'31	2°11'14

Attention, astronomical year style is used: The year -10117 in astronomical counting style is the year 10118 BCE in historical counting style.

max. Earth dist.	-10117 Apr 11 j 03:31	6°02'39	30.99977 AU	retrograde	-10111 Aug 06 j 03:42	21°05'31	
morning rise	-10117 Apr 28 j 00:07	6°40'00		opposition	-10111 Oct 22 j 01:09	20°28'06	-1°51'32
retrograde	-10117 Jul 24 j 11:21	8°33'30		min. Earth dist.	-10111 Oct 22 j 20:44	20°26'44	29.06631 AU
opposition	-10117 Oct 09 j 09:55	7°10'35	-2°17'56	direct	-10110 Jan 10 j 09:59	19°02'28	
min. Earth dist.	-10117 Oct 10 j 02:55	7°09'24	29.00490 AU	evening set	-10110 Apr 11 j 16:39	20°59'45	
direct	-10117 Dec 28 j 06:44	5°44'50					
evening set	-10116 Mar 28 j 09:26	7°41'59		conjunction	-10110 Apr 27 j 18:44	21°35'23	-1°41'57
				minimum elong	-10110 Apr 27 j 18:45	21°35'23	1°42'22
conjunction	-10116 Apr 13 j 12:56	8°17'42	-2°07'10	max. Earth dist.	-10110 Apr 26 j 19:41	21°33'15	31.07107 AU
minimum elong	-10116 Apr 13 j 12:57	8°17'42	2°07'40	morning rise	-10110 May 13 j 17:14	22°10'43	
max. Earth dist.	-10116 Apr 12 j 17:35	8°15'54	31.00681 AU	retrograde	-10110 Aug 08 j 14:19	24°03'26	
morning rise	-10116 Apr 29 j 13:07	8°53'09		opposition	-10110 Oct 24 j 11:54	22°41'07	-1°46'31
retrograde	-10116 Jul 25 j 22:01	10°46'30		min. Earth dist.	-10110 Oct 25 j 08:27	22°39'41	29.07803 AU
opposition	-10116 Oct 10 j 20:32	9°23'38	-2°14'01	direct	-10109 Jan 12 j 20:12	21°15'31	
min. Earth dist.	-10116 Oct 11 j 14:35	9°22'22	29.01231 AU	evening set	-10109 Apr 14 j 05:41	23°12'48	
direct	-10116 Dec 29 j 20:41	7°57'52		max. Earth dist.	-10109 Apr 29 j 08:43	23°46'18	31.08235 AU
evening set	-10115 Mar 30 j 22:44	9°55'00					
max. Earth dist.	-10115 Apr 15 j 05:10	10°28'47	31.01491 AU	conjunction	-10109 Apr 30 j 07:36	23°48'26	-1°37'11
				minimum elong	-10109 Apr 30 j 07:37	23°48'26	1°37'34
conjunction	-10115 Apr 16 j 01:54	10°30'42	-2°03'24	morning rise	-10109 May 16 j 05:38	24°23'44	
minimum elong	-10115 Apr 16 j 01:55	10°30'42	2°03'52	retrograde	-10109 Aug 11 j 00:07	26°16'21	
morning rise	-10115 May 02 j 01:59	11°06'08		opposition	-10109 Oct 26 j 22:45	24°54'07	-1°41'20
retrograde	-10115 Jul 28 j 09:58	12°59'22		min. Earth dist.	-10109 Oct 27 j 20:07	24°52'37	29.08862 AU
opposition	-10115 Oct 13 j 06:57	11°36'33	-2°09'54	direct	-10108 Jan 15 j 08:35	23°28'32	
min. Earth dist.	-10115 Oct 14 j 00:26	11°35'19	29.02097 AU	evening set	-10108 Apr 15 j 18:48	25°25'49	
direct	-10114 Jan 01 j 09:49	10°10'46					
evening set	-10114 Apr 02 j 11:59	12°07'56		conjunction	-10108 May 01 j 20:16	26°01'25	-1°32'17
				minimum elong	-10108 May 01 j 20:17	26°01'25	1°32'40
conjunction	-10114 Apr 18 j 15:05	12°43'37	-1°59'28	max. Earth dist.	-10108 Apr 30 j 19:35	25°59'07	31.09250 AU
minimum elong	-10114 Apr 18 j 15:06	12°43'37	1°59'56	morning rise	-10108 May 17 j 18:04	26°36'42	
max. Earth dist.	-10114 Apr 17 j 18:41	12°41'43	31.02425 AU	retrograde	-10108 Aug 12 j 11:43	28°29'13	
morning rise	-10114 May 04 j 14:44	13°19'01		opposition	-10108 Oct 28 j 09:37	27°07'02	-1°36'01
	-10114 Jul 04 j 07:06	15°		min. Earth dist.	-10108 Oct 29 j 07:13	27°05'31	29.09820 AU
retrograde	-10114 Jul 30 j 19:55	15°12'07		direct	-10107 Jan 16 j 20:43	25°41'27	
	-10114 Aug 26 j 14:42	15°		evening set	-10107 Apr 18 j 07:27	27°38'42	
opposition	-10114 Oct 15 j 17:25	13°49'24	-2°05'35	max. Earth dist.	-10107 May 03 j 08:38	28°12'02	31.10152 AU
min. Earth dist.	-10114 Oct 16 j 12:17	13°48'04	29.03094 AU				
direct	-10113 Jan 03 j 21:39	12°23'37		conjunction	-10107 May 04 j 08:49	28°14'17	-1°27'14
evening set	-10113 Apr 05 j 01:18	14°20'49		minimum elong	-10107 May 04 j 08:50	28°14'17	1°27'35
max. Earth dist.	-10113 Apr 20 j 06:54	14°54'31	31.03503 AU	morning rise	-10107 May 20 j 06:07	28°49'32	
					-10107 Jun 25 j 18:08	0°	
conjunction	-10113 Apr 21 j 04:08	14°56'30	-1°55'20	retrograde	-10107 Aug 14 j 21:45	0°41'57	
minimum elong	-10113 Apr 21 j 04:08	14°56'30	1°55'47		-10107 Oct 05 j 18:01	30°	
	-10113 Apr 22 j 17:50	15°		opposition	-10107 Oct 30 j 20:33	29°19'47	-1°30'34
morning rise	-10113 May 07 j 03:35	15°31'53		min. Earth dist.	-10107 Oct 31 j 19:28	29°18'11	29.10658 AU
retrograde	-10113 Aug 02 j 08:00	17°24'52		direct	-10106 Jan 19 j 10:37	27°54'11	
opposition	-10113 Oct 18 j 03:55	16°02'14	-2°01'05	evening set	-10106 Apr 20 j 20:19	29°51'25	
min. Earth dist.	-10113 Oct 18 j 22:14	16°00'57	29.04212 AU		-10106 Apr 24 j 18:27	0°	
	-10113 Nov 28 j 12:41	15°					
direct	-10112 Jan 06 j 10:36	14°36'30		conjunction	-10106 May 06 j 21:13	0°26'58	-1°22'04
	-10112 Feb 13 j 16:38	15°		minimum elong	-10106 May 06 j 21:13	0°26'58	1°22'26
evening set	-10112 Apr 06 j 14:26	16°33'44		max. Earth dist.	-10106 May 05 j 19:24	0°24'34	31.10959 AU
				morning rise	-10106 May 22 j 18:19	1°02'11	
conjunction	-10112 Apr 22 j 17:02	17°09'24	-1°51'02	retrograde	-10106 Aug 17 j 09:12	2°54'29	
minimum elong	-10112 Apr 22 j 17:03	17°09'24	1°51'30	opposition	-10106 Nov 02 j 07:11	1°32'20	-1°24'59
max. Earth dist.	-10112 Apr 21 j 19:32	17°07'24	31.04672 AU	min. Earth dist.	-10106 Nov 03 j 05:45	1°30'45	29.11420 AU
morning rise	-10112 May 08 j 16:06	17°44'46		direct	-10105 Jan 21 j 23:36	0°06'42	
retrograde	-10112 Aug 03 j 18:09	19°37'40		evening set	-10105 Apr 23 j 08:54	2°03'54	
opposition	-10112 Oct 19 j 14:36	18°15'08	-1°56'24	max. Earth dist.	-10105 May 08 j 08:06	2°37'03	31.11696 AU
min. Earth dist.	-10112 Oct 20 j 10:12	18°13'46	29.05415 AU				
direct	-10111 Jan 07 j 20:41	16°49'27		conjunction	-10105 May 09 j 09:36	2°39'25	-1°16'48
evening set	-10111 Apr 09 j 03:31	18°46'43		minimum elong	-10105 May 09 j 09:37	2°39'25	1°17'07
max. Earth dist.	-10111 Apr 24 j 08:16	19°20'21	31.05904 AU	morning rise	-10105 May 25 j 06:10	3°14'36	
				retrograde	-10105 Aug 19 j 19:16	5°06'47	
conjunction	-10111 Apr 25 j 05:55	19°22'22	-1°46'35	opposition	-10105 Nov 04 j 18:11	3°44'38	-1°19'18
minimum elong	-10111 Apr 25 j 05:56	19°22'22	1°47'00	min. Earth dist.	-10105 Nov 05 j 18:09	3°42'58	29.12141 AU
morning rise	-10111 May 11 j 04:41	19°57'43		direct	-10104 Jan 24 j 12:30	2°19'00	

Attention, astronomical year style is used: The year -10104 in astronomical counting style is the year 10105 BCE in historical counting style.

evening set	-10104 Apr 24 j 21:17	4° ✕ 16'08		opposition	-10098 Nov 19 j 23:01	19° ✕ 06'49	-0°36'46
				min. Earth dist.	-10098 Nov 20 j 23:39	19° ✕ 05'07	29.18789 AU
conjunction	-10104 May 10 j 21:31	4° ✕ 51'37	-1°11'25	direct	-10097 Feb 09 j 01:14	17° ✕ 41'26	
minimum elong	-10104 May 10 j 21:32	4° ✕ 51'37	1°11'44	evening set	-10097 May 11 j 09:26	19° ✕ 38'23	
max. Earth dist.	-10104 May 09 j 19:23	4° ✕ 49'11	31.12429 AU	max. Earth dist.	-10097 May 26 j 03:58	20° ✕ 11'11	31.19249 AU
morning rise	-10104 May 26 j 17:48	5° ✕ 26'45					
retrograde	-10104 Aug 21 j 06:50	7° ✕ 18'50		conjunction	-10097 May 27 j 06:37	20° ✕ 13'40	-0°31'22
opposition	-10104 Nov 06 j 05:01	5° ✕ 56'42	-1°13'29	minimum elong	-10097 May 27 j 06:37	20° ✕ 13'40	0°31'31
min. Earth dist.	-10104 Nov 07 j 04:15	5° ✕ 55'05	29.12874 AU	morning rise	-10097 Jun 11 j 23:48	20° ✕ 48'36	
direct	-10103 Jan 26 j 02:44	4° ✕ 31'02		retrograde	-10097 Sep 06 j 05:23	22° ✕ 40'21	
evening set	-10103 Apr 27 j 09:32	6° ✕ 28'07		opposition	-10097 Nov 22 j 10:18	21° ✕ 18'35	-0°30'25
max. Earth dist.	-10103 May 12 j 07:20	7° ✕ 01'09	31.13189 AU	min. Earth dist.	-10097 Nov 23 j 10:12	21° ✕ 16'56	29.19758 AU
				direct	-10096 Feb 11 j 13:12	19° ✕ 53'15	
conjunction	-10103 May 13 j 09:26	7° ✕ 03'35	-1°05'57	evening set	-10096 May 12 j 21:05	21° ✕ 50'12	
minimum elong	-10103 May 13 j 09:27	7° ✕ 03'35	1°06'13				
morning rise	-10103 May 29 j 05:15	7° ✕ 38'41		conjunction	-10096 May 28 j 17:53	22° ✕ 25'27	-0°25'24
retrograde	-10103 Aug 23 j 16:19	9° ✕ 30'40		minimum elong	-10096 May 28 j 17:54	22° ✕ 25'27	0°25'33
opposition	-10103 Nov 08 j 15:51	8° ✕ 08'32	-1°07'35	max. Earth dist.	-10096 May 27 j 15:44	22° ✕ 23'01	31.20152 AU
min. Earth dist.	-10103 Nov 09 j 16:01	8° ✕ 06'52	29.13677 AU	morning rise	-10096 Jun 13 j 10:25	23° ✕ 00'20	
direct	-10102 Jan 28 j 14:05	6° ✕ 42'53		retrograde	-10096 Sep 07 j 15:46	24° ✕ 52'06	
evening set	-10102 Apr 29 j 21:39	8° ✕ 39'55		opposition	-10096 Nov 23 j 21:47	23° ✕ 30'22	-0°24'01
				min. Earth dist.	-10096 Nov 24 j 22:59	23° ✕ 28'38	29.20599 AU
conjunction	-10102 May 15 j 21:12	9° ✕ 15'20	-1°00'22	direct	-10095 Feb 13 j 02:01	22° ✕ 05'05	
minimum elong	-10102 May 15 j 21:13	9° ✕ 15'21	1°00'39	evening set	-10095 May 15 j 08:52	24° ✕ 02'00	
max. Earth dist.	-10102 May 14 j 19:25	9° ✕ 12'56	31.14043 AU	max. Earth dist.	-10095 May 30 j 02:14	24° ✕ 34'42	31.20932 AU
morning rise	-10102 May 31 j 16:37	9° ✕ 50'25					
retrograde	-10102 Aug 26 j 01:20	11° ✕ 42'18		conjunction	-10095 May 31 j 05:04	24° ✕ 37'12	-0°19'24
opposition	-10102 Nov 11 j 02:46	10° ✕ 20'14	-1°01'35	minimum elong	-10095 May 31 j 05:04	24° ✕ 37'12	0°19'32
min. Earth dist.	-10102 Nov 12 j 02:19	10° ✕ 18'35	29.14562 AU	morning rise	-10095 Jun 15 j 21:13	25° ✕ 12'03	
direct	-10101 Jan 31 j 03:30	8° ✕ 54'35		retrograde	-10095 Sep 10 j 03:39	27° ✕ 03'47	
evening set	-10101 May 02 j 09:46	10° ✕ 51'35		opposition	-10095 Nov 26 j 08:57	25° ✕ 42'04	-0°17'35
max. Earth dist.	-10101 May 17 j 06:24	11° ✕ 24'31	31.14985 AU	min. Earth dist.	-10095 Nov 27 j 09:31	25° ✕ 40'23	29.21302 AU
				direct	-10094 Feb 15 j 16:16	24° ✕ 16'49	
conjunction	-10101 May 18 j 08:49	11° ✕ 26'59	-0°54'43	evening set	-10094 May 17 j 20:31	26° ✕ 13'41	
minimum elong	-10101 May 18 j 08:49	11° ✕ 26'59	0°54'57				
morning rise	-10101 Jun 03 j 03:49	12° ✕ 02'02		conjunction	-10094 Jun 02 j 16:14	26° ✕ 48'51	-0°13'24
retrograde	-10101 Aug 28 j 11:29	13° ✕ 53'52		minimum elong	-10094 Jun 02 j 16:14	26° ✕ 48'51	0°13'30
opposition	-10101 Nov 13 j 13:45	12° ✕ 31'50	-0°55'30	behind sun begin	-10094 Jun 02 j 12:37	26° ✕ 48'32	
min. Earth dist.	-10101 Nov 14 j 13:28	12° ✕ 30'11	29.15559 AU	behind sun end	-10094 Jun 02 j 19:52	26° ✕ 49'11	
direct	-10100 Feb 02 j 13:42	11° ✕ 06'14		max. Earth dist.	-10094 Jun 01 j 13:14	26° ✕ 46'21	31.21569 AU
evening set	-10100 May 03 j 21:42	13° ✕ 03'13		morning rise	-10094 Jun 18 j 07:48	27° ✕ 23'41	
				retrograde	-10094 Sep 12 j 13:27	29° ✕ 15'23	
conjunction	-10100 May 19 j 20:26	13° ✕ 38'35	-0°48'59	opposition	-10094 Nov 28 j 20:24	27° ✕ 53'40	-0°11'08
minimum elong	-10100 May 19 j 20:27	13° ✕ 38'35	0°49'13	min. Earth dist.	-10094 Nov 29 j 21:59	27° ✕ 51'55	29.21887 AU
max. Earth dist.	-10100 May 18 j 19:01	13° ✕ 36'13	31.16034 AU	direct	-10093 Feb 18 j 04:09	26° ✕ 28'26	
morning rise	-10100 Jun 04 j 14:54	14° ✕ 13'36		evening set	-10093 May 20 j 07:57	28° ✕ 25'15	
retrograde	-10100 Aug 29 j 20:42	16° ✕ 05'24		max. Earth dist.	-10093 Jun 04 j 00:30	28° ✕ 57'53	31.22107 AU
opposition	-10100 Nov 15 j 00:50	14° ✕ 43'26	-0°49'19				
min. Earth dist.	-10100 Nov 16 j 00:43	14° ✕ 41'47	29.16629 AU	conjunction	-10093 Jun 05 j 03:09	29° ✕ 00'22	-0°07'23
direct	-10099 Feb 04 j 01:41	13° ✕ 17'54		minimum elong	-10093 Jun 05 j 03:08	29° ✕ 00'22	0°07'27
evening set	-10099 May 06 j 09:35	15° ✕ 14'52		behind sun begin	-10093 Jun 04 j 21:14	28° ✕ 59'50	
max. Earth dist.	-10099 May 21 j 05:18	15° ✕ 47'45	31.17136 AU	behind sun end	-10093 Jun 05 j 09:03	29° ✕ 00'54	
				morning rise	-10093 Jun 20 j 18:11	29° ✕ 35'09	
conjunction	-10099 May 22 j 07:44	15° ✕ 50'13	-0°43'10				
minimum elong	-10099 May 22 j 07:45	15° ✕ 50'13	0°43'22	retrograde	-10093 Sep 14 j 22:16	1° ° 26'49	
morning rise	-10099 Jun 07 j 01:55	16° ✕ 25'12		opposition	-10093 Dec 01 j 07:49	0° ° 05'06	-0°04'41
retrograde	-10099 Sep 01 j 07:51	18° ✕ 16'59		min. Earth dist.	-10093 Dec 02 j 08:51	0° ° 03'23	29.22374 AU
opposition	-10099 Nov 17 j 11:51	16° ✕ 55'05	-0°43'05				
min. Earth dist.	-10099 Nov 18 j 11:26	16° ✕ 53'27	29.17734 AU	direct	-10092 Feb 20 j 18:00	28° ✕ 39'52	
direct	-10098 Feb 06 j 12:48	15° ✕ 29'38					
evening set	-10098 May 08 j 21:25	17° ✕ 26'36		evening set	-10092 May 04 j 06:42	0° °	
				max. Earth dist.	-10092 May 21 j 19:19	0° ° 36'36	
conjunction	-10098 May 24 j 19:16	18° ✕ 01'55	-0°37'18				
minimum elong	-10098 May 24 j 19:17	18° ✕ 01'55	0°37'29	conjunction	-10092 Jun 06 j 13:52	1° ° 11'42	-0°01'20
max. Earth dist.	-10098 May 23 j 17:49	17° ✕ 59'32	31.18226 AU	minimum elong	-10092 Jun 06 j 13:52	1° ° 11'42	0°01'23
morning rise	-10098 Jun 09 j 12:48	18° ✕ 36'52		behind sun begin	-10092 Jun 06 j 07:23	1° ° 11'07	
retrograde	-10098 Sep 03 j 17:37	20° ✕ 28'38		behind sun end	-10092 Jun 06 j 20:20	1° ° 12'16	

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

morning rise	-10092 Jun 22 j 04:26	1° Υ 46'26	opposition	-10086 Dec 16 j 16:21	15° Υ 21'09	0°40'02
asc. node	-10092 Aug 24 j 20:39	3° Υ 29'23	min. Earth dist.	-10086 Dec 17 j 14:38	15° Υ 19'38	29.26828 AU
retrograde	-10092 Sep 16 j 08:17	3° Υ 38'05	direct	-10085 Mar 08 j 04:26	13° Υ 56'13	
opposition	-10092 Dec 02 j 19:13	2° Υ 16'20 0°01'46	evening set	-10085 Jun 06 j 23:12	15° Υ 52'35	
min. Earth dist.	-10092 Dec 03 j 20:18	2° Υ 14'37 29.22842 AU				
direct	-10091 Feb 22 j 04:54	0° Υ 51'06	conjunction	-10085 Jun 22 j 13:29	16° Υ 27'21	0°40'28
evening set	-10091 May 24 j 06:18	2° Υ 47'46	minimum elong	-10085 Jun 22 j 13:29	16° Υ 27'21	0°40'35
max. Earth dist.	-10091 Jun 07 j 22:26	3° Υ 20'23 31.23038 AU	max. Earth dist.	-10085 Jun 21 j 13:50	16° Υ 25'08	31.27166 AU
			morning rise	-10085 Jul 08 j 00:07	17° Υ 01'49	
conjunction	-10091 Jun 09 j 00:25	3° Υ 22'48 0°04'49	retrograde	-10085 Oct 02 j 07:05	18° Υ 53'40	
minimum elong	-10091 Jun 09 j 00:25	3° Υ 22'48 0°04'48	opposition	-10085 Dec 19 j 04:17	17° Υ 31'58	0°46'16
behind sun begin	-10091 Jun 08 j 18:06	3° Υ 22'15	min. Earth dist.	-10085 Dec 20 j 03:07	17° Υ 30'24	29.27574 AU
behind sun end	-10091 Jun 09 j 06:44	3° Υ 23'22	direct	-10084 Mar 09 j 15:43	16° Υ 07'06	
morning rise	-10091 Jun 24 j 14:23	3° Υ 57'31	evening set	-10084 Jun 08 j 09:52	18° Υ 03'25	
retrograde	-10091 Sep 18 j 16:41	5° Υ 49'08				
opposition	-10091 Dec 05 j 06:40	4° Υ 27'22 0°08'13	conjunction	-10084 Jun 23 j 23:32	18° Υ 38'09	0°46'16
min. Earth dist.	-10091 Dec 06 j 07:40	4° Υ 25'39 29.23312 AU	minimum elong	-10084 Jun 23 j 23:32	18° Υ 38'09	0°46'23
direct	-10090 Feb 24 j 17:44	3° Υ 02'09	max. Earth dist.	-10084 Jun 23 j 00:37	18° Υ 36'00	31.27864 AU
evening set	-10090 May 26 j 17:25	4° Υ 58'44	morning rise	-10084 Jul 09 j 09:34	19° Υ 12'35	
max. Earth dist.	-10090 Jun 10 j 08:09	5° Υ 31'14 31.23538 AU	retrograde	-10084 Oct 03 j 16:47	21° Υ 04'29	
			opposition	-10084 Dec 20 j 16:08	19° Υ 42'47	0°52'25
conjunction	-10090 Jun 11 j 10:46	5° Υ 33'43 0°10'49	min. Earth dist.	-10084 Dec 21 j 14:13	19° Υ 41'17	29.28215 AU
minimum elong	-10090 Jun 11 j 10:45	5° Υ 33'43 0°10'48	direct	-10083 Mar 12 j 05:27	18° Υ 17'59	
behind sun begin	-10090 Jun 11 j 05:48	5° Υ 33'17	evening set	-10083 Jun 10 j 20:29	20° Υ 14'15	
behind sun end	-10090 Jun 11 j 15:43	5° Υ 34'10	max. Earth dist.	-10083 Jun 25 j 09:55	20° Υ 46'44	31.28436 AU
morning rise	-10090 Jun 27 j 00:18	6° Υ 08'24				
retrograde	-10090 Sep 21 j 02:34	8° Υ 00'01	conjunction	-10083 Jun 26 j 09:26	20° Υ 48'56	0°51'59
opposition	-10090 Dec 07 j 18:01	6° Υ 38'14 0°14'38	minimum elong	-10083 Jun 26 j 09:25	20° Υ 48'56	0°52'08
min. Earth dist.	-10090 Dec 08 j 18:07	6° Υ 36'35 29.23857 AU	morning rise	-10083 Jul 11 j 18:59	21° Υ 23'20	
direct	-10089 Feb 27 j 04:41	5° Υ 13'01	retrograde	-10083 Oct 06 j 03:41	23° Υ 15'17	
evening set	-10089 May 29 j 04:18	7° Υ 09'33	opposition	-10083 Dec 23 j 04:05	21° Υ 53'35	0°58'30
			min. Earth dist.	-10083 Dec 24 j 02:07	21° Υ 52'05	29.28734 AU
conjunction	-10089 Jun 13 j 21:12	7° Υ 44'30 0°16'48	direct	-10082 Mar 14 j 16:57	20° Υ 28'50	
minimum elong	-10089 Jun 13 j 21:12	7° Υ 44'30 0°16'49	evening set	-10082 Jun 13 j 06:59	22° Υ 25'03	
max. Earth dist.	-10089 Jun 12 j 20:14	7° Υ 42'10 31.24126 AU				
morning rise	-10089 Jun 29 j 10:00	8° Υ 19'07	conjunction	-10082 Jun 28 j 19:24	22° Υ 59'41	0°57'38
retrograde	-10089 Sep 23 j 11:26	10° Υ 10'46	minimum elong	-10082 Jun 28 j 19:23	22° Υ 59'41	0°57'48
opposition	-10089 Dec 10 j 05:40	8° Υ 48'58 0°21'03	max. Earth dist.	-10082 Jun 27 j 21:03	22° Υ 57'35	31.28878 AU
min. Earth dist.	-10089 Dec 11 j 05:59	8° Υ 47'19 29.24495 AU	morning rise	-10082 Jul 14 j 04:13	23° Υ 34'02	
direct	-10088 Feb 29 j 16:04	7° Υ 23'49	retrograde	-10082 Oct 08 j 12:16	25° Υ 26'03	
evening set	-10088 May 30 j 15:05	9° Υ 20'17	opposition	-10082 Dec 25 j 16:06	24° Υ 04'20	1°04'30
max. Earth dist.	-10088 Jun 14 j 05:56	9° Υ 52'50 31.24821 AU	min. Earth dist.	-10082 Dec 26 j 14:08	24° Υ 02'50	29.29105 AU
			direct	-10081 Mar 17 j 06:09	22° Υ 39'37	
conjunction	-10088 Jun 15 j 07:13	9° Υ 55'11 0°22'46	evening set	-10081 Jun 15 j 17:33	24° Υ 35'45	
minimum elong	-10088 Jun 15 j 07:13	9° Υ 55'11 0°22'48	max. Earth dist.	-10081 Jun 30 j 06:06	25° Υ 08'10	31.29194 AU
morning rise	-10088 Jun 30 j 19:38	10° Υ 29'47				
retrograde	-10088 Sep 24 j 22:36	12° Υ 21'27	conjunction	-10081 Jul 01 j 05:09	25° Υ 10'20	1°03'12
opposition	-10088 Dec 11 j 17:08	10° Υ 59'41 0°27'25	minimum elong	-10081 Jul 01 j 05:08	25° Υ 10'20	1°03'24
min. Earth dist.	-10088 Dec 12 j 15:56	10° Υ 58'07 29.25234 AU	morning rise	-10081 Jul 16 j 13:34	25° Υ 44'39	
direct	-10087 Mar 03 j 02:54	9° Υ 34'35	retrograde	-10081 Oct 10 j 22:32	27° Υ 36'43	
evening set	-10087 Jun 02 j 01:47	11° Υ 31'00	opposition	-10081 Dec 28 j 04:08	26° Υ 14'57	1°10'24
			min. Earth dist.	-10081 Dec 29 j 01:17	26° Υ 13'31	29.29380 AU
conjunction	-10087 Jun 17 j 17:26	12° Υ 05'52 0°28'43	direct	-10080 Mar 18 j 17:07	24° Υ 50'16	
minimum elong	-10087 Jun 17 j 17:26	12° Υ 05'52 0°28'46	evening set	-10080 Jun 17 j 03:41	26° Υ 46'19	
max. Earth dist.	-10087 Jun 16 j 17:20	12° Υ 03'37 31.25590 AU				
morning rise	-10087 Jul 03 j 05:10	12° Υ 40'25	conjunction	-10080 Jul 02 j 14:48	27° Υ 20'52	1°08'40
retrograde	-10087 Sep 27 j 08:54	14° Υ 32'09	minimum elong	-10080 Jul 02 j 14:47	27° Υ 20'52	1°08'52
opposition	-10087 Dec 14 j 04:41	13° Υ 10'23 0°33'45	max. Earth dist.	-10080 Jul 01 j 17:19	27° Υ 18'51	31.29415 AU
min. Earth dist.	-10087 Dec 15 j 04:11	13° Υ 08'47 29.26032 AU	morning rise	-10080 Jul 17 j 22:30	27° Υ 55'08	
direct	-10086 Mar 05 j 15:09	11° Υ 45'22	retrograde	-10080 Oct 12 j 07:15	29° Υ 47'16	
evening set	-10086 Jun 04 j 12:34	13° Υ 41'46	opposition	-10080 Dec 29 j 16:16	28° Υ 25'27	1°16'11
max. Earth dist.	-10086 Jun 19 j 03:28	14° Υ 14'20 31.26400 AU	min. Earth dist.	-10080 Dec 30 j 13:46	28° Υ 24'00	29.29572 AU
			direct	-10079 Mar 21 j 04:37	27° Υ 00'47	
conjunction	-10086 Jun 20 j 03:30	14° Υ 16'35 0°34'37	evening set	-10079 Jun 19 j 13:56	28° Υ 56'45	
minimum elong	-10086 Jun 20 j 03:30	14° Υ 16'35 0°34'41	max. Earth dist.	-10079 Jul 04 j 02:32	29° Υ 29'12	31.29591 AU
morning rise	-10086 Jul 05 j 14:46	14° Υ 51'06				
retrograde	-10086 Sep 29 j 20:44	16° Υ 42'52	conjunction	-10079 Jul 05 j 00:16	29° Υ 31'15	1°14'02

Attention, astronomical year style is used: The year -10079 in astronomical counting style is the year 10080 BCE in historical counting style.

minimum elong	-10079 Jul 05 j 00:15	29° Υ 31'15	1°14'16	min. Earth dist.	-10072 Jan 15 j 21:11	13° δ 36'40	29.32077 AU
	-10079 Jul 17 j 19:57	0° δ		direct	-10072 Apr 05 j 16:18	12° δ 13'33	
morning rise	-10079 Jul 20 j 07:35	0° δ 05'29		evening set	-10072 Jul 04 j 10:53	14° δ 09'10	
retrograde	-10079 Oct 14 j 18:07	1° δ 57'40					
opposition	-10078 Jan 01 j 04:05	0° δ 35'49	1°21'52	conjunction	-10072 Jul 19 j 16:45	14° δ 43'21	1°48'12
min. Earth dist.	-10078 Jan 01 j 23:59	0° δ 34'28	29.29749 AU	minimum elong	-10072 Jul 19 j 16:44	14° δ 43'21	1°48'34
	-10078 Jan 23 j 21:05	30° κ Υ		max. Earth dist.	-10072 Jul 19 j 00:45	14° δ 41'51	31.32169 AU
direct	-10078 Mar 23 j 15:33	29° Υ 11'10			-10072 Jul 27 j 01:41	15° δ	
	-10078 May 18 j 20:51	0° δ		morning rise	-10072 Aug 03 j 20:27	15° δ 17'22	
evening set	-10078 Jun 21 j 23:58	1° δ 07'04		retrograde	-10072 Oct 29 j 19:59	17° δ 10'20	
				opposition	-10071 Jan 16 j 17:58	15° δ 48'25	1°57'54
conjunction	-10078 Jul 07 j 09:44	1° δ 41'30	1°19'17	min. Earth dist.	-10071 Jan 17 j 08:32	15° δ 47'26	29.32469 AU
minimum elong	-10078 Jul 07 j 09:44	1° δ 41'30	1°19'32		-10071 Feb 17 j 14:51	15° κ δ	
max. Earth dist.	-10078 Jul 06 j 13:18	1° δ 39'35	31.29764 AU	direct	-10071 Apr 08 j 03:11	14° δ 24'19	
morning rise	-10078 Jul 22 j 16:22	2° δ 15'42			-10071 May 25 j 14:17	15° δ	
retrograde	-10078 Oct 17 j 04:18	4° δ 07'58		evening set	-10071 Jul 06 j 20:37	16° δ 19'53	
opposition	-10077 Jan 03 j 16:18	2° δ 46'04	1°27'25	max. Earth dist.	-10071 Jul 21 j 11:33	16° δ 52'40	31.32483 AU
min. Earth dist.	-10077 Jan 04 j 12:27	2° δ 44'42	29.29959 AU				
direct	-10077 Mar 26 j 03:33	1° δ 21'27		conjunction	-10071 Jul 22 j 02:03	16° δ 54'02	1°52'31
evening set	-10077 Jun 24 j 09:53	3° δ 17'17		minimum elong	-10071 Jul 22 j 02:02	16° δ 54'02	1°52'54
				morning rise	-10071 Aug 06 j 05:05	17° δ 28'00	
conjunction	-10077 Jul 09 j 18:56	3° δ 51'40	1°24'26	retrograde	-10071 Nov 01 j 05:08	19° δ 21'07	
minimum elong	-10077 Jul 09 j 18:55	3° δ 51'40	1°24'42	opposition	-10070 Jan 19 j 06:28	17° δ 59'10	2°02'26
max. Earth dist.	-10077 Jul 08 j 23:15	3° δ 49'49	31.30010 AU	min. Earth dist.	-10070 Jan 19 j 21:24	17° δ 58'10	29.32722 AU
morning rise	-10077 Jul 25 j 01:04	4° δ 25'50		direct	-10070 Apr 10 j 14:33	16° δ 35'09	
retrograde	-10077 Oct 19 j 15:55	6° δ 18'11		evening set	-10070 Jul 09 j 06:29	18° δ 30'39	
opposition	-10076 Jan 06 j 04:25	4° δ 56'15	1°32'51				
min. Earth dist.	-10076 Jan 06 j 22:40	4° δ 55'00	29.30250 AU	conjunction	-10070 Jul 24 j 11:11	19° δ 04'45	1°56'41
direct	-10076 Mar 27 j 16:07	3° δ 31'42		minimum elong	-10070 Jul 24 j 11:10	19° δ 04'45	1°57'04
evening set	-10076 Jun 25 j 19:48	5° δ 27'28		max. Earth dist.	-10070 Jul 23 j 20:29	19° δ 03'22	31.32663 AU
max. Earth dist.	-10076 Jul 10 j 09:18	6° δ 00'02	31.30341 AU	morning rise	-10070 Aug 08 j 13:55	19° δ 38'42	
				retrograde	-10070 Nov 03 j 16:31	21° δ 31'55	
conjunction	-10076 Jul 11 j 04:12	6° δ 01'49	1°29'27	opposition	-10069 Jan 21 j 19:06	20° δ 09'57	2°06'47
minimum elong	-10076 Jul 11 j 04:11	6° δ 01'49	1°29'44	min. Earth dist.	-10069 Jan 22 j 08:25	20° δ 09'03	29.32832 AU
morning rise	-10076 Jul 26 j 09:48	6° δ 35'56		direct	-10069 Apr 13 j 01:46	18° δ 45'58	
retrograde	-10076 Oct 21 j 02:28	8° δ 28'24		evening set	-10069 Jul 11 j 16:04	20° δ 41'23	
opposition	-10075 Jan 07 j 16:33	7° δ 06'27	1°38'09				
min. Earth dist.	-10075 Jan 08 j 10:41	7° δ 05'13	29.30648 AU	conjunction	-10069 Jul 26 j 20:18	21° δ 15'27	2°00'41
direct	-10075 Mar 30 j 02:35	5° δ 41'59		minimum elong	-10069 Jul 26 j 20:18	21° δ 15'27	2°01'05
evening set	-10075 Jun 28 j 05:33	7° δ 37'43		max. Earth dist.	-10069 Jul 26 j 06:33	21° δ 14'09	31.32682 AU
				morning rise	-10069 Aug 10 j 22:31	21° δ 49'22	
conjunction	-10075 Jul 13 j 13:25	8° δ 12'01	1°34'21	retrograde	-10069 Nov 06 j 02:54	23° δ 42'43	
minimum elong	-10075 Jul 13 j 13:24	8° δ 12'01	1°34'40	opposition	-10068 Jan 24 j 07:56	22° δ 20'40	2°10'58
max. Earth dist.	-10075 Jul 12 j 20:00	8° δ 10'23	31.30777 AU	min. Earth dist.	-10068 Jan 24 j 21:42	22° δ 19'45	29.32791 AU
morning rise	-10075 Jul 28 j 18:28	8° δ 46'06		direct	-10068 Apr 14 j 13:07	20° δ 56'44	
retrograde	-10075 Oct 23 j 12:31	10° δ 38'41		evening set	-10068 Jul 13 j 01:43	22° δ 52'03	
opposition	-10074 Jan 10 j 04:43	9° δ 16'44	1°43'19				
min. Earth dist.	-10074 Jan 10 j 21:29	9° δ 15'36	29.31110 AU	conjunction	-10068 Jul 28 j 05:25	23° δ 26'05	2°04'30
direct	-10074 Apr 01 j 16:12	7° δ 52'22		minimum elong	-10068 Jul 28 j 05:24	23° δ 26'05	2°04'55
evening set	-10074 Jun 30 j 15:24	9° δ 48'04		max. Earth dist.	-10068 Jul 27 j 16:15	23° δ 24'50	31.32575 AU
				morning rise	-10068 Aug 12 j 07:16	23° δ 59'58	
conjunction	-10074 Jul 15 j 22:29	10° δ 22'19	1°39'06	retrograde	-10068 Nov 07 j 14:18	25° δ 53'24	
minimum elong	-10074 Jul 15 j 22:28	10° δ 22'19	1°39'26	opposition	-10067 Jan 25 j 20:26	24° δ 31'17	2°14'58
max. Earth dist.	-10074 Jul 15 j 05:04	10° δ 20'41	31.31255 AU	min. Earth dist.	-10067 Jan 26 j 08:37	24° δ 30'28	29.32625 AU
morning rise	-10074 Jul 31 j 03:07	10° δ 56'23		direct	-10067 Apr 17 j 00:51	23° δ 07'21	
retrograde	-10074 Oct 26 j 00:17	12° δ 49'05		evening set	-10067 Jul 15 j 11:13	25° δ 02'35	
opposition	-10073 Jan 12 j 17:01	11° δ 27'09	1°48'20				
min. Earth dist.	-10073 Jan 13 j 09:07	11° δ 26'04	29.31611 AU	conjunction	-10067 Jul 30 j 14:23	25° δ 36'34	2°08'09
direct	-10073 Apr 04 j 03:38	10° δ 02'53		minimum elong	-10067 Jul 30 j 14:23	25° δ 36'34	2°08'36
evening set	-10073 Jul 03 j 01:06	11° δ 58'33		max. Earth dist.	-10067 Jul 30 j 01:38	25° δ 35'22	31.32351 AU
				morning rise	-10067 Aug 14 j 15:56	26° δ 10'26	
conjunction	-10073 Jul 18 j 07:44	12° δ 32'47	1°43'44	retrograde	-10067 Nov 10 j 01:19	28° δ 03'58	
minimum elong	-10073 Jul 18 j 07:43	12° δ 32'46	1°44'05	opposition	-10066 Jan 28 j 09:10	26° δ 41'45	2°18'46
max. Earth dist.	-10073 Jul 17 j 16:05	12° δ 31'18	31.31741 AU	min. Earth dist.	-10066 Jan 28 j 21:24	26° δ 40'56	29.32382 AU
morning rise	-10073 Aug 02 j 11:43	13° δ 06'48		direct	-10066 Apr 19 j 11:32	25° δ 17'50	
retrograde	-10073 Oct 28 j 09:29	14° δ 59'39		evening set	-10066 Jul 17 j 20:30	27° δ 12'58	
opposition	-10072 Jan 15 j 05:31	13° δ 37'44	1°53'12				

Attention, astronomical year style is used: The year -10066 in astronomical counting style is the year 10067 BCE in historical counting style.

conjunction	-10066 Aug 01 j 23:15	27° 8 46'54	2°11'36	max. Earth dist.	-10060 Aug 13 j 22:49	10° II 47'59	31.31393 AU
minimum elong	-10066 Aug 01 j 23:14	27° 8 46'54	2°12'03	morning rise	-10060 Aug 29 j 03:31	11° II 22'14	
max. Earth dist.	-10066 Aug 01 j 12:09	27° 8 45'52	31.32082 AU	retrograde	-10060 Nov 25 j 04:28	13° II 16'45	
morning rise	-10066 Aug 17 j 00:19	28° 8 20'45		opposition	-10059 Feb 13 j 02:38	11° II 54'13	2°39'32
	-10066 Oct 14 j 04:03	0° II		min. Earth dist.	-10059 Feb 13 j 07:40	11° II 53'53	29.31553 AU
retrograde	-10066 Nov 12 j 11:44	0° II 14'23		direct	-10059 May 04 j 21:14	10° II 30'45	
	-10066 Dec 12 j 13:41	30° 8		evening set	-10059 Aug 01 j 12:50	12° II 25'25	
opposition	-10065 Jan 30 j 21:52	28° 8 52'05	2°22'22				
min. Earth dist.	-10065 Jan 31 j 08:34	28° 8 51'21	29.32109 AU	conjunction	-10059 Aug 16 j 12:51	12° II 59'11	2°30'19
direct	-10065 Apr 22 j 01:30	27° 8 28'10		minimum elong	-10059 Aug 16 j 12:51	12° II 59'11	2°30'52
evening set	-10065 Jul 20 j 05:53	29° 8 23'12		max. Earth dist.	-10059 Aug 16 j 08:39	12° II 58'48	31.31277 AU
				morning rise	-10059 Aug 31 j 12:16	13° II 32'57	
conjunction	-10065 Aug 04 j 08:01	29° 8 57'07	2°14'52	retrograde	-10059 Nov 27 j 16:27	15° II 27'37	
minimum elong	-10065 Aug 04 j 08:00	29° 8 57'07	2°15'21	opposition	-10058 Feb 15 j 15:33	14° II 05'04	2°41'37
max. Earth dist.	-10065 Aug 03 j 21:02	29° 8 56'05	31.31818 AU	min. Earth dist.	-10058 Feb 15 j 18:54	14° II 04'51	29.31379 AU
	-10065 Aug 05 j 14:36	0° II		direct	-10058 May 07 j 08:00	12° II 41'40	
morning rise	-10065 Aug 19 j 08:54	0° II 30'55		evening set	-10058 Aug 03 j 22:02	14° II 36'17	
retrograde	-10065 Nov 14 j 23:56	2° II 24'40					
opposition	-10064 Feb 02 j 10:36	1° II 02'17	2°25'45	conjunction	-10058 Aug 18 j 21:41	15° II 10'03	2°32'10
min. Earth dist.	-10064 Feb 02 j 20:16	1° II 01'38	29.31891 AU	minimum elong	-10058 Aug 18 j 21:40	15° II 10'03	2°32'42
	-10064 Mar 16 j 20:16	30° 8		max. Earth dist.	-10058 Aug 18 j 17:44	15° II 09'41	31.31029 AU
direct	-10064 Apr 23 j 12:54	29° 8 38'25		morning rise	-10058 Sep 02 j 21:01	15° II 43'48	
	-10064 May 30 j 02:07	0° II		retrograde	-10058 Nov 30 j 04:30	17° II 38'39	
evening set	-10064 Jul 21 j 14:58	1° II 33'21		opposition	-10057 Feb 18 j 04:44	16° II 16'03	2°43'28
				min. Earth dist.	-10057 Feb 18 j 08:09	16° II 15'50	29.31075 AU
conjunction	-10064 Aug 05 j 16:50	2° II 07'14	2°17'57	direct	-10057 May 09 j 18:03	14° II 52'43	
minimum elong	-10064 Aug 05 j 16:49	2° II 07'14	2°18'26	evening set	-10057 Aug 06 j 07:14	16° II 47'16	
max. Earth dist.	-10064 Aug 05 j 08:01	2° II 06'24	31.31623 AU				
morning rise	-10064 Aug 20 j 17:16	2° II 41'02		conjunction	-10057 Aug 21 j 06:47	17° II 21'00	2°33'47
retrograde	-10064 Nov 16 j 09:06	4° II 34'54		minimum elong	-10057 Aug 21 j 06:46	17° II 21'00	2°34'21
opposition	-10063 Feb 03 j 23:21	3° II 12'28	2°28'57	max. Earth dist.	-10057 Aug 21 j 04:19	17° II 20'47	31.30647 AU
min. Earth dist.	-10063 Feb 04 j 08:04	3° II 11'52	29.31735 AU	morning rise	-10057 Sep 05 j 05:54	17° II 54'46	
direct	-10063 Apr 26 j 01:33	1° II 48'38		retrograde	-10057 Dec 02 j 16:16	19° II 49'45	
evening set	-10063 Jul 24 j 00:15	3° II 43'31		opposition	-10056 Feb 20 j 17:46	18° II 27'05	2°45'06
				min. Earth dist.	-10056 Feb 20 j 19:56	18° II 26'57	29.30614 AU
conjunction	-10063 Aug 08 j 01:32	4° II 17'22	2°20'50	direct	-10056 May 11 j 07:21	17° II 03'47	
minimum elong	-10063 Aug 08 j 01:32	4° II 17'22	2°21'20	evening set	-10056 Aug 07 j 16:25	18° II 58'15	
max. Earth dist.	-10063 Aug 07 j 16:50	4° II 16'32	31.31507 AU				
morning rise	-10063 Aug 23 j 01:51	4° II 51'09		conjunction	-10056 Aug 22 j 15:39	19° II 32'00	2°35'12
retrograde	-10063 Nov 18 j 20:04	6° II 45'09		minimum elong	-10056 Aug 22 j 15:38	19° II 32'00	2°35'45
opposition	-10062 Feb 06 j 11:56	5° II 22'41	2°31'55	max. Earth dist.	-10056 Aug 22 j 12:50	19° II 31'44	31.30112 AU
min. Earth dist.	-10062 Feb 06 j 19:00	5° II 22'12	29.31664 AU	morning rise	-10056 Sep 06 j 14:55	20° II 05'45	
direct	-10062 Apr 28 j 12:38	3° II 58'56		retrograde	-10056 Dec 04 j 05:41	22° II 00'52	
evening set	-10062 Jul 26 j 09:21	5° II 53'45		opposition	-10055 Feb 22 j 06:50	20° II 38'07	2°46'29
				min. Earth dist.	-10055 Feb 22 j 08:24	20° II 38'01	29.30019 AU
conjunction	-10062 Aug 10 j 10:24	6° II 27'35	2°23'31	direct	-10055 May 13 j 18:29	19° II 14'50	
minimum elong	-10062 Aug 10 j 10:23	6° II 27'35	2°24'01	evening set	-10055 Aug 10 j 01:26	21° II 09'13	
max. Earth dist.	-10062 Aug 10 j 03:42	6° II 26'57	31.31456 AU				
morning rise	-10062 Aug 25 j 10:19	7° II 01'21		conjunction	-10055 Aug 25 j 00:40	21° II 42'57	2°36'23
retrograde	-10062 Nov 21 j 05:51	8° II 55'31		minimum elong	-10055 Aug 25 j 00:40	21° II 42'57	2°36'57
opposition	-10061 Feb 09 j 00:53	7° II 33'01	2°34'41	max. Earth dist.	-10055 Aug 24 j 23:38	21° II 42'51	31.29446 AU
min. Earth dist.	-10061 Feb 09 j 07:41	7° II 32'34	29.31639 AU	morning rise	-10055 Sep 08 j 23:44	22° II 16'42	
direct	-10061 May 01 j 00:06	6° II 09'22		retrograde	-10055 Dec 06 j 15:17	24° II 11'56	
evening set	-10061 Jul 28 j 18:27	8° II 04'07		opposition	-10054 Feb 24 j 19:49	22° II 49'05	2°47'38
				min. Earth dist.	-10054 Feb 24 j 20:47	22° II 49'01	29.29298 AU
conjunction	-10061 Aug 12 j 19:02	8° II 37'56	2°26'00	direct	-10054 May 16 j 07:02	21° II 25'49	
minimum elong	-10061 Aug 12 j 19:02	8° II 37'56	2°26'31	evening set	-10054 Aug 12 j 10:31	23° II 20'05	
max. Earth dist.	-10061 Aug 12 j 12:49	8° II 37'21	31.31442 AU				
morning rise	-10061 Aug 27 j 18:51	9° II 11'42		conjunction	-10054 Aug 27 j 09:28	23° II 53'48	2°37'21
retrograde	-10061 Nov 23 j 17:35	11° II 06'02		minimum elong	-10054 Aug 27 j 09:27	23° II 53'48	2°37'55
opposition	-10060 Feb 11 j 13:44	9° II 43'32	2°37'13	max. Earth dist.	-10054 Aug 27 j 08:27	23° II 53'42	31.28702 AU
min. Earth dist.	-10060 Feb 11 j 18:31	9° II 43'13	29.31622 AU	morning rise	-10054 Sep 11 j 08:43	24° II 27'34	
direct	-10060 May 02 j 10:58	8° II 19'58		retrograde	-10054 Dec 09 j 02:54	26° II 22'54	
evening set	-10060 Jul 30 j 03:38	10° II 14'41		opposition	-10053 Feb 27 j 08:52	24° II 59'57	2°48'33
				min. Earth dist.	-10053 Feb 27 j 08:16	24° II 59'59	29.28544 AU
conjunction	-10060 Aug 14 j 03:56	10° II 48'28	2°28'16	direct	-10053 May 18 j 19:11	23° II 36'40	
minimum elong	-10060 Aug 14 j 03:55	10° II 48'28	2°28'47	evening set	-10053 Aug 14 j 19:16	25° II 30'49	

Attention, astronomical year style is used: The year -10053 in astronomical counting style is the year 10054 BCE in historical counting style.

conjunction	-10053 Aug 29 j 18:16	26°II04'33	2°38'05	retrograde	-10047 Dec 24 j 12:19	11°☾39'14	
minimum elong	-10053 Aug 29 j 18:16	26°II04'33	2°38'40	opposition	-10046 Mar 15 j 03:54	10°☾15'50	2°48'07
max. Earth dist.	-10053 Aug 29 j 19:11	26°II04'38	31.27936 AU	min. Earth dist.	-10046 Mar 14 j 19:50	10°☾16'23	29.24792 AU
morning rise	-10053 Sep 13 j 17:28	26°II38'19		direct	-10046 Jun 02 j 22:57	8°☾52'52	
retrograde	-10053 Dec 11 j 13:07	28°II33'46		evening set	-10046 Aug 29 j 09:28	10°☾46'29	
opposition	-10052 Feb 29 j 21:59	27°II10'42	2°49'13				
min. Earth dist.	-10052 Feb 29 j 21:04	27°II10'46	29.27799 AU	conjunction	-10046 Sep 13 j 08:50	11°☾20'15	2°36'53
direct	-10052 May 20 j 07:35	25°II47'26		minimum elong	-10046 Sep 13 j 08:50	11°☾20'15	2°37'27
evening set	-10052 Aug 16 j 04:14	27°II41'29		max. Earth dist.	-10046 Sep 13 j 17:27	11°☾21'04	31.24305 AU
				morning rise	-10046 Sep 28 j 09:22	11°☾54'10	
conjunction	-10052 Aug 31 j 03:06	28°II15'12	2°38'36	retrograde	-10046 Dec 26 j 23:21	13°☾50'35	
minimum elong	-10052 Aug 31 j 03:05	28°II15'12	2°39'10	opposition	-10045 Mar 17 j 17:06	12°☾27'09	2°47'05
max. Earth dist.	-10052 Aug 31 j 04:43	28°II15'21	31.27226 AU	min. Earth dist.	-10045 Mar 17 j 08:26	12°☾27'44	29.24252 AU
morning rise	-10052 Sep 15 j 02:28	28°II48'59		direct	-10045 Jun 05 j 10:55	11°☾04'14	
	-10052 Oct 21 j 05:47	0°☾		evening set	-10045 Aug 31 j 18:34	12°☾57'46	
retrograde	-10052 Dec 13 j 00:13	0°☾44'32					
	-10051 Feb 06 j 14:02	30°☾II		conjunction	-10045 Sep 15 j 18:01	13°☾31'34	2°35'47
opposition	-10051 Mar 03 j 10:43	29°II21'23	2°49'39	minimum elong	-10045 Sep 15 j 18:01	13°☾31'34	2°36'22
min. Earth dist.	-10051 Mar 03 j 07:34	29°II21'36	29.27130 AU	max. Earth dist.	-10045 Sep 16 j 02:29	13°☾32'22	31.23720 AU
direct	-10051 May 22 j 18:51	27°II58'08		morning rise	-10045 Sep 30 j 19:02	14°☾05'31	
evening set	-10051 Aug 18 j 13:05	29°II52'05		retrograde	-10045 Dec 29 j 12:51	16°☾02'04	
	-10051 Aug 22 j 02:16	0°☾		opposition	-10044 Mar 19 j 06:15	14°☾38'34	2°45'48
				min. Earth dist.	-10044 Mar 18 j 20:25	14°☾39'13	29.23603 AU
conjunction	-10051 Sep 02 j 11:56	0°☾25'48	2°38'53	direct	-10044 Jun 06 j 22:36	13°☾15'41	
minimum elong	-10051 Sep 02 j 11:57	0°☾25'48	2°39'28	evening set	-10044 Sep 02 j 03:43	15°☾09'08	
max. Earth dist.	-10051 Sep 02 j 14:48	0°☾26'05	31.26595 AU				
morning rise	-10051 Sep 17 j 11:25	0°☾59'36		conjunction	-10044 Sep 17 j 03:29	15°☾42'58	2°34'29
retrograde	-10051 Dec 15 j 10:21	2°☾55'17		minimum elong	-10044 Sep 17 j 03:29	15°☾42'58	2°35'03
opposition	-10050 Mar 05 j 23:48	1°☾32'04	2°49'50	max. Earth dist.	-10044 Sep 17 j 13:12	15°☾43'53	31.22996 AU
min. Earth dist.	-10050 Mar 05 j 20:23	1°☾32'18	29.26556 AU	morning rise	-10044 Oct 02 j 04:47	16°☾16'57	
direct	-10050 May 25 j 05:09	0°☾08'52		retrograde	-10044 Dec 31 j 00:17	18°☾13'37	
evening set	-10050 Aug 20 j 21:48	2°☾02'43		opposition	-10043 Mar 21 j 19:18	16°☾50'02	2°44'17
				min. Earth dist.	-10043 Mar 21 j 09:42	16°☾50'41	29.22809 AU
conjunction	-10050 Sep 04 j 20:43	2°☾36'27	2°38'57	direct	-10043 Jun 09 j 10:41	15°☾27'11	
minimum elong	-10050 Sep 04 j 20:43	2°☾36'27	2°39'31	evening set	-10043 Sep 04 j 12:51	17°☾20'33	
max. Earth dist.	-10050 Sep 05 j 01:09	2°☾36'52	31.26075 AU				
morning rise	-10050 Sep 19 j 20:18	3°☾10'15		conjunction	-10043 Sep 19 j 12:52	17°☾54'24	2°32'57
retrograde	-10050 Dec 17 j 21:46	5°☾06'05		minimum elong	-10043 Sep 19 j 12:52	17°☾54'24	2°33'31
opposition	-10049 Mar 08 j 12:47	3°☾42'49	2°49'47	max. Earth dist.	-10043 Sep 19 j 22:55	17°☾55'21	31.22154 AU
min. Earth dist.	-10049 Mar 08 j 07:08	3°☾43'12	29.26071 AU	morning rise	-10043 Oct 04 j 14:36	18°☾28'25	
direct	-10049 May 27 j 15:44	2°☾19'39		retrograde	-10042 Jan 02 j 12:14	20°☾25'11	
evening set	-10049 Aug 23 j 06:43	4°☾13'27		opposition	-10042 Mar 24 j 08:22	19°☾01'31	2°42'32
				min. Earth dist.	-10042 Mar 23 j 21:01	19°☾02'17	29.21903 AU
conjunction	-10049 Sep 07 j 05:35	4°☾47'11	2°38'46	direct	-10042 Jun 11 j 22:18	17°☾38'40	
minimum elong	-10049 Sep 07 j 05:35	4°☾47'11	2°39'22	evening set	-10042 Sep 06 j 21:49	19°☾31'56	
max. Earth dist.	-10049 Sep 07 j 10:35	4°☾47'39	31.25625 AU				
morning rise	-10049 Sep 22 j 05:29	5°☾21'01		conjunction	-10042 Sep 21 j 22:07	20°☾05'48	2°31'12
retrograde	-10049 Dec 20 j 10:18	7°☾17'00		minimum elong	-10042 Sep 21 j 22:07	20°☾05'48	2°31'46
opposition	-10048 Mar 10 j 01:50	5°☾53'41	2°49'28	max. Earth dist.	-10042 Sep 22 j 08:52	20°☾06'50	31.21202 AU
min. Earth dist.	-10048 Mar 09 j 19:57	5°☾54'04	29.25655 AU	morning rise	-10042 Oct 07 j 00:20	20°☾39'52	
direct	-10048 May 29 j 01:11	4°☾30'35		retrograde	-10041 Jan 04 j 22:45	22°☾36'44	
evening set	-10048 Aug 24 j 15:29	6°☾24'18		opposition	-10041 Mar 26 j 21:34	21°☾12'59	2°40'33
				min. Earth dist.	-10041 Mar 26 j 10:25	21°☾13'44	29.20922 AU
conjunction	-10048 Sep 08 j 14:37	6°☾58'03	2°38'22	direct	-10041 Jun 14 j 09:04	19°☾50'08	
minimum elong	-10048 Sep 08 j 14:37	6°☾58'03	2°38'57	evening set	-10041 Sep 09 j 06:49	21°☾43'17	
max. Earth dist.	-10048 Sep 08 j 21:34	6°☾58'42	31.25221 AU				
morning rise	-10048 Sep 23 j 14:38	7°☾31'54		conjunction	-10041 Sep 24 j 07:33	22°☾17'11	2°29'14
retrograde	-10048 Dec 21 j 22:22	9°☾28'02		minimum elong	-10041 Sep 24 j 07:33	22°☾17'11	2°29'48
opposition	-10047 Mar 12 j 14:50	8°☾04'41	2°48'55	max. Earth dist.	-10041 Sep 24 j 19:42	22°☾18'20	31.20219 AU
min. Earth dist.	-10047 Mar 12 j 07:27	8°☾05'11	29.25239 AU	morning rise	-10041 Oct 09 j 10:09	22°☾51'17	
direct	-10047 May 31 j 13:10	6°☾41'39		retrograde	-10040 Jan 07 j 10:10	24°☾48'14	
evening set	-10047 Aug 27 j 00:30	8°☾35'19		opposition	-10040 Mar 28 j 10:23	23°☾24'23	2°38'20
				min. Earth dist.	-10040 Mar 27 j 21:21	23°☾25'16	29.19932 AU
conjunction	-10047 Sep 10 j 23:34	9°☾09'04	2°37'44	direct	-10040 Jun 15 j 20:00	22°☾01'31	
minimum elong	-10047 Sep 10 j 23:34	9°☾09'04	2°38'19	evening set	-10040 Sep 10 j 15:56	23°☾54'35	
max. Earth dist.	-10047 Sep 11 j 06:21	9°☾09'43	31.24793 AU				
morning rise	-10047 Sep 25 j 23:58	9°☾42'58		conjunction	-10040 Sep 25 j 16:54	24°☾28'31	2°27'03

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

minimum elong	-10040 Sep 25 j 16:54	24° Ω 28'31	2°27'36	min. Earth dist.	-10033 Apr 13 j 09:29	8° Ω 47'51	29.14886 AU
max. Earth dist.	-10040 Sep 26 j 05:19	24° Ω 29'42	31.19247 AU	opposition	-10033 Apr 14 j 04:45	8° Ω 46'33	2°16'32
morning rise	-10040 Oct 10 j 20:09	25° Ω 02'40		direct	-10033 Jul 01 j 23:33	7° Ω 23'58	
retrograde	-10039 Jan 08 j 22:31	26° Ω 59'43		evening set	-10033 Sep 26 j 08:28	9° Ω 16'37	
opposition	-10039 Mar 30 j 23:23	25° Ω 35'46	2°35'53				
min. Earth dist.	-10039 Mar 30 j 10:11	25° Ω 36'40	29.18996 AU	conjunction	-10033 Oct 11 j 12:48	9° Ω 50'50	2°05'56
direct	-10039 Jun 18 j 05:38	24° Ω 12'55		minimum elong	-10033 Oct 11 j 12:49	9° Ω 50'50	2°06'26
evening set	-10039 Sep 13 j 00:50	26° Ω 05'54		max. Earth dist.	-10033 Oct 12 j 07:36	9° Ω 52'37	31.14361 AU
				morning rise	-10033 Oct 26 j 20:12	10° Ω 25'21	
conjunction	-10039 Sep 28 j 02:20	26° Ω 39'51	2°24'39	retrograde	-10032 Jan 25 j 16:01	12° Ω 23'12	
minimum elong	-10039 Sep 28 j 02:20	26° Ω 39'52	2°25'12	opposition	-10032 Apr 15 j 17:41	10° Ω 58'57	2°12'33
max. Earth dist.	-10039 Sep 28 j 16:48	26° Ω 41'14	31.18353 AU	min. Earth dist.	-10032 Apr 14 j 23:03	11° Ω 00'13	29.14140 AU
morning rise	-10039 Oct 13 j 05:54	27° Ω 14'02		direct	-10032 Jul 03 j 12:29	9° Ω 36'23	
retrograde	-10038 Jan 11 j 10:21	29° Ω 11'13		evening set	-10032 Sep 27 j 18:06	11° Ω 28'59	
opposition	-10038 Apr 02 j 12:13	27° Ω 47'11	2°33'13				
min. Earth dist.	-10038 Apr 01 j 21:21	27° Ω 48'12	29.18141 AU	conjunction	-10032 Oct 12 j 23:08	12° Ω 03'15	2°02'08
direct	-10038 Jun 20 j 17:07	26° Ω 24'22		minimum elong	-10032 Oct 12 j 23:09	12° Ω 03'15	2°02'36
evening set	-10038 Sep 15 j 10:00	28° Ω 17'17		max. Earth dist.	-10032 Oct 13 j 18:52	12° Ω 05'08	31.13564 AU
				morning rise	-10032 Oct 28 j 07:07	12° Ω 37'49	
conjunction	-10038 Sep 30 j 11:45	28° Ω 51'16	2°22'03	retrograde	-10031 Jan 27 j 04:38	14° Ω 35'45	
minimum elong	-10038 Sep 30 j 11:45	28° Ω 51'16	2°22'35	min. Earth dist.	-10031 Apr 17 j 10:32	13° Ω 12'48	29.13261 AU
max. Earth dist.	-10038 Oct 01 j 02:13	28° Ω 52'38	31.17564 AU	opposition	-10031 Apr 18 j 06:32	13° Ω 11'26	2°08'24
morning rise	-10038 Oct 15 j 16:03	29° Ω 25'30		direct	-10031 Jul 05 j 22:11	11° Ω 48'53	
	-10038 Oct 31 j 20:43	0° Ω		evening set	-10031 Sep 30 j 03:50	13° Ω 41'25	
retrograde	-10037 Jan 14 j 00:27	1° Ω 22'47					
min. Earth dist.	-10037 Apr 04 j 09:23	29° Ω 59'47	29.17406 AU	conjunction	-10031 Oct 15 j 09:18	14° Ω 15'43	1°58'09
	-10037 Apr 04 j 06:07	30° Ω		minimum elong	-10031 Oct 15 j 09:19	14° Ω 15'44	1°58'37
opposition	-10037 Apr 05 j 01:11	29° Ω 58'43	2°30'19	max. Earth dist.	-10031 Oct 16 j 04:36	14° Ω 17'33	31.12623 AU
direct	-10037 Jun 23 j 02:01	28° Ω 35'55		morning rise	-10031 Oct 30 j 18:06	14° Ω 50'21	
	-10037 Sep 04 j 08:55	0° Ω			-10031 Nov 04 j 03:39	15° Ω	
evening set	-10037 Sep 17 j 18:59	0° Ω 28'46		retrograde	-10030 Jan 29 j 16:40	16° Ω 48'21	
				opposition	-10030 Apr 20 j 19:32	15° Ω 23'57	2°04'02
conjunction	-10037 Oct 02 j 21:22	1° Ω 02'49	2°19'14	min. Earth dist.	-10030 Apr 20 j 00:03	15° Ω 25'17	29.12253 AU
minimum elong	-10037 Oct 02 j 21:23	1° Ω 02'49	2°19'46		-10030 May 05 j 15:48	15° Ω	
max. Earth dist.	-10037 Oct 03 j 13:53	1° Ω 04'22	31.16876 AU	direct	-10030 Jul 08 j 08:07	14° Ω 01'23	
morning rise	-10037 Oct 18 j 02:07	1° Ω 37'05			-10030 Sep 06 j 05:45	15° Ω	
retrograde	-10036 Jan 16 j 12:04	3° Ω 34'30		evening set	-10030 Oct 02 j 13:30	15° Ω 53'50	
opposition	-10036 Apr 06 j 14:05	2° Ω 10'23	2°27'12				
min. Earth dist.	-10036 Apr 05 j 21:30	2° Ω 11'30	29.16745 AU	conjunction	-10030 Oct 17 j 19:46	16° Ω 28'11	1°53'59
direct	-10036 Jun 24 j 13:22	0° Ω 47'38		minimum elong	-10030 Oct 17 j 19:47	16° Ω 28'11	1°54'26
evening set	-10036 Sep 19 j 04:15	2° Ω 40'27		max. Earth dist.	-10030 Oct 18 j 16:31	16° Ω 30'09	31.11568 AU
				morning rise	-10030 Nov 02 j 05:08	17° Ω 02'51	
conjunction	-10036 Oct 04 j 07:01	3° Ω 14'31	2°16'13	retrograde	-10029 Feb 01 j 03:56	19° Ω 00'55	
minimum elong	-10036 Oct 04 j 07:02	3° Ω 14'31	2°16'43	min. Earth dist.	-10029 Apr 22 j 11:51	17° Ω 37'49	29.11138 AU
max. Earth dist.	-10036 Oct 04 j 23:38	3° Ω 16'06	31.16260 AU	opposition	-10029 Apr 23 j 08:18	17° Ω 36'25	1°59'31
morning rise	-10036 Oct 19 j 12:29	3° Ω 48'52		direct	-10029 Jul 10 j 19:41	16° Ω 13'49	
retrograde	-10035 Jan 18 j 02:47	5° Ω 46'22		evening set	-10029 Oct 04 j 23:19	18° Ω 06'10	
min. Earth dist.	-10035 Apr 08 j 08:58	4° Ω 23'27	29.16143 AU				
opposition	-10035 Apr 09 j 02:49	4° Ω 22'14	2°23'51	conjunction	-10029 Oct 20 j 06:05	18° Ω 40'34	1°49'40
direct	-10035 Jun 27 j 00:40	2° Ω 59'33		minimum elong	-10029 Oct 20 j 06:06	18° Ω 40'35	1°50'06
evening set	-10035 Sep 21 j 13:32	4° Ω 52'19		max. Earth dist.	-10029 Oct 21 j 02:15	18° Ω 42'29	31.10434 AU
				morning rise	-10029 Nov 04 j 16:23	19° Ω 15'18	
conjunction	-10035 Oct 06 j 16:50	5° Ω 26'26	2°12'59	retrograde	-10028 Feb 03 j 17:32	21° Ω 13'24	
minimum elong	-10035 Oct 06 j 16:51	5° Ω 26'27	2°13'30	opposition	-10028 Apr 24 j 21:05	19° Ω 48'48	1°54'48
max. Earth dist.	-10035 Oct 07 j 10:51	5° Ω 28'09	31.15663 AU	min. Earth dist.	-10028 Apr 24 j 00:22	19° Ω 50'13	29.09982 AU
morning rise	-10035 Oct 21 j 22:52	6° Ω 00'50		direct	-10028 Jul 12 j 04:53	18° Ω 26'09	
retrograde	-10034 Jan 20 j 15:26	7° Ω 58'28		evening set	-10028 Oct 06 j 09:04	20° Ω 18'26	
opposition	-10034 Apr 11 j 15:50	6° Ω 34'18	2°20'18				
min. Earth dist.	-10034 Apr 10 j 22:06	6° Ω 35'30	29.15535 AU	conjunction	-10028 Oct 21 j 16:36	20° Ω 52'53	1°45'11
direct	-10034 Jun 29 j 12:08	5° Ω 11'40		minimum elong	-10028 Oct 21 j 16:37	20° Ω 52'53	1°45'36
evening set	-10034 Sep 23 j 22:50	7° Ω 04'23		max. Earth dist.	-10028 Oct 22 j 14:21	20° Ω 54'56	31.09273 AU
				morning rise	-10028 Nov 06 j 03:28	21° Ω 27'39	
conjunction	-10034 Oct 09 j 02:40	7° Ω 38'33	2°09'33	retrograde	-10027 Feb 05 j 05:04	23° Ω 25'48	
minimum elong	-10034 Oct 09 j 02:41	7° Ω 38'33	2°10'03	opposition	-10027 Apr 27 j 09:36	22° Ω 01'06	1°49'56
max. Earth dist.	-10034 Oct 09 j 21:12	7° Ω 40'18	31.15054 AU	min. Earth dist.	-10027 Apr 26 j 12:24	22° Ω 02'33	29.08826 AU
morning rise	-10034 Oct 24 j 09:21	8° Ω 13'00		direct	-10027 Jul 14 j 16:35	20° Ω 38'25	
retrograde	-10033 Jan 23 j 04:19	10° Ω 10'45		evening set	-10027 Oct 08 j 18:57	22° Ω 30'37	

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

conjunction	-10027 Oct 24 j 03:01	23°05'07	1°40'33	max. Earth dist.	-10021 Nov 07 j 22:06	6°02'30	31.03198 AU
minimum elong	-10027 Oct 24 j 03:02	23°05'07	1°40'57	morning rise	-10021 Nov 22 j 12:16	6°05'49	
max. Earth dist.	-10027 Oct 25 j 00:46	23°07'10	31.08165 AU	retrograde	-10020 Feb 21 j 23:51	8°05'42	
morning rise	-10027 Nov 08 j 14:44	23°03'57		min. Earth dist.	-10020 May 12 j 00:07	7°03'12	29.02871 AU
retrograde	-10026 Feb 07 j 19:44	25°03'08		opposition	-10020 May 13 j 00:49	7°02'30	1°11'35
opposition	-10026 Apr 29 j 22:10	24°01'21	1°44'54	direct	-10020 Jul 29 j 20:46	6°06'54	
min. Earth dist.	-10026 Apr 28 j 23:48	24°01'45	29.07756 AU	evening set	-10020 Oct 23 j 18:35	7°05'59	
direct	-10026 Jul 17 j 03:28	22°05'38					
evening set	-10026 Oct 11 j 04:43	24°04'47		conjunction	-10020 Nov 08 j 07:26	8°03'52	1°04'14
				minimum elong	-10020 Nov 08 j 07:26	8°03'52	1°04'30
conjunction	-10026 Oct 26 j 13:31	25°01'21	1°35'46	max. Earth dist.	-10020 Nov 09 j 08:22	8°03'13	31.02380 AU
minimum elong	-10026 Oct 26 j 13:31	25°01'21	1°36'09	morning rise	-10020 Nov 24 j 00:28	9°09'09	
max. Earth dist.	-10026 Oct 27 j 12:33	25°01'31	31.07140 AU	retrograde	-10019 Feb 23 j 13:50	11°07'50	
morning rise	-10026 Nov 11 j 01:56	25°02'14		opposition	-10019 May 15 j 13:10	9°04'52	1°05'36
retrograde	-10025 Feb 10 j 08:01	27°05'29		min. Earth dist.	-10019 May 14 j 12:44	9°04'33	29.02004 AU
opposition	-10025 May 02 j 10:47	26°02'38	1°39'42	direct	-10019 Aug 01 j 05:25	8°02'16	
min. Earth dist.	-10025 May 01 j 12:31	26°02'10	29.06777 AU	evening set	-10019 Oct 26 j 05:21	10°01'20	
direct	-10025 Jul 19 j 14:35	25°02'56					
evening set	-10025 Oct 13 j 14:43	26°05'02		conjunction	-10019 Nov 10 j 19:02	10°04'17	0°58'35
				minimum elong	-10019 Nov 10 j 19:02	10°04'17	0°58'50
conjunction	-10025 Oct 29 j 00:14	27°02'38	1°30'51	max. Earth dist.	-10019 Nov 11 j 20:55	10°04'43	31.01458 AU
minimum elong	-10025 Oct 29 j 00:15	27°02'39	1°31'13	morning rise	-10019 Nov 26 j 12:39	11°02'23	
max. Earth dist.	-10025 Oct 29 j 23:50	27°03'15	31.06231 AU	retrograde	-10018 Feb 26 j 01:43	13°02'21	
morning rise	-10025 Nov 13 j 13:25	28°04'36		min. Earth dist.	-10018 May 17 j 01:13	11°05'00	29.01017 AU
	-10024 Jan 30 j 10:40	0°00'		opposition	-10018 May 18 j 01:33	11°05'20	0°59'30
retrograde	-10024 Feb 12 j 21:45	0°02'54		direct	-10018 Aug 03 j 16:56	10°03'42	
	-10024 Feb 26 j 08:53	30°08'01		evening set	-10018 Oct 28 j 16:13	12°02'54	
opposition	-10024 May 03 j 23:04	28°03'01	1°34'21				
min. Earth dist.	-10024 May 02 j 23:15	28°03'39	29.05910 AU	conjunction	-10018 Nov 13 j 06:33	13°00'45	0°52'51
direct	-10024 Jul 21 j 01:53	27°01'59		minimum elong	-10018 Nov 13 j 06:34	13°00'45	0°53'05
evening set	-10024 Oct 15 j 00:50	29°07'24		max. Earth dist.	-10018 Nov 14 j 07:42	13°03'07	31.00435 AU
				morning rise	-10018 Nov 29 j 01:03	13°03'09	
conjunction	-10024 Oct 30 j 10:58	29°04'20	1°25'46	retrograde	-10017 Feb 28 j 16:29	15°03'45	
minimum elong	-10024 Oct 30 j 10:58	29°04'20	1°26'07	opposition	-10017 May 20 j 13:53	14°09'49	0°53'19
max. Earth dist.	-10024 Oct 31 j 10:52	29°04'42	31.05408 AU	min. Earth dist.	-10017 May 19 j 13:11	14°01'31	28.99938 AU
	-10024 Nov 07 j 09:13	0°00'		direct	-10017 Aug 06 j 03:55	12°04'08	
morning rise	-10024 Nov 15 j 00:58	0°01'06		evening set	-10017 Oct 31 j 03:15	14°03'10	
retrograde	-10023 Feb 14 j 10:26	2°01'52					
opposition	-10023 May 06 j 11:36	0°05'34	1°28'52	conjunction	-10017 Nov 15 j 18:18	15°01'43	0°47'02
min. Earth dist.	-10023 May 05 j 12:15	0°05'10	29.05122 AU	minimum elong	-10017 Nov 15 j 18:19	15°01'43	0°47'15
	-10023 Jun 08 j 09:29	30°08'01		max. Earth dist.	-10017 Nov 16 j 19:57	15°01'38	30.99315 AU
direct	-10023 Jul 23 j 12:37	29°02'54		morning rise	-10017 Dec 01 j 13:29	15°04'39	
	-10023 Sep 05 j 00:32	0°00'		retrograde	-10016 Mar 02 j 04:20	17°04'25	
evening set	-10023 Oct 17 j 10:51	1°01'58		min. Earth dist.	-10016 May 21 j 02:06	16°02'45	28.98789 AU
				opposition	-10016 May 22 j 01:59	16°02'15	0°47'04
conjunction	-10023 Nov 01 j 21:47	1°05'42	1°20'34	direct	-10016 Aug 07 j 14:42	15°00'30	
minimum elong	-10023 Nov 01 j 21:48	1°05'42	1°20'55	evening set	-10016 Nov 01 j 14:15	16°02'31	
max. Earth dist.	-10023 Nov 02 j 22:56	1°05'04	31.04664 AU				
morning rise	-10023 Nov 17 j 12:25	2°02'47		conjunction	-10016 Nov 17 j 06:02	17°02'37	0°41'09
retrograde	-10022 Feb 16 j 23:52	4°02'14		minimum elong	-10016 Nov 17 j 06:03	17°02'37	0°41'20
opposition	-10022 May 08 j 24:00	3°03'19	1°23'14	max. Earth dist.	-10016 Nov 18 j 07:44	17°03'02	30.98173 AU
min. Earth dist.	-10022 May 07 j 23:14	3°05'01	29.04383 AU	morning rise	-10016 Dec 03 j 01:55	18°03'06	
direct	-10022 Jul 26 j 00:15	1°04'41		retrograde	-10015 Mar 04 j 18:42	20°01'51	
evening set	-10022 Oct 19 j 21:18	3°03'45		opposition	-10015 May 24 j 14:00	18°03'36	0°40'45
				min. Earth dist.	-10015 May 23 j 13:05	18°03'20	28.97649 AU
conjunction	-10022 Nov 04 j 08:46	4°07'32	1°15'14	direct	-10015 Aug 10 j 02:44	17°01'34	
minimum elong	-10022 Nov 04 j 08:46	4°07'32	1°15'33	evening set	-10015 Nov 04 j 01:15	19°05'47	
max. Earth dist.	-10022 Nov 05 j 09:29	4°09'52	31.03939 AU				
morning rise	-10022 Nov 20 j 00:19	4°04'21		conjunction	-10015 Nov 19 j 17:35	19°04'55	0°35'13
retrograde	-10021 Feb 19 j 12:08	6°04'14		minimum elong	-10015 Nov 19 j 17:36	19°04'55	0°35'23
opposition	-10021 May 11 j 12:28	5°01'18	1°17'28	max. Earth dist.	-10015 Nov 20 j 19:17	19°04'20	30.97053 AU
min. Earth dist.	-10021 May 10 j 12:23	5°01'57	29.03656 AU	morning rise	-10015 Dec 05 j 14:14	20°01'62	
direct	-10021 Jul 28 j 09:39	3°05'42		retrograde	-10014 Mar 07 j 07:59	22°01'51	
evening set	-10021 Oct 22 j 07:46	5°04'54		min. Earth dist.	-10014 May 26 j 01:55	20°01'33	28.96573 AU
				opposition	-10014 May 27 j 02:08	20°04'53	0°34'22
conjunction	-10021 Nov 06 j 20:07	6°02'36	1°09'48	direct	-10014 Aug 12 j 14:22	19°02'01	
minimum elong	-10021 Nov 06 j 20:07	6°02'36	1°10'05	evening set	-10014 Nov 06 j 12:22	21°01'59	

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

conjunction	-10014 Nov 22 j 05:31	21° <u>0</u> 54'11	0°29'13	direct	-10008 Aug 25 j 06:19	2° <u>0</u> 47'41	
minimum elong	-10014 Nov 22 j 05:31	21° <u>0</u> 54'11	0°29'22	evening set	-10008 Nov 19 j 10:15	4° <u>0</u> 39'53	
max. Earth dist.	-10014 Nov 23 j 08:11	21° <u>0</u> 56'41	30.96037 AU				
morning rise	-10014 Dec 08 j 02:43	22° <u>0</u> 29'46		conjunction	-10008 Dec 05 j 07:00	5° <u>0</u> 15'20	-0°07'32
retrograde	-10013 Mar 09 j 21:28	24° <u>0</u> 28'31		minimum elong	-10008 Dec 05 j 06:59	5° <u>0</u> 15'20	0°07'31
opposition	-10013 May 29 j 13:54	23° <u>0</u> 03'07	0°27'55	behind sun begin	-10008 Dec 05 j 01:03	5° <u>0</u> 14'48	
min. Earth dist.	-10013 May 28 j 12:27	23° <u>0</u> 04'53	28.95611 AU	behind sun end	-10008 Dec 05 j 12:56	5° <u>0</u> 15'52	
direct	-10013 Aug 15 j 02:51	21° <u>0</u> 40'12		max. Earth dist.	-10008 Dec 06 j 09:55	5° <u>0</u> 17'52	30.92175 AU
evening set	-10013 Nov 08 j 23:45	23° <u>0</u> 32'11		morning rise	-10008 Dec 21 j 07:53	5° <u>0</u> 51'12	
				retrograde	-10007 Mar 23 j 01:04	7° <u>0</u> 50'05	
conjunction	-10013 Nov 24 j 17:24	24° <u>0</u> 07'25	0°23'11	opposition	-10007 Jun 11 j 12:33	6° <u>0</u> 24'40	-0°11'22
minimum elong	-10013 Nov 24 j 17:24	24° <u>0</u> 07'25	0°23'18	min. Earth dist.	-10007 Jun 10 j 12:23	6° <u>0</u> 26'21	28.91932 AU
max. Earth dist.	-10013 Nov 25 j 19:30	24° <u>0</u> 09'52	30.95140 AU	direct	-10007 Aug 27 j 16:25	5° <u>0</u> 01'41	
morning rise	-10013 Dec 10 j 15:25	24° <u>0</u> 43'03		evening set	-10007 Nov 21 j 22:20	6° <u>0</u> 53'57	
retrograde	-10012 Mar 11 j 09:37	26° <u>0</u> 41'49					
min. Earth dist.	-10012 May 30 j 01:03	25° <u>0</u> 18'06	28.94786 AU	conjunction	-10007 Dec 07 j 19:41	7° <u>0</u> 29'27	-0°13'40
opposition	-10012 May 31 j 01:51	25° <u>0</u> 16'22	0°21'26	minimum elong	-10007 Dec 07 j 19:42	7° <u>0</u> 29'27	0°13'40
direct	-10012 Aug 16 j 12:35	23° <u>0</u> 53'26		behind sun begin	-10007 Dec 07 j 16:13	7° <u>0</u> 29'08	
evening set	-10012 Nov 10 j 11:00	25° <u>0</u> 45'25		behind sun end	-10007 Dec 07 j 23:10	7° <u>0</u> 29'45	
				max. Earth dist.	-10007 Dec 08 j 22:06	7° <u>0</u> 31'55	30.91602 AU
conjunction	-10012 Nov 26 j 05:26	26° <u>0</u> 20'42	0°17'06	morning rise	-10007 Dec 23 j 21:06	8° <u>0</u> 05'20	
minimum elong	-10012 Nov 26 j 05:26	26° <u>0</u> 20'42	0°17'12	retrograde	-10006 Mar 25 j 15:54	10° <u>0</u> 04'15	
max. Earth dist.	-10012 Nov 27 j 08:53	26° <u>0</u> 23'17	30.94379 AU	min. Earth dist.	-10006 Jun 12 j 23:40	8° <u>0</u> 40'33	28.91313 AU
morning rise	-10012 Dec 12 j 03:54	26° <u>0</u> 56'23		opposition	-10006 Jun 14 j 00:17	8° <u>0</u> 38'49	-0°17'56
retrograde	-10011 Mar 13 j 21:39	28° <u>0</u> 55'09		direct	-10006 Aug 30 j 04:28	7° <u>0</u> 15'49	
min. Earth dist.	-10011 Jun 01 j 12:00	27° <u>0</u> 31'29	28.94081 AU	evening set	-10006 Nov 24 j 10:51	9° <u>0</u> 08'08	
opposition	-10011 Jun 02 j 13:34	27° <u>0</u> 29'42	0°14'55				
direct	-10011 Aug 19 j 00:12	26° <u>0</u> 06'46		conjunction	-10006 Dec 10 j 08:41	9° <u>0</u> 43'41	-0°19'47
evening set	-10011 Nov 12 j 22:33	27° <u>0</u> 58'46		minimum elong	-10006 Dec 10 j 08:41	9° <u>0</u> 43'41	0°19'48
				max. Earth dist.	-10006 Dec 11 j 10:14	9° <u>0</u> 46'04	30.90926 AU
conjunction	-10011 Nov 28 j 17:28	28° <u>0</u> 34'06	0°11'00	morning rise	-10006 Dec 26 j 10:40	10° <u>0</u> 19'37	
minimum elong	-10011 Nov 28 j 17:28	28° <u>0</u> 34'06	0°11'05	retrograde	-10005 Mar 28 j 05:28	12° <u>0</u> 18'30	
behind sun begin	-10011 Nov 28 j 12:37	28° <u>0</u> 33'40		opposition	-10005 Jun 16 j 11:59	10° <u>0</u> 53'04	-0°24'28
behind sun end	-10011 Nov 28 j 22:19	28° <u>0</u> 34'32		min. Earth dist.	-10005 Jun 15 j 12:55	10° <u>0</u> 54'41	28.90593 AU
max. Earth dist.	-10011 Nov 29 j 20:01	28° <u>0</u> 36'36	30.93743 AU	direct	-10005 Sep 01 j 15:59	9° <u>0</u> 30'00	
morning rise	-10011 Dec 14 j 16:44	29° <u>0</u> 09'50		evening set	-10005 Nov 26 j 23:21	11° <u>0</u> 22'22	
	-10010 Jan 08 j 02:00	0° <u>0</u>					
retrograde	-10010 Mar 16 j 11:27	1° <u>0</u> 08'38		conjunction	-10005 Dec 12 j 21:51	11° <u>0</u> 57'58	-0°25'52
	-10010 May 25 j 22:27	30° <u>0</u> 00'00		minimum elong	-10005 Dec 12 j 21:51	11° <u>0</u> 57'58	0°25'56
min. Earth dist.	-10010 Jun 04 j 00:00	29° <u>0</u> 44'57	28.93501 AU	max. Earth dist.	-10005 Dec 13 j 23:27	12° <u>0</u> 00'22	30.90168 AU
opposition	-10010 Jun 05 j 01:24	29° <u>0</u> 43'10	0°08'22	morning rise	-10005 Dec 29 j 00:14	12° <u>0</u> 33'55	
direct	-10010 Aug 21 j 09:11	28° <u>0</u> 20'13		retrograde	-10004 Mar 29 j 19:21	14° <u>0</u> 32'47	
	-10010 Nov 09 j 18:17	0° <u>0</u>		opposition	-10004 Jun 17 j 23:31	13° <u>0</u> 07'20	-0°30'58
evening set	-10010 Nov 15 j 10:07	0° <u>0</u> 12'17		min. Earth dist.	-10004 Jun 16 j 23:58	13° <u>0</u> 08'59	28.89794 AU
				direct	-10004 Sep 03 j 05:00	11° <u>0</u> 44'12	
conjunction	-10010 Dec 01 j 05:48	0° <u>0</u> 47'39	0°04'54	evening set	-10004 Nov 28 j 11:57	13° <u>0</u> 36'37	
minimum elong	-10010 Dec 01 j 05:47	0° <u>0</u> 47'39	0°04'57				
behind sun begin	-10010 Nov 30 j 23:26	0° <u>0</u> 47'05		conjunction	-10004 Dec 14 j 10:47	14° <u>0</u> 12'14	-0°31'56
behind sun end	-10010 Dec 01 j 12:08	0° <u>0</u> 48'13		minimum elong	-10004 Dec 14 j 10:46	14° <u>0</u> 12'14	0°32'01
max. Earth dist.	-10010 Dec 02 j 09:24	0° <u>0</u> 50'15	30.93198 AU	max. Earth dist.	-10004 Dec 15 j 11:08	14° <u>0</u> 14'31	30.89342 AU
morning rise	-10010 Dec 17 j 05:32	1° <u>0</u> 23'26		morning rise	-10004 Dec 30 j 13:44	14° <u>0</u> 48'14	
retrograde	-10009 Mar 18 j 22:44	3° <u>0</u> 22'16		retrograde	-10003 Apr 01 j 08:12	16° <u>0</u> 47'04	
min. Earth dist.	-10009 Jun 06 j 11:56	1° <u>0</u> 58'35	28.92976 AU	opposition	-10003 Jun 20 j 11:06	15° <u>0</u> 21'34	-0°37'25
opposition	-10009 Jun 07 j 13:09	1° <u>0</u> 56'49	0°01'48	min. Earth dist.	-10003 Jun 19 j 12:48	15° <u>0</u> 23'08	28.88971 AU
direct	-10009 Aug 23 j 20:20	0° <u>0</u> 33'52		direct	-10003 Sep 05 j 15:25	13° <u>0</u> 58'22	
desc. node	-10009 Sep 14 j 15:46	0° <u>0</u> 42'10		evening set	-10003 Dec 01 j 00:30	15° <u>0</u> 50'50	
evening set	-10009 Nov 17 j 22:06	2° <u>0</u> 25'59					
				conjunction	-10003 Dec 16 j 23:59	16° <u>0</u> 26'29	-0°37'56
conjunction	-10009 Dec 03 j 18:16	3° <u>0</u> 01'24	-0°01'22	minimum elong	-10003 Dec 16 j 23:58	16° <u>0</u> 26'29	0°38'03
minimum elong	-10009 Dec 03 j 18:17	3° <u>0</u> 01'24	0°01'20	max. Earth dist.	-10003 Dec 18 j 01:08	16° <u>0</u> 28'50	30.88528 AU
behind sun begin	-10009 Dec 03 j 11:46	3° <u>0</u> 00'49		morning rise	-10002 Jan 02 j 03:12	17° <u>0</u> 02'30	
behind sun end	-10009 Dec 04 j 00:48	3° <u>0</u> 01'59		retrograde	-10002 Apr 03 j 21:14	19° <u>0</u> 01'17	
max. Earth dist.	-10009 Dec 04 j 20:58	3° <u>0</u> 03'54	30.92698 AU	opposition	-10002 Jun 22 j 22:25	17° <u>0</u> 35'46	-0°43'49
morning rise	-10009 Dec 19 j 18:41	3° <u>0</u> 37'13		min. Earth dist.	-10002 Jun 21 j 23:53	17° <u>0</u> 37'21	28.88180 AU
retrograde	-10008 Mar 20 j 12:50	5° <u>0</u> 36'04		direct	-10002 Sep 08 j 03:53	16° <u>0</u> 12'30	
min. Earth dist.	-10008 Jun 07 j 23:27	4° <u>0</u> 12'25	28.92477 AU	evening set	-10002 Dec 03 j 13:17	18° <u>0</u> 05'01	
opposition	-10008 Jun 09 j 00:45	4° <u>0</u> 10'39	-0°04'47				

Attention, astronomical year style is used: The year -10002 in astronomical counting style is the year 10003 BCE in historical counting style.

conjunction	-10002 Dec 19 j 13:05	18° <u>♂</u> 40'41	-0°43'53	max. Earth dist.	-9995 Jan 02 j 20:46	2° <u>♂</u> 09'42	30.85706 AU
minimum elong	-10002 Dec 19 j 13:05	18° <u>♂</u> 40'41	0°44'01	morning rise	-9995 Jan 18 j 03:42	2° <u>♂</u> 43'45	
max. Earth dist.	-10002 Dec 20 j 12:52	18° <u>♂</u> 42'55	30.87777 AU	retrograde	-9995 Apr 19 j 15:16	4° <u>♂</u> 42'24	
morning rise	-10001 Jan 04 j 16:54	19° <u>♂</u> 16'44		min. Earth dist.	-9995 Jul 07 j 08:57	3° <u>♂</u> 18'28	28.85707 AU
retrograde	-10001 Apr 06 j 10:33	21° <u>♂</u> 15'30		opposition	-9995 Jul 08 j 05:02	3° <u>♂</u> 17'03	-1°26'17
min. Earth dist.	-10001 Jun 24 j 11:48	19° <u>♂</u> 51'30	28.87488 AU	direct	-9995 Sep 23 j 08:36	1° <u>♂</u> 53'32	
opposition	-10001 Jun 25 j 09:49	19° <u>♂</u> 49'57	-0°50'09	evening set	-9995 Dec 19 j 09:50	3° <u>♂</u> 46'47	
direct	-10001 Sep 10 j 13:46	18° <u>♂</u> 26'37					
evening set	-10001 Dec 06 j 02:07	20° <u>♂</u> 19'12		conjunction	-9994 Jan 04 j 12:14	4° <u>♂</u> 22'38	-1°23'17
				minimum elong	-9994 Jan 04 j 12:13	4° <u>♂</u> 22'38	1°23'33
conjunction	-10001 Dec 22 j 02:29	20° <u>♂</u> 54'54	-0°49'46	max. Earth dist.	-9994 Jan 05 j 09:05	4° <u>♂</u> 24'35	30.85535 AU
minimum elong	-10001 Dec 22 j 02:28	20° <u>♂</u> 54'54	0°49'55	morning rise	-9994 Jan 20 j 17:59	4° <u>♂</u> 58'48	
max. Earth dist.	-10001 Dec 23 j 03:01	20° <u>♂</u> 57'12	30.87127 AU	retrograde	-9994 Apr 22 j 05:12	6° <u>♂</u> 57'26	
morning rise	-10000 Jan 07 j 06:28	21° <u>♂</u> 30'59		opposition	-9994 Jul 10 j 16:15	5° <u>♂</u> 32'06	-1°31'55
retrograde	-10000 Apr 07 j 21:14	23° <u>♂</u> 29'42		min. Earth dist.	-9994 Jul 09 j 21:54	5° <u>♂</u> 33'24	28.85518 AU
opposition	-10000 Jun 26 j 20:59	22° <u>♂</u> 04'09	-0°56'24	direct	-9994 Sep 25 j 19:18	4° <u>♂</u> 08'33	
min. Earth dist.	-10000 Jun 25 j 23:15	22° <u>♂</u> 05'41	28.86906 AU	evening set	-9994 Dec 21 j 23:39	6° <u>♂</u> 01'55	
direct	-10000 Sep 12 j 01:17	20° <u>♂</u> 40'46					
evening set	-10000 Dec 07 j 15:04	22° <u>♂</u> 33'27		conjunction	-9993 Jan 07 j 02:32	6° <u>♂</u> 37'47	-1°28'29
				minimum elong	-9993 Jan 07 j 02:32	6° <u>♂</u> 37'47	1°28'46
conjunction	-10000 Dec 23 j 15:46	23° <u>♂</u> 09'10	-0°55'35	max. Earth dist.	-9993 Jan 07 j 23:25	6° <u>♂</u> 39'44	30.85292 AU
minimum elong	-10000 Dec 23 j 15:45	23° <u>♂</u> 09'10	0°55'45	morning rise	-9993 Jan 23 j 08:20	7° <u>♂</u> 13'57	
max. Earth dist.	-10000 Dec 24 j 15:15	23° <u>♂</u> 11'22	30.86621 AU	retrograde	-9993 Apr 24 j 19:23	9° <u>♂</u> 12'31	
morning rise	-9999 Jan 08 j 20:13	23° <u>♂</u> 45'16		min. Earth dist.	-9993 Jul 12 j 09:28	7° <u>♂</u> 48'29	28.85221 AU
retrograde	-9999 Apr 10 j 10:40	25° <u>♂</u> 43'58		opposition	-9993 Jul 13 j 03:26	7° <u>♂</u> 47'13	-1°37'24
min. Earth dist.	-9999 Jun 28 j 10:16	24° <u>♂</u> 19'59	28.86480 AU	direct	-9993 Sep 28 j 08:59	6° <u>♂</u> 23'36	
opposition	-9999 Jun 29 j 08:15	24° <u>♂</u> 18'26	-1°02'35	evening set	-9993 Dec 24 j 13:47	8° <u>♂</u> 17'04	
direct	-9999 Sep 14 j 11:08	22° <u>♂</u> 55'00					
evening set	-9999 Dec 10 j 03:57	24° <u>♂</u> 47'47		conjunction	-9992 Jan 09 j 16:45	8° <u>♂</u> 52'57	-1°33'33
				minimum elong	-9992 Jan 09 j 16:44	8° <u>♂</u> 52'57	1°33'52
conjunction	-9999 Dec 26 j 05:05	25° <u>♂</u> 23'32	-1°01'19	max. Earth dist.	-9992 Jan 10 j 11:23	8° <u>♂</u> 54'42	30.84939 AU
minimum elong	-9999 Dec 26 j 05:04	25° <u>♂</u> 23'32	1°01'30	morning rise	-9992 Jan 25 j 22:50	9° <u>♂</u> 29'07	
max. Earth dist.	-9999 Dec 27 j 05:00	25° <u>♂</u> 25'46	30.86250 AU	retrograde	-9992 Apr 26 j 08:29	11° <u>♂</u> 27'37	
morning rise	-9998 Jan 11 j 09:48	25° <u>♂</u> 59'38		opposition	-9992 Jul 14 j 14:32	10° <u>♂</u> 02'19	-1°42'45
retrograde	-9998 Apr 12 j 22:28	27° <u>♂</u> 58'20		min. Earth dist.	-9992 Jul 13 j 21:46	10° <u>♂</u> 03'30	28.84833 AU
opposition	-9998 Jul 01 j 19:34	26° <u>♂</u> 32'50	-1°08'40	direct	-9992 Sep 29 j 20:05	8° <u>♂</u> 38'37	
min. Earth dist.	-9998 Jun 30 j 22:37	26° <u>♂</u> 34'18	28.86177 AU	evening set	-9992 Dec 26 j 03:44	10° <u>♂</u> 32'10	
direct	-9998 Sep 16 j 20:41	25° <u>♂</u> 09'23					
evening set	-9998 Dec 12 j 17:09	27° <u>♂</u> 02'16		conjunction	-9991 Jan 11 j 07:06	11° <u>♂</u> 08'04	-1°38'28
				minimum elong	-9991 Jan 11 j 07:05	11° <u>♂</u> 08'04	1°38'48
conjunction	-9998 Dec 28 j 18:43	27° <u>♂</u> 38'02	-1°06'58	max. Earth dist.	-9991 Jan 12 j 01:49	11° <u>♂</u> 09'49	30.84502 AU
minimum elong	-9998 Dec 28 j 18:42	27° <u>♂</u> 38'02	1°07'10	morning rise	-9991 Jan 27 j 13:09	11° <u>♂</u> 44'14	
max. Earth dist.	-9998 Dec 29 j 18:03	27° <u>♂</u> 40'13	30.86010 AU	retrograde	-9991 Apr 28 j 20:06	13° <u>♂</u> 42'38	
morning rise	-9997 Jan 13 j 23:45	28° <u>♂</u> 14'10		min. Earth dist.	-9991 Jul 16 j 09:42	12° <u>♂</u> 18'28	28.84373 AU
	-9997 Mar 18 j 11:30	0° <u>♂</u>		opposition	-9991 Jul 17 j 01:35	12° <u>♂</u> 17'20	-1°47'56
retrograde	-9997 Apr 15 j 12:20	0° <u>♂</u> 12'51		direct	-9991 Oct 02 j 08:26	10° <u>♂</u> 53'33	
	-9997 May 13 j 20:46	30° <u>♂</u>		evening set	-9991 Dec 28 j 17:44	12° <u>♂</u> 47'11	
min. Earth dist.	-9997 Jul 03 j 09:15	28° <u>♂</u> 48'54	28.85986 AU				
opposition	-9997 Jul 04 j 06:37	28° <u>♂</u> 47'23	-1°14'39	conjunction	-9990 Jan 13 j 21:15	13° <u>♂</u> 23'05	-1°43'15
direct	-9997 Sep 19 j 08:45	27° <u>♂</u> 23'55		minimum elong	-9990 Jan 13 j 21:14	13° <u>♂</u> 23'04	1°43'36
evening set	-9997 Dec 15 j 06:37	29° <u>♂</u> 16'55		max. Earth dist.	-9990 Jan 14 j 14:10	13° <u>♂</u> 24'40	30.84034 AU
				morning rise	-9990 Jan 30 j 03:34	13° <u>♂</u> 59'15	
conjunction	-9997 Dec 31 j 08:27	29° <u>♂</u> 52'44	-1°12'31		-9990 Mar 01 j 11:46	15° <u>♂</u>	
minimum elong	-9997 Dec 31 j 08:26	29° <u>♂</u> 52'44	1°12'45	retrograde	-9990 May 01 j 09:41	15° <u>♂</u> 57'33	
max. Earth dist.	-9996 Jan 01 j 07:04	29° <u>♂</u> 54'51	30.85840 AU		-9990 Jul 02 j 22:12	15° <u>♂</u>	
	-9996 Jan 03 j 14:10	0° <u>♂</u>		opposition	-9990 Jul 19 j 12:32	14° <u>♂</u> 32'14	-1°52'57
morning rise	-9996 Jan 16 j 13:46	0° <u>♂</u> 28'52		min. Earth dist.	-9990 Jul 18 j 21:01	14° <u>♂</u> 33'20	28.83912 AU
retrograde	-9996 Apr 17 j 01:13	2° <u>♂</u> 27'33		direct	-9990 Oct 04 j 19:25	13° <u>♂</u> 08'21	
opposition	-9996 Jul 05 j 17:54	1° <u>♂</u> 02'08	-1°20'31		-9990 Dec 30 j 09:07	15° <u>♂</u>	
min. Earth dist.	-9996 Jul 04 j 22:06	1° <u>♂</u> 03'32	28.85847 AU	evening set	-9990 Dec 31 j 07:53	15° <u>♂</u> 02'04	
	-9996 Aug 16 j 00:19	30° <u>♂</u>					
direct	-9996 Sep 20 j 19:51	29° <u>♂</u> 38'39		conjunction	-9989 Jan 16 j 11:40	15° <u>♂</u> 37'58	-1°47'51
	-9996 Oct 26 j 04:17	0° <u>♂</u>		minimum elong	-9989 Jan 16 j 11:39	15° <u>♂</u> 37'58	1°48'13
evening set	-9996 Dec 16 j 20:01	1° <u>♂</u> 31'46		max. Earth dist.	-9989 Jan 17 j 04:32	15° <u>♂</u> 39'33	30.83571 AU
				morning rise	-9989 Feb 01 j 17:59	16° <u>♂</u> 14'09	
conjunction	-9995 Jan 01 j 22:16	2° <u>♂</u> 07'36	-1°17'57	retrograde	-9989 May 03 j 20:32	18° <u>♂</u> 12'21	
minimum elong	-9995 Jan 01 j 22:15	2° <u>♂</u> 07'36	1°18'12	opposition	-9989 Jul 21 j 23:22	16° <u>♂</u> 47'02	-1°57'48

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

min. Earth dist.	-9989 Jul 21 j 09:19	16° M 48'02	28.83488 AU	conjunction	-9982 Feb 01 j 16:59	1° 7 22'22	-2°15'10
direct	-9989 Oct 07 j 05:55	15° M 23'02		minimum elong	-9982 Feb 01 j 16:58	1° 7 22'22	2°15'40
evening set	-9988 Jan 02 j 22:04	17° M 16'52		max. Earth dist.	-9982 Feb 02 j 04:49	1° 7 23'29	30.83397 AU
				morning rise	-9982 Feb 17 j 23:12	1° 7 58'30	
conjunction	-9988 Jan 19 j 02:02	17° M 52'46	-1°52'18	retrograde	-9982 May 19 j 15:08	3° 7 56'12	
minimum elong	-9988 Jan 19 j 02:01	17° M 52'46	1°52'42	opposition	-9982 Aug 06 j 02:36	2° 7 31'18	-2°26'17
max. Earth dist.	-9988 Jan 19 j 17:52	17° M 54'15	30.83190 AU	min. Earth dist.	-9982 Aug 05 j 17:12	2° 7 31'58	28.83680 AU
morning rise	-9988 Feb 04 j 08:27	18° M 28'56		direct	-9982 Oct 22 j 18:03	1° 7 07'00	
retrograde	-9988 May 05 j 09:12	20° M 27'03		evening set	-9981 Jan 19 j 03:03	3° 7 01'49	
opposition	-9988 Jul 23 j 10:10	19° M 01'44	-2°02'27				
min. Earth dist.	-9988 Jul 22 j 19:48	19° M 02'46	28.83166 AU	conjunction	-9981 Feb 04 j 07:49	3° 7 37'47	-2°18'18
direct	-9988 Oct 08 j 18:20	17° M 37'39		minimum elong	-9981 Feb 04 j 07:49	3° 7 37'47	2°18'46
evening set	-9987 Jan 04 j 12:09	19° M 31'36		max. Earth dist.	-9981 Feb 04 j 17:19	3° 7 38'40	30.83602 AU
				morning rise	-9981 Feb 20 j 14:07	4° 7 13'53	
conjunction	-9987 Jan 20 j 16:13	20° M 07'31	-1°56'35	retrograde	-9981 May 22 j 05:34	6° 7 11'31	
minimum elong	-9987 Jan 20 j 16:12	20° M 07'30	1°56'58	opposition	-9981 Aug 08 j 13:16	4° 7 46'41	-2°29'30
max. Earth dist.	-9987 Jan 21 j 07:26	20° M 08'56	30.82911 AU	min. Earth dist.	-9981 Aug 08 j 04:34	4° 7 47'18	28.83860 AU
morning rise	-9987 Feb 05 j 22:39	20° M 43'40		direct	-9981 Oct 25 j 05:22	3° 7 22'20	
retrograde	-9987 May 07 j 20:41	22° M 41'43		evening set	-9980 Jan 21 j 17:54	5° 7 17'17	
opposition	-9987 Jul 25 j 21:04	21° M 16'25	-2°06'56				
min. Earth dist.	-9987 Jul 25 j 08:09	21° M 17'21	28.82973 AU	conjunction	-9980 Feb 06 j 22:49	5° 7 53'15	-2°21'12
direct	-9987 Oct 11 j 05:14	19° M 52'16		minimum elong	-9980 Feb 06 j 22:48	5° 7 53'15	2°21'42
evening set	-9986 Jan 07 j 02:18	21° M 46'20		max. Earth dist.	-9980 Feb 07 j 07:50	5° 7 54'05	30.83723 AU
				morning rise	-9980 Feb 23 j 04:53	6° 7 29'21	
conjunction	-9986 Jan 23 j 06:39	22° M 22'15	-2°00'41	retrograde	-9980 May 23 j 16:25	8° 7 26'52	
minimum elong	-9986 Jan 23 j 06:38	22° M 22'15	2°01'06	opposition	-9980 Aug 10 j 00:08	7° 7 02'06	-2°32'30
max. Earth dist.	-9986 Jan 23 j 21:35	22° M 23'39	30.82789 AU	min. Earth dist.	-9980 Aug 09 j 17:16	7° 7 02'35	28.83946 AU
morning rise	-9986 Feb 08 j 13:02	22° M 58'24		direct	-9980 Oct 26 j 16:21	5° 7 37'40	
retrograde	-9986 May 10 j 10:01	24° M 56'22		evening set	-9979 Jan 23 j 08:34	7° 7 32'44	
opposition	-9986 Jul 28 j 07:40	23° M 31'08	-2°11'13				
min. Earth dist.	-9986 Jul 27 j 18:21	23° M 32'05	28.82924 AU	conjunction	-9979 Feb 08 j 13:31	8° 7 08'41	-2°23'54
direct	-9986 Oct 13 j 17:50	22° M 06'56		minimum elong	-9979 Feb 08 j 13:30	8° 7 08'41	2°24'24
evening set	-9985 Jan 09 j 16:44	24° M 01'08		max. Earth dist.	-9979 Feb 08 j 20:48	8° 7 09'22	30.83775 AU
				morning rise	-9979 Feb 24 j 19:34	8° 7 44'46	
conjunction	-9985 Jan 25 j 21:05	24° M 37'04	-2°04'35	retrograde	-9979 May 26 j 04:37	10° 7 42'10	
minimum elong	-9985 Jan 25 j 21:05	24° M 37'04	2°05'01	opposition	-9979 Aug 12 j 10:46	9° 7 17'26	-2°35'16
max. Earth dist.	-9985 Jan 26 j 10:37	24° M 38'20	30.82801 AU	min. Earth dist.	-9979 Aug 12 j 04:05	9° 7 17'55	28.83967 AU
morning rise	-9985 Feb 11 j 03:36	25° M 13'12		direct	-9979 Oct 29 j 05:07	7° 7 52'55	
retrograde	-9985 May 12 j 23:18	27° M 11'07		evening set	-9978 Jan 25 j 23:23	9° 7 48'05	
opposition	-9985 Jul 30 j 18:30	25° M 45'57	-2°15'18				
min. Earth dist.	-9985 Jul 30 j 06:38	25° M 46'47	28.83014 AU	conjunction	-9978 Feb 11 j 04:23	10° 7 24'02	-2°26'22
direct	-9985 Oct 16 j 04:47	24° M 21'43		minimum elong	-9978 Feb 11 j 04:23	10° 7 24'02	2°26'54
evening set	-9984 Jan 12 j 07:04	26° M 16'04		max. Earth dist.	-9978 Feb 11 j 10:37	10° 7 24'37	30.83762 AU
				morning rise	-9978 Feb 27 j 10:19	11° 7 00'06	
conjunction	-9984 Jan 28 j 11:41	26° M 52'00	-2°08'19	retrograde	-9978 May 28 j 15:39	12° 7 57'22	
minimum elong	-9984 Jan 28 j 11:40	26° M 52'00	2°08'47	opposition	-9978 Aug 14 j 21:23	11° 7 32'39	-2°37'47
max. Earth dist.	-9984 Jan 29 j 01:28	26° M 53'17	30.82939 AU	min. Earth dist.	-9978 Aug 14 j 16:42	11° 7 32'59	28.83954 AU
morning rise	-9984 Feb 13 j 18:00	27° M 28'08		direct	-9978 Oct 31 j 15:47	10° 7 08'02	
retrograde	-9984 May 14 j 13:03	29° M 25'59		evening set	-9977 Jan 28 j 14:10	12° 7 03'17	
opposition	-9984 Aug 01 j 05:07	28° M 00'54	-2°19'10				
min. Earth dist.	-9984 Jul 31 j 17:29	28° M 01'43	28.83197 AU	conjunction	-9977 Feb 13 j 19:17	12° 7 39'14	-2°28'37
direct	-9984 Oct 17 j 18:27	26° M 36'39		minimum elong	-9977 Feb 13 j 19:16	12° 7 39'14	2°29'09
evening set	-9983 Jan 13 j 21:40	28° M 31'09		max. Earth dist.	-9977 Feb 14 j 00:35	12° 7 39'43	30.83752 AU
				morning rise	-9977 Mar 02 j 01:04	13° 7 15'16	
conjunction	-9983 Jan 30 j 02:13	29° M 07'06	-2°11'51	retrograde	-9977 May 31 j 03:48	15° 7 12'23	
minimum elong	-9983 Jan 30 j 02:12	29° M 07'06	2°12'18	opposition	-9977 Aug 17 j 07:50	13° 7 47'42	-2°40'04
max. Earth dist.	-9983 Jan 30 j 14:01	29° M 08'12	30.83155 AU	min. Earth dist.	-9977 Aug 17 j 03:06	13° 7 48'02	28.83958 AU
morning rise	-9983 Feb 15 j 08:39	29° M 43'14		direct	-9977 Nov 03 j 04:31	12° 7 22'58	
	-9983 Feb 23 j 03:58	0° 7		evening set	-9976 Jan 31 j 04:55	14° 7 18'19	
retrograde	-9983 May 17 j 02:24	1° 7 41'01					
opposition	-9983 Aug 03 j 15:51	0° 7 16'01	-2°22'50	conjunction	-9976 Feb 16 j 09:55	14° 7 54'15	-2°30'39
min. Earth dist.	-9983 Aug 03 j 05:20	0° 7 16'46	28.83449 AU	minimum elong	-9976 Feb 16 j 09:54	14° 7 54'15	2°31'12
	-9983 Aug 13 j 02:12	30° K M		max. Earth dist.	-9976 Feb 16 j 13:42	14° 7 54'36	30.83774 AU
direct	-9983 Oct 20 j 05:29	28° M 51'45		morning rise	-9976 Mar 03 j 15:37	15° 7 30'16	
	-9983 Dec 24 j 21:14	0° 7		retrograde	-9976 Jun 01 j 15:12	17° 7 27'15	
evening set	-9982 Jan 16 j 12:09	0° 7 46'25		opposition	-9976 Aug 18 j 18:23	16° 7 02'35	-2°42'07
				min. Earth dist.	-9976 Aug 18 j 15:13	16° 7 02'48	28.84038 AU

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

direct	-9976 Nov 04 j 16:22	14° \mathring{A} 37'45		minimum elong	-9969 Mar 04 j 16:55	0° \mathring{B} 37'35	2°38'48
evening set	-9975 Feb 01 j 19:30	16° \mathring{A} 33'12		max. Earth dist.	-9969 Mar 04 j 14:46	0° \mathring{B} 37'23	30.87342 AU
				morning rise	-9969 Mar 20 j 21:23	1° \mathring{B} 13'28	
conjunction	-9975 Feb 18 j 00:40	17° \mathring{A} 09'07	-2°32'26	retrograde	-9969 Jun 18 j 05:29	3° \mathring{B} 09'33	
minimum elong	-9975 Feb 18 j 00:40	17° \mathring{A} 09'07	2°32'59	opposition	-9969 Sep 03 j 19:29	1° \mathring{B} 45'28	-2°49'19
max. Earth dist.	-9975 Feb 18 j 04:32	17° \mathring{A} 09'29	30.83905 AU	min. Earth dist.	-9969 Sep 03 j 22:16	1° \mathring{B} 45'16	28.87933 AU
morning rise	-9975 Mar 06 j 06:06	17° \mathring{A} 45'07		direct	-9969 Nov 21 j 05:27	0° \mathring{B} 20'23	
retrograde	-9975 Jun 04 j 03:20	19° \mathring{A} 41'57		evening set	-9968 Feb 19 j 02:37	2° \mathring{B} 16'38	
opposition	-9975 Aug 21 j 04:45	18° \mathring{A} 17'18	-2°43'54				
min. Earth dist.	-9975 Aug 21 j 01:46	18° \mathring{A} 17'31	28.84232 AU	conjunction	-9968 Mar 06 j 07:39	2° \mathring{B} 52'33	-2°38'21
direct	-9975 Nov 07 j 06:24	16° \mathring{A} 52'24		minimum elong	-9968 Mar 06 j 07:39	2° \mathring{B} 52'33	2°38'56
evening set	-9974 Feb 04 j 10:11	18° \mathring{A} 47'56		max. Earth dist.	-9968 Mar 06 j 04:13	2° \mathring{B} 52'13	30.88043 AU
				morning rise	-9968 Mar 22 j 11:56	3° \mathring{B} 28'24	
conjunction	-9974 Feb 20 j 15:13	19° \mathring{A} 23'52	-2°34'00	retrograde	-9968 Jun 19 j 17:20	5° \mathring{B} 24'22	
minimum elong	-9974 Feb 20 j 15:13	19° \mathring{A} 23'52	2°34'34	opposition	-9968 Sep 05 j 05:59	4° \mathring{B} 00'23	-2°49'19
max. Earth dist.	-9974 Feb 20 j 17:15	19° \mathring{A} 24'03	30.84168 AU	min. Earth dist.	-9968 Sep 05 j 08:55	4° \mathring{B} 00'10	28.88588 AU
morning rise	-9974 Mar 08 j 20:41	19° \mathring{A} 59'50		direct	-9968 Nov 22 j 18:07	2° \mathring{B} 35'15	
retrograde	-9974 Jun 06 j 16:07	21° \mathring{A} 56'32		evening set	-9967 Feb 20 j 17:29	4° \mathring{B} 31'37	
opposition	-9974 Aug 23 j 15:14	20° \mathring{A} 31'56	-2°45'27				
min. Earth dist.	-9974 Aug 23 j 13:08	20° \mathring{A} 32'05	28.84581 AU	conjunction	-9967 Mar 08 j 22:25	5° \mathring{B} 07'30	-2°38'14
direct	-9974 Nov 09 j 17:51	19° \mathring{A} 06'57		minimum elong	-9967 Mar 08 j 22:25	5° \mathring{B} 07'30	2°38'49
evening set	-9973 Feb 07 j 00:50	21° \mathring{A} 02'37		max. Earth dist.	-9967 Mar 08 j 17:09	5° \mathring{B} 07'01	30.88653 AU
				morning rise	-9967 Mar 25 j 02:32	5° \mathring{B} 43'21	
conjunction	-9973 Feb 23 j 06:03	21° \mathring{A} 38'32	-2°35'19	retrograde	-9967 Jun 22 j 04:20	7° \mathring{B} 39'10	
minimum elong	-9973 Feb 23 j 06:02	21° \mathring{A} 38'32	2°35'52	opposition	-9967 Sep 07 j 16:31	6° \mathring{B} 15'15	-2°49'04
max. Earth dist.	-9973 Feb 23 j 08:21	21° \mathring{A} 38'45	30.84583 AU	min. Earth dist.	-9967 Sep 07 j 21:23	6° \mathring{B} 14'55	28.89167 AU
morning rise	-9973 Mar 11 j 11:09	22° \mathring{A} 14'29		direct	-9967 Nov 25 j 05:43	4° \mathring{B} 50'05	
retrograde	-9973 Jun 09 j 04:23	24° \mathring{A} 11'02		evening set	-9966 Feb 23 j 08:10	6° \mathring{B} 46'31	
opposition	-9973 Aug 26 j 01:37	22° \mathring{A} 46'31	-2°46'44				
min. Earth dist.	-9973 Aug 26 j 00:17	22° \mathring{A} 46'37	28.85068 AU	conjunction	-9966 Mar 11 j 13:14	7° \mathring{B} 22'25	-2°37'53
direct	-9973 Nov 12 j 07:11	21° \mathring{A} 21'30		minimum elong	-9966 Mar 11 j 13:14	7° \mathring{B} 22'25	2°38'28
evening set	-9972 Feb 09 j 15:37	23° \mathring{A} 17'16		max. Earth dist.	-9966 Mar 11 j 07:25	7° \mathring{B} 21'52	30.89196 AU
				morning rise	-9966 Mar 27 j 17:05	7° \mathring{B} 58'14	
conjunction	-9972 Feb 25 j 20:39	23° \mathring{A} 53'11	-2°36'24	retrograde	-9966 Jun 24 j 15:53	9° \mathring{B} 53'54	
minimum elong	-9972 Feb 25 j 20:39	23° \mathring{A} 53'11	2°36'59	opposition	-9966 Sep 10 j 03:00	8° \mathring{B} 30'03	-2°48'34
max. Earth dist.	-9972 Feb 25 j 21:01	23° \mathring{A} 53'13	30.85151 AU	min. Earth dist.	-9966 Sep 10 j 08:29	8° \mathring{B} 29'39	28.89665 AU
morning rise	-9972 Mar 13 j 01:46	24° \mathring{A} 29'07		direct	-9966 Nov 27 j 19:45	7° \mathring{B} 04'48	
retrograde	-9972 Jun 10 j 18:18	26° \mathring{A} 25'33		evening set	-9965 Feb 25 j 23:00	9° \mathring{B} 01'19	
opposition	-9972 Aug 27 j 12:03	25° \mathring{A} 01'07	-2°47'46				
min. Earth dist.	-9972 Aug 27 j 10:56	25° \mathring{A} 01'12	28.85708 AU	conjunction	-9965 Mar 14 j 03:51	9° \mathring{B} 37'12	-2°37'17
direct	-9972 Nov 13 j 19:15	23° \mathring{A} 36'05		minimum elong	-9965 Mar 14 j 03:51	9° \mathring{B} 37'12	2°37'52
evening set	-9971 Feb 11 j 06:07	25° \mathring{A} 31'58		max. Earth dist.	-9965 Mar 13 j 19:52	9° \mathring{B} 36'28	30.89676 AU
				morning rise	-9965 Mar 30 j 07:37	10° \mathring{B} 13'00	
conjunction	-9971 Feb 27 j 11:16	26° \mathring{A} 07'53	-2°37'15	retrograde	-9965 Jun 27 j 04:05	12° \mathring{B} 08'30	
minimum elong	-9971 Feb 27 j 11:16	26° \mathring{A} 07'53	2°37'49	opposition	-9965 Sep 12 j 13:25	10° \mathring{B} 44'42	-2°47'48
max. Earth dist.	-9971 Feb 27 j 11:44	26° \mathring{A} 07'56	30.85836 AU	min. Earth dist.	-9965 Sep 12 j 20:07	10° \mathring{B} 44'14	28.90143 AU
morning rise	-9971 Mar 15 j 16:04	26° \mathring{A} 43'48		direct	-9965 Nov 30 j 07:14	9° \mathring{B} 19'23	
retrograde	-9971 Jun 13 j 05:07	28° \mathring{A} 40'07		evening set	-9964 Feb 28 j 13:30	11° \mathring{B} 15'59	
opposition	-9971 Aug 29 j 22:33	27° \mathring{A} 15'49	-2°48'32				
min. Earth dist.	-9971 Aug 29 j 23:04	27° \mathring{A} 15'46	28.86434 AU	conjunction	-9964 Mar 15 j 18:28	11° \mathring{B} 51'51	-2°36'28
direct	-9971 Nov 16 j 06:51	25° \mathring{A} 50'46		minimum elong	-9964 Mar 15 j 18:29	11° \mathring{B} 51'51	2°37'03
evening set	-9970 Feb 13 j 20:56	27° \mathring{A} 46'46		max. Earth dist.	-9964 Mar 15 j 10:36	11° \mathring{B} 51'07	30.90156 AU
				morning rise	-9964 Mar 31 j 21:53	12° \mathring{B} 27'37	
conjunction	-9970 Mar 02 j 02:00	28° \mathring{A} 22'41	-2°37'52	retrograde	-9964 Jun 28 j 15:53	14° \mathring{B} 22'57	
minimum elong	-9970 Mar 02 j 02:00	28° \mathring{A} 22'41	2°38'27	opposition	-9964 Sep 13 j 23:53	12° \mathring{B} 59'12	-2°46'48
max. Earth dist.	-9970 Mar 02 j 00:46	28° \mathring{A} 22'34	30.86595 AU	min. Earth dist.	-9964 Sep 14 j 07:31	12° \mathring{B} 58'39	28.90632 AU
morning rise	-9970 Mar 18 j 06:45	28° \mathring{A} 58'35		direct	-9964 Dec 01 j 21:26	11° \mathring{B} 33'50	
	-9970 Apr 18 j 03:18	0° \mathring{B}		evening set	-9963 Mar 02 j 03:54	13° \mathring{B} 30'28	
retrograde	-9970 Jun 15 j 18:03	0° \mathring{B} 54'47					
	-9970 Aug 14 j 19:17	30° \mathring{R} \mathring{A}		conjunction	-9963 Mar 18 j 08:39	14° \mathring{B} 06'20	-2°35'24
opposition	-9970 Sep 01 j 08:50	29° \mathring{A} 30'36	-2°49'03	minimum elong	-9963 Mar 18 j 08:39	14° \mathring{B} 06'20	2°35'58
min. Earth dist.	-9970 Sep 01 j 09:33	29° \mathring{A} 30'33	28.87200 AU	max. Earth dist.	-9963 Mar 17 j 22:46	14° \mathring{B} 05'24	30.90683 AU
direct	-9970 Nov 18 j 19:04	28° \mathring{A} 05'32		morning rise	-9963 Apr 03 j 12:03	14° \mathring{B} 42'04	
	-9969 Feb 15 j 17:24	0° \mathring{B}		retrograde	-9963 Jul 01 j 04:59	16° \mathring{B} 37'15	
evening set	-9969 Feb 16 j 11:51	0° \mathring{B} 01'40		opposition	-9963 Sep 16 j 10:14	15° \mathring{B} 13'32	-2°45'32
				min. Earth dist.	-9963 Sep 16 j 18:07	15° \mathring{B} 12'59	28.91200 AU
conjunction	-9969 Mar 04 j 16:55	0° \mathring{B} 37'35	-2°38'14	direct	-9963 Dec 04 j 10:35	13° \mathring{B} 48'06	

Attention, astronomical year style is used: The year -9962 in astronomical counting style is the year 9963 BCE in historical counting style.

evening set	-9962 Mar 04 j 18:13	15° $\overline{3}$ 44'48				-9956 Apr 09 j 20:56	0° \approx	
				morning rise		-9956 Apr 19 j 13:28	0° \approx 21'22	
conjunction	-9962 Mar 20 j 23:04	16° $\overline{3}$ 20'40	-2°34'07	retrograde		-9956 Jul 16 j 10:59	2° \approx 15'33	
minimum elong	-9962 Mar 20 j 23:04	16° $\overline{3}$ 20'40	2°34'41	opposition		-9956 Oct 01 j 11:25	0° \approx 52'30	-2°29'51
max. Earth dist.	-9962 Mar 20 j 13:22	16° $\overline{3}$ 19'45	30.91292 AU	min. Earth dist.		-9956 Oct 02 j 01:02	0° \approx 51'32	28.97723 AU
morning rise	-9962 Apr 06 j 02:05	16° $\overline{3}$ 56'23				-9956 Nov 03 j 19:32	30° \overline{R} $\overline{3}$	
retrograde	-9962 Jul 03 j 15:15	18° $\overline{3}$ 51'23		direct		-9956 Dec 19 j 21:45	29° $\overline{3}$ 26'59	
opposition	-9962 Sep 18 j 20:36	17° $\overline{3}$ 27'45	-2°44'01			-9955 Feb 03 j 11:04	0° \approx	
min. Earth dist.	-9962 Sep 19 j 05:57	17° $\overline{3}$ 27'05	28.91861 AU	evening set		-9955 Mar 20 j 21:31	1° \approx 24'07	
direct	-9962 Dec 06 j 23:06	16° $\overline{3}$ 02'16		max. Earth dist.		-9955 Apr 05 j 09:58	1° \approx 58'27	30.97982 AU
evening set	-9961 Mar 07 j 08:37	17° $\overline{3}$ 59'02						
				conjunction		-9955 Apr 06 j 01:43	1° \approx 59'55	-2°18'41
conjunction	-9961 Mar 23 j 13:16	18° $\overline{3}$ 34'53	-2°32'35	minimum elong		-9955 Apr 06 j 01:43	1° \approx 59'55	2°19'11
minimum elong	-9961 Mar 23 j 13:17	18° $\overline{3}$ 34'53	2°33'09	morning rise		-9955 Apr 22 j 03:06	2° \approx 35'30	
max. Earth dist.	-9961 Mar 23 j 02:04	18° $\overline{3}$ 33'50	30.92027 AU	retrograde		-9955 Jul 18 j 21:46	4° \approx 29'33	
morning rise	-9961 Apr 08 j 16:12	19° $\overline{3}$ 10'35		opposition		-9955 Oct 03 j 22:04	3° \approx 06'34	-2°26'41
retrograde	-9961 Jul 06 j 04:03	21° $\overline{3}$ 05'26		min. Earth dist.		-9955 Oct 04 j 12:53	3° \approx 05'32	28.98589 AU
opposition	-9961 Sep 21 j 07:00	19° $\overline{3}$ 41'52	-2°42'16	direct		-9955 Dec 22 j 12:07	1° \approx 41'02	
min. Earth dist.	-9961 Sep 21 j 16:01	19° $\overline{3}$ 41'14	28.92658 AU	evening set		-9954 Mar 23 j 11:43	3° \approx 38'12	
direct	-9961 Dec 09 j 11:51	18° $\overline{3}$ 16'22						
evening set	-9960 Mar 08 j 22:43	20° $\overline{3}$ 13'11		conjunction		-9954 Apr 08 j 15:37	4° \approx 13'59	-2°15'36
				minimum elong		-9954 Apr 08 j 15:38	4° \approx 13'59	2°16'07
conjunction	-9960 Mar 25 j 03:21	20° $\overline{3}$ 49'02	-2°30'50	max. Earth dist.		-9954 Apr 07 j 21:31	4° \approx 12'18	30.98803 AU
minimum elong	-9960 Mar 25 j 03:22	20° $\overline{3}$ 49'02	2°31'24	morning rise		-9954 Apr 24 j 16:54	4° \approx 49'32	
max. Earth dist.	-9960 Mar 24 j 16:00	20° $\overline{3}$ 47'58	30.92886 AU	retrograde		-9954 Jul 21 j 10:12	6° \approx 43'25	
morning rise	-9960 Apr 10 j 05:56	21° $\overline{3}$ 24'42		opposition		-9954 Oct 06 j 08:33	5° \approx 20'30	-2°23'18
retrograde	-9960 Jul 07 j 15:07	23° $\overline{3}$ 19'25		min. Earth dist.		-9954 Oct 06 j 23:50	5° \approx 19'25	28.99354 AU
opposition	-9960 Sep 22 j 17:30	21° $\overline{3}$ 55'57	-2°40'16	direct		-9954 Dec 25 j 01:22	3° \approx 54'54	
min. Earth dist.	-9960 Sep 23 j 04:05	21° $\overline{3}$ 55'12	28.93582 AU	evening set		-9953 Mar 26 j 01:39	5° \approx 52'06	
direct	-9960 Dec 10 j 22:28	20° $\overline{3}$ 30'27		max. Earth dist.		-9953 Apr 10 j 11:27	6° \approx 26'11	30.99523 AU
evening set	-9959 Mar 11 j 12:53	22° $\overline{3}$ 27'20						
				conjunction		-9953 Apr 11 j 05:34	6° \approx 27'52	-2°12'20
conjunction	-9959 Mar 27 j 17:26	23° $\overline{3}$ 03'10	-2°28'51	minimum elong		-9953 Apr 11 j 05:35	6° \approx 27'52	2°12'51
minimum elong	-9959 Mar 27 j 17:26	23° $\overline{3}$ 03'10	2°29'24	morning rise		-9953 Apr 27 j 06:25	7° \approx 03'23	
max. Earth dist.	-9959 Mar 27 j 05:14	23° $\overline{3}$ 02'02	30.93880 AU	retrograde		-9953 Jul 23 j 20:28	8° \approx 57'07	
morning rise	-9959 Apr 12 j 19:52	23° $\overline{3}$ 38'50		opposition		-9953 Oct 08 j 19:17	7° \approx 34'13	-2°19'42
retrograde	-9959 Jul 10 j 01:57	25° $\overline{3}$ 33'24		min. Earth dist.		-9953 Oct 09 j 12:14	7° \approx 33'02	29.00029 AU
opposition	-9959 Sep 25 j 03:45	24° $\overline{3}$ 10'03	-2°38'01	direct		-9953 Dec 27 j 14:24	6° \approx 08'36	
min. Earth dist.	-9959 Sep 25 j 14:06	24° $\overline{3}$ 09'19	28.94608 AU	evening set		-9952 Mar 27 j 15:23	8° \approx 05'46	
direct	-9959 Dec 13 j 11:03	22° $\overline{3}$ 44'32						
evening set	-9958 Mar 14 j 03:08	24° $\overline{3}$ 41'30		conjunction		-9952 Apr 12 j 19:00	8° \approx 41'31	-2°08'53
				minimum elong		-9952 Apr 12 j 19:01	8° \approx 41'31	2°09'23
conjunction	-9958 Mar 30 j 07:34	25° $\overline{3}$ 17'20	-2°26'38	max. Earth dist.		-9952 Apr 11 j 23:14	8° \approx 39'41	31.00188 AU
minimum elong	-9958 Mar 30 j 07:35	25° $\overline{3}$ 17'20	2°27'11	morning rise		-9952 Apr 28 j 19:45	9° \approx 17'01	
max. Earth dist.	-9958 Mar 29 j 18:10	25° $\overline{3}$ 16'05	30.94941 AU	retrograde		-9952 Jul 25 j 08:58	11° \approx 10'34	
morning rise	-9958 Apr 15 j 09:47	25° $\overline{3}$ 52'59		opposition		-9952 Oct 10 j 05:46	9° \approx 47'43	-2°15'54
retrograde	-9958 Jul 12 j 12:18	27° $\overline{3}$ 47'25		min. Earth dist.		-9952 Oct 10 j 22:33	9° \approx 46'32	29.00671 AU
opposition	-9958 Sep 27 j 14:17	26° $\overline{3}$ 24'11	-2°35'32	direct		-9952 Dec 29 j 04:11	8° \approx 22'02	
min. Earth dist.	-9958 Sep 28 j 02:16	26° $\overline{3}$ 23'20	28.95686 AU	evening set		-9951 Mar 30 j 04:58	10° \approx 19'13	
direct	-9958 Dec 15 j 21:59	24° $\overline{3}$ 58'41						
evening set	-9957 Mar 16 j 17:18	26° $\overline{3}$ 55'43		conjunction		-9951 Apr 15 j 08:33	10° \approx 54'57	-2°05'14
				minimum elong		-9951 Apr 15 j 08:33	10° \approx 54'57	2°05'43
conjunction	-9957 Apr 01 j 21:42	27° $\overline{3}$ 31'32	-2°24'12	max. Earth dist.		-9951 Apr 14 j 12:40	10° \approx 53'06	31.00829 AU
minimum elong	-9957 Apr 01 j 21:42	27° $\overline{3}$ 31'32	2°24'44	morning rise		-9951 May 01 j 08:54	11° \approx 30'25	
max. Earth dist.	-9957 Apr 01 j 07:58	27° $\overline{3}$ 30'15	30.96021 AU	retrograde		-9951 Jul 27 j 19:17	13° \approx 23'49	
morning rise	-9957 Apr 17 j 23:36	28° $\overline{3}$ 07'09		opposition		-9951 Oct 12 j 16:15	12° \approx 00'59	-2°11'55
	-9957 Jul 05 j 18:45	0° \approx		min. Earth dist.		-9951 Oct 13 j 10:42	11° \approx 59'41	29.01324 AU
retrograde	-9957 Jul 14 j 23:14	0° \approx 01'28		direct		-9951 Dec 31 j 16:05	10° \approx 35'15	
	-9957 Jul 24 j 07:02	30° \overline{R} $\overline{3}$		evening set		-9950 Apr 01 j 18:31	12° \approx 32'26	
opposition	-9957 Sep 30 j 00:47	28° $\overline{3}$ 38'21	-2°32'49					
min. Earth dist.	-9957 Sep 30 j 13:16	28° $\overline{3}$ 37'28	28.96734 AU	conjunction		-9950 Apr 17 j 21:53	13° \approx 08'09	-2°01'25
direct	-9957 Dec 18 j 10:41	27° $\overline{3}$ 12'51		minimum elong		-9950 Apr 17 j 21:54	13° \approx 08'09	2°01'53
evening set	-9956 Mar 18 j 07:35	29° $\overline{3}$ 09'57		max. Earth dist.		-9950 Apr 17 j 01:11	13° \approx 06'13	31.01517 AU
				morning rise		-9950 May 03 j 22:03	13° \approx 43'36	
conjunction	-9956 Apr 03 j 11:43	29° $\overline{3}$ 45'45	-2°21'32			-9950 Jun 13 j 05:43	15° \approx	
minimum elong	-9956 Apr 03 j 11:44	29° $\overline{3}$ 45'45	2°22'05	retrograde		-9950 Jul 30 j 05:40	15° \approx 36'49	
max. Earth dist.	-9956 Apr 02 j 20:02	29° $\overline{3}$ 44'17	30.97044 AU			-9950 Sep 16 j 06:50	15° \overline{R} \approx	

Attention, astronomical year style is used: The year -9950 in astronomical counting style is the year 9951 BCE in historical counting style.

opposition	-9950 Oct 15 j 02:45	14° \approx 14'03	-2°07'44	minimum elong	-9943 May 03 j 15:50	28° \approx 38'24	1°30'20
min. Earth dist.	-9950 Oct 15 j 20:44	14° \approx 12'47	29.02031 AU	max. Earth dist.	-9943 May 02 j 15:33	28° \approx 36'08	31.08656 AU
direct	-9949 Jan 03 j 05:33	12° \approx 48'17		morning rise	-9943 May 19 j 13:47	29° \approx 13'41	
evening set	-9949 Apr 04 j 07:52	14° \approx 45'27			-9943 Jun 11 j 04:01	0° \approx	
	-9949 Apr 10 j 23:01	15° \approx		retrograde	-9943 Aug 14 j 09:24	1° \approx 06'14	
					-9943 Oct 20 j 14:57	30° \approx	
conjunction	-9949 Apr 20 j 11:00	15° \approx 21'09	-1°57'25	opposition	-9943 Oct 30 j 05:18	29° \approx 44'00	-1°33'33
minimum elong	-9949 Apr 20 j 11:01	15° \approx 21'09	1°57'52	min. Earth dist.	-9943 Oct 31 j 02:35	29° \approx 42'31	29.09250 AU
max. Earth dist.	-9949 Apr 19 j 13:40	15° \approx 19'10	31.02272 AU	direct	-9942 Jan 18 j 18:54	28° \approx 18'25	
morning rise	-9949 May 06 j 10:50	15° \approx 56'35			-9942 Apr 12 j 19:17	0° \approx	
retrograde	-9949 Aug 01 j 15:22	17° \approx 49'41		evening set	-9942 Apr 20 j 03:07	0° \approx 15'42	
opposition	-9949 Oct 17 j 13:23	16° \approx 26'57	-2°03'22	max. Earth dist.	-9942 May 05 j 04:11	0° \approx 49'01	31.09619 AU
min. Earth dist.	-9949 Oct 18 j 08:26	16° \approx 25'36	29.02845 AU				
direct	-9948 Jan 05 j 16:23	15° \approx 01'10		conjunction	-9942 May 06 j 04:33	0° \approx 51'17	-1°24'54
evening set	-9948 Apr 05 j 21:04	16° \approx 58'20		minimum elong	-9942 May 06 j 04:34	0° \approx 51'18	1°25'14
max. Earth dist.	-9948 Apr 21 j 02:56	17° \approx 32'04	31.03158 AU	morning rise	-9942 May 22 j 01:59	1° \approx 26'33	
				retrograde	-9942 Aug 16 j 20:00	3° \approx 19'00	
conjunction	-9948 Apr 22 j 00:04	17° \approx 34'02	-1°53'14	opposition	-9942 Nov 01 j 16:19	1° \approx 56'49	-1°28'03
minimum elong	-9948 Apr 22 j 00:05	17° \approx 34'02	1°53'41	min. Earth dist.	-9942 Nov 02 j 15:14	1° \approx 55'13	29.10155 AU
morning rise	-9948 May 07 j 23:34	18° \approx 09'26		direct	-9941 Jan 21 j 07:35	0° \approx 31'14	
retrograde	-9948 Aug 03 j 01:21	20° \approx 02'24		evening set	-9941 Apr 22 j 15:54	2° \approx 28'30	
opposition	-9948 Oct 18 j 23:55	18° \approx 39'45	-1°58'48				
min. Earth dist.	-9948 Oct 19 j 18:50	18° \approx 38'25	29.03779 AU	conjunction	-9941 May 08 j 16:56	3° \approx 04'04	-1°19'43
direct	-9947 Jan 07 j 04:30	17° \approx 13'59		minimum elong	-9941 May 08 j 16:57	3° \approx 04'04	1°20'02
evening set	-9947 Apr 08 j 10:11	19° \approx 11'10		max. Earth dist.	-9941 May 07 j 15:42	3° \approx 01'43	31.10478 AU
				morning rise	-9941 May 24 j 14:04	3° \approx 39'17	
conjunction	-9947 Apr 24 j 12:52	19° \approx 46'50	-1°48'54	retrograde	-9941 Aug 19 j 06:13	5° \approx 31'37	
minimum elong	-9947 Apr 24 j 12:53	19° \approx 46'50	1°49'19	opposition	-9941 Nov 04 j 03:11	4° \approx 09'29	-1°22'27
max. Earth dist.	-9947 Apr 23 j 14:36	19° \approx 44'46	31.04164 AU	min. Earth dist.	-9941 Nov 05 j 01:42	4° \approx 07'55	29.10948 AU
morning rise	-9947 May 10 j 12:10	20° \approx 22'14		direct	-9940 Jan 23 j 21:26	2° \approx 43'53	
retrograde	-9947 Aug 05 j 12:11	22° \approx 15'06		evening set	-9940 Apr 24 j 04:34	4° \approx 41'07	
opposition	-9947 Oct 21 j 10:28	20° \approx 52'31	-1°54'05	max. Earth dist.	-9940 May 09 j 03:21	5° \approx 14'14	31.11234 AU
min. Earth dist.	-9947 Oct 22 j 05:52	20° \approx 51'10	29.04839 AU				
direct	-9946 Jan 09 j 15:05	19° \approx 26'47		conjunction	-9940 May 10 j 05:16	5° \approx 16'39	-1°14'24
evening set	-9946 Apr 10 j 23:13	21° \approx 24'00		minimum elong	-9940 May 10 j 05:17	5° \approx 16'39	1°14'43
max. Earth dist.	-9946 Apr 26 j 04:13	21° \approx 57'39	31.05275 AU	morning rise	-9940 May 26 j 01:59	5° \approx 51'50	
				retrograde	-9940 Aug 20 j 16:08	7° \approx 44'04	
conjunction	-9946 Apr 27 j 01:50	21° \approx 59'40	-1°44'24	opposition	-9940 Nov 05 j 14:03	6° \approx 21'56	-1°16'43
minimum elong	-9946 Apr 27 j 01:51	21° \approx 59'40	1°44'48	min. Earth dist.	-9940 Nov 06 j 13:45	6° \approx 20'17	29.11677 AU
morning rise	-9946 May 13 j 00:40	22° \approx 35'01		direct	-9939 Jan 25 j 08:46	4° \approx 56'19	
retrograde	-9946 Aug 07 j 22:11	24° \approx 27'48		evening set	-9939 Apr 26 j 16:56	6° \approx 53'29	
opposition	-9946 Oct 23 j 21:05	23° \approx 05'20	-1°49'11				
min. Earth dist.	-9946 Oct 24 j 17:11	23° \approx 03'55	29.05964 AU	conjunction	-9939 May 12 j 17:23	7° \approx 29'00	-1°09'00
direct	-9945 Jan 12 j 04:27	21° \approx 39'38		minimum elong	-9939 May 12 j 17:23	7° \approx 29'00	1°09'17
evening set	-9945 Apr 13 j 12:23	23° \approx 36'53		max. Earth dist.	-9939 May 11 j 15:35	7° \approx 26'36	31.11948 AU
				morning rise	-9939 May 28 j 13:43	8° \approx 04'09	
conjunction	-9945 Apr 29 j 14:33	24° \approx 12'32	-1°39'44	retrograde	-9939 Aug 23 j 01:30	9° \approx 56'16	
minimum elong	-9945 Apr 29 j 14:34	24° \approx 12'32	1°40'07	opposition	-9939 Nov 08 j 00:54	8° \approx 34'09	-1°10'54
max. Earth dist.	-9945 Apr 28 j 15:21	24° \approx 10'22	31.06434 AU	min. Earth dist.	-9939 Nov 09 j 00:35	8° \approx 32'30	29.12358 AU
morning rise	-9945 May 15 j 13:13	24° \approx 47'52		direct	-9938 Jan 27 j 21:40	7° \approx 08'30	
retrograde	-9945 Aug 10 j 10:21	26° \approx 40'35		evening set	-9938 Apr 29 j 05:21	9° \approx 05'37	
opposition	-9945 Oct 26 j 07:47	25° \approx 18'12	-1°44'07	max. Earth dist.	-9938 May 14 j 02:30	9° \approx 38'35	31.12637 AU
min. Earth dist.	-9945 Oct 27 j 03:47	25° \approx 16'48	29.07123 AU				
direct	-9944 Jan 14 j 16:26	23° \approx 52'33		conjunction	-9938 May 15 j 05:17	9° \approx 41'05	-1°03'31
evening set	-9944 Apr 15 j 01:09	25° \approx 49'50		minimum elong	-9938 May 15 j 05:18	9° \approx 41'05	1°03'46
max. Earth dist.	-9944 Apr 30 j 04:31	26° \approx 23'21	31.07578 AU	morning rise	-9938 May 31 j 01:16	10° \approx 16'13	
				retrograde	-9938 Aug 25 j 11:05	12° \approx 08'13	
conjunction	-9944 May 01 j 03:13	26° \approx 25'27	-1°34'55	opposition	-9938 Nov 10 j 11:44	10° \approx 46'06	-1°04'59
minimum elong	-9944 May 01 j 03:14	26° \approx 25'27	1°35'18	min. Earth dist.	-9938 Nov 11 j 11:42	10° \approx 44'26	29.13067 AU
morning rise	-9944 May 17 j 01:22	27° \approx 00'46		direct	-9937 Jan 30 j 08:58	9° \approx 20'26	
retrograde	-9944 Aug 11 j 20:38	28° \approx 53'24		evening set	-9937 May 01 j 17:28	11° \approx 17'29	
opposition	-9944 Oct 27 j 18:40	27° \approx 31'07	-1°38'54				
min. Earth dist.	-9944 Oct 28 j 16:10	27° \approx 29'37	29.08230 AU	conjunction	-9937 May 17 j 17:08	11° \approx 52'56	-0°57'56
direct	-9943 Jan 16 j 04:47	26° \approx 05'30		minimum elong	-9937 May 17 j 17:09	11° \approx 52'56	0°58'10
evening set	-9943 Apr 17 j 14:12	28° \approx 02'47		max. Earth dist.	-9937 May 16 j 15:24	11° \approx 50'32	31.13377 AU
				morning rise	-9937 Jun 02 j 12:34	12° \approx 28'01	
conjunction	-9943 May 03 j 15:50	28° \approx 38'24	-1°29'59	retrograde	-9937 Aug 27 j 19:30	14° \approx 19'55	

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

opposition	-9937 Nov 12 j 22:45	12° H 57'49	-0°58'58	minimum elong	-9930 Jun 02 j 00:32	27° H 13'33	0°17'06
min. Earth dist.	-9937 Nov 13 j 22:58	12° H 56'08	29.13836 AU	morning rise	-9930 Jun 17 j 16:39	27° H 48'25	
direct	-9936 Feb 01 j 21:39	11° H 32'09		retrograde	-9930 Sep 11 j 21:24	29° H 40'07	
evening set	-9936 May 03 j 05:27	13° H 29'08		opposition	-9930 Nov 28 j 04:27	28° H 18'23	-0°15'02
max. Earth dist.	-9936 May 18 j 01:50	14° H 02'04	31.14207 AU	min. Earth dist.	-9930 Nov 29 j 04:51	28° H 16'42	29.21127 AU
				direct	-9929 Feb 17 j 11:53	26° H 53'07	
conjunction	-9936 May 19 j 04:33	14° H 04'33	-0°52'16	evening set	-9929 May 19 j 15:56	28° H 49'59	
minimum elong	-9936 May 19 j 04:33	14° H 04'33	0°52'29	max. Earth dist.	-9929 Jun 03 j 08:45	29° H 22'39	31.21516 AU
morning rise	-9936 Jun 03 j 23:41	14° H 39'36					
retrograde	-9936 Aug 29 j 06:38	16° H 31'27		conjunction	-9929 Jun 04 j 11:35	29° H 25'09	-0°11'01
opposition	-9936 Nov 14 j 09:37	15° H 09'21	-0°52'53	minimum elong	-9929 Jun 04 j 11:35	29° H 25'09	0°11'06
min. Earth dist.	-9936 Nov 15 j 09:05	15° H 07'44	29.14724 AU	behind sun begin	-9929 Jun 04 j 06:45	29° H 24'43	
direct	-9935 Feb 03 j 08:43	13° H 43'42		behind sun end	-9929 Jun 04 j 16:26	29° H 25'35	
evening set	-9935 May 05 j 17:20	15° H 40'39		morning rise	-9929 Jun 20 j 03:15	29° H 59'58	
					-9929 Jun 20 j 03:33	0° V	
conjunction	-9935 May 21 j 16:10	16° H 16'02	-0°46'32	retrograde	-9929 Sep 14 j 07:30	1° V 51'40	
minimum elong	-9935 May 21 j 16:10	16° H 16'02	0°46'44	opposition	-9929 Nov 30 j 15:55	0° V 29'58	-0°08'36
max. Earth dist.	-9935 May 20 j 14:34	16° H 13'39	31.15154 AU	min. Earth dist.	-9929 Dec 01 j 16:30	0° V 28'17	29.21948 AU
morning rise	-9935 Jun 06 j 10:41	16° H 51'03			-9929 Dec 19 j 05:11	30° R H	
retrograde	-9935 Aug 31 j 15:58	18° H 42'50		direct	-9928 Feb 19 j 22:58	29° H 04'45	
opposition	-9935 Nov 16 j 20:32	17° H 20'47	-0°46'43		-9928 Apr 20 j 03:42	0° V	
min. Earth dist.	-9935 Nov 17 j 20:50	17° H 19'06	29.15723 AU	evening set	-9928 May 21 j 03:15	1° V 01'32	
direct	-9934 Feb 05 j 20:48	15° H 55'10					
evening set	-9934 May 08 j 05:20	17° H 52'07		conjunction	-9928 Jun 05 j 22:31	1° V 36'41	-0°05'02
max. Earth dist.	-9934 May 23 j 01:14	18° H 25'00	31.16223 AU	minimum elong	-9928 Jun 05 j 22:31	1° V 36'41	0°05'04
				behind sun begin	-9928 Jun 05 j 16:14	1° V 36'07	
conjunction	-9934 May 24 j 03:34	18° H 27'27	-0°40'44	behind sun end	-9928 Jun 06 j 04:49	1° V 37'14	
minimum elong	-9934 May 24 j 03:34	18° H 27'27	0°40'55	max. Earth dist.	-9928 Jun 04 j 20:38	1° V 34'16	31.22270 AU
morning rise	-9934 Jun 08 j 21:47	19° H 02'26		morning rise	-9928 Jun 21 j 13:33	2° V 11'28	
retrograde	-9934 Sep 03 j 04:07	20° H 54'11		retrograde	-9928 Sep 15 j 15:48	4° V 03'09	
opposition	-9934 Nov 19 j 07:31	19° H 32'12	-0°40'28	opposition	-9928 Dec 02 j 03:24	2° V 41'27	-0°02'10
min. Earth dist.	-9934 Nov 20 j 06:48	19° H 30'35	29.16827 AU	min. Earth dist.	-9928 Dec 03 j 04:27	2° V 39'44	29.22632 AU
direct	-9933 Feb 08 j 10:12	18° H 06'39		direct	-9927 Feb 21 j 11:20	1° V 16'15	
evening set	-9933 May 10 j 17:02	20° H 03'35		asc. node	-9927 Apr 03 j 13:50	1° V 42'51	
				evening set	-9927 May 23 j 14:44	3° V 13'00	
conjunction	-9933 May 26 j 14:54	20° H 38'53	-0°34'52	max. Earth dist.	-9927 Jun 07 j 06:14	3° V 45'34	31.22906 AU
minimum elong	-9933 May 26 j 14:54	20° H 38'53	0°35'02				
max. Earth dist.	-9933 May 25 j 13:20	20° H 36'30	31.17358 AU	conjunction	-9927 Jun 08 j 09:18	3° V 48'05	0°01'06
morning rise	-9933 Jun 11 j 08:29	21° H 13'51		minimum elong	-9927 Jun 08 j 09:17	3° V 48'05	0°01'04
retrograde	-9933 Sep 05 j 14:32	23° H 05'35		behind sun begin	-9927 Jun 08 j 02:49	3° V 47'31	
opposition	-9933 Nov 21 j 18:44	21° H 43'39	-0°34'11	behind sun end	-9927 Jun 08 j 15:45	3° V 48'40	
min. Earth dist.	-9933 Nov 22 j 19:03	21° H 41'59	29.17982 AU	morning rise	-9927 Jun 23 j 23:56	4° V 22'50	
direct	-9932 Feb 10 j 22:08	20° H 18'12		retrograde	-9927 Sep 18 j 02:45	6° V 14'30	
evening set	-9932 May 12 j 04:49	22° H 15'07		opposition	-9927 Dec 04 j 14:40	4° V 52'48	0°04'16
max. Earth dist.	-9932 May 27 j 00:20	22° H 47'59	31.18523 AU	min. Earth dist.	-9927 Dec 05 j 15:06	4° V 51'07	29.23226 AU
				direct	-9926 Feb 23 j 21:56	3° V 27'37	
conjunction	-9932 May 28 j 02:08	22° H 50'23	-0°28'57	evening set	-9926 May 26 j 01:57	5° V 24'18	
minimum elong	-9932 May 28 j 02:08	22° H 50'23	0°29'06				
morning rise	-9932 Jun 12 j 19:20	23° H 25'19		conjunction	-9926 Jun 10 j 20:04	5° V 59'20	0°07'08
retrograde	-9932 Sep 07 j 01:10	25° H 17'02		minimum elong	-9926 Jun 10 j 20:05	5° V 59'20	0°07'08
opposition	-9932 Nov 23 j 05:46	23° H 55'11	-0°27'50	behind sun begin	-9926 Jun 10 j 14:06	5° V 58'48	
min. Earth dist.	-9932 Nov 24 j 05:20	23° H 53'34	29.19122 AU	behind sun end	-9926 Jun 11 j 02:03	5° V 59'52	
direct	-9931 Feb 12 j 11:22	22° H 29'48		max. Earth dist.	-9926 Jun 09 j 18:09	5° V 56'55	31.23464 AU
evening set	-9931 May 14 j 16:33	24° H 26'42		morning rise	-9926 Jun 26 j 10:01	6° V 34'03	
max. Earth dist.	-9931 May 29 j 11:13	24° H 59'31	31.19629 AU	retrograde	-9926 Sep 20 j 11:51	8° V 25'43	
				opposition	-9926 Dec 07 j 02:17	7° V 03'59	0°10'41
conjunction	-9931 May 30 j 13:22	25° H 01'57	-0°23'00	min. Earth dist.	-9926 Dec 08 j 03:31	7° V 02'15	29.23764 AU
minimum elong	-9931 May 30 j 13:22	25° H 01'57	0°23'07	direct	-9925 Feb 26 j 10:16	5° V 38'49	
morning rise	-9931 Jun 15 j 06:03	25° H 36'51		evening set	-9925 May 28 j 13:01	7° V 35'25	
retrograde	-9931 Sep 09 j 11:48	27° H 28'34		max. Earth dist.	-9925 Jun 12 j 04:00	8° V 07'57	31.24004 AU
opposition	-9931 Nov 25 j 17:05	26° H 06'47	-0°21'27				
min. Earth dist.	-9931 Nov 26 j 17:35	26° H 05'05	29.20190 AU	conjunction	-9925 Jun 13 j 06:23	8° V 10'24	0°13'06
direct	-9930 Feb 14 j 22:47	24° H 41'27		minimum elong	-9925 Jun 13 j 06:23	8° V 10'24	0°13'07
evening set	-9930 May 17 j 04:13	26° H 38'21		behind sun begin	-9925 Jun 13 j 02:31	8° V 10'04	
max. Earth dist.	-9930 May 31 j 22:41	27° H 11'09	31.20640 AU	behind sun end	-9925 Jun 13 j 10:15	8° V 10'45	
				morning rise	-9925 Jun 28 j 19:56	8° V 45'04	
conjunction	-9930 Jun 02 j 00:32	27° H 13'33	-0°17'01	retrograde	-9925 Sep 22 j 23:28	10° V 36'44	

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

opposition	-9925 Dec 09 j 13:46	9° Υ 14'59	0°17'05	minimum elong	-9918 Jun 28 j 05:05	23° Υ 25'54	0°54'10
min. Earth dist.	-9925 Dec 10 j 13:41	9° Υ 13'20	29.24312 AU	morning rise	-9918 Jul 13 j 14:38	24° Υ 00'17	
direct	-9924 Feb 28 j 23:34	7° Υ 49'49		retrograde	-9918 Oct 07 j 22:14	25° Υ 52'15	
evening set	-9924 May 29 j 23:56	9° Υ 46'22		opposition	-9918 Dec 24 j 23:43	24° Υ 30'36	1°00'37
				min. Earth dist.	-9918 Dec 25 j 21:02	24° Υ 29'09	29.29456 AU
conjunction	-9924 Jun 14 j 16:48	10° Υ 21'19	0°19'04	direct	-9917 Mar 16 j 11:34	23° Υ 05'54	
minimum elong	-9924 Jun 14 j 16:48	10° Υ 21'19	0°19'07	evening set	-9917 Jun 15 j 02:39	25° Υ 02'07	
max. Earth dist.	-9924 Jun 13 j 15:27	10° Υ 18'57	31.24565 AU				
morning rise	-9924 Jun 30 j 05:39	10° Υ 55'56		conjunction	-9917 Jun 30 j 15:01	25° Υ 36'45	0°59'36
retrograde	-9924 Sep 24 j 09:31	12° Υ 47'36		minimum elong	-9917 Jun 30 j 15:00	25° Υ 36'45	0°59'47
opposition	-9924 Dec 11 j 01:15	11° Υ 25'50	0°23'27	max. Earth dist.	-9917 Jun 29 j 16:57	25° Υ 34'41	31.29670 AU
min. Earth dist.	-9924 Dec 12 j 01:47	11° Υ 24'09	29.24917 AU	morning rise	-9917 Jul 15 j 23:47	26° Υ 11'06	
direct	-9923 Mar 02 j 11:00	10° Υ 00'42		retrograde	-9917 Oct 10 j 07:13	28° Υ 03'08	
evening set	-9923 Jun 01 j 10:49	11° Υ 57'11		opposition	-9917 Dec 27 j 11:54	26° Υ 41'28	1°06'34
max. Earth dist.	-9923 Jun 16 j 02:02	12° Υ 29'45	31.25213 AU	min. Earth dist.	-9917 Dec 28 j 09:56	26° Υ 39'58	29.29968 AU
				direct	-9916 Mar 17 j 23:34	25° Υ 16'49	
conjunction	-9923 Jun 17 j 03:01	12° Υ 32'05	0°25'00	evening set	-9916 Jun 16 j 13:16	27° Υ 12'58	
minimum elong	-9923 Jun 17 j 03:01	12° Υ 32'05	0°25'03	max. Earth dist.	-9916 Jul 01 j 02:15	27° Υ 45'26	31.30108 AU
morning rise	-9923 Jul 02 j 15:23	13° Υ 06'40					
retrograde	-9923 Sep 26 j 19:46	14° Υ 58'20		conjunction	-9916 Jul 02 j 00:51	27° Υ 47'33	1°05'07
opposition	-9923 Dec 13 j 12:46	13° Υ 36'35	0°29'47	minimum elong	-9916 Jul 02 j 00:50	27° Υ 47'33	1°05'19
min. Earth dist.	-9923 Dec 14 j 11:51	13° Υ 35'00	29.25601 AU	morning rise	-9916 Jul 17 j 09:12	28° Υ 21'51	
direct	-9922 Mar 05 j 00:31	12° Υ 11'30			-9916 Sep 13 j 04:19	0° \mathcal{B}	
evening set	-9922 Jun 03 j 21:35	14° Υ 07'56		retrograde	-9916 Oct 11 j 18:32	0° \mathcal{B} 13'57	
					-9916 Nov 10 j 01:39	30° $\mathcal{R}\Upsilon$	
conjunction	-9922 Jun 19 j 13:08	14° Υ 42'47	0°30'54	opposition	-9916 Dec 28 j 23:44	28° Υ 52'15	1°12'24
minimum elong	-9922 Jun 19 j 13:07	14° Υ 42'47	0°31'00	min. Earth dist.	-9916 Dec 29 j 20:36	28° Υ 50'50	29.30334 AU
max. Earth dist.	-9922 Jun 18 j 12:27	14° Υ 40'29	31.25937 AU	direct	-9915 Mar 20 j 11:33	27° Υ 27'38	
morning rise	-9922 Jul 05 j 00:53	15° Υ 17'20		evening set	-9915 Jun 18 j 23:40	29° Υ 23'43	
retrograde	-9922 Sep 29 j 06:51	17° Υ 09'03					
opposition	-9922 Dec 16 j 00:28	15° Υ 47'18	0°36'04	conjunction	-9915 Jul 04 j 10:41	29° Υ 58'15	1°10'31
min. Earth dist.	-9922 Dec 16 j 23:39	15° Υ 45'43	29.26378 AU	minimum elong	-9915 Jul 04 j 10:40	29° Υ 58'15	1°10'45
direct	-9921 Mar 07 j 12:33	14° Υ 22'18		max. Earth dist.	-9915 Jul 03 j 12:48	29° Υ 56'12	31.30391 AU
evening set	-9921 Jun 06 j 08:16	16° Υ 18'41			-9915 Jul 05 j 05:19	0° \mathcal{B}	
				morning rise	-9915 Jul 19 j 18:22	0° \mathcal{B} 32'31	
conjunction	-9921 Jun 21 j 23:15	16° Υ 53'30	0°36'46	retrograde	-9915 Oct 14 j 04:49	2° \mathcal{B} 24'41	
minimum elong	-9921 Jun 21 j 23:14	16° Υ 53'30	0°36'52	opposition	-9915 Dec 31 j 11:54	1° \mathcal{B} 02'56	1°18'08
max. Earth dist.	-9921 Jun 20 j 23:44	16° Υ 51'18	31.26750 AU	min. Earth dist.	-9914 Jan 01 j 09:31	1° \mathcal{B} 01'28	29.30564 AU
morning rise	-9921 Jul 07 j 10:24	17° Υ 28'00			-9914 Feb 13 j 02:26	30° $\mathcal{R}\Upsilon$	
retrograde	-9921 Oct 01 j 16:27	19° Υ 19'46		direct	-9914 Mar 22 j 22:29	29° Υ 38'20	
opposition	-9921 Dec 18 j 12:10	17° Υ 58'03	0°42'18		-9914 Apr 28 j 22:44	0° \mathcal{B}	
min. Earth dist.	-9921 Dec 19 j 10:35	17° Υ 56'31	29.27205 AU	evening set	-9914 Jun 21 j 09:55	1° \mathcal{B} 34'20	
direct	-9920 Mar 09 j 01:58	16° Υ 33'07					
evening set	-9920 Jun 07 j 18:53	18° Υ 29'29		conjunction	-9914 Jul 06 j 20:14	2° \mathcal{B} 08'49	1°15'50
max. Earth dist.	-9920 Jun 22 j 09:15	19° Υ 02'01	31.27583 AU	minimum elong	-9914 Jul 06 j 20:13	2° \mathcal{B} 08'49	1°16'06
				max. Earth dist.	-9914 Jul 05 j 22:48	2° \mathcal{B} 06'48	31.30565 AU
conjunction	-9920 Jun 23 j 09:07	19° Υ 04'15	0°42'34	morning rise	-9914 Jul 22 j 03:25	2° \mathcal{B} 43'03	
minimum elong	-9920 Jun 23 j 09:07	19° Υ 04'15	0°42'42	retrograde	-9914 Oct 16 j 15:15	4° \mathcal{B} 35'15	
morning rise	-9920 Jul 08 j 19:49	19° Υ 38'43		opposition	-9913 Jan 03 j 00:01	3° \mathcal{B} 13'28	1°23'45
retrograde	-9920 Oct 03 j 02:33	21° Υ 30'32		min. Earth dist.	-9913 Jan 03 j 20:14	3° \mathcal{B} 12'05	29.30692 AU
opposition	-9920 Dec 19 j 23:54	20° Υ 08'51	0°48'29	direct	-9913 Mar 25 j 12:18	1° \mathcal{B} 48'53	
min. Earth dist.	-9920 Dec 20 j 22:00	20° Υ 07'21	29.28039 AU	evening set	-9913 Jun 23 j 20:04	3° \mathcal{B} 44'48	
direct	-9919 Mar 11 j 12:36	18° Υ 44'01		max. Earth dist.	-9913 Jul 08 j 08:30	4° \mathcal{B} 17'14	31.30658 AU
evening set	-9919 Jun 10 j 05:28	20° Υ 40'20					
				conjunction	-9913 Jul 09 j 05:42	4° \mathcal{B} 19'14	1°21'02
conjunction	-9919 Jun 25 j 19:11	21° Υ 15'03	0°48'19	minimum elong	-9913 Jul 09 j 05:41	4° \mathcal{B} 19'14	1°21'18
minimum elong	-9919 Jun 25 j 19:11	21° Υ 15'03	0°48'28	morning rise	-9913 Jul 24 j 12:21	4° \mathcal{B} 53'25	
max. Earth dist.	-9919 Jun 24 j 20:44	21° Υ 12'57	31.28383 AU	retrograde	-9913 Oct 19 j 02:33	6° \mathcal{B} 45'41	
morning rise	-9919 Jul 11 j 05:09	21° Υ 49'29		opposition	-9912 Jan 05 j 12:09	5° \mathcal{B} 23'49	1°29'15
retrograde	-9919 Oct 05 j 10:46	23° Υ 41'22		min. Earth dist.	-9912 Jan 06 j 08:23	5° \mathcal{B} 22'27	29.30790 AU
opposition	-9919 Dec 22 j 11:45	22° Υ 19'43	0°54'36	direct	-9912 Mar 27 j 00:16	3° \mathcal{B} 59'16	
min. Earth dist.	-9919 Dec 23 j 10:02	22° Υ 18'12	29.28797 AU	evening set	-9912 Jun 25 j 05:54	5° \mathcal{B} 55'06	
direct	-9918 Mar 14 j 01:00	20° Υ 54'57					
evening set	-9918 Jun 12 j 16:14	22° Υ 51'13		conjunction	-9912 Jul 10 j 15:01	6° \mathcal{B} 29'29	1°26'07
max. Earth dist.	-9918 Jun 27 j 05:51	23° Υ 23'43	31.29092 AU	minimum elong	-9912 Jul 10 j 15:00	6° \mathcal{B} 29'29	1°26'25
				max. Earth dist.	-9912 Jul 09 j 19:16	6° \mathcal{B} 27'38	31.30749 AU
conjunction	-9918 Jun 28 j 05:06	23° Υ 25'54	0°54'00	morning rise	-9912 Jul 25 j 21:05	7° \mathcal{B} 03'38	

Attention, astronomical year style is used: The year -9912 in astronomical counting style is the year 9913 BCE in historical counting style.

retrograde	-9912 Oct 20 j 11:52	8°855'58		min. Earth dist.	-9905 Jan 21 j 17:02	20°834'53	29.32709 AU
opposition	-9911 Jan 07 j 00:17	7°834'03	1°34'37	direct	-9905 Apr 12 j 07:18	19°811'49	
min. Earth dist.	-9911 Jan 07 j 19:26	7°832'45	29.30890 AU	evening set	-9905 Jul 11 j 02:06	21°807'17	
direct	-9911 Mar 29 j 14:00	6°809'31					
evening set	-9911 Jun 27 j 15:53	8°805'17		conjunction	-9905 Jul 26 j 06:50	21°841'23	1°57'49
max. Earth dist.	-9911 Jul 12 j 04:24	8°837'45	31.30870 AU	minimum elong	-9905 Jul 26 j 06:49	21°841'23	1°58'13
				max. Earth dist.	-9905 Jul 25 j 16:48	21°840'03	31.32683 AU
conjunction	-9911 Jul 13 j 00:11	8°839'37	1°31'04	morning rise	-9905 Aug 10 j 09:27	22°815'19	
minimum elong	-9911 Jul 13 j 00:10	8°839'37	1°31'22	retrograde	-9905 Nov 05 j 12:34	24°808'31	
morning rise	-9911 Jul 28 j 05:48	9°813'44		opposition	-9904 Jan 23 j 14:42	22°846'31	2°07'57
retrograde	-9911 Oct 22 j 22:02	11°806'09		min. Earth dist.	-9904 Jan 24 j 03:59	22°845'38	29.32895 AU
opposition	-9910 Jan 09 j 12:23	9°844'12	1°39'50	direct	-9904 Apr 13 j 20:36	21°822'32	
min. Earth dist.	-9910 Jan 10 j 06:37	9°842'58	29.31065 AU	evening set	-9904 Jul 12 j 11:45	23°817'57	
direct	-9910 Apr 01 j 00:52	8°819'43					
evening set	-9910 Jun 30 j 01:39	10°815'25		conjunction	-9904 Jul 27 j 15:54	23°852'00	2°01'43
				minimum elong	-9904 Jul 27 j 15:53	23°852'00	2°02'09
conjunction	-9910 Jul 15 j 09:28	10°849'42	1°35'53	max. Earth dist.	-9904 Jul 27 j 01:51	23°850'41	31.32791 AU
minimum elong	-9910 Jul 15 j 09:27	10°849'42	1°36'13	morning rise	-9904 Aug 11 j 18:09	24°825'55	
max. Earth dist.	-9910 Jul 14 j 15:44	10°848'02	31.31079 AU	retrograde	-9904 Nov 07 j 01:16	26°819'15	
morning rise	-9910 Jul 30 j 14:24	11°823'47		opposition	-9903 Jan 25 j 03:22	24°857'12	2°12'02
retrograde	-9910 Oct 25 j 06:19	13°816'18		min. Earth dist.	-9903 Jan 25 j 16:42	24°856'18	29.32950 AU
opposition	-9909 Jan 12 j 00:44	11°854'20	1°44'55	direct	-9903 Apr 16 j 07:58	23°833'15	
min. Earth dist.	-9909 Jan 12 j 18:20	11°853'09	29.31322 AU	evening set	-9903 Jul 14 j 21:18	25°828'36	
direct	-9909 Apr 03 j 13:29	10°829'55					
evening set	-9909 Jul 02 j 11:23	12°825'34		conjunction	-9903 Jul 30 j 01:00	26°802'37	2°05'27
				minimum elong	-9903 Jul 30 j 00:59	26°802'37	2°05'53
conjunction	-9909 Jul 17 j 18:25	12°859'49	1°40'34	max. Earth dist.	-9903 Jul 29 j 12:19	26°801'25	31.32764 AU
minimum elong	-9909 Jul 17 j 18:24	12°859'49	1°40'54	morning rise	-9903 Aug 14 j 02:43	26°836'30	
max. Earth dist.	-9909 Jul 17 j 00:39	12°858'09	31.31382 AU	retrograde	-9903 Nov 09 j 11:08	28°829'56	
morning rise	-9909 Aug 01 j 23:02	13°833'52		opposition	-9902 Jan 27 j 16:00	27°807'50	2°15'56
	-9909 Sep 17 j 22:37	15°8		min. Earth dist.	-9902 Jan 28 j 04:25	27°807'00	29.32851 AU
retrograde	-9909 Oct 27 j 17:51	15°826'31		direct	-9902 Apr 18 j 21:21	25°843'55	
	-9909 Dec 08 j 00:39	15°88		evening set	-9902 Jul 17 j 06:55	27°839'11	
opposition	-9908 Jan 14 j 12:57	14°804'32	1°49'51				
min. Earth dist.	-9908 Jan 15 j 04:52	14°803'28	29.31669 AU	conjunction	-9902 Aug 01 j 09:58	28°813'10	2°09'00
direct	-9908 Apr 04 j 23:53	12°840'12		minimum elong	-9902 Aug 01 j 09:57	28°813'10	2°09'28
evening set	-9908 Jul 03 j 21:02	14°835'48		max. Earth dist.	-9902 Jul 31 j 21:00	28°811'56	31.32605 AU
	-9908 Jul 14 j 17:13	15°8		morning rise	-9902 Aug 16 j 11:28	28°847'01	
max. Earth dist.	-9908 Jul 18 j 11:34	15°808'30	31.31741 AU		-9902 Sep 23 j 01:44	0°II	
				retrograde	-9902 Nov 11 j 22:14	0°II40'34	
conjunction	-9908 Jul 19 j 03:37	15°810'01	1°45'06		-9901 Jan 03 j 04:23	30°88	
minimum elong	-9908 Jul 19 j 03:36	15°810'01	1°45'28	opposition	-9901 Jan 30 j 04:43	29°818'23	2°19'38
morning rise	-9908 Aug 03 j 07:35	15°844'03		min. Earth dist.	-9901 Jan 30 j 16:23	29°817'36	29.32654 AU
retrograde	-9908 Oct 29 j 02:51	17°836'49		direct	-9901 Apr 21 j 08:41	27°854'29	
opposition	-9907 Jan 16 j 01:12	16°814'51	1°54'38	evening set	-9901 Jul 19 j 16:09	29°849'38	
min. Earth dist.	-9907 Jan 16 j 17:20	16°813'46	29.32047 AU		-9901 Jul 24 j 08:08	0°II	
	-9907 Mar 13 j 21:17	15°88					
direct	-9907 Apr 07 j 11:04	14°850'37		conjunction	-9901 Aug 03 j 18:54	0°II23'35	2°12'23
	-9907 May 01 j 13:39	15°8		minimum elong	-9901 Aug 03 j 18:53	0°II23'35	2°12'51
evening set	-9907 Jul 06 j 06:48	16°846'11		max. Earth dist.	-9901 Aug 03 j 07:50	0°II22'33	31.32353 AU
				morning rise	-9901 Aug 18 j 19:55	0°II57'25	
conjunction	-9907 Jul 21 j 12:40	17°820'21	1°49'30	retrograde	-9901 Nov 14 j 07:05	2°II51'03	
minimum elong	-9907 Jul 21 j 12:39	17°820'21	1°49'52	opposition	-9900 Feb 01 j 17:27	1°II28'47	2°23'09
max. Earth dist.	-9907 Jul 20 j 20:48	17°818'51	31.32119 AU	min. Earth dist.	-9900 Feb 02 j 04:42	1°II28'02	29.32372 AU
morning rise	-9907 Aug 05 j 16:16	17°854'21		direct	-9900 Apr 22 j 22:27	0°II04'54	
retrograde	-9907 Oct 31 j 14:25	19°847'16		evening set	-9900 Jul 21 j 01:32	1°II59'57	
opposition	-9906 Jan 18 j 13:34	18°825'18	1°59'14				
min. Earth dist.	-9906 Jan 19 j 03:59	18°824'20	29.32412 AU	conjunction	-9900 Aug 05 j 03:40	2°II33'51	2°15'34
direct	-9906 Apr 09 j 21:48	17°801'09		minimum elong	-9900 Aug 05 j 03:39	2°II33'51	2°16'03
evening set	-9906 Jul 08 j 16:24	18°856'40		max. Earth dist.	-9900 Aug 04 j 16:31	2°II32'48	31.32056 AU
				morning rise	-9900 Aug 20 j 04:31	3°II07'40	
conjunction	-9906 Jul 23 j 21:42	19°830'49	1°53'44	retrograde	-9900 Nov 15 j 18:33	5°II01'24	
minimum elong	-9906 Jul 23 j 21:41	19°830'49	1°54'09	opposition	-9899 Feb 03 j 05:53	3°II39'02	2°26'27
max. Earth dist.	-9906 Jul 23 j 06:54	19°829'25	31.32440 AU	min. Earth dist.	-9899 Feb 03 j 15:26	3°II38'24	29.32084 AU
morning rise	-9906 Aug 08 j 00:46	20°804'47		direct	-9899 Apr 25 j 09:44	2°II15'10	
retrograde	-9906 Nov 03 j 01:20	21°857'51		evening set	-9899 Jul 23 j 10:42	4°II10'07	
opposition	-9905 Jan 21 j 02:14	20°835'52	2°03'41				

conjunction	-9899 Aug 07 j 12:31	4°II43'59	2°18'33
minimum elong	-9899 Aug 07 j 12:30	4°II43'59	2°19'02
max. Earth dist.	-9899 Aug 07 j 03:11	4°II43'06	31.31768 AU
morning rise	-9899 Aug 22 j 12:55	5°II17'47	
retrograde	-9899 Nov 18 j 02:59	7°II11'37	